

MARK PESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE ALHAMBRA, CALIFORNIA 91803-1331 Telephone: (626) 458-5100 http://dpw.lacounty.gov

December 13, 2022

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1460 ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE REFER TO FILE: SWM-0

Ms. Celine Gallon CWA Section 401 WQC Program Division of Water Quality State Water Resources Control Board 1001 "I" St. 15th Floor Sacramento, CA 95814

Dear Ms. Gallon:

2020-21 ANNUAL MAINTENANCE AND MONITORING REPORT FOR SOFT-BOTTOM CHANNEL MAINTENANCE PROGRAM SECTION 401 WATER QUALITY CERTIFICTION ORDER NO. 99-011 (2018 WDR) AND 15-038

The Los Angeles County Flood Control District (LACFCD) is pleased to submit the enclosed 2020-21 Annual Maintenance and Monitoring Report for the Soft-Bottom Channel (SBC) Maintenance Program, per the requirements of the Section 401 Water Quality Certification Order No. 99-011 and 15-038.

The following are enclosed for your review and approval:

- The Annual Maintenance Report documentation (PDF files) can be accessed in this FTP server (<u>https://ftp.pw.lacounty.gov:8443/pub/fmd/2020-21 SBC Annual</u> <u>Maintenance and Monitoring Reports/WB Submittal/</u>).
 - 1. Attachment No. 1 2020-21 Annual SBC Maintenance Schedule
 - 2. Attachment No. 2 Pre- and Post-Clearing Mitigation Forms
 - 3. Attachment No. 3 Pre- and Post-Clearing Biological Resources Monitoring Forms
 - 4. Attachment No. 4 Biological Surveys and Reports
 - 5. Attachment No. 5 2020-21 SBC Pre- and Post-Maintenance Photos
 - 6. Attachment No. 6 Water Quality Monitoring Summary Reports
 - 7. Attachment No. 7 2020-21 Maintenance Methodology Pilot Projects
 - 8. Attachment No. 8 Current Section 401 Water Quality Certification Order No. 99-011 and 15-038

Ms. Celine Gallon December 13, 2022 Page 2

SUMMARY OF 2020-21 MAINTENANCE ACTIVITIES

LACFCD was responsible for maintenance of 101 SBC reaches during the 2020-21 SBC maintenance season. Of the 101 permitted SBC reaches, LACFCD maintained a total of 89 reaches during this maintenance season.

Per the attached Biological Resources Monitoring Forms, our biological consultant monitored our SBC maintenance activities and confirmed that maintenance activities were performed in full compliance with the conditions of our maintenance permits.

A pilot study was conducted upon the WDR requirements on Reaches 24, 25, 7,19, 20, and 21. Detailed reports containing the results are enclosed.

This letter also serves as certification that no net loss of wetland habitat is associated with this project:

"I declare under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Executed on the December 13, 2022, in Alhambra, California.

Ms. Celine Gallon December 13, 2022 Page 3

If you have any questions regarding this report, please contact Mr. Ahmet Tatlilioglu of my staff at (626) 458-7810 or <u>atatlilioglu@pw.lacounty.gov</u>.

Very truly yours,

MARK PESTRELLA, PE Director of Public Works

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JÓLENE GUERRERO, PE Assistant Deputy Director Stormwater Maintenance Division

RVG:sl

P:\fldpub\General\RGlobus\2020-21 SBC Maintenance\Annual Report Submittal\WB Submittal\401 Certification Submittal\1 - WB_2020-21 SBC Annual Report_Cov Ltr.doc

Enc.

cc: California Regional Water Quality Control Board (Celine Gallon, Valarie Carrillo-Zara, Snejana Toneva)

ATTACHMENT NO. 1

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations	
_				Start	Completion		
1	Bell Creek - MTD 963 M.C.I.	West	Non-sensitive	11/19/2020	11/20/2020		
2	Dry Canyon (Calabasas) PD T1845	West	Non-sensitive	9/1/2020	9/17/2020		
3	Santa Susana Ck M.C.I.	West	Non-sensitive	9/1/2020	9/1/2020		
4	Brown Creek	West	Non-sensitive	3/3/2021	3/19/2021		
5	Caballero Creek M.C.I. (West Fork)	West	Non-sensitive	10/15/2020	10/26/2020		
6	Caballero Creek M.C.I. (East Fork)	West	Non-sensitive	10/27/2020	10/30/2020		
7	Bull Creek M.C.	West	Sensitive	10/14/2020	11/5/2020		
8	Hayvenhurst Drain - Project 470 Outlet	West	Non-sensitive	10/30/2020	11/19/2020		
9	Project 106 Outlet	West	Non-sensitive	9/23/2020	9/29/2020		
10	Project No. 469 Woodley Ave Drain	West	Non-sensitive	9/3/2020	9/8/2020		
12	Haines Canyon M.C.O.	West	Sensitive	1/29/2021	2/2/2021		
13	Project No. 5215 Unit 1	West	Non-sensitive	10/13/2020	10/15/2020		
14	May Channel M.C.O. (into Pacoima Canyon)	West	Sensitive	10/19/2020	10/21/2020		
15	Pacoima Wash	West	Non-sensitive	9/25/2020	10/8/2020		
16	Verdugo Wash - Las Barras Canyon	West	Non-sensitive	1/26/2021	1/26/2021		
18	Engleheard Channel	West	Non-sensitive	1/26/2021	1/26/2021		
19	Pickens Canyon	West	Non-sensitive	1/21/2021	1/22/2021		
20	Webber Channel (@ private bridge)	West	Non-sensitive	1/25/2021	1/25/2021		
21	Webber Channel (@ downstream of bridge - Main Outlet)	West	Non-sensitive	1/25/2021	1/25/2021		
22	Halls Canyon	West	Non-sensitive	1/22/2021	1/25/2021		
24	Compton Creek	South	Non-sensitive	9/16/2020	11/15/2020		
25a	Los Angeles River - Willow to PCH (East/Left Bank)	South	Non-sensitive	10/5/2020	12/20/2020		
25b	Los Angeles River - Willow to PCH (West/Right Bank)	South	Non-sensitive	10/5/2020	12/20/2020		
26	Project 740	South	Non-sensitive	9/16/2020	10/1/2020		
27	Wilmington Drain	South	Sensitive	9/16/2020	10/1/2020		
28	Triunfo Creek (PD T2200)	West	Sensitive	12/18/2020	1/6/2021		
29	Las Virgines Creek (PD T1684) M.C.I.	West	Non-sensitive	12/11/2020	12/16/2020		
32	Stokes Channel (PDT043)	West	Non-sensitive	9/25/2020	10/8/2020		
33	Medea Creek (PD T1378)	West	Non-sensitive	1/9/2021	1/23/2021		
35	Medea Creek - Main	West	Non-sensitive	12/8/2020	12/9/2020		
36	Cheseboro Inlet (PDT043)	West	Non-sensitive	12/4/2020	12/5/2020		

Reach No.	Reach No. Name of Channel Reach Maintenance		Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations	
_				Start	Completion		
37	Medea - Cheseboro Outlet	West	Non-sensitive	12/10/2020	12/10/2020		
38	Lindero M.C.O.	West	Non-sensitive	10/10/2020	10/14/2020		
39	Beatty Channel Outlet @ SGR	East	Sensitive	11/1/2020	11/30/2020		
40a	(a) San Gabriel River – Santa Fe Dam to I-10 Freeway	East	Non-sensitive	9/30/2020	12/31/2020		
40b	(b) San Gabriel River – I-10 Freeway to Thienes Avenue	East	Sensitive	9/30/2020	12/31/2020		
41	Walnut Creek	East	Non-sensitive	9/27/2020	10/17/2020		
42	San Jose Creek d/s 1000' from end of concrete channel	East	Non-sensitive	9/30/2020	12/31/2020		
43a	(a) San Gabriel River- Upper	South	Sensitive	9/16/2020	12/1/2020		
43b	(b) San Gabriel River- Lower	South	Sensitive	9/16/2020	12/1/2020		
44	San Gabriel River - Rubber Dams	South	Non-sensitive	9/16/2020	12/1/2020		
45	Sand Canyon (PD T1307) Main Channel Inlet	West	Non-sensitive	10/5/2020	10/5/2020		
46	Sand Canyon (PD T1307) Main Channel Outlet	West	Non-sensitive	10/5/2020	10/5/2020		
47	Santa Clara River Main Channel (PD T1733-Unit 1)	West	Santa Clara River Main Channel - PD 1734	10/2/2020	10/2/2020		
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	West	Non-sensitive	11/5/2020	11/6/2020		
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	West	Non-sensitive	11/5/2020	11/6/2020		
50	Mint Canyon Channel between Solamint & Soledad	West	Non-sensitive	No Maintenance in a new	the 2020-21 mainter construction there by	nance season. Currenly there is City of Santa Clarita	
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River – Main Channel	West	Sensitive	9/30/2020	10/13/2020		
52	Sierra Hwy Rd Drainage (CDR 523.203)	West	Non-sensitive	No Maintenance in a new	the 2020-21 mainter to the construction there by	hance season. Currenly there is City of Santa Clarita	
53	Santa Clara River Non-main Chnl. (PD 832) M.C.I.	West	Non-sensitive	9/30/2020	9/30/2020		
54	Santa Clara River Non-Main Channel (PD 832) Main Channel Outlet	West	Sensitive	10/2/2020	10/2/2020		
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	West	Sensitive	9/30/2020	9/30/2020		
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	West	Sensitive	10/1/2020	10/1/2020		
57	Whites Canyon (PD T704 M.C.I.)	West	Non-sensitive	10/8/2020	10/8/2020		
58	Santa Clara River Main Channel – Right Bank Reach (PD 374)	West	Sensitive	9/29/2020	9/30/2020		
60	Santa Clara River Main Channel – Right Bank Reach (PD's 1339 and 374)	West	Sensitive	9/29/2020	9/30/2020		

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations	
				Start	Completion		
61	Santa Clara River Main Channel (PD 659 & 754)	West	Sensitive	9/28/2020	10/13/2020		
63	Oak Ave Rd Drainage (CDR 523.081)	West	Sensitive	10/14/2020	10/20/2020		
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	West	Sensitive	10/14/2020	10/21/2020		
66	Santa Clara River Main Channel (PD 1538)	West	Sensitive	10/7/2020	10/7/2020		
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	West	Sensitive	9/1/2020	9/7/2020		
69	Bouquet Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	West	Sensitive	9/1/2020	9/10/2020		
70	Bouquet Canyon Lower (PD's 544 & 345)	West	Sensitive	9/8/2020	9/10/2020		
71	Santa Clara River Main Channel (PD 1946)	West	Sensitive	9/25/2020	9/25/2020		
72	South Fork- SCR (Smizer Ranch M.C.I.)	West	Non-sensitive	9/28/2020	9/28/2020		
73	Wildwood Cyn Chnl (PD T361) M.C.I.	West	Non-sensitive	9/29/2020	9/29/2020		
75	South Fork-Santa Clara River (PD's 725, 916, 1041, &1300)	West	Sensitive	9/10/2020	9/25/2020		
76	Pico Canyon (PD 813)	West	Non-sensitive	9/14/2020	9/17/2020		
77	Newhall Creek Outlet	West	Non-sensitive	9/18/2020	9/18/2020		
78	Placerita Creek	Wes	Non-sensitive	9/18/2020	9/18/2020		
79	South Fork- Santa Clara River (Valencia Boulevard Bridge Stabilizer)	West	Sensitive	9/24/2020	9/25/2020		
80	South Fork-Santa Clara River (PD's 1947 & 1946)	West	Sensitive	9/24/2020 9/25/2020			
82	Santa Clara River Main Channel (PD 2278)	West	Sensitive	11/4/2020	11/4/2020		
86	Violin Canyon Main Channel Outlet	West	Sensitive	9/24/2020	9/25/2020		
87	Castaic- Old Road Drainage (CDR 525.021D) Outlet	West	Sensitive	10/8/2020	10/13/2020		
88	Hasley Canyon Upper (PD T1496)	West	Non-sensitive	10/27/2020	10/27/2020		
89	Hasley Canyon South Fork (PD T1496)	West	Non-sensitive	10/27/2020	10/27/2020		
90	Hasley Canyon Lower (North Fork PD T1496)	West	Non-sensitive	10/27/2020	10/27/2020		
91	San Martinez Chiquito Canyon Channel u/s of Keningston Road	West	Non-sensitive	11/2/2020	11/2/2020		
92	San Martinez Chiquito Canyon (North Fork) unnamed	West	Non-sensitive	11/2/2020	11/2/2020		
93	San Martinez Chiquito Canyon between Keningston Road and Val Verde Park	West	Non-sensitive	11/2/2020	11/2/2020		

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations
				Start	Completion	
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	West	Non-sensitive	11/2/2020	11/2/2020	
95	Project No. 1224	West	Non-sensitive	11/10/2020	11/10/2020	
96	PD 1591, Calabasas	West	Non-sensitive	9/18/2020	9/24/2020	
97	PD T1982, Castaic Creek	West	Sensitive	10/15/2020	10/19/2020	
98	Walnut Creek – Channel Inlet	East	Non-sensitive	10/1/2020	10/31/2020	
99	Kagel Canyon – Tujunga Wash	West	Non-sensitive	9/4/2020	10/23/2020	
100	Dry Canyon, Calabasas Creek Inlet	West	Non-sensitive	11/24/2020 11/24/2020		
101	Violin Canyon (PD 2312)	West	Non-sensitive	No Maint	enance in the 2020-2	1 maintenance season
102	Violin Canyon (PD 2275)	West	Non-sensitive	No Maint	enance in the 2020-2	1 maintenance season
103	Bouquet Canyon Channel (PD 2225)	West	Sensitive	No Maint	enance in the 2020-2	1 maintenance season
104	Castaic Creek (PD 2441 Unit 2)	West	Sensitive	No Maint	enance in the 2020-2	1 maintenance season
105	San Francisquito Canyon Channel (PD 2456)	West		No Maint	enance in the 2020-2	1 maintenance season
108	Pico Canyon (PD 2528)	West	Non-sensitive	10/26/2020	11/11/2020	
109	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	West	Sensitive	No Maintenance in the 2020-2		1 maintenance season
110	Hasley Canyon Channel (PD2262)	West	Sensitive	No Maint	enance in the 2020-2	1 maintenance season
112 Upper	Ballona Creek	South	Non-sensitive	No Maint	enance in the 2020-2	1 maintenance season
112 Lower	Ballona Creek	South	Non-sensitive	No Maint	enance in the 2020-2	1 maintenance season
114	Los Angeles River	South	Non-sensitive	No Maint	enance in the 2020-2	1 maintenance season
115	San Gabriel River	South	Sensitive	No Maint	enance in the 2020-2	1 maintenance season
118	Rustic Canyon	South	Non-sensitive	10/2/2020	11/2/2020	
119	Rivas Canyon	South	Non-sensitive	10/2/2020	11/2/2020	

ATTACHMENT NO. 2

PRE- AND POST-CLEARING MITIGATION FORMS

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: **Reach No. 1 Bell Creek MTD 963**

T.G.: 529-D5

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

REMOVAL OF All VEGETATION FROM Soft BOTTOM WAS DONE WITH HAND TOOLS & REWER TOOLS SUCH AS HEDGE TRIMMERS, WEED EATERS, AND POLE SAW. ALL ROWER TOOLS ARE FITTED WITH APPROVED ENHAUST

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

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roject start date:	Project end da	nte: 1/9/21
ompleted by: Name: <u>Ryan Mueillo</u>	Title: <u>CREW (EADER</u>	Date: <u>1/9/21</u>
pproved by: Name: <u>Ballazar Moranu</u>	Title: <u>FCC5</u>	Date: <u>1/12/21</u>

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM Compliance Verification Form**

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg.Removed (Sq. Ft.)
Location/Channel Reach #: Reach No. 1 Bell Cro	eek MTD 963 T.G.: 529-D5

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented

FESC1 Scheduling	FESC2 Preservation of Existing Vegetation
ESC21 Dust Control	□ ESC22 Temporary Stream Crossing
□ ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

VNO Date: ____

T.G.: 529-D5

Biologist Comments/Instructions:

		d
Completed by: Name: RIAL Muzilla	Title: CREW EADER	_Date: 1/9/2/
Approved by: Name: Baltazar Novens	Title: Fees	_Date: <u>//12/2</u>
		l ·

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No. 1 Bell Creek MTD 963 T.G.: 529-D5

Permit Requirements:

The channel clearing work will involve hand cutting a 15-foot-wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the channel inlet.

The operator shall not impact the 0.27-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

All VEGETATION REMOVED WITH HAND TOOLS AND DOWER TOOLS. ALL
POWER TOO'S SUCH AS HEDGE TRIMMERS; WEED EATERS AND POLESAN
ARE FITTED WITH ADDROVED MUFFIERS, ALL VEGETATION WAS
HAND LOADED.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: RyAN MURILLO Title: CREW (EADER Date: 1/9/21 Approved by: Name:

Title: Fees Date: 1/12/21

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Mitigution Monitoring Program Name Bell CREEK (MTD 963) Number # 2	K.M.	
Ditoring Program CREEK (MTD 963) 1	STRAW BAE PLACED AT END OF Revel	
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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach # 2 Dry Canyon (Calabasas) (PD T1845) T.G.: 559-G5

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

ALL WEED EATERS, HEDGE TRIM FISS, CHAINSAWS, ETC. ARE FITTED WITH Approved EXHAUST TO MEET STATE STANDARDS.

Disposition: ✓ Mitigation m	neasure has been implemented. No further action is required
Mitigation n (Please exp	neasure is not fully implemented. Further action is required.
Mitigation r (Please exp	neasure is not in compliance. Further action is required. Ilain below).
Comments/Revisions:	
Project start date:9/12/	20 Project end date:
Completed by: Name: RyA	Mueillo Title: CREW (EADER Date: 9/12/20
Approved by: Name:	Terro Title: $\frac{104}{20}$ Date: $\frac{104}{20}$

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM Compliance Verification Form**

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)_____

Location/Channel Reach#: Reach # 2 Dry Canyon (Calabasas) (PD T1845) T.G.: 559-G5

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

Due to h	ydrological o	conditions	in the	reach	during	the	veget	ation	clea	aring	oper	ations.	the
following	Best Manage	ement Prac	ctice w	vere de	emed to	b be	applic	able a	and	were	imple	emente	d:
E ECOA	Cohoduling					0		. ,					

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
「ESC21 Dust Control	FESC22 Temporary Stream Crossing
└─ ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL APPLICADE BMP'S HAVE BEEN IMPLEMENTED AND ARE COMPLIANCE WITH SOFT BOTTOM CLEARING STANDARDS

Biologist on site: S Date:

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo	Title: CREW LEAD	ER Date: 9/12/20
Approved by: Name: Norcens \pw01\pwpublic\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 2.doc	Title: FCC5	Date: 10/4/20

No

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach # 2 Dry Canyon (Calabasas) (PD T1845) T.G.: 559-G5

Permit Requirements:

The channel clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the channel. A canopy of vegetation (trees along both banks) will be left in place. Hand clearing will be performed annually to keep the center portion of the channel clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.

The Operator shall not impact the 0.39-acre of vegetation that was allowed to remain in 1997. Trees with a 3-inch DBH or greater shall not be removed. All exotics shall be selectively removed from the area during maintenance activities.

Description of Activity/Method of Implementation:

Description of Acti	vity/method of implementatio		
ALL POWER T MUFFIERS TO 1	DOLS ARE EQUIPPED WIT	HH APPROVED EXAMPLE	5
Disposition:	Mitigation measure has been ir	nplemented. No further action	on is required.
	Mitigation measure is not fully (Please explain below.)	implemented. Further action	on is required.
	Mitigation measure is not in (Please explain below.)	compliance. Further actio	n is required.
Comments/Revisio	ns:		
Completed by: Name	RIAN MURILLO	Title: CREW LEADER	Date: 9/12/20
Approved by: Name:	TR. Moreno	Title: FCCS D	Date: 10 4 2 0
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ance Pro	am 1845	Nestive											
Mainten	ng Progr N PD	CON For BIRD HAV BOOM											
Channel	CANYO	CHECKED					1	I					
ounty (gation M DRV er	Noise	7	7	7	7	7	7	7	7	7	7	7
Angeles C	Mitig ch Name ch Numb	H20	/		$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	/	7	7	7	7	7	7	7
Los A	Rea	Aür 🗸	7		7	7	7	7	7	7		7	
		Date 9/12/20	9/15/20	9/16/20	02/11/6	9/16/20	9/22/20	9/23/20	02/20/20	9/25/20	9/26/20	9/29/20	7/30/20

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Dey CWNN PD 1845 Reach Number

Initial	NS.	A.M					
Comment		Job Completers / Removers Boom					
Noise	7						
H20	7						
Air	7	2					
Date	az 101	10/3/20					

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 3 Santa Susanna Creek M.C.I. T.G.: 499-J2

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

THERE WAS NO FLOWING, WHETER OF CREEK, NO BAY NEEDED. Two weed TRIMMERS AND HAND TOOLS WERE USED TO CLEAR VEGETHATION, ALL UEGETATION WAS CLEARED BY HAND. ALL VEGETATION WAS PLACED ON TARPS AND HAVLED OUT INTO A DUMP TRUCK.

Disposition: Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

BEFORE WORK BEGAN A INSDECTION WAS DERFORMED FOR	þ minge
EXOTIC PLANTS AND A BIRD NESTING SURVEY WAS AL	-50
PERFORMED, NO EXOTIC PLANTS OF BIRD NEST WERE	
FOUNDA	

Project start date: 09-26-2020	Project end dat	e:09-26-2020
Completed by: Name: JUAN RUDAPTE	Title: P.w. C.L	Date: 09-26-2020
Approved by: Name: Machaell Jupa	Title: FCC9	Date: 09-26-2020

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

2020-2021

Compliance Verification Form

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)_____

Location/Channel Reach#: #: Reach No. 3 Santa Susanna Creek M.C.I. T.G.: 499-J2

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	F ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: #: Reach No. 3 Santa Susanna Creek M.C.I. T.G.: 499-J2

Permit Requirements:

Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot-long area at the inlet to the channel. Oak trees will be left in place.

Description of Activity/Method of Implementation:

NO EXESSIVE NOISE DUE TO ALMOST ALL HAND WORK. DUMP TRUCK WAS PARKED IN ASSIGNED AREA WITH ENGINE SHUT OFF.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

BEFORE, DURING AND AFTER	PHOTOS WEEE	TAKEN.
		^
Completed by: Name: JUAN RODARTE	Title: P.W.C.L	Date: <u>09-26-</u> 20
Approved by: Name: Mallyhus	Title: Fccs	Date: <u>26-2</u> 0

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 4 Browns Creek T.G.: 500-B2

Permit Requirements:

Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.

Description of Activity/Method of Implementation:

WORK WAS PERFORMED USING MACHETES. WEED WHIPS. LOPPITS #

Disposition: Y Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 1-9-21	Project end da	nte:
Completed by: Name: Jorge Jargun 16	Title: <u>P.W.C.L.</u>	_Date: <u>1-9-2</u> /
Approved by: Name: Mechandle Olfra	Title: Fcc9	_Date: <u>/- 9-2/</u>

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 4 Browns	Creek T.G.: 500-B2
Permit Requirements: Mechanical equipment will be used to keep clear all timber revetment.	vegetation from bank to bank within the rail and
Description of Activity/Method of Implementat	ion:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	KESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition:		Mitigation	measure	has	been	implemented.	No	further	action	is	required.
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- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions: Soft bottom is Dry No Water present:					
Biologist on site: Yes ጰ No Biologist Comments/Instructions:	Date:				
Completed by: Name: Jorge Java Millo Approved by: Name: Muchall Myss	Title: \underline{PWPL} Date: $\underline{9/-9-2}/$ Title: $\underline{FCC9}$ Date: $\underline{0/-09-2}/$				

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 4 Browns Creek T.G.: 500-B2

Permit Requirements:

Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.

Descriptio	n of Ac	tivity/Method of Implementati	on: NOISE WAS	MINIMA!
Disposition	: <u>×</u>	Mitigation measure has been Mitigation measure is not fully (Please explain below.)	implemented. No further y implemented. Further	action is required.
	action is required.			
Comments	s/Revisi	ons:		
Completed Approved b	by: Nan by: Nam	ne: Jorge Jaramillo e: Michaell. Rupéo	Title: <u>Funct</u>	Date: <u>1-9-2</u> / Date: <u>0/-9-</u> 2/

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 5 Caballero M.C.I. (West Fork) T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities

Description of Activity/Method of Implementation:

ALL VEGITI	ATTON REMO	VED with	HAND	Tools	AND	Small	POWER
Tools with	APPROVED	EXHAUST.					

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 1114 20	Project end date: 11/24/20
Completed by: Name: Ryach Mullo	Title: CREW LEADER Date: 11/24/20
Approved by: Name: JR. Morenu	Title: FCC5 Date: 1/25/20

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) ———
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 5 Caballer	ro M.C.I. (West Fork) T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	F ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	F ESC52 Sand Bag Barriers

Disposition:	Mitigation measure has been implemented. No further action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

BOOM LAYED OUT AT END OF REACH,

Biologist on site: TYes TVo

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Mueillo
Approved by: Name: JR. Morene
\\pw01\pwpublic\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 5.doc

 Title:
 CREW (EADER Date: 1/24/20

 Title:
 FCCS

 Date:
 1/25/20

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 5 Caballero M.C.I. (West Fork) T.G.: 560-J5

Permit Requirements:

The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

All VEGITATION REMOVED by SMALL POWER TOOK FITED with Approved MUFFIERS AND WAS LOADED BY HAND IN DUMP TRUCK.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL WORK STARTED AFTER 8:00AM SO AS NOT TO DISTURB OUR NEIGHBORS.

Completed by: Name:	RYAN Mujello
Approved by: Name: _	JR Moreno

Title: <u>CREW LEADER</u> Date: <u>11/24/20</u> Title: <u>FCCS</u> Date: <u>11/25/20</u>
Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Calaltero Creek (Mest)

	Initial	K.K.	R.M	K.Z.M	RIM	Kin				
Ω	Comment	PLACED BOOM AT GUD OF REALT				Completes				
#	Noise	7	/	/	7	/	1	1		
	H20	7	7	7	7					
NGAL	Aŭ.	7	7	7	7	7				
	Date	11/14/20	02/21/11	az/81/11	11 21/20	02/72/11				

P. McIpubWMESTMAAMSLSWFORMSWMIGhpubou & lonifermed Program dock

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 6 Caballero Creek (East Fork) T.G.: 560-J5

Permit Requirements: The vegetation clearing work will involve hand clearing a 20-footwide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED with power Tools Such as a pole GAW, WEED EATER, AND HEDGE TRIMMERS AS WELL AS HAND TOOLS.

Disposition: Mitigation measure has been implemented. No further action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisions:
All our vehicles are in compliance with AMRD REquirements.
Project start date: $\frac{11/25/20}{25/20}$
Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 11/25/20
Approved by: Name: $\underline{\gamma} = \underline{\gamma} = $

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Trash/Debris Removed (Tons) -

Exotic Veg. Removed (Sg. Ft.)

FCCS Date:

Location/Channel Reach#: Reach No. 6	Caballero Creek (East Fork) T.G.: 560-J5				
Permit Requirements: The vegetation wide path along the centerline of the chan	clearing work will involve hand clearing a 20-foot- nel.				
The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.					
Description of Activity/Method of Imple Due to hydrological conditions in the rea following Best Management Practice were	mentation: ach during the vegetation clearing operations, the deemed to be applicable and were implemented:				
F ESC1 Scheduling	下ESC2 Preservation of Existing Vegetation				
F ESC21 Dust Control	FESC22 Temporary Stream Crossing				
☐ ESC31 Temporary Drains and Swales	FESC50 Silt Fence				
ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers				
Disposition: Mitigation measure has been implemented. No further action is required.					
Mitigation measure is (Please explain below	not fully implemented. Further action is required.				
Mitigation measure is (Please explain below Comments/Revisions: Placed STRAW BALE AT END	s not in compliance. Further action is required.				
Biologist on site: ᠮ∕ᢆNo ┌ Yes Biologist Comments/Instructions:	Date:				
Completed by: Name: Kind Murillo	Title: CREW CEADER Date: 11/25/20				
Approved by: Name: JP. Motenu					

 $\label{eq:last_linear} woul would would would would would would be a set that the set of the set$

Impact Issue: Hydrology and Water Quality

Mitigation Measure #: 2

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 6 Caballero Creek (East Fork) T.G.: 560-J5

Permit Requirements: The vegetation clearing work will involve hand clearing a 20-footwide path along the centerline of the channel.

The vegetation (0.36 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED USING SMALL DOWER TOOLS.
NO LARGE AMOUNT OF NOISE WAS CREATED. All WORK WAS
ESTARTED AFTER 8:00 MM SO NOT TO DISTURB OUR NEIGHBORS.

Disposition:	Mitigation measure has been implemented. No further action is required.		
1	 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)		
)	 Mitigation measure is not in compliance. Further action is required. (Please explain below.)		

Comments/Revisions:

Completed by: Name: RIAL Noell
Approved by: Name: JR Moreno

Title: <u>CREW LEADER</u> Date: <u>11/25/20</u> Title: <u>FCC6</u> Date: <u>12/8/20</u>

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Caballere</u> Creek (East). Reach Number	Air H20 Noise Comment			1
Los Ange Reach N Reach N	Air -	77		
	Date 11 /19/20	11/20/20	44 -	

ial X Y

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

2020-2021

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 7 Bull Creek M.C.O T.G.: 531-D7

Permit Requirements: The work will involve hand clearing dead vegetation and trimming tree limbs along the banks to ensure clear flow within the channel. This work will be done only in the first 400 feet of natural channel downstream from the concrete channel outlet to ensure that flow does not back up into the concrete channel upstream of Victory Boulevard.

The trimming and removal of dead vegetation along the banks within the 400 linear feet shall not exceed a width of 15 feet on each bank. The Operator shall not impact the 1.45 acres of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

HAND CLEADING VEGETATION WAS PERFORMED BY HAND TOOLS.
WEED TRIMMERS AND GAS 2 STROKE HEDGERS WERE ALSO USED TO CUT
VEGETATION AND ALSO ALL VEGETIETION WAS REMOVED AND HAULED OUT
AND DUMDED IN TO A YVARD CING TRUCK WATER COURSE WAS NOT DISTURBED ALL WORK WAS DERFORMED JUST ABOVE WHTER. A FORM BOOM WAS PLACED AT FUD OF WORK SITE. Disposition: Mitigation measure has been implemented. No further action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisions:
BIRD SURVEY WAS PERFORMED REFORE EACH WORK DAY NO RIEDS
<u>DE NESTING OF EXOTIC PLANTS WERE FOUND ON WORKSITE.</u> <u>A BIOLOGIST WAS AT WORKSITE EACH DAY.</u>
Project start date: 01-12-2021 Project end date: 01-20-202/
Completed by: Name: JUAN ROPARTE Title: P.W.C.L Date: 01-20-2021

Approved by: Name: Machally Mughin Title: FCC 5 Date: 01-20-2021

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach#: Reach No. 7 B	Bull Creek M.C.O	T.G.: 531-D7			
Permit Requirements: The work will involve hand clearing dead vegetation and trimming tree limbs along the banks to ensure clear flow within the channel. This work will be done only in the firs 400 feet of natural channel downstream from the concrete channel outlet to ensure that flow does no back up into the concrete channel upstream of Victory Boulevard.					
The trimming and removal of dead vegetation along the banks within the 400 linear feet shall not exceed a width of 15 feet on each bank. The Operator shall not impact the 1.45 acres of vegetation that was allowed to remain in 1997.					
Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:					
R ESC1 Scheduling	₹ ESC2 Preservation of	Existing Vegetation			
ESC21 Dust Control	ESC22 Temporary Stre	eam Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
ESC51 Straw Bale Barriers	ESC52 Sand Bag Bar	riers			
Disposition: χ Mitigation measure ha	as been implemented. No fu	irther action is required.			

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

 Comments/Revisions:

 Biologist on site:
 No

 Field by: Name:
 Yes

 Date:
 Date:

 Date:
 Date:

 Completed by: Name:
 Juan Romanne

 Approved by: Name:
 Mithadle

 Mithadle
 Title:
 Faces

 Date:
 01-20-20/2

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Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)

Exotic Veg. Removed (Sq. Ft.)

Mitigation Measure #: 2

2020-2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

2020-2021

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 7 Bull Creek M.C.O

T.G.: 531-D7

Permit Requirements: The work will involve hand clearing dead vegetation and trimming tree limbs along the banks to ensure clear flow within the channel. This work will be done only in the first 400 feet of natural channel downstream from the concrete channel outlet to ensure that flow does not back up into the concrete channel upstream of Victory Boulevard.

The trimming and removal of dead vegetation along the banks within the 400 linear feet shall not exceed a width of 15 feet on each bank. The Operator shall not impact the 1.45 acres of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

A CNG 4 YARD TRUCK WAS PARKED ON A DESIGNATED AREA WITH ENGINE SHUT OFF.				
Disposition:	Ľ	Mitigation measure has be	en implemented. No further	action is required.
		Mitigation measure is not (Please explain below.)	fully implemented. Further	action is required.
		Mitigation measure is no (Please explain below.)	t in compliance. Further a	action is required.
Comments/	Revisio	ons:		
PHOTOS AFTER.	OF	WORKSITE WERE T	AKEN BEFORE DURIN	UG AND
Completed b	by: Nam /: Name	e: JUAN RODARTE	Title: <u>P.w.C.L</u> Title: <u>FCCS</u>	Date: <u>01-20-</u> 202

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 8 Project 470 Outlet T.G.: 561-E3

Permit Requirements:

All vegetation in the channel will be kept clear during the dry season using hand-clearing methods.

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED BY HAND AND DOWED TOOLS THAT ARE FITTED WITH AIR FILTER EXHAUST.

Disposition: <u> </u>	Mitigation measure has	been implemented. No further action is required.
	Mitigation measure is no (Please explain below.)	ot fully implemented. Further action is required.
	Mitigation measure is r (Please explain below.)	not in compliance. Further action is required.
Comments/Revisio	ons:	
Project start date:	12/1/20	Project end date: 12/16/20
Completed by: Nam Approved by: Name	e: Rima Muello JR Morano	

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) ———			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel Reach#: Reach No. 8 Proje	ct 470 Outlet T.G.: 561-E3			
Permit Requirements: All vegetation in the channel will be kept clear during	g the dry season using hand-clearing methods.			
Description of Activity/Method of Implement Due to hydrological conditions in the reach d following Best Management Practice were deer	ation: uring the vegetation clearing operations, the ned to be applicable and were implemented:			
□ ESC1 Scheduling□ E□ ESC21 Dust Control□ E□ ESC31 Temporary Drains and Swales□ E□ ESC51 Straw Bale Barriers□ E	 ✓ ESC2 Preservation of Existing Vegetation ✓ ESC22 Temporary Stream Crossing ✓ ESC50 Silt Fence ✓ ESC52 Sand Bag Barriers 			
Disposition: Mitigation measure has bee Mitigation measure is not (Please explain below.) Mitigation measure is not (Please explain below.)	en implemented. No further action is required. fully implemented. Further action is required. in compliance. Further action is required.			
Comments/Revisions: BMP (STRAW BACE) WAS CAYED	OUT AT END OF REACH.			
Biologist on site: TNO TYes Biologist Comments/Instructions:	Date:			
Completed by: Name: <u>Ryan Murallo</u> Approved by: Name: <u>R. Muranu</u> \pw01\pwpublic\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 8.d	Title: <u><i>CREWLEADER</i></u> Date: <u>12/16/20</u> Title: <u>FCCS</u> Date: <u>12/17/20</u>			

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 8 Project 470 Outlet

T.G.: 561-E3

Permit Requirements:

All vegetation in the channel will be kept clear during the dry season using hand-clearing methods.

Description of Activity/Method of Implementation:

REMOVED VEGETATION WITH HAND AND POWER TOOLS THAT ARE FITTED WITH APPROVED NOISE MUFFLER.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

All WORK WHS DONE AFTER 8:00 AM SO NOT TO DISTURB OUR NEIGHBORS.

Completed by: Name:	Ryan	Murillo
Approved by: Name: _	JR.	Morence

Title:	CREW LEADER	Date: 17	2/16/	20
Title:	FCCS	_ Date: 12	2/17	120

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name HUENHURT DRAN



P. (Idpub/WEESTVIJAN/SEAM ORASAAGibeabion "Aonitonin" Proprism down

Compliance Verification Form

2020-2021

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #	Reach No. 9 Project 106 Outlet	T.G.: 531-G7
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Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

Nort was performed Using hand Tools. Need eaters & Loppers.

Disposition: $\underline{\chi}$ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date:	Project end d	ate: <u>1-5-202</u> /
Completed by: Name: Jorge Jaramille	Title: PWCL	_Date: <u>1-5-20</u> 2/
Approved by: Name: Method Veryta	Title: FCC5	

Compliance Verification Form

2020-2021	
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Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) ———
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 9 Project	106 Outlet T.G.: 531-G7

Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ÉSC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition:	X	Mitigation measure has been implemented. No further action is required.
		Mitigation measure is not fully implemented. Further action is required

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: 🕅 No 🛛 T Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Jorge Jaramille	Title: <u>P.W. CL.</u>	Date: <u>1-5-20</u>
Approved by: Name: Muchall. Maysico	Title: $\underline{FCC5}$	Date:5-2024

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2020-2021

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 9 Project 106 Outlet T.G.: 531-G7

Permit Requirements:

Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

NOISE WAS MINIMAG. Disposition: _____ Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:** Completed by: Name:Jorope JavanulleTitle: $\mathcal{PW.CL}$ Date:i-5-202lApproved by: Name:Manhafle UnpeTitle:FCCSDate:o/-os-2c2l

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22 - WO# 6794046

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

MITIGATION MONITORING PROGRAM

Compliance Verification Form

2020-2021

Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: **Reach No. 10 Project No. 469**

T.G.: 531- J7 TO 561- F1

Permit Requirements:

Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

WATER TRUCK WAS USED ON SITE TO MINIMIZE DUST.	
A EXCAVATOR WAS USED TO MOW VEGETATION, ROCK SECTION WAS	
REMOVED 4 WT BY HAND AND SMALL POWER TOALS SUCH	
AS TWO SHOKE HEDGERS, WEED TRIMMERS AND ALSO A CHAINSA	٤.

Disposition:	\underline{X}	Mitigation measure has been implemented. No further action is requir	red.
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- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

λ.

Project start date:	2-1	-2021	
TUIEUL SLAIL UALE.			

Project end date: 03 - 66-21

Completed by: Name: <u>JJavamillo</u>	Title: <u>PW.CL</u> .	Date: 03-66-24
Approved by: Name: Michael A. Olimpis	Title: FCC 5	_Date: <u>02-20-2</u> /

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22 - WO# 6794046

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tor

	15	
	12	
ns)		

Mitigation Measure #: 2

2020-2021

Exotic Veg. Removed (Sq. Ft.) NONE

Location/Channel Reach #: Reach No. 10 Project No. 469 T.G.: 531- J7 TO 561- F1

Permit Requirements: Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

XESC1 Scheduling	□ ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
□ ESC31 Temporary Drains and Swales	□ ESC50 Silt Fence
XESC51 Straw Bale Barriers	□ ESC52 Sand Bag Barriers

Disposition: X Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

XNo

Date:

Biologist Comments/Instructions:

Completed by: Name: <u>JJava millo</u>
Approved by: Name: M. Murtha

Title: PWCC	Date: <u>3 - 6 - 2/</u>
Title: FCC5	

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22 - WO# 6794046

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2020-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No. 10 Project No. 469 T.G.: 531- J7 TO 561- F1

Permit Requirements: Due to a recent toxic spill, no work was performed in November 1997, since virtually all of the vegetation was killed. Vegetation and dead vegetation will be mechanically removed to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require clearing the channel for approximately 4,000 feet downstream of Victory Boulevard. The reach will be maintained clear of all vegetation during the dry season.

The Operator shall not impact 2.11 acres of vegetation that was allowed to remain in the channel in 1997.

Description of Activity/Method of Implementation:

USED MOWER ATTACHMENT. NOISE WAS MINIMA Disposition: _____ Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

BEFC	DRE, DURIN	SG AN	DAF	TER	PHOTOS	WERE	TAKEN
AND	INPUTED	INTO	THE	P.E	DRIVE.		

Completed by: Name: J. Javamillo
Approved by: Name: Malination

Title: <u>PW.CL</u> .	_Date: <u>3~6-</u> 2/
Title: Fcc S	_Date: <u>02-20</u> -21

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2/20/21	12/01/2	2/17/21	2/16/21	2/13/21	2/12/21	2/11/21	12/01/2	2/9/21	12/8/21	2/6/21	12/5/6	Date
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DEPKIS () WENT RENTANN				11		11	. /		START NOWING WITH EQUIPMENT EXCAVATOR	~ ~	see initial contracts	Comment
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Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program Reach Name <u>Pros 469 woodley dre</u> Reach Number <u>10</u>

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: Reach No. 12 Haines Cyn M.C.O T.G.: 503-F2

Permit Requirements:

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED A DAMER TOOLS A SKID ST NG SMALL LOAD VEGETATION INTO 1ARGE AMOUNT NO

Disposition: Mitigation measure has been implemented. No further action is required.

_ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 12

Project end date:

ICL Date: Completed by: Name: MONCAD Title: Approved by: Name: Philip Rose Date: Title: /

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Compliance Verification Form

Impact Issue:	Hydrology	and	Water	Quality
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Trash/Debris Removed (Tons) Exotic Veg. Removed (Sg. Ft.)

Location/Channel Reach #: Reach No. 12 Haines Cyn M.C.O

T.G.: 503-F2

Permit Requirements:

Mitigation Measure #: 2

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition:	1	Mitigation measure has been in	nplemented. No further action is required.	
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 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions: NE USED TWO METAL DI

Biologist Comments/Instructions: MOVE Completed by: Name: Title: Date: Approved by: Name: Y Title: Date: 12

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No. 12 Haines Cyn M.C.O

T.G.: 503-F2

Permit Requirements:

Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for vegetation that was allowed to remain. This process will be repeated annually to prevent growth from restricting flows at the outlet to the channel.

Description of Activity/Method of Implementation:

VEBETATION MEMOURE WAS OMPLETED USING SMALL POWER TODLS AND A SKID STEER TO LOAD VEBETATION IN TO A IDYARD TOUMPTRUCK NO LOUD NOISE WAS CREATED TO IMPACT NEAR BY HOMEOWNERS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: MONCADA Approved by: Name: Philip Pox

-> 3
 -> 3

Title: \underline{fWCL} Date: $\underline{12/8/20}$ Title: \underline{FCCS} Date: $\underline{12-9-20}$

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Initial LL 21 ews worked prown 7:30 AM 2YN NICO Los Angeles County Channel Maintenance Project Comment Lo 3:00 pm. Mitigation Monitoring Program ŝ 4 -3. Noise Reach Name Reach Number H20 Air 7 Date

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: **Reach No.13 Project 5215 unit 1 T.G.: 503-B2**

Permit Requirements:

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-feet wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

2 CYCLE WEED WHIPS WILL BE USED TO REMOVE DRY VEGETATION. HAND TOOLS TO REMOVE HEAVY VEGETATION

Disposition:	×	Mitigation measure has t	been implemented. No	o further action is required.
		Mitigation measure is no (Please explain below.)	ot fully implemented.	Further action is required.
		Further action is required.		
Comments/	Revisi	ons:		
NO WIN	SO A	LOWING MARING DU.	ST CONTROL MAN	JALEABLE
	997 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -			
Project star	t date:	11-16-2020	Project end	date: //-/6-2020
Completed b	oy: Nan	10: JAMES ELIASON	Тіtle: <i>Р. ы. с. с.</i>	Date: //-/66-20
Approved by: Name:			Title:	Date:
			ĩ	

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed	d (Tons) <u>/8 700</u>
Mitigation Measure #: 2	Exotic Veg. Removed	(Sq. Ft.) /0
Location/Channel Reach #: Reach No.13 Project	t 5215 unit 1	T.G.: 503-B2

Permit Requirements:

mana a mén /Daviaia i a mai

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-feet wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
FESC21 Dust Control	FESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	☐ ESC50 Silt Fence
ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers

Disposition: X Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

NO WATER		
Biologist on site:	Date:	
Completed by: Name: James ELIASUN	Title: <u>P. W. C.L.</u>	Date://6-2030
Approved by: Name:	Title:	Date:
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No.13 Project 5215 unit 1 T.G.: 503-B2

Permit Requirements:

The channel clearing work involve mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-feet wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

HAND CUTTING + WEED WHIPS TO REMOVE UEGETATION

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

WORK STARTED AT 7:25 AM		
WORK ENDED AT 8:50 AM		
Completed by: Name: James Econor	Title: <u>P.W.C.L.</u>	Date: <u>//-/6-20</u> 20
Approved by: Name:	Title:	Date:
Approved by: Name:	Title:	_ Date: <u>//-/6~20</u> 20 _ Date:

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name PROJECT 5215 UNIT 1 Reach Number <u>13</u>

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Date	11/11/20							In successful to approximate our electronic electronic and the rest of the res

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Disposition: Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:** Project start date: **Project end date:** Completed by: Name: Title: Approved by: Name: Title: Date:

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

□ ESC1 Scheduling	✓ ESC2 Preservation of Existing Vegetation
₩ESC21 Dust Control	☐ ESC22 Temporary Stream Crossing
TVESC31 Temporary Drains and Swales	FESC50 Silt Fence
R ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers
Disposition: Mitigation measure has	s been implemented. No further action is required.
Mitigation measure is (Please explain below.	not fully implemented. Further action is required.
Mitigation measure is (Please explain below.	not in compliance. Further action is required.
Comments/Revisions: ND WAte RECOMENTATIONS OF 0	VR COUNTR, DOUGIST.
Biologist on site: ŊYes ⊂ No	Date 090120
Biologist Comments/Instructions:	J/A=
Completed by: Name: M. St.Guin	Title: P.W.C.L Date: 10/30/20
Approved by: Name:	Title: Date:

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No.14 May Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

The Operator shall not impact the 0.5-acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation: EGANGINGI IN Disposition: Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) Comments/Revisions: Completed by: Name: Title: Date: Approved by: Name: _ Title: Date:

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name May CANYON LAFAAL Reach Number 14

	NC	R					
Comment	SSIRIS	losves					
	g	22					
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H20							
Air		~					
Date	10/30/20	11/2/20					

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No.15 Pacoima Wash T.G.: 531-H1 TO J3

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:



Project start date: 9/8/20	Project end da	te: <u>9/18/26</u>
Completed by: Name: SVAN Cables	Title: Gen Leaber	Date: 9/19/20
Approved by: Name:	Title:	Date:

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No.15 Pacoim	a Wash T.G.: 531-H1 TO J3

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC2 Preservation of Existing Vegetation
☐ ESC22 Temporary Stream Crossing
ESC50 Silt Fence
K ESC52 Sand Bag Barriers

Disposition: X Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:	
Straw bales glong with sand	bags were proced
throughout reach 15.	· ·
\mathbf{O}	
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by: Name: JUAN CADIEG	Title: (SPIA) LEAR Date: 9/16/20
	Hile. May real balle
Approved by: Name:	Title: Date:
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No.15 Pacoima Wash T.G.: 531-H1 TO J3

Permit Requirements:

Mechanical equipment and hand cutting will be used to keep the reach cleared of all vegetation.

The Operator shall not impact 0.01 acre of vegetation that was allowed to remain in 1997.

Description of Activity/Method of Implementation:

Vecetr USINA feac

Disposition: X Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

15 From Invert

Completed by: Name: WM

Title: (KW Lever Date: 9

Approved by: Name:

Title:

Date:

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program UN JOST Reach Name McOlyng N Reach Number



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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 16 Verdugo Wash-Las Barras Cyn T.G.: 504-C7 (Channel Inlet)

Permit Requirements:

Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

Disposition:

Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

WORK NEEDED TO BE DANE

Project start date:

Project end date: 12 3/20

Title: <u>fwcL</u> Date: <u>2</u> Completed by: Name: MON Title: FLL Date: (7-4-20 Approved by: Name:

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Compliance Verification Form

Disposition:	
	 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
14	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Rev	EBETATION ON SITE.
NO W	DRK NEEDED TO BE DONE
Biologist on sit	e: □Yes □No Date:
Biologist Comn	nents/Instructions:
Completed by: N	lame: $MONCAPA$ Title: $fwcc$ Date: $2/3/20$
Approved by: Na	ame: Philip Rose Title: FCCS Date: 12-4-20
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Impact Issue: Hydrology and Water Quality

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)___

Trash/Debris Removed (Tons) -

Location/Channel Reach#: Reach No. 16 Verdugo Wash-Las Barras Cyn (Channel Inlet) T.G.: 504-C7

Permit Requirements: Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No. 16 Verdugo Wash-Las Barras Cyn T.G.: 504-C7 (Channel Inlet)

Permit Requirements: Hand clearing work will be used to keep the reach clear of all vegetation.

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

Disposition: _____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

WORK NEEDED TO BE DONE

Approved by: Name: <u>MONCADA</u>

Title: FLLS Date: 12-3-20Title: FLLS Date: 12-3-20

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 18 Engleheard Channel T.G.: 534- F3 To G3

Permit Requirements:

Hand clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS BEMOVED BY HAND AND USING SMALL POWER TOOL NO CARGE AMOUNT OF DUST WAS CREATED.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 12/21 Project end date: 12 Duce Date: 12/2/20 Completed by: Name: MONC Title: Approved by: Name: Rilk Low Title:

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons) Witigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.)	Compliance	
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) Location/Channel Reach#: Reach No. 18 Engleheard Channel T.G.: 534-F3 To G3 Permit Requirements: Tand clearing work will only involve dead vegetation and tree branches from between the pipe an wire revelments. All vegetation will be cleared by manual methods during the dry season. Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, th following Best Management Practice were deemed to be applicable and were implemented: ESC1 Scheduling ESC2 Preservation of Existing Vegetation ESC1 Scheduling ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure is not in compliance. Further action is required (Please explain below.) Mitigation measure is not in compliance. Further action is required (Please explain below.) Mitigation measure is not in compliance. Further action is required (Please explain below.) Biologist on site: Yes Mark No Date: Eccose Date: Mitigation measure is not in compliance. Date: Biologist on site: Yes Mark No Date: Mark Mark No	Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons)
Location/Channel Reach#: Reach No. 18 Engleheard Channel T.G.: 534-F3 To G3 Permit Requirements: Hand Clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season. Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented: Description of Activity/Method of Implementation: ESC21 Preservation of Existing Vegetation Description of Activity/Method of Implementation: ESC21 Preservation of Existing Vegetation Description of Activity/Method of Implementation: ESC21 Preservation of Existing Vegetation ESC1 Scheduling ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required (Please explain below.)	Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Permit Requirements: Hand clearing work will only involve dead vegetation and tree branches from between the pipe an wire revetments. All vegetation will be cleared by manual methods during the dry season. Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, th following Best Management Practice were deemed to be applicable and were implemented: ESC1 Scheduling ESC2 Preservation of Existing Vegetation ESC21 Dust Control ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required (Please explain below.) Mitigation measure is not fully implemented. Further action is required (Please explain below.) Comments/Revisions: Mo Date: 12/01/20 Biologist on site: Yes ModAlsA Title: Date: 12/01/20 Biologist Comments/Instructions: Title: Date: 12/01/20	Location/Channel Reach#: Reach No. 18	Engleheard Channel T.G.: 534- F3 To G3
Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented: PESC1 Scheduling ESC2 Preservation of Existing Vegetation ESC1 Dust Control ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required (Please explain below.) Mitigation measure is not fully implemented. Further action is required (Please explain below.) Comments/Revisions: Mo Disposition site: Yes Mo Date: Disposition site: Yes	Permit Requirements: Hand clearing work will only involve dead veg wire revetments. All vegetation will be cleared	getation and tree branches from between the pipe and I by manual methods during the dry season.
ESC1 Scheduling ESC2 Preservation of Existing Vegetation ESC21 Dust Control ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC20 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required Mitigation measure is not fully implemented. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Please explain below.) Mitigation measure is not in compliance. Scomments/Revisions: Date: 12/01/20 Biologist on site: Yes No Date: 12/01/20 Biologist Comments/Instructions: Title: fwccc Date: 12/02 Completed by: Name: Mitigation Medicate Econor Eco	Description of Activity/Method of Implem Due to hydrological conditions in the rea following Best Management Practice were	mentation: ach during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC21 Dust Control ESC22 Temporary Stream Crossing ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required Mitigation measure is not fully implemented. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Please explain below.) Comments/Revisions: Mo Date: Date: 12/01/20 Biologist on site: Yes Completed by: Name: MOMADA Approved by: Name: MUMADA Title: FULS Date: 12/20/20	ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC31 Temporary Drains and Swales ESC50 Silt Fence ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required Mitigation measure is not fully implemented. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Mitigation measure Mo Date: Mitigation measure Mitigation measure Mo Date: Mitigation measure Mo Date: Mo Date: Mo Date: Mitigation measure Mo Date: Mo Date: Mo Date: Mo Date: Mitigation Mitigation Mo Date: <td>ESC21 Dust Control</td> <td>ESC22 Temporary Stream Crossing</td>	ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC51 Straw Bale Barriers ESC52 Sand Bag Barriers Disposition: Mitigation measure has been implemented. No further action is required Mitigation measure is not fully implemented. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Mitigation measure is not in compliance. Further action is required Model	ESC31 Temporary Drains and Swales	ESC50 Silt Fence
Disposition: \square Mitigation measure has been implemented. No further action is required \square Mitigation measure is not fully implemented. Further action is required (Please explain below.) \square Mitigation measure is not in compliance. Further action is required (Please explain below.) Comments/Revisions: \square \square \square \square \square \square \square \square \square \square	ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
$ \begin{array}{c} & \underset{(\text{Please explain below.})}{\text{Mitigation measure is not in compliance. Further action is required (Please explain below.)} \\ & \underset{(\text{Please explain below.})}{\text{Mitigation measure is not in compliance. Further action is required (Please explain below.)} \\ \hline \\ $	Disposition: Mitigation measure ha	as been implemented. No further action is required.
$\begin{array}{c} & & & \\ & & \\ & & \\ & & \\ \end{array} \end{array}$ $\begin{array}{c} & & \\ & & \\ \end{array} \end{array}$ $\begin{array}{c} & & \\ & & \\ \end{array} \end{array}$ $\begin{array}{c} & & \\ \end{array}$ $\begin{array}{c} & & \\ \end{array} \end{array}$ $\begin{array}{c} & & \\ \end{array}$ $\begin{array}{c} & & \end{array}$ $\begin{array}{c} & & \\ \end{array}$ $\begin{array}{c} & & \\ \end{array}$ $\begin{array}{c} & & \end{array}$ \end{array} $\begin{array}{c} & & \end{array}$ \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array} \end{array}	Mitigation measure is (Please explain below	not fully implemented. Further action is required
Comments/Revisions: Biologist on site: Yes Yes Xo Date: 12/01/20 Biologist Comments/Instructions: Completed by: Name: MONCASA Title: fwccc Date: Approved by: Name: Puilly Kocc Title: fwcc Date:	 Mitigation measure is (Please explain below) 	s not in compliance. Further action is required
Biologist on site: TYes XNo Date: 12/01/20 Biologist Comments/Instructions: Completed by: Name: MONCASA Title: fwcc Date: 12/01 Approved by: Name: FWILY Rock Title: FCC Date: 12/01 Approved by: Name: FWILY Rock Title: FCC Date: 12-2-2	Comments/Revisions:	ER FLOW
Biologist on site: Yes Biologist Comments/Instructions: Biologist Comments/Instructions: Completed by: Name: Monophysical Matrix Structure Title: fwcc Date: Title: fwcc Date: Monophysical Matrix Structure No Date: 12 Date: </td <td></td> <td></td>		
Biologist Comments/Instructions: Completed by: Name: MONCASA Approved by: Name: Phily Rock Title: FLLS Date: 12-2-2	Biologist on site:	Date: 12/01/20
Completed by: Name: <u>MONCASA</u> Approved by: Name: <u>Phily Kosc</u> Title: <u>FCCS</u> Date: <u>12-2-2</u>	Biologist Comments/Instructions:	
Completed by: Name: <u>MONOASA</u> Approved by: Name: <u>Phily Rosc</u> Title: <u>FCCS</u> Date: <u>12-2-7</u> Date: <u>12-2-7</u>		the second s
Approved by: Name: <u>Phily Rosk</u> Title: <u>FCCS</u> Date: <u>12-2-7</u>	Completed by: Name: MONCASA	Title: fuce Date: 12/01
hw@l/nwnublic/fldnub/West/Hansen/ESU/Mitigation Monitoring Forms/Reach 18 doc	Approved by: Name: Phily Ros	Title: FLCS Date: 12-2-2
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 18 Engleheard Channel T.G.: 534- F3 To G3

Permit Requirements:

Hand clearing work will only involve dead vegetation and tree branches from between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.

Description of Activity/Method of Implementation:

VEUSED SMALL POWER TODIS TO REMOVE VEBETATION NO LOUD NOISE WAS REATED THAT WOUD IMPACT NEAR 515

Disposition: _____ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 $\begin{array}{c} \mathcal{L} \mathcal{L} \mathcal{L} \\ \mathcal{L} \\$ Approved by: Name: MONCASA Approved by: Name: Philp Kosc Title: Title:

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No.19 Pickens Cyn T.G.: 504-H5 To 534-H1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

L VEBETATION WAS REMOVED USING SMALL POWER TOOLS WEED EATERS AND VEHICLES MEET AIR EDGERS, ALL ALITY REQUIREMENTS.

Disposition: Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 11/30/20 Project end date: 12/01/20 Completed by: Name: <u>MONCADA</u> TitlefwcL Date: <u>12/01/20</u> Approved by: Name: <u>Philip Resc</u> Title: <u>FCCS</u> Date: <u>12-2-20</u>

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) - 27
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No.19 Pic	kens Cyn T.G.: 504-H5 To 534-H1
Permit Requirements: Manual removal of all vegetation adjacent to or gr	rowing out of the crib structures will be performed.
Description of Activity/Method of Impleme Due to hydrological conditions in the reach following Best Management Practice were de	ntation: during the vegetation clearing operations, the emed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: _/ Mitigation measure has b	een implemented. No further action is required.
Mitigation measure is no (Please explain below.)	t fully implemented. Further action is required.
Mitigation measure is n (Please explain below.)	ot in compliance. Further action is required.
Comments/Revisions: No wA	TER FLOW CTHISTIME.
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by: Name: MONCADA	
Approved by: Name: Philo March	Title: FCLS Date: 12-2-20
	et

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No.19 Pickens Cyn T.G.: 504-H5 To 534-H1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

LL WORK WAS COMPLETED USING SMALL DWER YOOLS NO EXCESIVE NOISE W FATED THAT WOULD IMPACT RESIDENTS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

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	•
Completed by: Name: MONCADA	Title: fwc2 Date: 12/01/20
Approved by: Name: Thilp Rice	Title: FLLS Date: /2-2-20
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Los A	Read	NCar	Air	7	1						ORMS/Mitigation Mor
			Date	11/30/20	12/01/20						1pub\WEST\HANSEN\F0

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 20 Webber Chan. (strm @ private bridge) T.G.: 504-J7

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

CREW USED SMALL POWER TOOLS TO REMOVE VEGETATION, THERE WAS NO IMPACT ON THE AIR RUALITY

Disposition: *V* Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 12/2/20

Project end date: 12/2/20

G

Completed by: Name: MONCADA	Title: <u><i>pwcl</i></u>	Date: 12/2/20
Approved by: Name: Philip Roc	Title: FCCS	Date: 12-3-20

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No. 20 Webber Chan. (strm @ private bridge)

T.G.: 504-J7

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions: WATER FLOW.

Biologist on site: TYes KNo

121 70

Biologist Comments/Instructions:

Completed by: Name:	MONCASH
Approved by: Name: _	Philip Por

Title: <u><i>PWCL</i></u>	Date: 12/2/20
Title: FCCS	Date: <u>/2-3-2</u> 0

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 20 Webber Chan. (strm @ private bridge)

T.G.: 504-J7

Permit Requirements:

Mechanical equipment will be used to keep the channel clear of all vegetation.

Impacts shall not exceed 0.13 acre (115 linear feet by 50 feet wide).

Description of Activity/Method of Implementation:

EBETATION WAS REMOVED BY USING SMALL POWER TOOLS. NO LARGE AMOUNT NOISE WAS CREATED

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Approved by: Name: <u>MONCASA</u>

 $\frac{WCL}{CCS}$ Date: $\frac{2/2}{2}$ Title:

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 21 Webber Channel (Main channel inlet D/S Bridge)

T.G.: 505- J7

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

VEBETATION WAS REMOVED BY HAND USING SMALL POWER TOOLS, NO LARGE AMOUNT OF DUST WAS CREATED TO IMPACT AIR QUALITY.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

. .

Project start date: 12/2/20

Project end date: 12/2/20

Completed by: Name: <u>MONCADA</u> Title: <u>FUCL</u> Date: <u>12/2/20</u> Approved by: Name: <u>Philip Rose</u> Title: <u>FUCS</u> Date: <u>12-3-20</u> Approved by: Name: Philip Nor

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No. 21 Webber Channel (Main channel inlet D/S Bridge)

T.G.: 505- J7

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _/ Mitigation measure has been implemented. No further action is required.

 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

WATER FLOW.

Comments/Revisions:

121

Biologist Comments/Instructions:

Completed by: Name:	MONCASA
Approved by: Name:	Philip Rose

Title: $\underline{\int WC2}$ Date: $\underline{|2|2|20}$ Title: \underline{FCCS} Date: $\underline{|2-3-20}$

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 21 Webber Channel (Main channel inlet D/S Bridge)

T.G.: 505- J7

Permit Requirements:

Hand clearing work will be performed to keep the reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

AND CLEARINE STARTE SONABLE TIME USING S. NO LARGE AMOUNT OF A WAS CREATED THAT WOULD IMPAC RESIDENTS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Approved by: Name: MONCADA Approved by: Name: M. Ip less

 $\frac{102}{5}$ Date: $\frac{12}{2}$ Title: Title:

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 22 Halls Canyon

T.G.: 534- J1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

VEBETATION WAS REMOVED MANUAL SING SMALL DOWER TODIS. NO IM

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 12/

Project end date: /2/

Completed by: Name: MON CASA DWCL Date: 12 Title: Approved by: Name: This NP Res FCCS Date: 12-3-20 Title:

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

Compliance Verification Form

Impact Issue: Hydrology and Water Qual	lity Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 22	Halls Canyon T.G.: 534- J1
Permit Requirements: Manual removal of all vegetation adjacent performed.	to or growing out of the crib structures will be
Description of Activity/Method of Implet Due to hydrological conditions in the rea following Best Management Practice were	mentation: ach during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Mitigation measure is (Please explain below) (Please measure is (Please explain below)	not fully implemented. Further action is required. <i>i</i> .) s not in compliance. Further action is required. <i>i</i> .)
Comments/Revisions:	TERFLOW.
Biologist on site: Yes No Biologist Comments/Instructions:	Date: 12/2/20
Completed by: Name: <u>MONOAD</u>	$\frac{4}{1} \text{Title: } \frac{p_{WCL}}{p_{WCL}} \text{Date: } \frac{12}{2} \frac{12}{2}$
Approved by: Name: I hilip Kor	$\frac{1}{2}$ Inthe: $\frac{723}{20}$ Date: $\frac{723}{20}$

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 22 Halls Canyon

T.G.: 534- J1

Permit Requirements:

Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED BY HAN USING SMALL POWERTODLS, NO LOU

.....

Disposition: _// Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Approved by: Name: <u>MONCASA</u>

Title: $\underline{FC(S)}$ Date: $\underline{2/2/20}$ Date: $\underline{12-3-20}$

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Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Removal of all vegetation from the reach and/or restoration of the channel's hydraulic conveyance capacity by driving tracked equipment over vegetated areas. The LACFCD will inspect and mechanically remove accumulated sediment, debris, and all vegetation in the reach to ensure the proper functioning of the flood-control infrastructure. Weeds and grasses may be controlled by mowing or hand labor. The reach will be cleared annually to the same baseline condition as that approved for clearing activities. Reach work will also include mechanical grading to train flows to the centerline of the reach.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Mechanical grading to train flows to the centerline was not conducted this year. Minimal amount of dust was generated. Water trucks were used for dust suppression when needed.

Disposition:

Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: _9/16/20

Project End Date: _10/17/20

Completed Name: Title: Date:

AC Name Title: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek) Hydrology and Water Quality		
Impact Issue:			
Mitigation Measure No:	2		
Tons Trash/Debris Removed	288		

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. All equipment and trucks had their tires and undercarriage washed before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sandbag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

✓ Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

1

Completed by:

Name: Title: Date:

Approved by: JAC M Name: Title: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

\checkmark	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
-	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

	Completed by:
Name:	Hugny M Imp
Title:	Superinkendent.
Date:	4/27/21

Jac N pproved by Name: Title: Date: 021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 24 – COMPTON CREEK 09/16/20-10/17/20 DURING PHOTOS







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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 24 – COMPTON CREEK 09/16/20-10/17/20 DURING PHOTOS









LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 24 – COMPTON CREEK 09/16/20-10/17/20 DURING PHOTOS













LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 24 – COMPTON CREEK 09/16/20-10/17/20 BMP's







N



Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Compton Creek</u> Reach Number <u>24</u>

Date Air	H20	Noise	Comment	Initial
9-11-2020 (4007)	184° (2007)	MUDERATE	NO PROSIENS AN OK	たて
Keor) 20-11-8	Re00 0 38	MODELLIE	70 NO SMOJSOZA ON	0.1
12000 (2002)	8°° 600 D	MODERAIE	NO PROBLEMS All OK) CU
9-21-202 Goox/8	Le Goes	NONDERATE	NO PROBIENCS All OK) ()
9-23-2020 Good/ 85	6000	MODELATE	NO PROBLEMS All OK	E'I
1500 2) acor-42-6	(30)° 3	HODENTE	NO NA SHERES AN OK	01
9-25-2020 GOON/8	4° 6000	MODELLIE	FLAIL NOULL DEDN/R.B	<u>i</u> G
4-28-202 (300)/8	1000 ye	MODELÍE	NO PROBLEMES All OK	C I
\$01 / Ya ora-05-6	VO OK	4 ONCARE	NO PROBLEMS VERY HOT	Ú
10-1-2020 OK/8)	7° OK	HW)CHATE	NO PLOBLENS HOT	C I
10-2-2000 OK/93	NC	RODELAIC	NO PROBLEMS HOT	C.J
10-5-200 OK/ 90	OK	Moderfic	NO DIDDENS HUT	C. T

0

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Compton Creek</u> Reach Number <u>24</u>

	019-2020	011-200	10-15-2020	0-14-2020	10-13-2020	010-8-01	10-8-2020	10-7-2020	10-6-200	Date
	GUDT	5000	5005	67002	6000	FAIL	6000	6000	(900)	Air
	6003	6001	Gook	6003	6002	Goot	6002	Goex	(7002)	H20
	HODERATE	HONELATE	Lobert 5	140361270	MODELLIG	NO)GLATE	NGCLA	MODELATE	MODERT	Noise
	Xo	CN	хo	NO	NO	NO	NO	NO	C KO	
	Ploblences	ploblen /	PROBLEM	Plister	PROBLER / S	Ploblens	PROBLEMS	PLOBIENS	PZ3Bleys	Commer
		MONGL		HOT	KID STEEL	WALK			. Allok	ht
	1:0	i) UI	eil	1	(i) (i)	L'J	(i)	1	<u>C</u> I	Initial

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NESTING BIRD & BAT AVOIDANCE PROCEDURE VERIFICATION FORM (To be conducted by trained, certified, a. responsible staff <u>ONLY</u> on <u>maintenance and repair projects</u> that do NOT have Environmental Permits from CDFW, COE, Coastal Commission, and the RWQCB. Otherwise, request a qualified biologist.) ***Only to be filled out <u>during</u> the nesting bird and bat maternity roosting season (see dates below) or when an active nest is discovered***
NAME/TITLE: EVAN TINETT CREWLEASEL DATE: 9-17-2020 TIME START: B.OZAM END: B.S.GAM PROJECT LOCATION: COMPTON CREEK ACTIVITY TYPE: VEGETATION CLEARING
Please check boxes and fill-in blanks below to demonstrate application of procedures to avoid potential impacts to nesting birds. Further information can be found in the <i>Nesting Bird Awareness Brochure</i> training materials. If project activities cease for greater than <u>72 hours</u> , an additional nesting bird sweep is required prior to re-initiating work activities.
SONG BIRDS AND/OR RAPTORS:
Step 1: Consider the Season Yes No No Will the work be conducted in the nesting season (March 15 to August 31)? If yes, follow Steps 2 through 5. Note: These dates may change slightly so confirm annually with your supervisor. Although nesting is not expected to occur outside of this season, nesting is protected regardless of when it occurs.
Step 2: Approach with Caution Yes No No While entering a new work area, was every reasonable effort used to minimize initial disturbance by approaching slowly and quietly when feasible?
Step 3: Stop and Watch Yes I No When approaching the new work area, did staff stop momentarily and watch for any signs of bird nesting? Note: This activity involves visually scanning the trees, other vegetation, bare ground, natural or man-made crevices, eves of buildings, areas under bridges, or other potential nest sites. Indications of nesting may include: carrying nest building material, copulation, courting behavior (such as unusual fight patterns, mated birds, chasing or following closely in flight), sudden fly away when closely approached, or prolonged activity on or adjacent to nest.
Step 4: Search for Nest Yes No If potential indicators of nesting were observed, did staff continue to make observations and search for likely nest locations? Note: Search initially from a distance to avoid disturbance, then slowly approach a suspected location with caution.
Step 5: Establish Protective Buffer Yes No
Step 6: Immediately Notification Yes No No After establishing a protective buffer, immediately notify the supervisor and any field staff working in the area to avoid/minimize disturbance of the active nest.
 BATS: Considered the Season and the potential for bats to be present within or immediately surrounding the work area (Maternity Roosting Season is generally February 15 through September 30). Schedule activities outside the bat maternity roosting season as much as possible. Suitable habitat may include: palm trees, 1.5-inch-cracks in bridges and culverts, beneath tile shingles, and more Carefully inspected area outside potential roost location for sign of presence such as guano (bat feces looks similar to rat feces). If bats were detected or potentially present: 1) immediately informed supervisor; and 2) avoided/minimized disturbance of the nesting area.
RESULTS: Image: Nesting bird indicators and/or nest(s) were NOT detected. Image: Nesting bird indicators and/or nest(s) were detected. If a nest or roosting bats were detected, briefly describe observations made and actions taken below:

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NESTING BIRD & BAR AVOIDANCE PROCEDURES PRIFICATION FORM

(To be conducted by trained, certified, and responsible staff <u>ONLY</u> on <u>maintenance and repair projects</u> that do NOT have Environmental Permits from CDFW, COE, and the RWQCB. Otherwise, request a qualified biologist.)

Only to be filled out during the nesting bird and roosting bat season (see dates below) or when an active nest is discovered

Crew leader DATE: 9-19-20 TIME START: 7:00 Am ACTIVITY TYPE: Vegetation removal NAME/TITLE: PROJECT LOCATION: Compton creek

Please check boxes and fill-in blanks below to demonstrate application of procedures to avoid potential impacts to nesting birds. Further information can be found in the *Nesting Bird Awareness Brochure* training materials. If project activities cease for greater than <u>72 hours</u>, an additional nesting bird sweep is required prior to re-initiating work activities.

SONG BIRDS AND/OR RAPTORS:

Step 1: Consider the Season

Yes 🛛 No 🗆

Will the work be conducted in the nesting season (March 15 to August 31)? If yes, follow Steps 2 through 5. If no, go down to the BATS Section.

Note: These dates may change slightly so confirm annually with your supervisor. Although nesting is not expected to occur outside of this season, nesting is protected regardless of when it occurs.

Step 2: Approach with Caution Yes No While entering a new work area, was every reasonable effort used to minimize initial disturbance by approaching slowly and quietly when feasible?

Step 3: Stop and Watch Yes No

When approaching the new work area, did staff stop momentarily and watch for any signs of bird nesting? Note: This activity involves visually scanning the trees, other vegetation, bare ground, natural or man-made crevices, eves of buildings, areas under bridges, or other potential nest sites. Indications of nesting may include: carrying nest building material, copulation, courting behavior (such as unusual fight patterns, mated birds, chasing or following closely in flight), sudden fly away when closely approached, or prolonged activity on or adjacent to nest.

Step 4: Search for Nest Yes No

If potential indicators of nesting were observed, did staff continue to make observations and search for likely nest locations?

Note: Search initially from a distance to avoid disturbance, then slowly approach a suspected location with caution.

Step 5: Establish Protective Buffer Yes No

If a nesting area was detected, was a buffer zone around the nest established and demarcated with flagging or other marking device?

Note: The buffer zone is typically 300 ft. radius from the nest for song birds and 500 ft. radius for raptors.

Step 6: Immediately Notification Yes No No After establishing a protective buffer, immediately notify the supervisor and any field staff working in the area to avoid/minimize disturbance of the active nest.

BATS:

Considered the Season and the potential for bats to be present within or immediately surrounding the work area (Maternity Roosting Season is generally April through August). Schedule activities outside the bat maternity roosting season as much as possible.

• Suitable habitat may include: palm trees, 1.5-inch-cracks in bridges and culverts, beneath tile shingles, and more

Carefully inspected area outside potential roost location for sign of presence such as guano (bat feces looks similar to rat feces).

If bats were detected or potentially present: 1) immediately informed supervisor; and 2) avoided/minimized disturbance of the nesting area.

RESULTS:

Nesting bird indicators and/or nest(s) were NOT detected.

Nesting bird indicators and/or nest(s) were detected.

If a nest or roosting bats were detected, briefly describe observations made and actions taken below:

9-16-2020 STARTED SOFTBOTTOM CLEARIDG @ SATA FE PUMP PLANT NO PROBLEMS ALL DK CLEAR DAY GREAT START GOT A LOT DONE

9-18-2020 WOLKING ON SOFTBOTTOM AT COMPTON CLEEK ITTLE WALK TODAY REMOVING CASTER BEAD ED AND HUGD MOWING All DK NO PLOBLEMS ~ *

10-22-2020 9-22-2020 CONTINUE WORK AT WMPTON CLEEK WORKING SOFT BOTTOM WOLKED G SLOPES AND REMOVING CASTER BEANS MOWING CONTINUING WITH HUGD, GIL AND ED ALL DE ~ `

10-26-2020 9-25-2020 WOLKING HAND WORK CONTINUES AT COMPTON CLECK FRIDAY DUTERTIME WITH SOFT BOTTOM CLEARING NEDWING, STOPE CUTTING IT'S A LUTTE WHAR TODAY NO PROBLEMS REPORTED ONly THE FLAIL NOWER WEDT DOWN Ath THE OTHER EQUEIPMENTS ALE DK

9-28-2020 MONDAY WE ALE BACK AT COMPTO CREEK SAME THING MOWING, SLOPE CUTTING, CASTER BEAD START PLUCKING WEST SIDE DF CLEEK ERLL AND HUGO STILL WARK TODAY All DK NO ISSUES TO NOTE

9-30-2020 BRIK AT COMPTON CHEEK MID WEEK SLOPE AND SOFT BOTTOM ALE LODEING REALLY MILE WE ARE MAKING PLOGESS ME SHEPP CAME OUT HE ALSO SAID TO REALLY GOOD . |

10-2-2020 WE'RE ALL BACK AT COMPTON CREEK LITTE DUERTIME WE HAVE UNDER GROUND WTIT US TODAY WE SHOULD BE GETTING A LOT MOLE ACCOMPLISH WITH MOLE BODIES HELPING. IT WAS A GOOD Day WITH THE HEID A GT DODE ALL OK NOTHING TO REPORT TOTAK . *

10-5-2020 WE BACK AT COMPTON CREEK A NEW DAY WE ARE LEDKING REALLY ALL THE CRETEL BEANS GONE WE CAN SEE THE DUR PROGRESS DD THE DOWD STREAM SAE OF SANTA FE ALL OK WE GOT A LOT DODE .

10-6-2020 STRETED HOMELESS REMOVAL ON LA RWER STATED AT DEEAN J'ME ON THE BIKE PATH SIDE CITY 15 WORKING THE WEST SIDE THUS WILL BE A LODG CLEAN UP LOTS OF HORELESS ADD TRASH , . .

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Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)	
Impact Issue:	Air Quality	
Mitigation Measure No:	1	

Permit Requirements:

Project 74 - 500-feet Upstream of Artesia Boulevard to Dominguez Channel. The channel will be cleared using hand manual labor. Hand labor will be used to trim the vegetation which has been allowed to remain. New growth will not be allowed to become established and will be removed annually by manual methods.

Description of Activity/Method of Implementation:

Air quality was fair to good during working hours. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put onto tarps, pulled to the asphalt driveway. Equipment was used to pick up the debris and loaded on dump trucks. The dump trucks hauled away the debris to a local landfill transfer station. Minimal amount of dust was generated.

Disposition:

✓ Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/20

Project End Date: 09/28/20

jae pu Completed by: Name: Name: Title: Construction Title: Supsi Date: 4-26-21 Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)		
Impact Issue:	Hydrology and Water Quality		
Mitigation Measure No:	2		
Tons Trash/Debris Removed	29.5		

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB) for flowing water. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. All equipment and hand tools cleaned before leaving the site to maintain water quality.

The following Best Management Practice was deemed to be applicable and was implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: <u>No</u>

Date on Site: _____

Comments/Revisions:

Completed by:	Approved by:
Name:	Name:
Title: Construction Suprovided	Title: Horen Eospher
Date: 4-26-2	Date: 7/15/2021

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

We had trimming crews working ahead of crews clearing ground vegetation. The ground clearing crews were using manual tools to remove overgrowth along the hillsides, fence line and around drain pipes. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

✓	Mitigation measure has been implemented. No future action is required.
Ti	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

^*	Completed by:	Approved by?
Name:	H	Name:
Title:	Construction Survintenet	Title. Area Enspeer
Date:	4-26-21	Date: 7/15/2021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 26 – PROJECT 74 09/16/20-09/28/20 DURING PHOTOS















LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 26 – PROJECT 74 09/16/20-09/28/20 BMP's





Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Prodect 76 Reach Number 26

VIE	ow where cutting only poking up	Good	11	9-28-20
116	adorate Continue cutting Hauling	Good 1	Moderate	9-25-70
14.	adarate Continua custims A lauling	Cood h	Hodovate	9-241-70
- KA	when the Continue cutting/ Hauling	Cood K	> Modarcte	G-23-20
RE	adarate Continue cuttura / Hawling	Good	Madanato	9-22-20
NE	adminte Continue cutting/Hauling	Cood 1	Hodorate	9-21-20
VIE	identie Continue cutting Hawling	Good 1	Noderate	G-19-70
- 76	obrate Continua cutting vegetation	Good N	Poex	C1-18-70
MG	dande continue cutting vogetation	Cood 1	UNHLEATIV	9-17.20
-14	adorate First Day of Chran out	Sood 1	unHeatly	9-16-20
Initial	Voise Comment	H20	Air	Date

9-16-20 workers 15 Temp: Low 65° Hugh Sto Started Vegetation removal 9-17-20 workers 15 Temp: Law 61° - High 841° continue - removing Vogelation 9-18-20 Workers 14 Temp: Low64°- High83°. Continue remaining vegetation 9-19.20 worker 112 Tomp: Low -65° - Migh 78° Continue removing and cutting Vegetation 9-21.70 Worker 15 · Temp: Low 62° - Hugh 76° Continue cutting vegetation 9.22.20 Workers 18 Temp. Low 66 - High 75° Continue cutting vegetation 9-23-20 Worker 14. Temp: Low 66 - High 76° Continue cutting vegetation
7-24-20 Workers-10 Temp. Low 60 - Hogh 80° Continue cutting vegetation 1.23.70 Workers-7 Tamp: Low 64° - High 78° Cartinup cutting and Hauling Vegetation Workers & Temp: Low 158 - High 85° Job was Completed j.2820 1

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2020- 2021 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 27 (Wilmington Drain)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

All vegetation from the reach in the area upstream of Lomita Boulevard will be kept cleared. Between Lomita Boulevard and Pacific Coast Highway (PCH), vegetation will be kept clear from the two reaches, but vegetation on the island and on the reach banks will remain. Clearing work in the reach invert will be done with mechanical equipment. Vegetation on the banks (from toe up 3 feet) will be trimmed with hand tools so that it does not impede flow on the invert.

Description of Activity/Method of Implementation:

All vegetation from the reach in the area upstream of Lomita Boulevard was cleared. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. Minimal dust was generated. Water trucks were used for dust suppression as necessary.

Disposition:

Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/20

	Completed by:
Name:	Horn A Son
Title:	Construction Superintendent
Date:	6/10/2021

Project End Date: 10/24/20

JGr. Name: Title: Date: のこう

Compliance Verification Form

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2020- 2021 MITIGATION MONITORING PROGRAM

Location/Channel Reach	Reach No. 27 (Wilmington Drain)	
Impact Issue:	Hydrology and Water Quality	- 10
Mitigation Measure No:	2	
Tons Trash/Debris Removed	97	

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. A biologist was on-site during clearing activities. Decontamination measures were implemented, and BMP's were placed to maintain water quality. All equipment, and trucks had their tires and undercarriage cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

	Completed by:	Approved by:
	1	Jac H 1/1
Name:	Xan A Sma	Name:
Title:	Construction Superintendent	Title: frea Erroret
Date:	6/10/2021	Date: 7/15/2021

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2020- 2021 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 27 (Wilmington Drain)		
Impact Issue:	Noise		
Mitigation Measure No:	3		

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

All vegetation from the reach in the area upstream of Lomita Boulevard was cleared. Clearing work in the invert downstream of Lomita to PCH was completed using mechanical equipment. Vegetation on the lower banks was trimmed up to 3 feet with hand tools so that it did not impede flow. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

. *

~	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by Name: Construction Superintendent Title: 6/10/2021 Date:

JQC-The Name: Title: Date:



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 27 – WILMINGTON DRAIN 09/16/20-10/24/20 DURING PHOTOS















LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 27 – WILMINGTON DRAIN 09/16/20-10/24/20 BMP's







Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Wilmington Drain</u> Reach Number <u>27</u>

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ゴットン	A •	+++>	-		
Date	Air	H20	Noise	Comment	Initial
9/16	6000	Gaod	Greed	NO 1550022	P
21/1	6000	Good	Good	No issues	B
81/18	6000	Good	Good	NO issues	0
9/19	6000	Grand	Good	Do issues	S
9/21	6000	Good	Good	No issues	20
9/22	6000	Good	Good	WO issues	00
9/23	6000	G00D	ଓ ଦେଇ ହେ	NO ASSURS	0
9 /24	6000	6000	6000	NO ISSUES	Ø
9125	6000	900D	G,000	NO ISSINES.	Ø
32.16	600D	(goo l)	6000	NO ISSUES	22
9/29	(3000	9000	6000	NO ISSUES	K
9/20	6000	QUOD.	6000	NO TSSURS.	5

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Wilmington Drain</u> Reach Number <u>27</u>

	10/10	51/01	10/14	10/13	10/9	8 101	10/1	10/6	5/01	10/2	10/1	Date	
	Good	Good	Good	apol	Greed	6 000	Good	9000	G000	(2001)	(2000)	Air	
	Goed	Great	Good	Good	Glack	9000	0000	9000	9000	9000	9000	H20	
*	Good	Geed	Good	lacod	Geed	6000	6000	6000	6000	6000	6000	Noise	
	allo issue	No issues	NO issues	No 1spues	No issues	NO ISSURES.	NO l'ssues	NO issues	NO issues	NO issues	No issues	Comment	
	Ŝ	QS	Ø	S	Q	SC	22	8-	8	SC.	:22:	Initial	

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Wilmington Drain</u> Reach Number <u>27</u>

		1		1926	10/23	1922	19/21	19/20	10/19	Date
				9000	9000	6000	6000	6000	6000	Air
	-			6000	6000	6000	6000	6000	Guon	H20
				Good	6000	900p	9000	6000	6000	Noise
~				NO ISSUES	No Assues	No. Issues	NO ISSURS	NO ISSUES	NOUSHES	Comment
				Ø	Ř	Sr	r.	R	p	Initial

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 28 Triunfo Ck (PD T2200)

T.G.: 587 H-3

Permit Requirements:

The channel clearing work will involve removing all vegetation from the ungrouted rock levee, hand clearing all vegetation along the levee from the base to a distance of 20 feet.

The Operator shall avoid impacts to southwestern pond turtles. Clearing shall not extend beyond the area that was cleared in 1997 or as stated in the maintenance plan without prior approvals from the Department. Surveys for sensitive species (i.e., pond turtles) may be required if additional clearing is needed. No native trees shall he removed with a 2 inch diameter at breast height or greater. The 0.2-acre of vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

All VEGETATION WAS REMOVED BY HAND AND POWER Tools. All DOWER Tools ARE FITTED WITH APPROVED EXHAUST.
Disposition: Mitigation measure has been implemented. No further action is required
Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisions:
No WATER, REACH IS DRY
Project start date: 1/5/21 Project end date: 1/8/21
Completed by: Name: <u>Ryan Murillo</u> Title: <u>CREW LEADER</u> Date: <u>1/5/21</u> Approved by: Name: JR, Morena Title: FCCS Date: <u>1/2/21</u>
\pw01\pwpublic\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 28.doc

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Remove	d (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed	(Sq. Ft.)
Location/Channel Reach#: #: Reach No. 28 Triu	nfo Ck (PD T2200)	T.G.: 587 H-3

Permit Requirements:

The channel clearing work will involve removing all vegetation from the ungrouted rock levee, hand clearing all vegetation along the levee from the base to a distance of 20 feet.

The Operator shall avoid impacts to southwestern pond turtles. Clearing shall not extend beyond the area that was cleared in 1997 or as stated in the maintenance plan without prior approvals from the Department. Surveys for sensitive species (i.e., pond turtles) may be required if additional clearing is needed. No native trees shall he removed with a 2 inch diameter at breast height or greater. The 0.2-acre of vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
F ESC21 Dust Control	厂 ESC22 Temporary Stream Crossing				
FESC31 Temporary Drains and Swales	F ESC50 Silt Fence				
□ ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: Mitigation measure has Mitigation measure is (Please explain below. Mitigation measure is (Please explain below. Comments/Revisions: No WATER, REACH IS DRY.	s been implemented. No further action is required. not fully implemented. Further action is required.) not in compliance. Further action is required.				
Biologist on site: ┌─ Yes ┌√No Biologist Comments/Instructions:	Date:				
Completed by: Name: <u>Ryan Mueillo</u> Approved by: Name:					
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: #: Reach No. 28 Triunfo Ck (PD T2200) T.G.: 587 H-3

Permit Requirements:

The channel clearing work will involve removing all vegetation from the ungrouted rock levee, hand clearing all vegetation along the levee from the base to a distance of 20 feet.

The Operator shall avoid impacts to southwestern pond turtles. Clearing shall not extend beyond the area that was cleared in 1997 or as stated in the maintenance plan without prior approvals from the Department. Surveys for sensitive species (i.e., pond turtles) may be required if additional clearing is needed. No native trees shall he removed with a 2 inch diameter at breast height or greater. The 0.2-acre of vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

No	Noise	E WAS CREW	TED UN	TIL AF	TER 8	B: OO Ain	,50 AS	NOT TO
DIST	TURB	NEIGHBORS.	USE OF	= HAND	Tools	WERE	USED fo	or clean-up
AN	D lor	DING,						

- Disposition: _____ Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

No	WATER	REACH is	DRY		
			/		

Completed by: Name:	RYAN MURIllo
Approved by: Name: _	JR. Moteru

Title:	CREW LEADER	Date:	1/5/21
Title:	Fils	Date:	1/2/21

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E A A Z Initial No Boon NECESSARY Los Angeles County Channel Maintenance Project. Reach Name TRIUNFO LREEK - PD 2200 Reach Number #28 Comment Mitigation Monitoring Program OMP/ETED Reach Number Noise ()71 P. 9HdpulwW1 GATADASCEENT OPAAFSAMABERDOU. Stondoo IIIo: Program doo 7 Au-7 11/21 1/10/21 Date 12/21 1/8/21

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) ———
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: #: Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

F ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	ESC22 Temporary Stream Crossing
F ESC31 Temporary Drains and Swales	F ESC50 Silt Fence
F ESC51 Straw Bale Barriers	F ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Saft Botto	m Has No	RUNNING	WATER -	NO	BOOM	

TTNO

Date: 11/4/20

Biologist Comments/Instructions:

Completed by: Name:	RYAN	Murillo
Approved by: Name: _	JR.	Murene

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Title:	CREW (EADER Date:	11/4/20
Title:	FCCS	Date:	11/16/20

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: #: Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

All WEED	EATERS, HEDGE TRIMMERS, ETC. ARE FITTED with	
ADDROVED	MUFFIERS	
τ.		

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 Completed by: Name:
 Ryan Museillo
 Title:
 Ceru LEADER
 Date:
 11/4/20

 Approved by: Name:
 JR. Molenu
 Title:
 FCCG
 Date:
 11/4/20

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No.29 Las Virgenes (PD T1684) M.C.I. T.G.: 558-H3

Permit Requirements:

The channel clearing work will involve hand clearing a 30-foot-wide strip along the watercourse low flow from the debris posts to the right-of-way boundary.

The Operator shall avoid impacts to southwestern pond turtles. The Operator shall not impact the 0.61-acre of vegetation that was allowed to remain in 1997. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

All VEGITIATION	WAS REMOVED with power took that ARE FILLED D EXHAUST
Disposition:	Mitigation measure has been implemented. No further action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
(Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisio	ons:
Project start date:	11/4/20 Project end date: 11/5/20
	PUL-D AL white

Completed by: Name:	Kymas Murillo	Title: CREW (EADER	Date: 11/4/20
Approved by: Name: _	JR. Mortano	Title: FCCS	Date: 11/4/20

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2 MilpulaWES INHA'ESE SAUCIPATSVARioaftor, stonitorine Propramas, 11/15/20 ce/4/20 Date ∧ij. 9 5 Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name LAS Viegeuss Creek Reach Number #29 ٢ 120 7 Noise 7 Completed Comment RW2 RM.

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 32 Stokes Canyon T.G.: 588- J4 TO H4 Channel. PD T043

Permit Requirements:

The work will involve hand clearing of all vegetation between the pipe and wire. Embankment vegetation outside the pipe and wire channel will be left in place.

Description of Activity/Method of Implementation:

ALL POLEGANOS, WEED EATERS AND HEDGE TRIMMERS USED TO DEBRUSH ARE FITTED WITH APPROVED EXHAUST.

Disposition: _____ Mitigation measure has been implemented. No further action is required.
 _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO NEED FOR BOOM TO DRY SOFT BOTTOM

Project start date: 10/10/20 Project end date: 11/3 Completed by: Name: Rythe Mue Title: CREW LEADER Date: 10/10/20 Morania Title: FCCS Date: Approved by: Name:

Compliance	e Verification Form
Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) ———
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 32 S Channel. PD To	Stokes Canyon T.G.: 588- J4 TO H4
Permit Requirements: The work will involve hand clearing of all veget vegetation outside the pipe and wire channel w	ation between the pipe and wire. Embankment vill be left in place.
Description of Activity/Method of Implen Due to hydrological conditions in the read following Best Management Practice were	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:
FESC1 Scheduling	FESC2 Preservation of Existing Vegetation
□ ESC21 Dust Control	ESC22 Temporary Stream Crossing
□ ESC31 Temporary Drains and Swales	TESC50 Silt Fence
F ESC51 Straw Bale Barriers	□ ESC52 Sand Bag Barriers
Disposition: Mitigation measure has	s been implemented. No further action is required.
Mitigation measure is (Please explain below.	not fully implemented. Further action is required.
Mitigation measure is (Please explain below.	not in compliance. Further action is required.
Comments/Revisions: Soft BOTTOM 15 DRY	
Biologist on site:	Date:

Biologist Comments/Instructions:

Completed by: Name:	RIAN	Murillo	
Approved by: Name:	JR.	Moreno	

Title: $\underline{CPEW} \underline{LEADER}$ Date: $\underline{10/10/20}$ Title: \underline{FCCS} Date: $\underline{11/4/20}$

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 32 Stokes Canyon Channel, PD T043

T.G.: 588- J4 TO H4

Permit Requirements:

The work will involve hand clearing of all vegetation between the pipe and wire. Embankment vegetation outside the pipe and wire channel will be left in place.

Description of Activity/Method of Implementation:

ALL POWER TOOLS USED FOR DEBRUSHING ARE FITTED with APPROVED MUFFLERS AND WORK DOFFICT GIMET TILL B: ODAM SO NEIGHBORS ARE NOT DISTURBED

Disposition: _____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO NEED FOR BOOM SINCE SAFT BOTTOM 15 DRY.

 Completed by: Name:
 Rypri Mueillo
 Title:
 CERU (EADER Date: 10/0/20

 Approved by: Name:
 R- MOFERO
 Title:
 FCCS
 Date: 11/4/20

, S Å Pix . Initial Reach Name STOKES CHNYON CHINNEL Los Angeles County Channel Maintenance Project NO BEON PECESSAP ORGEK is DRY Comment Completers Mitigation Monitoring Program #32 Noise Reach Number P vhdpub\WYSTAUIAWSENALORAU/\MAhijyation \Nontonny Program dor H20 Air 10/23/20 02/02/01 02/22/01 02/1/01 12/01 02/12/a 10/29/20 10/31/20 11/3/20 10/10/20 10(22/20 10/28/20 Date

N.K. R.W. KW. RZM. N. V. R.M. Riv KW. N.N. Υ Υ Ζ

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 33 Medea Creek (PD T1378 u.2) T.G.: 558-A4

Permit Requirements:

The work will involve mechanical clearing of all the vegetation in the channel.

The Operator shall avoid vegetation clearing due to sensitive resources. If any vegetation needs to be cleared during future maintenance activities, the Operator shall provide additional mitigation for those impacts. The entire 0.69-acre mod. area is vegetated. Therefore, if clearing all vegetation, need to mitigate for an additional 0.69 acre of riparian vegetation. Vegetation shall be removed by hand clearing only. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL VEGETATION CLEARING WAS DONE witH HAND TOOLS AND DOWER
TODS (WEED EATERS, HEDGE TRIMMERS AND DOLE SAWS) that ARE FITTED
WITH ADDROVED FXHAUST.

Disposition:		Mitigation measure has been	mplemented. No	further action is re	quired.
		Mitigation measure is not fully (Please explain below.)	/ implemented.	Further action is re	equired.
		Mitigation measure is not in (Please explain below.)	compliance. F	Further action is re	equired.
Comments/	Revisi	ons:			
Project star	t date:	1/20/21	Project end	date: 2/2/2/	-
Completed b	y: Nan	ne: Run Muzilla Title	e: <u>CREW LEAD</u>	<u> 32</u> Date: <u> 20</u> 2	-1
Approved by	: Name	e: Kaltazar Norono Titl	e: Facs	Date:	21
				V	

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (To	ons) 3.77
Mitigation Measure #: 2	Exotic Veg. Removed (Sq.	Ft.)
Location/Channel Reach#: Reach No. 33 Medea	Creek (PD T1378 u.2)	T.G.: 558-A4

Permit Requirements:

The work will involve mechanical clearing of all the vegetation in the channel.

The Operator shall avoid vegetation clearing due to sensitive resources. If any vegetation needs to be cleared during future maintenance activities, the Operator shall provide additional mitigation for those impacts. The entire 0.69-acre mod. area is vegetated. Therefore, if clearing all vegetation, need to mitigate for an additional 0.69 acre of riparian vegetation. Vegetation shall be removed by hand clearing only. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC1 Scheduling	☐ ESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	FESC22 Temporary Stream Crossing
F ESC31 Temporary Drains and Swales	FESC50 Silt Fence
FESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

SOFT BOTTOM	CLEARING WAS	S SCHEDULED TO	AVOID	BIRD NESTING	SEASON.
STRAW BALE	WAS DALED	AT END OF R	ZEACH.		

Biologist on site: T∽Yes □ No

<u> </u>	NL.		
1	IN ()	

Date: 1/20/21

Biologist Comments/Instructions: NO WORK IS TO BE DONE IN WATER Title: CREWLEADER Date: 11 Completed by: Name: KAN Title: Fccs Date: Approved by: Name:

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 33 Medea Creek (PD T1378 u.2) T.G.: 558-A4

Permit Requirements:

The work will involve mechanical clearing of all the vegetation in the channel.

The Operator shall avoid vegetation clearing due to sensitive resources. If any vegetation needs to be cleared during future maintenance activities, the Operator shall provide additional mitigation for those impacts. The entire 0.69-acre mod. area is vegetated. Therefore, if clearing all vegetation, need to mitigate for an additional 0.69 acre of riparian vegetation. Vegetation shall be removed by hand clearing only. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

All WORK STARTED AFTER 8:00 HM SO AS NOT TO DISTURB NEIGHBORS.
All POWER TOOLS (WEED EATERS, HEDGE TRIMMERS AND DOLE SHW) ARE
FITTED WITH APPROVED MUFFLERS, ALL VEGETATION REMOVED, WAS
HAND LOADED IN TO DIMO TRUCK.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO EXCESSIVE NOKE WAS CREATED,

Completed by: Name:	RAN N	lupil	0
Approved by: Name: _	Baltaz	v p	wand

Title: CREWLEADER Date: 1/20/21 Title: PCCS Date: 1/20/21

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Meden Creek- PD 1378 UZ Reach Number # 3×

Initial	N N	N	N, N	P.M.			ē		
Comment	END OF REACH			Biologist (STEVE) AllowED SOME TREE/BEANCH CUTTING					
MORIGE	7	/	7	7					
() Horney	7	7	\langle	\mathbf{i}					
Aŭr.	7	7	7	\mathbf{i}					
Date	1/20/21	1/2/121	1/22/21	1126/21		 		1 11 000000	

P. HopnfoxWP5542HA2974Ay9A0 ORAP55Afdroation. Condemne Press, 64, 6
Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 35 Medea Creek T.G.: 558-A5 Main Channel Inlet - under Route 101

Permit Requirements:

Hand clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.14 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

All VEGETATION WAS REMOVED BY HAND TOO'S AND	POWER TOOLS,
POWER TOO'S SUCH AS HEDGE TRIMMERS AND WEED FATTE	JRS THAT ARG
FITTED with ADDROVED EXHAUST.	

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date:	Project end date: 1/14/21
Completed by: Name: Ryan Mueillo	Title: CREW LENTER Date: 1/14/21
Approved by: Name: Ballgzar Morrie	Title: <u>Fccs</u> Date: <u>415/2</u>

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed	(Tons) 1,79	
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	
Location/Channel Reach#: Reach No. 35 Medea Creek T.G.: 558-A5 Main Channel Inlet - under Route 101			
Permit Requirements: Hand clearing will be performed to keep reach clear of all vegetation.			

Impacts shall not exceed 0.14 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

I√ESC1 Scheduling	□ ESC2 Preservation of Existing Vegetation
FESC21 Dust Control	
□ ESC31 Temporary Drains and Swales	ESC50 Silt Fence
TVESC51 Straw Bale Barriers	☐ ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:	PING WAS DYDA	E TO AVOID BIDD NECHING	
SEASON AND STR	AW BALE MA	GUSED AS WELL.	
Biologist on site:	s IV No	Date:	
Biologist Comments/Inst	tructions:		
Completed by: Name: R	An Muzillo Mazar Mareno	Title: <u>CREW (EADER</u> Date: <u>1/14/2</u> Title: <u>FCCS</u> Date: <u>1/15/3</u>	2P 2P

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 35 Medea Creek T.G.: 558-A5 Main Channel Inlet - under Route 101

Permit Requirements:

Hand clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.14 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

REMOVED All VEGETATION BY HAND AND LITTLE USE OF BUER Tools with Approved MUFFLERS,

Disposition: _/ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	RVA	J Mu	neitb
Approved by: Name:	Bilto	1201	Morano

Title: <u>CREW LEADER</u> Date: <u>1/14/21</u> Title: <u>Fres</u> Date: <u>1/15/2</u>

	Initial	K.W.	 		a la		
onitoring Program Creek Julet	Comment	Situates and completed					
Manual Manual	Noise)					
Mittga Name Numbe	H20	7					
cach							
	ALL.	7		÷			
	Date	11142				 	

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 36 Cheseboro Main Channel Inlet T.G.: 558-C6

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not he impacted during future maintenance activities

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED BY HAND AND LITTLE USE OF POWER TOOLS FITTED WITH APPROVED AIR FILTERED EXHAUST.

Disposition: _____ Mitigation measure has been implemented. No further action is required.



Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO BOOM NEEDED, NO WATER

Project start date: 12/17/20	Project end date: 12/17/20
Completed by: Name: Rym Mueillo	Title: CREW LEADER Date: 12/17/20
Approved by: Name:	Title: <u>FCLS</u> Date: <u>12/18/</u> 20
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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No. 36 Cheseboro Main Channel Inlet T.G.: 558-C6

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not he impacted during future maintenance activities

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
IV ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

DRY FNIET, NO BOOM NEEDED

Biologist on site: TYes Trivo

Date:

Biologist Comments/Instructions:

Completed by: Name:	Ryan Murillo
Approved by: Name: _	Jr. Moreno

 Title:
 CREW (EADER Date: 12/17/20

 Title:
 FCC5

 Date:
 12/18/20

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 36 Cheseboro Main Channel Inlet T.G.: 558-C6

Permit Requirements:

The clearing work will involve hand cutting/trimming three two-inch diameter trees. New vegetation will be cleared annually to prevent blockage of the inlet during the dry season.

The Operator shall not impact the 0.05-acre of vegetation that was allowed to remain in 1997. The vegetation that was allowed to remain in 1997 shall not he impacted during future maintenance activities

Description of Activity/Method of Implementation:

All DOWER TOOK USED TO REMOVE VEGETATION ARE FITTED WITH ADDROVED MUFFIERS, VEGETATION WAS HAND LOADED IN TRUCK.

Disposition: Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

DRY FINIET, NO BOOM NEEDED. All WORK STARTED AFTER 8:00MM SO NOT TO PISTURB OUR NEIGHBORS.

 Completed by: Name:
 Run Muzillo
 Title:
 Cerw Lenger
 Date:
 12/17/20

 Approved by: Name:
 R. Motenu
 Title:
 Fccs
 Date:
 12/18/2



Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Description of Activity/Method of Implementation:				
AU POWER TOOLS SUCH AS WEEDE HAVE APPROVED EXHAUST SO AS NO	ATERS, POLE SAW, AND HEDGE TRIMMERS			
Disposition: Mitigation measure has Mitigation measure is n (Please explain below.) Mitigation measure is (Please explain below.)	been implemented. No further action is required. not fully implemented. Further action is required. not in compliance. Further action is required.			
Comments/Revisions:				
Project start date: 1/12/21	Project end date: 1321			
Completed by: Name: <u>RIAN Mueilla</u> Approved by: Name: <u>Baltazar Norcm</u>				

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

▼ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	F ESC22 Temporary Stream Crossing
FESC31 Temporary Drains and Swales	□ ESC50 Silt Fence
IV ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

STRAW BALE WAS PLACED AT END OF REACH

Date: _____

Biologist Comments/Instructions:

Completed by: Name:	RAN	Mure	illo
Approved by: Name:	Balta	Zar	Noran

Title: CREW LEADER Date: 1/12/21Title: Pres Date: 1/13/21

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

No work was done and 0.25 acres of vegetation was present in the channel in 1997. The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL POWER TOOLS HAVE APPROVED MUFFLERS TO MINIMIZE NOISE WHILE REMOVING VEGETATION.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	Ryman	Muz	illo
Approved by: Name:	Baltaz	av N	Arten

Title: CREW LEADER Date: 1/12/21 Title: Fees Date: 13/24

	R,M.	Υ Υ Υ	
Channel Maintenance Project Monitoring Program A CREEK, CHEEBORD DHET 37	STRAW BALE PLACED AT END OF REACH	Completed	
County Journal of the Market o		2	
Angeles & Mitig ach Name Ich Numb			entonne Pretam de
105 105		5	 notherholder
	Date $1/12/2/$	201	Wart, a Viki s IAwandari San San San San San San San San San San

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 38 Lindero M.C.O. T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall he removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

<u>All power</u> + fitted with	ools used on Soft F approved exhaust's -	Bottom clearing	gare all
Disposition:	Mitigation measure has bee Mitigation measure is not f (Please explain below.) Mitigation measure is not (Please explain below.)	en implemented. No fully implemented. F in compliance. Fu	further action is required. ^c urther action is required. urther action is required.
Comments/Revisi	ions:		
Project start date	11-6-2020	Project end d	late: 11-13-2020
Completed by: Nar Approved by: Nam	e: Baltazar Mireni	Title: <u>Crewbeoder</u> Title: <u>Fccs</u>	Date: 11-13-2020 Date: 1/172020

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)_____

Location/Channel Reach#: Reach No. 38 Lindero M.C.O. T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall he removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
FESC31 Temporary Drains and Swales	FESC50 Silt Fence
ESC51 Straw Bale Barriers	FESC52 Sand Bag Barriers

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions: Placed Hay Booms down stream Beach.

Biologist on site: 🏴 Yes 🗆 🗆 No

Date: 11-13-2020

Biologist Comments/Instructions:

Completed by: Name:	Day Lemos h
Approved by: Name:	Baltazar Morani

Title: Crew Leader	Date: <u>11 - 13-2020</u>
Title: Fees	Date: 1/17/2020

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 38 Lindero M.C.O. T.G.: 558-A6

Permit Requirements:

Hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.19 acre. No native trees shall he removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation: all power tools used to remove year tation site are fitted with approved mufflers. also all 8:00 AM so not to disturb pear ! started after LUSSINESS Disposition: Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:** Completed by: Name: Title: Ciew Leader Date: 11-1 Title: Fccs Date: 14 Approved by: Name:

2 MdpulwWFSTMHASEL SALORNISMAfilipation Monitoring Program. doc 13/20 06/11/12/20 11/10/20 11/10/20 Date 7 7 **Air** 7 Los Angeles County Channel Maintenance Project Reach Number #38Reach Name Linders Conyon Channel H20 Mitigation Monitoring Program Noise burn placed at End of theach Job is complete removed Boom Comment ア・「 RIL ア・ト P. L. Initial

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 39 Beatty Channel Outlet @ SGR T.G.: 568-F4

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality..

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: <u>11-1-2020</u>

Completed by: Name: Nik Reppuhn

Approved by: Name: Dai Buildow State State

Project end date: 11-13-2020

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) _	45
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	30

Location/Channel Reach#: Reach No. 39 Beatty Channel Outlet @ SGR T.G.: 568-F4

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is diverted.

Description of Activity/Method of Implementation:

There was no water present during clearing activities. A water diversion plan was not prepared and water sampling was not conducted. Crews utilized a flail mower and hand tools to cut and remove all debris within the soft bottom reach and disposed of it at Puente Hills Materials Recovery Facility.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: 🛛 Yes 🛛 🗹 No

Date:

Biologist Comments/Instructions:

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: <u>Dai Builder and the and the approved</u> by: Name: Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 39 Beatty Channel Outlet @ SGR T.G.: 568-F4

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name:	Nik Reppuhn	Title: Assoc. Civil Engr.	Date: <u>6-9-2021</u>
Approved by: Name: Dai	Diggibly signed by: Dai Bui DigCiCN - Dai Bui amail - doui @pw. DigCiCN - Dai Bui amail - doui @pw. Hother: Views DU - SWMD Date: 2021.07.02 H-30:14 - 06000	Title: Principal Engr	Date: <u>7-8-2021</u>

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 40A San Gabriel River

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality efforts was undertaken. Vegetation removed from the stream bed was hauled via truck to Puente Hills Material Recovery Facility.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: 09/24/2020

Project end date: 12/31/2020

Completed by: Name: <u>Nik Reppuhn</u>

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

T.G.: 597-H5

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)219.5
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 115
Location/Channel Reach#: Reach No. 40A San	Gabriel River T.	G.: 597-H5

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is diverted.

Description of Activity/Method of Implementation:

Water at the site was not present during this annual clearing event. A contractor carried out the soft bottom clearing efforts in this reach utilizing a combination of mowers and hand clearing.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

No equipment used. Water samples were not taken.

Biologist on site: 🗹 No 🛛 🖾 Yes

Date:

Biologist Comments/Instructions: None

Completed by: Name:	Nik Reppuhn
Approved by: Name:	Dai Bu Digiti y signed by: Dai Bui Digiti y signed by: Da

Title:	Assoc.	Civil Engr.	Date:	6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 40A San Gabriel River

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts were undertaken. Noise was not an issue on this clearing project. During the contractor's work we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name: <u>Nik Reppuhn</u>

Approved by: Name: Dai Building to the state of the state

Title: <u>Assoc. Civil Engr.</u> Date: <u>6-9-2021</u>

Title: Principal Engr Date: 7-8-2021

T.G.: 597-H5

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 40B San Gabriel River

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality. Vegetation was removed from the stream bed and was hauled via truck to Puente Hills Material Recovery Facility.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: 9/24/2020

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: Dai Bui

Project end date: 12/31/2020

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

T.G.: 637-F4

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tor	188 .31
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. F	-t .)95
Location/Channel Reach#: Reach No. 40B San	Gabriel River	T.G.: 637-F4

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is diverted.

Description of Activity/Method of Implementation:

Water at the site was not present during this annual clearing event. A contractor carried out the soft bottom clearing efforts in this reach utilizing a combination of mowers and hand clearing. A biologist was on site before and during the work in Reach 40B marking vegetation to be protected or removed.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Work was carried out in the river only where water was not present.

Biologist on site: 🔲 No 🛛 🗹 Yes

Date: During clearing efforts

Biologist Comments/Instructions:

A biologist was on site before and during the mowing activities. He marked all those trees to be protected and those to be removed with a tagging system. Red ribbon was to be protected and blue ribbon was to be removed.

Completed by: Name:	Nik Reppuhn
Approved by: Name:	Dai Bui Public Works OL = SWMD Dai 2021 - SWMD Public Works OL = SWMD Date: 2021.07.12 14:34:19-0800

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 40B San Gabriel River

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise. Noise was not an issue on this clearing project. During the contractor's work we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Approved by: Name: Dai Bu

Title: Assoc. Civil Engr. Date: 6-9-2021

T.G.: 637-F4

Title: Principal Engr Date: 7-8-2021
Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 41 Walnut Creek

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality. Trash and cuttings in the river bottom were collected and hauled to Puente Hills Materials Recovery Facility for disposal.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: 09/21/2020

Project end date: 10/17/2020

Completed by: Name: <u>Nik Reppuhn</u>

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

T.G.: 637-H2

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 165.34
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 60
Location/Channel Reach#: Reach No. 41 Waln	ut Creek T.G.: 637-H2

Permit Requirements:

The permit requires that we monitor water quality at the site and prepare a water diversion plan, if water is present. Water was not present; thus no plan was prepared and no samples were taken. Flail mowers removed the majority of the vegetation within the soft bottom and hand crews were dispatched ahead of the mowers to remove any invasive/exotics that were identified.

Description of Activity/Method of Implementation:

There was no flowing water within the work site.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

No equipment used. Water samples were taken before, during, and after completed work

Biologist on site: 🔽 No 🛛 🖾 Yes

Date:	
Dute.	

Biologist Comments/Instructions: None

Completed by: Name:	Nik Reppuhn
Approved by: Name:	Dai Bui Police 2021.07.12.14.34:54.0800

Title: Assoc. Civil Engr. Date: 6-9-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 41 Walnut Creek

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise. Noise was not an issue on this clearing project. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

Disposition: X Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name: <u>Nik Reppuhn</u>

Approved by: Name: Dai Bui Bui And Construction of the Automatic States and Co

Title: <u>Assoc. Civil Engr.</u> Date: <u>6-9-2021</u>

Title: Principal Engr Date: 7-8-2021

T.G.: 637-H2

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 42 San Jose Creek T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: <u>1-11-2021</u>

Completed by: Name: <u>Nik Reppuhn</u>

Approved by: Name: Dai Bui Status Company Status Co

Project end date: 2-15-2021

Title: Assoc. Civil Engr. Date: 6-9-2021

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons	s) <u>105</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Fi	.) 25
Location/Channel Reach#: Reach No. 42 San	Jose Creek T.	G.: 637-E5

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is flowing.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after our efforts on the river. All the trash/debris was hauled to Puente Hills Material Recovery Facility for disposal.

Due to the water flow, water sampling was conducted upstream, downstream and at the work site.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: 🖸 Yes 🛛 Vo Date: _____

Biologist Comments/Instructions:

Completed by: Name:	Nik Reppuhn
Approved by: Name:	Dai Bui Phile Weise Juint State Stat

Title: Assoc. Civil Engr.	Date: <u>6-9-2021</u>
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 42 San Jose Creek

T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise. Noise was not an issue on this clearing project. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name: <u>Nik Reppuhn</u>

Approved by: Name: Dai Building Control to the standard of the

Title: Assoc. Civil Engr. Date: 6-9-2021

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Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)	1000
Impact Issue:	Air Quality	
Mitigation Measure No:	1	

Permit Requirements:

Mechanical clearing of vegetation will be used for approved clearing activities. Trimming of the riparian vegetation may be necessary in the future as growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biological monitor will be present during clearing activities.

Description of Activity/Method of Implementation:

The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put on to tarps and removed. Minimal amount of dust was generated. Water trucks were used for dust suppression when necessary.

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/20

Project End Date: 10/02/20

	Completed by:	ac for Approvedby:
Name:	A A	Name:
Title:	" Monestonenton regerin buton	Title: free Eosian
Date:	04/26/2021	Date: 7/15/2021

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	24

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB) for flowing water. The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native tress removed. Debris was put on to tarps and removed. All equipment and trucks had their tires and undercarriage cleaned before leaving the site. Biologist on site during clearing activity and BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

✓	Mitigation measure has been implemented. No future action is required.
•	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

1	
Completed by:	Approved by:
	- Auto
Name: Stratter Vie	Name: And the h
Title: The SMith Source for Jan T	Title: Are Engineer
Date: 04/26/2021	Date: 7/15/2021

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

The crews worked with hand tools to remove ground vegetation and trimming tools to cut bushes. Trees were trimmed, and non-native trees removed. Debris was put on to tarps and removed. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

	MA1
<i>,</i> *	Completed by:
Name:	6 PATTING
Title:	oustruth Swamper Len 7
Date:	04/26/2021

18C 1	Approved by:
Name:	May Sph 2
Title:	Are Bossaler
Date:	7/15/2021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 43 – SAN GABRIEL RIVER 9/16/20-10/02/20 DURING PHOTOS







LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 43 – SAN GABRIEL RIVER 9/16/20-10/02/20 DURING PHOTOS





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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 43 – SAN GABRIEL RIVER 9/16/20-10/02/20 BMP'S





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Reach Name Los Angeles County Channel Maintenance Project Mitigation Monitoring Program San Gabriel River Whittier Narrows Reach Number <u>43</u>

02/52/6 7/301 9/25/20 9/20/2i 19/24/20 19/23/20 19/22/20 12/21/20 02/81/66 02/2/14 Date 20 20001 1000 Souch Socol Soud 200Cl 000 10 mg 8000 50001 9000 2000 Air H20 9 G G Q Q G Q Q Q C 0 Q 1 70- 90 dBA --Ξ acceptable -Ξ 1 7 Ξ 11 Noise 1 > 2 1 1 11 1 1 11 11 N at SIN CRASTIC SNTH at SCR/Phay 1 working south of DAM and Morg ME BANK duel Not impart work. 70% of invest Cleand. N of SAN CARIOC Working itelated sports. & Alundo, Two PEH CAMPIC wolking around LIATER CONTINUEL TO Flow from DAM WATER IN INVERT duesn't impact work working about EAST & WEST BANKS 2009 WEST BANK, GROUND KUN MANULYS. FENCE live. ginna year anti- us to serve astersion * NO ONE ON THE CAST BANK KAMPING BSTEED REALH 43ABB 55 Do done moved attal they removed scens Clust Penaling appren Bean & Arundo safety hard hat on. S/N OF SAN GABRIEL PRUY SIN of SAN GARANEC PRUS THEM REACH 43 80% Nonk amplited Comment phwy & moning Verbart wointing multweed" 50 V. 5 2 Initial 00 50 5 07 20 26 12 JG

REACH 43 A

2

Reach Name San Gabriel River Whittier Narrows Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Number 43

0202/2020 Date 200d Air H20 9 70-90 scceptable Noise REALT 43 A/B COMPLERED / DUNE Comment é Initial 06

SGR, SOFT BOTTOM

REACH 43

DAY# 1

DATE: 09/16/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: Juan 818-267-7338

Benjamin 661-609-0375

Rogelio 747-225-9102

LOCATION: South/North of San Gabriel River Parkway

INCIDENTS? Y/N: Started to mow after they removed seeds from the caster bean.

SGR, SOFT BOTTOM

REACH 43

DAY# 2

DATE: 09/17/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: Juan 818-267-7338

Benjamin 661-609-0375

Rogelio 747-225-9102

LOCATION: South/North of San Gabriel River Parkway

INCIDENTS? Y/N: Mowing completed south of San Gabriel PKWY

SGR, SOFT BOTTOM

REACH 43

DAY# 3

DATE: 09/18/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Rogelio 747-225-9102

Steve (BIO.) 714-316-9544

LOCATION: North of SGR PKWY mowing along the east bank removing caster bean.

INCIDENTS? Y/N: Continued to work north of SGR PKWY mowing.

SGR, SOFT BOTTOM

REACH 43

DAY# 4

DATE: 09/21/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: Juan 818-267-7338

Benjamin 661-609-0375

Rogelio 747-225-9102

LOCATION: North of San Gabriel River Park Way

INCIDENTS? Y/N: No one on the crew had there Safety Hard Hats on, talked to supervisor Rojelio "verbal warning". Its required "You must wear your Hard Hats PPE."

SGR, SOFT BOTTOM

REACH 43

DAY# 5

DATE: 09/22/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: Juan 818-267-7338

Benjamin 661-609-0375

Rogelio 747-225-9102

LOCATION: North of San Gabriel River Park Way and mowing along west bank heading north.

INCIDENTS? Y/N: Continued to mow invert and hand crew Arundo and Caster Bean.

SGR, SOFT BOTTOM

REACH 43

DAY#6

DATE: 09/23/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Rogelio 747-225-9102

Steve (BIO.) 714-316-9544

LOCATION: North of SGR PKWY mowing along the west bank removing caster bean/Arundo ground crew

INCIDENTS? Y/N: Continued to work north of SGR PKWY mowing. Along west bank and lower invert. South SGR PKWY done.

SGR, SOFT BOTTOM

REACH 43

DAY# 7

DATE: 09/24/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Rogelio 747-225-9102

Steve (BIO.) 714-316-9544

LOCATION: North of SGR PKWY mowing along the east bank. Removing caster bean/Arundo ground crew.

INCIDENTS? Y/N: Continued to work north of SGR PKWY mowing. Along west/east bank and water in invert. Does not impact mowing/ground work.

SGR, SOFT BOTTOM

REACH 43

DAY# 8

DATE: 09/25/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Rogelio 747-225-9102

Steve (BIO.) 714-316-9544

LOCATION: North of SGR PKWY, South of Dam/Debris structure

INCIDENTS? Y/N: water continues to flow from Dam into lower invert, does not impact work. 70 o/o of invert has been mowed. Ground crew continues to work on Arundo on north side of Reach 43. Two Camps (PEH) remain will work around them.

SGR, SOFT BOTTOM

REACH 43

DAY# 9

DATE: 09/28/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Steve (BIO.) 714-316-9544

LOCATION: North of SGR PKWY, South of Dam/Debris structure. Mowing south of San Gabriel PKWY to Beverly.

INCIDENTS? Y/N: water continues to flow from Dam into lower invert, does not impact work.

Ground crew continues to work on Arundo on north side of Reach 43. Two Camps (PEH) remain will work around them.

SGR, SOFT BOTTOM

REACH 43

DAY#10

DATE: 09/29/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Steve (BIO) 714-316-9544

LOCATION: South of Whittier Narrows Dam and along the N/E fence line, removed flagged vegetation and arundo>

INCIDENTS? Y/N: Reach 43 approximately 80 0/0 done.

SGR, SOFT BOTTOM

REACH 43

DAY#11

DATE: 09/30/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

Benjamin (661) 609-0375

Steve (BIO) 714-316-9544

LOCATION: Working Reach 43-B San Gabriel PKWY up to Beverly Blvd. Mowing and removing Caster Bean seeds and removal of vegetation along slopes east/west sides.

INCIDENTS? Y/N: Reach 43 (Whittier Narrows Dam to San Gabriel PKWY approximately 95 percent done, some isolated spots will be removed 10/01/20 (Thursday).

SGR, SOFT BOTTOM

REACH 43

DAY# 12

DATE: 10/01/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

LOCATION: South of San Gabriel PKWY towards Beverly Blvd.

INCIDENTS? Y/N: Reach 43 North of San Gabriel PKWY to Whittier Narrows Dam is complete. Will continue to work south of San Gabriel PKWY towards Beverly Blvd., Mowing invert, removing caster bean and Arundo.

SGR, SOFT BOTTOM

REACH 43

DAY# 13

DATE: 10/02/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Oakridge

Supervisor: David (818) 404-0332

LOCATION: SGR, Whittier Narrows Dam to Beverly Blvd.

INCIDENTS? Y/N: Reach 43 DONE

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Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Mechanical clearing of vegetation will be used for clearing activities. Some trimming of the riparian vegetation may be necessary as growth occurs per original permit conditions.

Description of Activity/Method of Implementation:

Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. Minimal amount of dust was generated. Water trucks were used for dust suppression as necessary.

Disposition:

\checkmark	Mitigation measure has been implemented. No future action is required.	
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)	
	The mitigation measure is not in compliance. Further action is required. (Please explain below)	

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/21/20	Projec
Completed by: 1/ E	jac pr
Name:	Name:
Title: Mathick Coperintensen	Title:
Date: 09/26/2021	Date:

Project End Date: 10/29/20

proved

Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris Removed	2.1	·

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB) for flowing water. Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. All equipment and trucks had their tires and undercarriage cleaned before leaving the site to maintain water quality.

The following Best Management Practice was deemed to be applicable and was implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Completed b Approved by: toc Name: Name: Title: Title: Date: Date: 2) e

Compliance Verification Form

Location/Channel Reach	Reach No. 44 (San Gabriel River)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Mechanical equipment was used to keep the channel clear of vegetation. Mowers were used in most areas. Trees were trimmed, and non-native trees removed. Activity in the reach maintained minimal noise during the working hours. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

/*	Completed by
Name;/	SATTANE
Title:	Pour meter Superinta Let
Date:	04/26/2021

Lac	Approved by:
Name:	All holy
Title:	Area Englisher
Date:	7/13/2021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 44 – SAN GABRIEL RIVER 9/21/20-10/29/20

DURING PHOTOS





LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 44 – SAN GABRIEL RIVER 9/21/20-10/29/20

DURING PHOTOS







LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 44 – SAN GABRIEL RIVER 9/21/20-10/29/20

BMP'S





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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River Whittier Narrows</u> Reach Number 44 2020 Sept. 09/21- Oct. 10/29

Date	Air	H2O	Noise	Comment	Initia
1/21	GOOD	Dry	70-90 dBA Acceptable	North of Whittier Blvd. Powerland (Invert) slope mower and water truck.	JG
1/22	GOOD	Dry		. Continued to work north of Whittier Blvd. to RD1	JG
1/23	GOOD	Dry	56 <u>56</u>	RD 1 up to Beverly Blvd. 1 slope mower 1 Water Truck.	JG
/24	GOOD	DRY	£6 55	Continued to work south of Beverly Blvd. Slope Mowrer working around tree line.	JG
1/2	GOOD	DRY	66 EC	Continued to work south of Beverly Blvd slopes on east and west sides.	JG
1/28	GOOD	DRY	cc cc	Powerland working south of Whittier Blvd. Along the east and west sides of the slopes.	JG
1/29	GOOD	DRY	"	Working south of RD 2. Requested contractor to remove K-Rail to gain access to ramp.	JG
/30	GOOD	DRY	66 EE	Contractor OFF	JG
/01	GOOD	DRY	66 66	Tractor w/Mower Attachment mowing invert Whittier Blvd to Beverly.	JG
/02	GOOD	DRY	55 55	Continued to mow invert. 1 Flex Wing mower and water truck.	JG
/05	GOOD	DRY	£6 66	Continued to mow invert south of Whittier Blvd heading south to Washington Blvd.	JG
/06	GOOD	DRY	"	Mowing slope with slope mower RD2 to Washington Blvd.	JG

/(0=	GOOD	DRY	70-90 dBA Acceptable	Powerland continued to work North/South od RD 3 at Washington Blvd.	JG
/08	GOOD	DRY	" "	Powerland at Washington Blvd. invert mowing. Oakridge day 1 "Slopes" hand work	JG
/09	GOOD	DRY	66 EC	Powerland: south of Washington invert. Oakridge slopes Beverly to Whittier	JG
/13	GOOD	DRY	£6 £6	Powerland: continues north of RD3. Oakridge: slopes Whittier to Washington.	JG
/14	GOOD	DRY	دد دد	Both Contractors working in the same area.	JG
/15	GOOD	DRY	66 66	Powerland: Mowing invert south of RD 3 to Slauson. Oakridge slopes north of RD 4	JG
/16	GOOD	DRY	66 CC	Powerland: continues to mow invert towards Slauson Ave. Oakridge in same area.	JG
/19	GOOD	DRY	66 56	Powerland south of RD4-Telegraph. Oakridge at Slauson on slopes hand crew.	JG
/20	GOOD	DRY	£6 £2	Powreland mowing invert at Telegraph. Oakridge hand crew N/Telegraph.	JG
/21	GOOD	DRY	£6 66	Training "Poll Worker" all day. Unavailable to monitor contractor.	JG
1/2∠	GOOD	DRY	£6 55	Training "Poll Worker" ½ day. Powerland did not work. Oakridge N/S of 5 FWY hand crew.	JG
/23	GOOD	DRY	66 <u>66</u>	Powerland "invert mowers" Oakridge "slopes" both at Florence Avenue	JG
/26	GOOD	DRY	"	Powreland/Oakridge at Florence Ave, Invert mowing and ground crew slopes.	JG
)/27	GOOD	DRY	56 56	Power has complete Reach 44 Invert mowing Beverly to Florence Ave. Oakridge continues at Florence Ave.	JG
)/28	GOOD	DRY	£6 . E6	² Oakridge has finished trimming trees and slopes of overgrown vegetation. Oakridge has completed Reach 44 "slopes"	
1/29	GOOD	DRY	£6 66	Documentation/After Photos Reach 43/44 completed.	JG

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SGR, SOFT BOTTOM

REACH 44

DAY#1

DATE: 09/21/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502

LOCATION: North of Whittier Blvd. 1 slope mower & 1 Water Truck.

INCIDENTS? Y/N:

1

SGR, SOFT BOTTOM

REACH 44

DAY# 2

DATE: 09/22/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alejandro G. (707) 791-5111 "Water Truck"

LOCATION: North of Whittier Blvd. 1 slope mower & 1 Water Truck.

INCIDENTS? Y/N: Continued to work north of Whittier Blvd. along west slope and toe of slope.

SGR, SOFT BOTTOM

REACH 44

DAY# 3

DATE: 09/23/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alejandro G. (707) 791-5111 "Water Truck"

LOCATION: North of Whittier Blvd. 1 slope mower & 1 Water Truck.

INCIDENTS? Y/N: Continued to work north of Whittier Blvd. Mowed under trees and surrounding large vegetation.

SGR, SOFT BOTTOM

REACH 44

DAY# 4

DATE: 09/24/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alejandro G. (707) 791-5111 "Water Truck"

LOCATION: South of Beverly Blvd. 1 Slope Mower & 1 Water Truck.

INCIDENTS? Y/N: Continued to work south of Beverly Blvd. Mowed under trees and surrounding large vegetation.

SGR, SOFT BOTTOM

REACH 44

DAY# 5

DATE: 09/25/20

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 80+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alejandro G. (707) 791-5111 "Water Truck"

LOCATION: South of Beverly Blvd. 1 Slope Mower & 1 Water Truck.

INCIDENTS? Y/N: Continued to work south of Beverly Blvd. Mowed under trees and surrounding large vegetation.

SGR, SOFT BOTTOM

REACH 44

DAY# 6

DATE: 09/28/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alegandro G. (707) 791-5111 "Water Truck"

LOCATION: South of Whittier, mowing along the east/west SGR.

INCIDENTS? Y/N:

SGR, SOFT BOTTOM

REACH 44

DAY# 7

DATE: 09/29/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Slope Mower"

Alegandro G. (707) 791-5111 "Water Truck"

LOCATION: South of RD #2, mowing along the east/west SGR.

INCIDENTS? Y/N: Contractor at San Gabriel H.W. removed Concrete K-Rail to gain access to ramp but overlooked one. Will contact contractor again>

SGR, SOFT BOTTOM

REACH 44

DAY#

DATE: 09/30/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: OFF

Supervisor:

LOCATION:

INCIDENTS? Y/N:

SGR, SOFT BOTTOM

REACH 44

DAY# 8

DATE: 10/01/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Tractor w/Mower Attchment"

Alrjandro G. (707) 791-5111 "Water Truck"

LOCATION: SGR/North of Whitier Blvd. to Beverly Blvd. mowing invert.

INCIDENTS? Y/N: Using a tractor with a flex-wing mower attachment. Water truck fire watch and decontaminate equipment at end of work day. Used water truck too wet down toe of slope for dust control.

SGR, SOFT BOTTOM

REACH 44

DAY#9

. *

DATE: 10/02/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 100+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Tractor w/Mower Attachment"

LOCATION: North of Whittier Blvd.

INCIDENTS? Y/N: Mowing Slopes

SGR, SOFT BOTTOM

REACH 44

DAY# 10

DATE: 10/05/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 "Tractor w/Mower Attachment"

LOCATION: North of Whittier Blvd.

INCIDENTS? Y/N: Mowing Invert

SGR, SOFT BOTTOM

REACH 44

DAY# 11

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DATE: 10/06/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 Slope Mower

LOCATION: North of Whittier Blvd.

INCIDENTS? Y/N: Mowing Slopes

SGR, SOFT BOTTOM

REACH 44

DAY# 12

. 1

DATE: 10/07/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: Powerland

Supervisor: Jake Williams (760) 638-9502 Slope Mower

LOCATION: South of Whittier Blvd.

INCIDENTS? Y/N: Mowing Slopes

SGR, SOFT BOTTOM

REACH 44

DAY# 13

DATE: 10/08/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South/North of Whittier Blvd.

INCIDENTS? Y/N: Powerland south of Whittier mowing slope up to Washington Blvd. Oakridge (Day 1) hand crew removing overgrowth along slopes/rip-rap Beverly to Whittier Blvd. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 💾

DATE: 10/09/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South/North of Whittier Blvd.

INCIDENTS? Y/N: Powerland south of Whittier mowing slope up to Washington Blvd. Oakridge (Day 1) hand crew removing overgrowth along slopes/rip-rap Beverly to Whittier Blvd. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 16

DATE: 10/13/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South/North of Whittier Blvd.

INCIDENTS? Y/N: Powerland south of Washington mowing invert up to RD4. Oakridge hand crew removing overgrowth along slopes/rip-rap Whittier to Washington Blvd. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 17

DATE: 10/14/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South/North of RD 4

INCIDENTS? Y/N: Powerland south of Washington mowing invert up to RD4. Oakridge hand crew removing overgrowth along slopes/rip-rap South of Washington/RD4. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 15

DATE: 10/15/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South/North of Whittier Blvd.

INCIDENTS? Y/N: Powerland south of Whittier mowing slope up to Washington Blvd. Oakridge hand crew removing overgrowth along slopes/rip-rap Whittier to Washington Blvd. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 18

DATE: 10/16/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 90+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South of RD 4

INCIDENTS? Y/N: Powerland south of RD 4 mowing invert heading south towards Slauson. Oakridge hand crew removing overgrowth along slopes/rip-rap South RD4. East and west sides.

SGR, SOFT BOTTOM

REACH 44

DAY# 19

DATE: 10/19/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South of RD 4

INCIDENTS? Y/N: Powerland south of RD 4 mowing invert heading south towards Telegraph. Oakridge hand crew removing overgrowth along slopes/rip-rap South RD4. East and west sides, up to Slauson Ave.

SGR, SOFT BOTTOM

REACH 44

DAY# 20

DATE: 10/20/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South of RD 4

INCIDENTS? Y/N: Powerland mowing Invert south of Slauson to Telegraph Rd./% FWY. Oakridge on slopes working alongside Powerland from a safe distance.

SGR, SOFT BOTTOM

REACH 44

DAY# 21

DATE: 10/21/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino "Training"

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South Telegraph Road

INCIDENTS? Y/N: Training "Poll Worker" all day.

SGR, SOFT BOTTOM

REACH 44

DAY# 22

DATE: 10/22/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino "Training" ½ Day 6am-12:30pm

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South 5 FWY

INCIDENTS? Y/N: Training "Poll Worker" ½ day. Powerland no work. Oakridge North/South of 5 FWY.

SGR, SOFT BOTTOM

REACH 44

DAY# 23

DATE: 10/23/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South 5 FWY

INCIDENTS? Y/N: Powerland south of 5FWY-Florence. Oakridge working on slopes south of 5 FWY to Florence Ave. Oakridge Skid Steer w/Mower attch., slope mower and flex-wing mower.

SGR, SOFT BOTTOM

REACH 44

DAY# 24

DATE: 10/26/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: South 5 FWY

INCIDENTS? Y/N: Powerland south of Florence Ave. Oakridge removing Caster Bean South of Florence along the west bank.

SGR, SOFT BOTTOM

REACH 44

DAY# 25

DATE: 10/27/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

LOCATION: Florence Ave

INCIDENTS? Y/N: Powerland south of Florence Ave. Powerland completed Reach 44 Invert! Oakridge removing Caster Bean South of Florence along the east bank.

SGR, SOFT BOTTOM

REACH 44

DAY# 26

DATE: 10/28/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: *Powerland Reach 44 Invert

**Oakridge Reach 44 Slopes

Supervisor: *Jake Williams (760) 638-9502 Slope Mower

**Jose Rodriguez (818) 398-4783 Hand Crew

f

LOCATION: Florence Ave

INCIDENTS? Y/N: Oakridge south of Florence. Trimming tree line along Florence Ave. Oakridge has completed Reach 44 "slopes".

SGR, SOFT BOTTOM

REACH 44

DAY# *Z*₹

DATE: 10/29/2020

MON TUE WED THU FRI

SWMD REP: J. Gudino

WEATHER: Sunny 85+

CONTRACTOR: N/A

Supervisor: N/A

LOCATION: N/A

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INCIDENTS? Y/N Documentation/after photos

Soft Bottom Reach 43/44 completed.

10,79390H

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 45 Sand Canyon (PD T1307) T.G.: 4552-C1 Main Channel Inlet

Permit Requirements:

Mechanical clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.05 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

MECHANICAL EQUIPMENT ASSISTED LEW IN WADING TRASH-DEBRIS IN TO IONARD TRUCK. HAND CREW CLEAPED ALL VEGETATION WITHIN APPROVED LIMITS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

LOW WIND CONDITIONS, NO	DUST LEFT WOR	KSITE.
Project start date: 1/ 10 · 2-0	Project end da	ate: <u>11·10·20</u>
Completed by: Name: L.MONTES DE 0 4	Title: PWCL	Date: 11. 10. 20
Approved by: Name:	Title:	Date:

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: Hvdrology and Wate	r Quality	Trash/Debris Remo	oved (Tons) 20 BAGS	
Mitigation Measure #: 2				
Miligation Measure #. 2		Exolic veg. Remov	ed (Sq. Ft.)	
Location/Channel Reach#: Reach No Main Cha	o. 45 Sand Ca annel Inlet	anyon (PD T1307)	T.G.: 4552-C1	
Permit Requirements: Mechanical clearing will be performed to	o keep reach (clear of all vegetation.		
Impacts shall not exceed 0.05 acre. breast height or greater. Description of Activity/Method of Due to hydrological conditions in the following Best Management Practice	<i>No native tre</i> Implementa ne reach du were deeme	es shall be removed w tion: ring the vegetation cl ed to be applicable an	<i>vith a 2-inch diameter at</i> learing operations, the d were implemented:	
ESC1 Scheduling	ΓES	C2 Preservation of F	xisting Vegetation	
ESC21 Dust Control	ES	ESC22 Temporary Stream Crossing		
■ ESC31 Temporary Drains and Sw	ales	C50 Silt Fence		
ESC51 Straw Bale Barriers	ΓES	SC52 Sand Bag Barriers		
Disposition: / Mitigation measure	ure has beer	n implemented. No fur	ther action is required.	
Mitigation measure is not fully implemented. Further action is required. (Please explain below.)				
Mitigation measure is not in compliance. Further action is required. (Please explain below.) Comments/Revisions:				
Biologist on site: TYes	þ	Date:		
Biologist Comments/Instructions:				

Completed by: Name:	L.MONTES	DE	095
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Title: fuce	Date: 10.11 20		
Title:	Date:		

Approved by: Name: P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 45.doc
Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 45 Sand Canyon (PD T1307) T.G.: 4552-C1 Main Channel Inlet

Permit Requirements:

Mechanical clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.05 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL WORK	CONDUCTED	DUFING	PAULE	ott	
HOURS IN	COMPLIANCE	E with	LOGSL	NOISE	OF DINANCE.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

HEAVY	EQUIPMENT	UPGRADED	WITH	NOISE REDUCH	NG
EXAUS	T SYSTEM	TO MINIMI	LE NO	ISE LEVELS.	

Completed by: Name: L. MONTES D	Title: for	Date: 10.1.20
Approved by: Name:	Title:	Date:

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donb/W/RCTVITA NETAN							11.10.20	Date				
							<	Air	Re	Re	į	Los
					36 		K	H2O	ach Numb	ach Name	Miti	Angeles (
							<	Noise)cr 45	P.D	gation Mo	County Cl
						or farct.	NO INVASIVE VEGETATION	Comment		1307 INLET	nitoring Program	nannel Maintenance Project
							5	Initial				

Wok 6793904

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 46 Sand Canyon (PD T1307) T.G.: 4552-C1 Main Channel Outlet

Permit Requirements:

Mechanical clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.06 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater. If additional areas need to be impacted, the areas shall be quantified in the annual report and mitigation for impacts to vegetation will be required.

Description of Activity/Method of Implementation:

CONDUCTED MECHANICAL AND HAND WORK TO COMPLETE NORK ORDER HAND CREW CLEARED VEGETATION AND HEAN EQUIPMENT ASSISTED CREW IN LOADING OUT TRIMMINES. NATER TRUCK ON SITE TO SPRAN WATER AS NEEDED FOR DUST CONTROL

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

ALL HEANY TRUCKS WERE TARPED DURING TRANSPORTATION OF DEBRIS-TRIMMINGS TO LANDFILL.

Project start date: 1.4.20	Project end date: 11 4 2-0
Completed by: Name: ONTES De	Datitle: Pucce Date: 11.4.20
Approved by: Name:Marty Lemus #26938	Title: FCCS Date: 115/2020

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 10.79
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 46 Sand Ca Main Channel Outlet	nyon (PD T1307) T.G.: 4552-C1

Permit Requirements:

Mechanical clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.06 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater. If additional areas need to be impacted, the areas shall be quantified in the annual report and mitigation for impacts to vegetation will be required.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
ESC21 Dust Control	ESC22 Temporary Stream Crossing				
ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
□ ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: / Mitigation measure ha	is been implemented. No further action is required.				
Mitigation measure is (Please explain below	not fully implemented. Further action is required.				
Mitigation measure is not in compliance. Further action is required. (Please explain below.) Comments/Revisions:					
Biologist on site:	Date:				
1					
Completed by: Name: Orates Dr.O	cm Title: <u>PWCL</u> Date: <u>11.4.2</u> 0				
Approved by: Name:Mariy Lemus #2693	80 Title: FCCS Date: 11/5/2020				

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 46 Sand Canyon (PD T1307) T.G.: 4552-C1 Main Channel Outlet

Permit Requirements:

Mechanical clearing will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.06 acre. No native trees shall be removed with a 2-inch diameter at breast height or greater. If additional areas need to be impacted, the areas shall be quantified in the annual report and mitigation for impacts to vegetation will be required.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE OF DINANCE. ALL HEALY EQUIPMENT IS UPDATED WITH NOISE PEDUCING EXAUST SYSTEM TO MINIMIZE NOISE LEVELS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name;	1 Montes De	Oa Title: Puch	Date: <u>1. 4. 2.</u> 0
Approved by: Name: _	Marty Lemus #269380	Title: Fecs	Date: 11 5/2020

WO#6793171

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3 (PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND	HAND CLEAFING OF ALL VEGETATION WITHIN
APPROVED LIMITS	COMPLETED. TO KEEP DUST DOWN, WATER TRUCKS
SPRANED WATER	AS NEEDED FROM THE FIGHT OF WAY.

- Disposition: / Mitigation measure has been implemented. No further action is required.
 - ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 9.30.20

Project er	nd date:_	9.30.20

Completed by: Name:	LUISMONTES DE DAA	Title: <u>PwcL</u>	Date: 10.7.20
Approved by: Name: _	Marty Lemus #269380	Title: Fcc.S	Date: 10/7/20

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 20 BAES
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 😌
Location/Channel Reach#: Reach No. 47 Santa (PD 1733 unit 1)	Clara River T.G.: 4552-A3 TO 4551-J3

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site:	Date:
Completed by: Name: LUIS MONTES DE OGS	Title: <u>PWCL</u> Date: 10-7:2(
Approved by: Name:Marty Lemus #269380	Title: <u>FCS</u> Date: <u>1017</u> 20

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3 (PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK COMPLETED	DUKING Dr	WLIGHT H	JUKS IN	COMPLIA	VCE
WITH LOCAL NOISE	OF DINANCE	HEAVY	EQUIPME	INT AND	WORK
TRUCKS ARE EQU	IPPED WITH	PROPER	EXAUST	DEVICES	TO
MINIMIZE NOISE	LEVELS.				

Disposition: _/___ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 Completed by: Name: LUIS MONTES DE OCA
 Title: PulcL
 Date: 10-7:2-0

 Approved by: Name:
 Marty Lemus #269380
 Title: FLCS
 Date: 10/2/20

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WO\$ 10793435

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 48 Mint Cyn Channel T.G.: 4552-A1 TO 4551- J2 Between Sierra Hwy & Adon Ave

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Description of Activity/Method of Implementation:

CONDUCTED HAND LABOR TO LLEAR VEBETATION. BACKHOE AND GRADALL ASSISTED CREW IN LOADING OUT TRIMMINGS FROM REACH. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

IDYARD TRUCKS TARFED DURING TRANSPORTATION OF VEGETATION TO LANDFILL.

Project start date:	Project end da	nte: 11.3.20
Completed by: Name: A OCALLACITAN	Title: Pucc	_Date: <u> · 3· 2</u> 0
Approved by: Name: Marty Lemus #269380	Title: PCS	_Date: 11 5 2020

Compliance Verification Form

mpact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 200		
Location/Channel Reach#: Reach No. 48 Mint Cyn Channel T.G.: 4552-A1 TO 4551- J2 Between Sierra Hwy & Adon Ave			
Permit Requirements: Mechanical and hand clearing work will be perfe	ormed to keep reach clear of all vegetation.		
Description of Activity/Method of Implement Due to hydrological conditions in the reach d following Best Management Practice were deer	ation: uring the vegetation clearing operations, the ned to be applicable and were implemented:		
FESC1 Scheduling	ESC2 Preservation of Existing Vegetation		
FESC21 Dust Control	SC22 Temporary Stream Crossing		
ESC31 Temporary Drains and Swales	SC50 Silt Fence		
ESC51 Straw Bale Barriers	SC52 Sand Bag Barriers		
Disposition: / Mitigation measure has been implemented. No further action is required.			
Mitigation measure is not f (Please explain below.)	ully implemented. Further action is required.		
Mitigation measure is not (Please explain below.)	in compliance. Further action is required.		
Comments/Revisions:			
Biologist on site: Ves	Data		
	Date.		
Biologist Comments/Instructions:			
Λ			
Completed by: Name: A. OCALLOCHAN	Title: P. C. Data: 11.2.20		
Marty Lemus #269380			
Approved by: Name: Title: FCCS Date: 11/5/2022			

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 48 Mint Cyn Channel T.G.: 4552-A1 TO 4551- J2 Between Sierra Hwy & Adon Ave

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Description of Activity/Method of Implementation:

ALL WORK (ONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE) WITH LOLAL NOISE OFDINANCE. HEANY EQUIPMENT ON SITE, UPDATED WITH NOISE REDUCING EXANST SYSTEMS.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO WEEKEND WOLK CONDUCTED.		
		D 1 1 2 2 0
Approved by: Name: Marty Lemus #269380	Title: $\frac{PCS}{PCS}$	Date: $1 5/2020$

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	Date 1.2.20	Rea Air V	ach Name hch Numb	Ver 48 Voise	200 SALE NOP
		د	L	۷	verbals thanked a

Wo # 12793435

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 49 Mint Cyn. Channel T.G.: 4551- J2 Between Adon Ave & <u>Scherzinger Ln</u>

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

MELHANICAL AND HAND LABOR CONDUCTED TO CLEAR VEGETATION. BACHTOE ASSISTED CREW IN WADING OUT TRIMMINGS FROM FEACH. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED TO ELIMINATE DUST.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

10 YARD TRUCK .	TAPPED DUPING TRANSPORTATION C	F
JEGETATION 7	TO LANDFILL.	

Project start date: $\frac{10 \cdot 2.9 \cdot 2.0}{10}$	Project en	d date: 10 29 20
Completed by: Name: D'CAUNGIAN		Date: 10.29.20
Approved by: Name: Marty Lemus #269380	Title: FCCS	Date: 11 15/2020

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed	d (Tons) <u>4 · 14</u>
Mitigation Measure #: 2	Exotic Veg. Removed ((Sq. Ft.)
Location/Channel Reach#: Reach No. 49 Mint C Between Adon Ave	yn. Channel & <u>Scherzinger Ln</u>	T.G.: 4551- J2
Demult Demulation (

Permit Requirements:

1

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
,	

Disposition: / Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: 🦳 Yes

Approved by: Name:



Date:_____

Biologist Comments/Instructions:

Completed by: Name: Z	A. O'CALLAGHAN
Approved by: Name:	Marty Lemus #269380

Title: Puch	Date: 10 29 20
Title: Fccs	Date: 11 5 2020

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 49 Mint Cyn. Channel T.G.: 4551- J2 Between Adon Ave & Scherzinger Ln

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation. This process will be repeated annually during the dry season.

Description of Activity/Method of Implementation:

NORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOGAL NOISE OF DINANCE. HEAVY EQUIPMENT ON SITE UPDATED WITH NOISE REDUCING EXAUST SYSTEMS.

Disposition: /_ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

1		
Completed by: Name: A O'CALLAGHAN	Title: PWCL	Date: <u>]0·29·</u> 20
Approved by: Name:Marty Lemus #269380	Title: fccs	Date: 11 5 2020

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						L	Air	Re	Re)	Los
						c	H20	ach Numb	ach Name	Miti	Angeles (
						K	Noise	CI	MINT	gation M	County C
						PEACH. ON ASIVE VELETATION ON	Comment	49	CANHON MIDDLE ADON AVE	onitoring Program	hannel Maintenance Project
						5	Initial				



LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 51 Mint Cyn M.C.O. (PD 1894) T.G.: 4551- J3 TO H3 Santa Clara - Main Channel

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.9 acre (932 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL 1	AND HAND LABOR CONDUCTED TO COMPLETE
WORKORDE	R. ALL VEGETATION WITHIN PERMITTED
LIMITS REM	OVED. WATER TRUCK ON SITE TO
SPRAY WATE	FAS NEEDED FOR DUST CONTROL.
Disposition:	Mitigation measure has been implemented. No further action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisio	ons:
MILD WIND	O CONDITIONS. NO DUST LEFT JOBSITE.
Project start date:	4 2 9 2 0 Project end date: 11 4 2 0

Completed by: Name:	- Nontes De)	- Title: <u>PwC</u>	L Date: 11.4.2	-0
Approved by: Name: _	Marty Lemus #269	380 Title: FCCS	Date: 11/ ce/2	0

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Compliance Verifica	ation Form								
Impact Issue: Hydrology and Water Quality T	Trash/Debris Removed (Tons) ———								
Mitigation Measure #: 2	xotic Veg. Removed (Sq. Ft.) 🔶								
Location/Channel Reach#: Reach No. 51 Mint Cyn N Santa Clara - Main Chan	I.C.O. (PD 1894) T.G.: 4551- J3 TO H3 nel								
Permit Requirements: The channel clearing work will involve mechanical rem levee slope lining along the entire reach.	oval of all vegetation within 20 feet from the								
Impacts shall not exceed 0.9 acre (932 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.									
Description of Activity/Method of Implementatio Due to hydrological conditions in the reach during following Best Management Practice were deemed	n: g the vegetation clearing operations, the to be applicable and were implemented:								
ESC1 Scheduling	2 Preservation of Existing Vegetation								
ESC21 Dust Control	ESC22 Temporary Stream Crossing								
ESC31 Temporary Drains and Swales	ESC50 Silt Fence								
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers								
Disposition: Mitigation measure has been in	nplemented. No further action is required.								
Mitigation measure is not fully (Please explain below.)	implemented. Further action is required.								
Mitigation measure is not in (Please explain below.) Comments/Revisions:	compliance. Further action is required.								
Biologist on site:	Date:								
Completed by: Name: <u></u>	Title:PWCLDate:11.4.20Title:FeesDate:11/6/20								

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 51 Mint Cyn M.C.O. (PD 1894) T.G.: 4551- J3 TO H3 Santa Clara - Main Channel

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.9 acre (932 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

OLL WORK C		Alexante da De	
IN COMPLIAN	NCE WITH LOCA N	ALLETI HOUKS	F
ITEANLY EQU	IPMENT UPDATED WI	TH NOISE REDU	CINE
EXAUSTOYS	TEMS TO MINIMIZE	NOISE LEVELS) .
Disposition:	Mitigation measure has been im	plemented. No further a	ction is required.
	Mitigation measure is not fully i (Please explain below.)	mplemented. Further a	ction is required.
	Mitigation measure is not in c (Please explain below.)	ompliance. Further ac	tion is required.
Comments/Revisio	ons:		
Completed by: Nam	e: L'MONTESDE OC	Title: Pwcc	Date: 11.4.20
Approved by: Name	Marty Lemus #269380	Title: FCCS	Date: 11/6/20

#10793435

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name MINT CANYON DUTLET Reach Number 51

						11-4-20	Date
						<	Air
						K	H20
						<	Noise
		•			on reach.	NO INVASIVE VECETATION	Comment
			9 99			5	Initial

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WO# 679317/

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4 Main Channel Outlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION COMPLETED. WATER TRUCKS ON SITE TO SPRAN WATER AS NEEDED FOR DUST CONTROL.

Disposition: / Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 9.30.20

Project	end	date:	10	20
-				

Completed by: Name:	LUIS MONTES, DEC	Aitle:	Pull	Date:	10.7.20
Approved by: Name: _	Marty Lemus #269380	Title:	FCCS	_Date:	10/8/20

Compliance Verification Form

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons)

Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 54 Sant Main Channel Out	a Clara River (PD 832) T.G.: 4551-H3 TO H4 let
Permit Requirements: Mechanical and hand clearing work will be perfe	ormed to keep reach clear of all vegetation.
Impacts shall not exceed 0.31 acre.	
Description of Activity/Method of Implement Due to hydrological conditions in the reach d following Best Management Practice were deer	ation: uring the vegetation clearing operations, the ned to be applicable and were implemented:
FESC1 Scheduling	SC2 Preservation of Existing Vegetation
ESC21 Dust Control	SC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	SC50 Silt Fence
ESC51 Straw Bale Barriers	SC52 Sand Bag Barriers
Disposition: Mitigation measure has bee	en implemented. No further action is required.
Mitigation measure is not f (Please explain below.)	ully implemented. Further action is required.
Mitigation measure is not (Please explain below.) Comments/Revisions:	in compliance. Further action is required.
Biologist on site: ┌ Yes	Date:
Biologist Comments/Instructions:	
Completed by: Name: LUIS MONTES DE C	Title: $full$ Date: 10.720
Approved by: Name:Marty Lemus #269380	Title: FCCS Date: 10 B 20
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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4 Main Channel Outlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

WORK (C	JURIC	TED D	FING	DAVLIE	SHT	HOURS	IN	comp	LIANCE	
WITH L	OVAL	NOISE	OPDIN	ANCE.	NO	WEEKEN	GU	WORK	PERFORME	ED.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 Completed by: Name:
 ULS MONTES E OCA
 Title:
 PWCL Date:
 $(0 \cdot 7 \cdot 2)$

 Approved by: Name:
 Marty Lemus #269380
 Title:
 FCS Date:
 10/8/20

1 L1 EbLa #00

Los Angeles County Channel Maintenance Project Reach Name SANTA CLARA RIVER (40832) Mitigation Monitoring Program Reach Number 54

Initial	Z						
Comment	NO CHANGES REALT COMPLETED						
Noise	7						
H20	\sum						
Air	2	Ŧ					
Date	10/1/2020						

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 55 Santa Clara River Main Chan. T.G.: 4551-H3 TO H4 (PD's 910, 832, 1758, & 1562 unit 2)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 2.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECTANIGHL AND HAND CLEARING OF	ALL VEGETATION WITHIN APPROVED
LIMITS COMPLETED. WATER TRUCKS	ON SITE TO SPRAN WATER
AS NEEDED TO MINIMIZE DUST.	

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

HEAVY SUPER 10 TRUCKS TARPED DURING TRANSPORTATION OF NELETATION - DEBRIS TO LANDFILL.

Project start date: 9.30.20	Project end date: 10.15.20
Completed by: Name: HMONTES DE	06 Title: PNCL Date: 10.15.20
Approved by: Name:	59380 Title: FCCS Date: 10.19.20

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)				
Location/Channel Reach#: Reach No. 55 Santa (PD's 910, 832, 175	Clara River Main Chan. T.G.: 4551-H3 TO H4 8, & 1562 unit				
Permit Requirements: The channel clearing work will involve mec feet from the levee slope lining along the el	hanical removal of all vegetation within 20 ntire reach.				
Impacts shall not exceed 2.75 acre. Cle beyond the toe of the levee.	earing shall not extend more than 20 feet				
Description of Activity/Method of Implement Due to hydrological conditions in the reach of following Best Management Practice were dee ESC1 Scheduling	tation: during the vegetation clearing operations, the med to be applicable and were implemented: ESC2 Preservation of Existing Vegetation				
r f ESC21 Dust Control r f	ESC22 Temporary Stream Crossing				
ESC31 Temporary Drains and Swales	FESC50 Silt Fence				
ESC51 Straw Bale Barriers	□ ESC52 Sand Bag Barriers				
Disposition: Mitigation measure has be Mitigation measure is not (Please explain below.)	en implemented. No further action is required. fully implemented. Further action is required.				
Mitigation measure is no (Please explain below.) Comments/Revisions:	t in compliance. Further action is required.				
Biologist on site:	Date:				
Completed by: Name: L-MONTES DE OUS Approved by: Name:	Title: $fuch Date: 10.15.20 Title: FCCS Date: 10.19.20 $				

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 55 Santa Clara River Main Chan. T.G.: 4551-H3 TO H4 (PD's 910, 832, 1758, & 1562 unit

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 2.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DUKING DAVILIGHT HOURS IN COMPLIANCE WITH LODEL NOISE OF DINFINCE. EQUIPMENT AND HEAVY TRUCKS UPDATED WITH PROPER EXHAUST DEVICES TO MINIMIZE NUSE LEVELS.

Disposition: _/___ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	L'MONTES DE QUA	Title: Puc
Approved by: Name:	Marty Lemus #269380	Title: FCC

Title: full	Date:	10.1520
Title: <u>FCCS</u>	Date:	10.19.20

Los Angeles County Channel Maintenance Project Reach Name SANTA CLAPA PIVER Mitigation Monitoring Program 5 Reach Number

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Comment	NO INVASIVE VECENTION ON PARH	Marty Lemus #26938 0						
Noise	>	,						
H20	>		r					
Air	>			A second of construction control of construction of construction of the control of the contro				
Date	10-15-20			алланалаган ал				

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WO# 6793171

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 56 Santa Clara River T.G.: 4551-G1 (PD 1562 unit 2)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

HAND CLEAFING OF VEGETATION. HEAVY EQUIPMENT
ASSISTED CREW TO PICK UP TRIMMINGS AND GRADE SOIL.
WATER ON SITE TO SPRAY WATER AS NEEDED TO MINIMIZE DUST.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 9.30.20

Project end date: 9: 30:20

Completed by: Name:	WISMONTES DE OR	Title: PWCL	Date: 10.7.20
Approved by: Name:	Marty Lemus #269380	Title: RCS	Date: 10/7/20

Impact Issue: Hydrology and Water Q	uality Trash/Debris Removed (Tons) 20.65
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10 SOF
Location/Channel Reach#: Reach No. (PD 1562 ui	56 Santa Clara River T.G.: 4551-G1 hit 2)
Permit Requirements: The channel clearing work will involve r from the levee slope lining along the en	nechanical removal of all vegetation within 20 feet tire reach.
Impacts shall not exceed 0.47 acre. C toe of the levee.	learing shall not extend more than 20 feet beyond the
Description of Activity/Method of Imp Due to hydrological conditions in the following Best Management Practice we	plementation: reach during the vegetation clearing operations, the ere deemed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation

ESC21 Dust	Control	ESC22	Temporary Stream Crossing
ESC31 Tem	porary Drains and Swales	ESC50	Silt Fence
FESC51 Strav	w Bale Barriers	□ ESC52	Sand Bag Barriers

No

Disposition: ____ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Date:

Biologist Comments/Instructions:

Completed by: Name: LUIS MONTES DE OF	Title: Pull	_ Date: <u>10.7.2</u> 0
Approved by: Name. Marty Lemus #269380	Title: FLCS	_ Date: 10/20

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 56 Santa Clara River (PD 1562 unit 2)

T.G.: 4551-G1

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

WORK CONDUCTED DUFING DAYLIEHT	HOURS	IN COMPLIANCE	
WITH LOCAL NOISE OF DENANCE			
NO WEEKEND WORK CONDUCTED.			

Disposition: / Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	LUIS MONTES DE OPS	Title: <u>PWCL</u>	Date: 10.7.20.
Approved by: Name: _	Marty Lemus #269380	Title: FCS	Date: 10/7/20

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 57 Whites Cyn (PD T 704 M.C.I.) T.G.: 4551-G1

Permit Requirements:

Mechanical or hand clearing work will be performed to keep reach clear of all vegetation.

The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECTANICAL WO	FK CONDUCTED -	TO LOAD VE	EETATION I	IN TO DUMP
TRUCKS. HAND WO	RK COMPLETED	TO CLEAK T	EBRIS AND	VEGETATION
ON REACH WATER	R TRUCK ON SIT	E TO SPRAY	WATER AS	NEEDED
TO MINIMIZE DUS	ST.			

Disposition: _/__ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

HEANY TRUCKS TARPED DUFING TRANSPORTATION OF DEBRIS TO LANDFILL.

Project start date: 10 15.0_0 Project end date: 10.15.20

Completed by: Name: L-MONTES DE OG	Title: <u>Pulch</u>	Date: 10.15.20
Approved by: Name: Marty Lemus #269380	Title: Fccs	Date: 10/16/2020

Impact Issue: Hydrology and Water Quality	ty Trash/Debris Removed (Tons) <u>5.54 TONS</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 57 N	Whites Cyn (PD T 704 M.C.I.) T.G.: 4551-G1
Permit Requirements: Mechanical or hand clearing work will be pe	erformed to keep reach clear of all vegetation.
The vegetation that was allowed to rema maintenance activities.	ain in 1997 shall not be impacted during future
Description of Activity/Method of Implem Due to hydrological conditions in the read following Best Management Practice were o	nentation: The during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 Scheduling ESC21 Dust Control ESC31 Temporary Drains and Swales ESC51 Straw Bale Barriers Disposition: Mitigation measure has	 ESC2 Preservation of Existing Vegetation ESC22 Temporary Stream Crossing ESC50 Silt Fence ESC52 Sand Bag Barriers been implemented. No further action is required.
Mitigation measure is r (Please explain below.)	not fully implemented. Further action is required.
Mitigation measure is (Please explain below.) Comments/Revisions:	not in compliance. Further action is required.

Biologist Comments/Instructions:

No

Completed by: Name:	L.MONTES DE D GA	Title: <u>Puld</u>	Date: 10.15 2-0
Approved by: Name: _	Marty Lemus #269380	Title: Fccs	Date: 10/16/2020

Date: ____

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 57 Whites Cyn (PD T 704 M.C.I.) T.G.: 4551-G1

Permit Requirements:

Mechanical or hand clearing work will be performed to keep reach clear of all vegetation.

The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	L'MONTES DE QUA	Title: Pulch	_Date: 10.15.20
Approved by: Name:	Marty Lemus #269380	Title: Facs	Date: 10/16/2020

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 58 Santa Clara River (PD374) T.G.: 4551-G3 TO F3 U/S side old Soledad Cyn. Rd Bridge

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.95 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL NEGETATION WITHIN APPRONED LIMITS COMPLETED WATER TRUCKS ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS. ALL HEAVY TRUCKS TARPED JURING TRANSPORTATION OF DEBRIS TO LANDFILL.

 Project start date:
 9.30.20
 Project end date:
 10.15.20

 Completed by: Name:
 MONTES DE O GD Title:
 Pulch
 Date:
 10.15.20

 Approved by: Name:
 Marty Lemus #269380
 Title:
 Fcc.S
 Date:
 10.16.120

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 10 BAGS			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel Reach#: Reach No. 58 Santa U/S side old Soledad	Clara River (PD374) T.G.: 4551-G3 TO F3 I Cyn. Rd Bridge			
Permit Requirements: The channel clearing vegetation within 20 feet from the levee slope lin	work will involve mechanical removal of all ning along the entire reach.			
Impacts shall not exceed 0.95 acre. Clearing s toe of the levee.	hall not extend more than 20 feet beyond the			
Description of Activity/Method of Implementa Due to hydrological conditions in the reach du following Best Management Practice were deem	ation: uring the vegetation clearing operations, the ned to be applicable and were implemented:			
TESC1 Scheduling	SC2 Preservation of Existing Vegetation			
FESC21 Dust Control	SC22 Temporary Stream Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence			
□ ESC51 Straw Bale Barriers □ E	ESC52 Sand Bag Barriers			
Disposition: / Mitigation measure has bee	n implemented. No further action is required.			
Mitigation measure is not for (Please explain below.)	Illy implemented. Further action is required.			
Mitigation measure is not (Please explain below.) Comments/Revisions:	in compliance. Further action is required.			
	Defe			
Biologist on site: I Yes y No	Date:			
Biologist Comments/Instructions:				
Completed by: Name: LIMONTES DE DWS	Title: <u>PwcL</u> Date: 10.15.20			
Approved by: Name: Marty Lemus #269380	Title: FCCS Date: 10/16/2020			

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 58 Santa Clara River (PD374) T.G.: 4551-G3 TO F3 U/S side old Soledad Cyn. Rd Bridge

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.95 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK COMPLETED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE OFDINANCE HEALY EQUIPMENT UPDATED WITH PROPER EXHAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name: I	- MONTES DE OCA.	Title: Pwcl	Date: 10.15.20
Approved by: Name:	Marty Lemus #269380	Title: Fccs	Date: 10/16/2020

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					24		<	H20	ach Name ach Numt	Miti	Angeles (
							<	Noise	Der 5	gation M	County C
						REACH.	NO INVASIVE VEGETIATION ON	Comment	BAD CYN RD	onitoring Program	hannel Maintenance Project
							LW	Initial			

Noo # 6793171

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 60 Santa Clara River T.G.: 4551- F3 TO E2 (PD's 1339 & 374)

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

HHND	CLEARING	TO REN	YOVE ALL	VEGETAT	ION WIT	HIN	REACH	
Com	PLETED. ME	ECHANICE	H WORK	CONDUCT	ED TO	LOAD	HEAVIN	
TRU	KS. WATER	- TRUCKS	ON SITE	TO SPRAY	WATER	- AS	NEEDED	
FORI	DUST CONTR	UL.						

Disposition: _____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

TRANSPORTATION OF DEBRIS TO LANDFILL.

Project start date: 9.30.20	Project end da	te: <u>10.15.20</u>
Completed by: Name: LMONTES DEO PA	Title: <u>fulc</u>	Date: 10.15.20
Approved by: Name:	Title: Fcc_S	_ Date: 10 /16 /2020

Compliance Verification Form					
Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) 20 BAES				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)				
Location/Channel Reach#: Reach No. 60 \$ (PD's 1339 & 3	Santa Clara River T.G.: 4551- F3 TO E2 74)				
Permit Requirements: The channel clear vegetation within 20 feet from the levee slop	aring work will involve mechanical removal of all be lining along the entire reach.				
Impacts shall not exceed 1.50 acre. Cleari toe of the levee.	ing shall not extend more than 20 feet beyond the				
Description of Activity/Method of Implem Due to hydrological conditions in the read following Best Management Practice were o	nentation: The during the vegetation clearing operations, the deemed to be applicable and were implemented:				
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
ESC21 Dust Control	ÉSC22 Temporary Stream Crossing				
ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: // Mitigation measure has	been implemented. No further action is required.				
Mitigation measure is r (Please explain below.)	not fully implemented. Further action is required.				
Mitigation measure is (Please explain below.) Comments/Revisions:	not in compliance. Further action is required.				
Biologist on site: TNO TYes Date: Biologist Comments/Instructions:					

Completed by: Name:	L'MONTES DE OGA
Approved by: Name:	Marty Lemus #269380

Title: fulce	Date: 10.15.20
Title: Rcs	Date: 10 16 2020

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 60 Santa Clara River T.G.: 4551- F3 TO E2 (PD's 1339 & 374)

Permit Requirements The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK COMPLETED DURING DAVLIGHT HOURS IN
COMPLIANCE WITH LOGAL NOISE ORDINANCE.
ALL EQUIPMENT UPDATED WITH PROPER EXHAUST
DEVICES TO MINIMIZE NOWSE LEVELS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	L'MONTRES DE OCA	Title: PWCL	_Date: <u>10-15-</u> 20
Approved by: Name:	Marty Lemus #269380	Title: Fccs	Date: 10/14/2020

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				10. 20 1	Date Air	I	L
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			Acret	NO INVASIVE LECETATION ON	Comment	TA CUMPA PINER	nannel Maintenance Project onitoring Program
				F	Initia		

Wot 6793171

WO # 6793171

* 2

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2 D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICHL AND MAND CLEAPING OF ALL VELETATION COMPLETED WITHIN APPROVED LIMITS. WATER TRUCKS ON SITE TO SPRAN WATER AS NEEDED TO MINIMIZE DUST.

Disposition: \checkmark Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS, ALL TRUCKS THRPED DURING TRANSPORTATION OF DEBRIS-VECETATION TO LANDFILL.

Project start date: 9.79.70

Project end date: 10.15.20

Completed by: Name:	L'MONTES DE O CA	Title: fwcl	Date: 10.15.20
Approved by: Name: _	Marty Lemus #269380	Title: FCCS	Date: 10 19.20
	1		

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) ¹⁵ BAES				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)				
Location/Channel Reach#: Reach No. 61 Santa D/S New Soledad (a Clara River (PD 659) T.G.: 4551-E2 Canyon. Rd. Bridge				
Permit Requirements: The channel clearing vegetation within 20 feet from the levee slope lin	work will involve mechanical removal of all ing along the entire reach.				
Impacts shall not exceed 0.75 acre. Clearing si toe of the levee.	hall not extend more than 20 feet beyond the				
Description of Activity/Method of Implementa Due to hydrological conditions in the reach du following Best Management Practice were deem	ation: uring the vegetation clearing operations, the led to be applicable and were implemented:				
r / ESC1 Scheduling □ E	SC2 Preservation of Existing Vegetation				
✓ ESC21 Dust Control	SC22 Temporary Stream Crossing				
FESC31 Temporary Drains and Swales FE	SC50 Silt Fence				
ESC51 Straw Bale Barriers	SC52 Sand Bag Barriers				
Disposition: / Mitigation measure has bee Mitigation measure is not fu (Please explain below.)	n implemented. No further action is required. Illy implemented. Further action is required.				
Mitigation measure is not (Please explain below.) Comments/Revisions:	in compliance. Further action is required.				
Biologist on site:	Date:				
Completed by: Name: MONTES DE OGA	Title: \underline{PWCL} Date: $\underline{10.15.20}$ Title: \underline{FCCS} Date: $\underline{10.15.20}$				

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2 D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURINE DAVLIENT HOUKS IN COMPLIANCE
WITH LOGAL NOISE ORDINANCE. ALL HEAVY EQUIPMENT
AND SUPER 10 TRUCKS UPDATED WITH PRUPER EXHIPTUST
DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: / Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	L'MONTES DE GUA
	Marty Lemus #269380
Approved by: Name: _	

Title: <u>PwCl</u>	Date:	10.15.20
Title: <u>FCCS</u>	Date:	10.19.20

Los Angeles County Channel Maintenance Project Reach Name SULEDAD CANNON RD Mitigation Monitoring Program Ē Reach Number

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Comment	NO INVASINE VECETATION ON REACH	Marty Lemus #269380				•			
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WO# 6793603

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 63 Oak Ave Rd Drainage (CDR 523.081) T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEAKING OF ALL VEGETATION FROM BANK TO BANK COMPLETED. WATER TRUCK ON SITE TO SPRAN WATER AS NEEDED FOR DUST CONTROL

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Project start date:	10.1.20	
rojeci stari uale.		

Project end date: $10 \cdot 7 \cdot 20$

Completed by: Name	ANDY OCA	LUACHAN	Title: PWCL	Date: 10.2-20
Approved by: Name:	MARTY	LEmus	Title: FCC, S	_ Date: 10/6/20

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 9.71						
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)						
Location/Channel Reach#: Reach No. 63 Oak (CDR 523.081)	Ave Rd Drainage T.G.: 4551-C2						
Permit Requirements: The channel clearing work will involve mechaniz	ed removal of all vegetation bank to bank.						
Impacts shall not exceed 0.85 acre.							
Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:							
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation						
ESC21 Dust Control	ESC22 Temporary Stream Crossing						
ESC31 Temporary Drains and Swales	50 Silt Fence						
ESC51 Straw Bale Barriers	SC52 Sand Bag Barriers						
Disposition: Mitigation measure has bee Mitigation measure is not fu (Please explain below.) Mitigation measure is not	n implemented. No further action is required. Illy implemented. Further action is required.						
(Please explain below.) Comments/Revisions:							
Biologist on site: ☑No ☐Yes Biologist Comments/Instructions:	Date:						
Completed by: Name: ANDY OCALLACATAN	Title: \underline{PWU} Date: $\underline{10^{\circ} \mathcal{F} \mathcal{F}}$						
Approved by, Name. 7 there will	Title: Date:						

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 63 Oak Ave Rd Drainage T.G.: 4551-C2 (CDR 523.081)

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

WOKK CONDUCTED DURING DAVLIEHT HOUKS IN COMPLIANCE WITH LUCAL NOISE ORIDINANCE. ALL VEHICLES AND EQUIPMENT HAVE PROPER EXHAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: / Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name: ANIN OCALLACTION	Title: PWCL	Date:	10.9-9-0
Approved by: Name: MARTY LEMMS	Title: Fee S	Date:	10/6/20
No#6793603

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>OAK AVE Rd Deawlage</u> Reach Number <u>63</u>

 1	1	1	1		 	1			1
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							ŝt	7	H2O
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Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 64 Soledad Cyn Rd Drainage T.G.: 4551 - B2 (CDR523.071 D Outlet)

Permit Requirements:

The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.

Impacts shall not exceed 0.10 acre (8 feet wide by 577 linear feet).

Description of Activity/Method of Implementation:

HAND CLEAFING OF VEGETAT	ION COMPLETED. WATEL THUL
ON SITE TO SPRAY WATER AS	NEEDED FOR DUST CONTROL PURPOSES.
IMPACTS DID NOT EXCEED	0.10 ACE LIMIT.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 10 2 20

Project end date: 10	. 2	20	
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Completed by: Name:	ANDY OCALLA-CAPAN	Title:	Pulch	Date: 10.7.20
Approved by: Name: _	Marty Lemus #269380	Title:	FCCS	Date: 10 10 2020

Compliance Verification Form					
Impact Issue: Hydrology and Water Quality	ty Trash/Debris Removed (Tons) 50.14				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)				
Location/Channel Reach#: Reach No. 64 S (CDR523.071 D	Soledad Cyn Rd Drainage T.G.: 4551 - B2 Outlet)				
Permit Requirements: The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.					
Impacts shall not exceed 0.10 acre (8 feet v	vide by 577 linear feet).				
Description of Activity/Method of Implem Due to hydrological conditions in the read following Best Management Practice were o	tentation: In during the vegetation clearing operations, the deemed to be applicable and were implemented:				
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
ESC21 Dust Control	ESC22 Temporary Stream Crossing				
□ ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: Mitigation measure has	been implemented. No further action is required.				
Mitigation measure is r (Please explain below.)	not fully implemented. Further action is required.				
Mitigation measure is	not in compliance. Further action is required.				

(Please explain below.) **Comments/Revisions:**

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 64 Soledad Cyn Rd Drainage T.G.: 4551 - B2 (CDR523.071 D Outlet)

Permit Requirements:

The channel clearing work will involve clearing an 8-foot-wide path along the centerline of the channel. All vegetation will be removed by hand labor.

Impacts shall not exceed 0.10 acre (8 feet wide by 577 linear feet).

Description of Activity/Method of Implementation:

ALL WOKK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCE

Disposition: _/___ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	ANDY OCALLACHAN	Title: PWCL	Date: 10.2.20.
Approved by: Name: _	Marty Lemus #269380	Title: Fcc s	Date: 10/4/20

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10#6793171

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM **Compliance Verification Form**

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 66 Santa Clara River (PD 1538) T.G.: 4550-H2

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION WITHIN APPROVED LIMITS COMPLETED WATER TRUCK ON RIGHTOFWAY TO SPRAN WATER AS NEEDED TO MINIMIZE DUST.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 9.78.70

Project end date: 9. 26. 20

Completed by: Name:	AND OCALLHEHAN	Title: PWCL	Date: 10.2.20
Approved by: Name:	Marty Lemus #269380	Title: Fccs	Date: 10 7/20

Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons) 10 BACS						
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)						
Location/Channel Reach#: Reach No. 66	Santa Clara River (PD 1538) T.G.: 4550-H2						
Permit Requirements: The channel clearing will involve mechaniz slope lining along the entire reach.	red removal of all vegetation within 20 feet from the						
Clearing shall not extend more than 20 fee	t beyond the toe of the levee.						
Description of Activity/Method of Imple Due to hydrological conditions in the rea following Best Management Practice were	Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:						
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation						
ESC21 Dust Control	ESC22 Temporary Stream Crossing						
ESC31 Temporary Drains and Swales	□ ESC50 Silt Fence						
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers						
Disposition: / Mitigation measure ha	s been implemented. No further action is required.						
Mitigation measure is (Please explain below	not fully implemented. Further action is required.						
Mitigation measure is not in compliance. Further action is required (Please explain below.)							
Comments/Revisions:	Comments/Revisions:						
Biologist on site: No TYes	Date:						
Biologist Comments/Instructions:							

Completed by: Name:	AND OCALLAGITON	Title: Pwcl	Date:(0.2.20
Approved by: Name: _	Marty Lemus #269380	Title: FCCS	Date: 10 7 20

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 66 Santa Clara River (PD 1538) T.G.: 4550-H2

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK	CONDUCTED	DIRING	DHVLIGHT HOL	JES IN CO	MPLIANC	Ē
WITH LOGA	- NOISE OF DIM	ANCE. HE	FALLY EQUIPM	ENT AND	TRUCKS	
EQUIPPED	WITH PROPE	F EXHAU	ST DEVICES	TOMINI	NIZE N	USE
LEVELS.						

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 Completed by: Name:
 ANDY OCALLACITAN
 Title:
 PUCL
 Date:
 10 · 2 · 2 · 0

 Approved by: Name:
 Marty Lemus #269380
 Title:
 FLeS
 Date:
 10 / 2 / 20

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Wott 6793517

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 67 Bouquet Canyon Upper T.G.: 4461-D ! TO D6 (PD's 1201, 802, 700B, & 625B)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN
APPFONED PERMIT LIMITS. 10 - FOOT - WIDE STRIP OF VEGETATION
NEAR CENTER LINE LEFT IN PLACE. WATER TRUCKS SPRANED WATER
AS NEEDED TO MINIMIZE DUST.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILDWIND CONDITIONS, POOR AIR QUALITY WE TO

SUPPOUNDING WILDFIPES. SUPER-10 DUMP TRUCKS TARPED AT ALL TIMES DUPING TRANSPORTATION OF NEGETATION AND TRASH TO LANDFILL

Project start date:	9.1.20
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Project end date:		1.00
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Completed by: Name: LUIS MONTES DE OCHITLE:	PWCL	Date: 9.15.20
Approved by: Name: Marty Smur Title:	FCCS	_Date:

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>142.1</u> 4

Mitigation Measure #: 2

TOBACCO - TAINAFISK Exotic Veg. Removed (Sq. Ft.) 200

Location/Channel Reach#: Reach No. 67 Bouquet Canyon Upper T.G.: 4461-D1 TO D6 (PD's 1201, 802, 700B, & 625B)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC1 Scheduling	ESC2 Preservation of Existing Vegetation
I√ESC21 Dust Control	√ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: Mitigation measure ha	as been implemented. No further action is required.
Mitigation measure is (Please explain below	not fully implemented. Further action is required.
Mitigation measure is (Please explain below Comments/Revisions:	s not in compliance. Further action is required.
Biologist on site: ⊠No	Date:
Biologist Comments/Instructions:	
Completed by: Name: LUIS MONTES DE	Of Title: \underline{PuxL} Date: $\underline{9.1520}$
Approved by: Name: MARTY LEMUS	Title: FCCS Date: 9-17-2020

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 67 Bouquet Canyon Upper T.G.: 4461-D1 TO D6 (PD's 1201, 802, 700B, & 625B)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (1.33 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALLI	NOFIL D	ONE	DUKIN	JE DAYLIE	=HT	HOUFS	IN	COMPLIP	NCE
WITH	LOCAL	- NOIS	SE OKI	LINANCE.	ALL	VEHICL	ES	ANDEO	SUIPMENT
HAVE	PROPER	EXHI	FUST	DEVICES	S, TO	MINIM	UZE	NOISE	LEVELS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

DUPING EQUIPMENT CLOSSING AT URBANDALE BRIDGE EQUIPMENT SLOWED DOWN TO MINIMIZE NOISE LEVELS. A EVERY EQUIPMENT OPERATOR WAS MADE AWARE OF BAT ACTIVITY PRIOR TO COMMENCING ANY WORK NEAR AREA OF CONCERN.

Completed by: Name: LUIS MONTES DEO A	Title: PWCL	Date: $9.15.20$
Approved by: Name: MARTY LEMUS	Title: <u>Fccs</u>	_Date:

Wott 6793517

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Bouquer CANYON UPER Reach Number 67

Initial	ALL JE						\rightarrow			
Comment	No glyphics						Report Completers			
Noise	2	7	7	2	7	7				
H20	2	7	7	7	7	~	6			
Air	2	2	7	7	7	2				
Date	9-2-2020	9-3-2020	9-4-2020	9-8-2620	9-9-2020	9-10-2020	9-11-2020			

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116 # 16793517

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7 (PD's 722,773,1365,1065, & 451)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION
WITHIN APPRIVED PERMIT LIMITS.
WATER TRUCKS ON SITE TO SPRAN WATER AS NEEDED TO
MINIMIZE DUST. NO DUST LEFT JOBSITE.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND C	ONDITIONS, POO	FAIR QUALITY D	UE TO
SUFFOUNDING 1	WILDFIRES.	·	
Project start date: -	9.1.20	Project end	l date: <u>9:14:20</u>
Completed by: Name	: WIS MONTES DEI	DATITLE: PWCL	Date: <u>915-</u> 20
Approved by: Name:	MARTY LEMUS	Title: <u>FccS</u>	Date:2020

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Compliance Verification Form

Impact Issue	Hydrology	and	Water	Quality
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Trash/Debris Removed (Tons) 156.64 TOBACCO Exotic Veg. Removed (Sq. Ft.) 150

Mitigation Measure #: 2

Location/Channel Reach#: Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7 (PD's 722,773,1365,1065, & 451)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

	/				
FESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
FESC21 Dust Control	ESC22 Temporary Stream	Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: Mitigation measure ha	as been implemented. No further	action is required.			
Mitigation measure is (Please explain below	s not fully implemented. Further v.)	action is required.			
Mitigation measure i (Please explain below	is not in compliance. Further a v.)	action is required.			
Comments/Revisions:					
Biologist on site: ☑No ☐ Yes	Date:				
Biologist Comments/Instructions:					
Completed by: Name: LUIS MONTES T	DEOR Title: PWCL	Date: <u>9.15.</u> 20			
Approved by: Name: MARZTY LEnnus		Date: <u>9-17-2020</u>			

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7 (PD's 722,773,1365,1065, & 451)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Departmention of Activity/Mathead of Incular . ..

Description of Activity/wethod of Implementation	on:	
ALL WORK CONDUCTED DURING DAYLIG	HT HOURS IN CO	MPLITNCE
WITH LOCAL NOISE ORDINANCE.		
,		
Disposition: Mitigation measure has been i	mplemented. No furth	er action is required.
Mitigation measure is not fully (Please explain below.)	/ implemented. Furthe	er action is required.
Mitigation measure is not in (Please explain below.)	compliance. Further	action is required.
Comments/Revisions:		
NO WEEKEND WOKK CONDUCTED.		
		M99944484 - 5544 - 9997444 - 999744 - 999744 - 999744 - 999744 - 999744 - 999744 - 999744 - 999744 - 999744 - 99
Completed by: Name: <u>LVIS MONTES DE OGA</u>	Title: PWCL	Date: <u>9.15.∂</u> 0
Approved by: Name: MARTY LEMUS	Title: Fcc 5	Date:

WOLF 6793517

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name BUUGLET CANYON MUDDLE Reach Number 69

Initial	j.m.							at		
Comment	N O CHANGES							REPLA COMPLETES		
Noise	5	6	7	7	7	2	7	7		
H20	2	2		7	7		7	7		
Air	7	,	5	2	2	2	2	7		
Date	9-2-2020	0-3-2-620	3-4-2020	9-8-2020	202-6-6	9-10-2020	9-11-2020	9-14-2220		

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1 (PD's 544 & 345)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEAFING OF ALL VEGETATION WITHIN APPFOVED PERMIT LIMITS. WATER TRUCKS ON SITE TO SPRAY WATER AS NEEDED TO MINIMIZE DUST.

Disposition:	 Mitigation measure has been implemented. No further action is required.
	 Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
	_ Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revi	sions:
MILD WIND	CONDITIONS, POOR AIR QUALITY DUE TO SURFOUNDING
WILDFIRES. DURINE TRAN	SUPER 10 DUMP TRUCKS TAFPED AT ALL TIMES ISPORTATION OF VEGETATION AND TRASH TO LANDFILL.
Project start dat	e: 9.4.20 Project end date: 9.15.20
Completed by: Na	ame: LUS MONTES DEOCE Title: PWCL Date: 9.15.20
Approved by: Na	me: <u>MARTY LEMUS</u> Title: <u>FCCS</u> Date: $9-17-2020$

 $\label{eq:c:Users} $$ Output (C_1) Output (C_2) Output$

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>39.23</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 50^{106ACC}

Location/Channel Reach#: Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1 (PD's 544 & 345)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	FESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	□ ESC50 Silt Fence
FESC51 Straw Bale Barriers	└─ ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: ☑ No ☐ Yes Biologist Comments/Instructions:	Date:	
Completed by: Name: LUIS MONTES DECKA	Title: Juich	Date:15.20
Approved by: Name: MARTY LEMUS TH	Title: <u>Fccs</u>	Date:2

 $C: Users lmontes de oca \ Dot los \ October \ October\ October \ October \ October \ October \ Octob$

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 70 Bouquet Canyon Lower T.G.: 4550- J1 TO H-1 (PD's 544 & 345)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near the centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK C WITH LOCAL NO	ONDUCTED DURING DA	YLIGHT HOURS 1	N COMPLIANCE
Disposition:	Mitigation measure has been im Mitigation measure is not fully (Please explain below.) Mitigation measure is not in (Please explain below.)	plemented. No further implemented. Further compliance. Further	action is required. action is required. action is required.
Comments/Revisi	ons:		
Completed by: Nan Approved by: Name	10: WIS MONTESDEDONS 3: MARTY LEMMIS JU	Title: <u>Fics</u>	Date: <u>9-15-2-0</u> Date: <u>9-17-202</u> 0

WORF 6793517

Los Angeles County Channel Maintenance Project Reach Name Beyenet CANYON LOWER Mitigation Monitoring Program Reach Number 70

Mitial	4					
NO LUCISE DONE 9-14-20 THEN 9-14-20	NO CHANCES REACH COMPLETES				-	
Noise	7					
H20	2					
Air	3					
Date	0707/0111					

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WOLL 6793171

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 71 Santa Clara River T.G.: 4550-E2 Main Channel (PD1946)

Permit Requirements: The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

MECHANICIAL AND HAND CLEARING OF ALL VEGETATION WITTIN APPROVED LIMITS COMPLETED WATER TRUCK ON STRE TO SPRAN WATER AS NEEDED FOR DUST CONTROL

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 10. B. 20

Project end date: 10.13. 20

Completed by: Name: LMONTES DE OM	Title: PWCL	Date: 10.13.20
Approved by: Name: MARTY LEMU	S Title: Fees	Date: 10/13/2020

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Impact Issue: Hydrology and Water Quality	Trash/Debris Remove	d (Tons) 15 BACS					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)						
Location/Channel Reach#: Reach No. 71 Santa Main Channel (PD1	Clara River T.G.: 4550-E2						
Permit Requirements: The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.							
Clearing shall not extend more than 20 feet beyon	nd the toe of the levee.						
Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:							
ESC1 Scheduling	C2 Preservation of Exist	ing Vegetation					
SC21 Dust Control	C22 Temporary Stream Crossing						
ESC31 Temporary Drains and Swales	C50 Silt Fence						
ESC51 Straw Bale Barriers	C52 Sand Bag Barriers						
Disposition: Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.)							
Mitigation measure is not (Please explain below.)	in compliance. Further	action is required.					
Comments/Revisions:							
Biologist on site:							
Biologist Comments/Instructions:							
Completed by: Name: L. MONTES DE OLA	Title: PWCL	Date: 10.13.20					
Approved by: Name: MARTY LEMUS	Title: FCCS	Date: 10/13/2820					

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 71 Santa Clara River T.G.: 4550-E2 Main Channel (PD1946)

Permit Requirements: The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK COMPLETED DORINE DANLICHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCE.

Disposition: / Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	L'MONTES DE O CA	Title: PWCL	Date: 1013.20
Approved by: Name: _	MARTY LEMUS	Title: FCCS	Date: 10/13/2020

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Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2 (Smizer Ranch M.C.I.)

Permit Requirements: The channel clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.

Description of Activity/Method of Implementation:

HAND CLEAFING OF VEGETATION COMPLETED. UTILIZED POWER TOOLS TO TRIM TREES AND CLEAR BRUSH. TUNNEL PATH ESTABLISHED FOR WATER FLOW.

Disposition: / Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 10 · 14 · 20	Project end	date: 10 14 2-0
Completed by: Name: J. MONTES DEOC	Title: Pulch	Date: <u>10· (4·</u>) 0
Approved by: Name:Marty Lemus #269380	Title: Fccs	Date: 10/15/2020



compliance vernication Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2 (Smizer Ranch M.C.I.)

Permit Requirements: The channel clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.

Description of Activity/Method of Implementation:

ALL WOLF COMPLETED DUFING DAYLIGHT HOULS IN COMPLIANCE WITH LOCAL NOISE ORDINANCE.

Disposition: _/___ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: L'MONTES DE 0 95	Title: <u>full</u> Da	ate: 10. 14.20
Approved by: Name:	Title: <u>FCCS</u> Da	ate: 10/15/2020

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WO#679354/

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 75 South Fork Santa Clara River (PD's 725, 916, 1041, & 1300)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-feet wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEAFING TO REMOLE ALL VEGETATION WITHIN

APPROVED LIMITS. WATER TRUCKS ON SITE AT ALL TIMES TO SPRAY WATER

AS NEEDED FOR RUST CONTROL.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date:-	1.16.20	Project	end date: <u>9. 28</u> . 20
Completed by: Name	WIS MONTES DE OGA	Title: PUCL	Date: 10 · 7 - 2-0
Approved by: Name:	Marty Lemus #269380	Title: Fccs	Date: 10 7 20

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Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 274.45

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 200 TOBACCO - TAMARISK T.G.: 4640-F1 TO 450-G3

Location/Channel Reach#: Reach No. 75 South Fork Santa Clara River (PD's 725, 916, 1041, & 1300)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-feet wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FSC1 Scheduling	ESC2 Preservation of Existing Vegetation
FESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
<i>V</i>	

/

Disposition: _/ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 75 South Fork Santa Clara River (PD's 725, 916, 1041, & 1300)

Permit Requirements: The channel clearing work will involve mechanical clearing and grading of all vegetation bank to bank from Lyons Avenue to Orchard Village Road.

Mechanical grading and clearing of invasive vegetation from bank to bank will be performed from Orchard Village Road to the confluence with Newhall Creek.

Mechanical clearing of all vegetation will be done along the base of the concrete levee from the confluence with Newhall Creek to Magic Mountain Parkway. A 20-foot-wide strip will be maintained clear along the entire length of the levee and 45 degree grading of low-flow channels from side outlets to the center of the watercourse will also be maintained clear of all vegetation to minimize pounding and blockage of side outlet flows. A centerline watercourse low flow 12-feet wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALLWOX	HE CONDUCT	ED DUPINE	DAYLICHT	HOURS IN .	COMPLIANCE	
WITH LOG	AL NOISE OF	INANCE NOW	EEKENI) WO	FIC CONDUCT	石).	

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	LUIS MONTES DE OGA	Title: Puch	Date: 107.20
Approved by: Name: _	Marty Lemus #269380	Title: <u>FCCS</u>	Date: 10 h 20

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Comments/Revisions:		
Biologist on site: □No	Date: 9.16.20	
Biologist Comments/Instructions:	BIULUEIST COMPLETED WALK - THROUGH	
WITH SUPERVISORS PRIOF TO COMMENCING ANY WORK.		
Completed by: Name: UIS MONTES	DEOCA Title: PWCL Date: 10.7.20	
Marty Lemus #269380 Approved by: Name:	Title: FCCS Date: 10/7/20	

Los Angeles County Channel Maintenance Project Reach Name Savra Ceara Ruin South Fock Mitigation Monitoring Program Reach Number 75

Wo & 6793541

Initial MIL NO COLONDOES Comment PEACH Completed Noise 7 2 H20 7 Air 7 02/L1/6 9/25/20 9/18/20 9/23/20 Date 9/24/20 9/28/20 9/21/20 gleel to

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Wo#6793510

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 76 Pico Canyon (PD 813) T.G.: 4550-F7 TO G7

Permit Requirements: The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION FROM BANK TO BANK CONDUCTED. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL.

Disposition: \checkmark Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS, ALL TRUCKS TARPED

DURING TRANSPORTATION OF VEGETATION TO LANDFILL.

Project start date: 9.18.20

Project end date: 9.3.20

Completed by: Name:	ANDY OCALLAGHAN	Title: PWCL	_ Date: <u>9.73.</u> 20
Approved by: Name: _	Marty Lemus #269380	Title: FCCS	Date: 10-6-20

Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 150
Location/Channel Reach#: Reach No. 76	Pico Canyon (PD 813) T.G.: 4550-F7 TO G7
Permit Requirements: The channel clear vegetation using mechanical equipment.	ring work will involve bank-to-bank removal of all
Description of Activity/Method of Implem Due to hydrological conditions in the read following Best Management Practice were of	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: / Mitigation measure has	s been implemented. No further action is required.
Mitigation measure is (Please explain below.	not fully implemented. Further action is required.
Mitigation measure is (Please explain below.	not in compliance. Further action is required.
Comments/Revisions: EXOTIC VEGETATION REN	TOVED WAS TOBACCO TOPEE.
Biologist on site: ✓No ┌ Yes	Date:
Completed by: Name: AND OCALIACITA	\checkmark Title: <u>Pure</u> Date: <u>9.3.30</u>
Approved by: Name:Marty Lemus #26938	Title: FCCS Date: 10/6/2020

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 76 Pico Canyon (PD 813) T.G.: 4550-F7 TO G7

Permit Requirements: The channel clearing work will involve bank-to-bank removal of all vegetation using mechanical equipment.

Description of Activity/Method of Implementation:

NOISE ORDINANCE.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	ANDY OCALLACITAN	Title: Pulch	Date: 9.23.20.
Approved by: Name: _	Marty Lemus #269380	Title: FeeS	Date: 10/6/2020

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					9/23/20	9/22/20	9/21/20	Date		i.	
					7		5	Air	Rea	Rea	Los 1
					5	V	2	H20	ch Numb	Mitig Ich Name	Angeles (
					7	~	7	Noise	er 76	gation Mo	County Cl
	8.				Pertot Completion	T T	No CHANGES	Comment		Convince Program	nannel Maintenance Project
					4		mrc	Initial			

Work 6793510

Wo# 6793479

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 77 Newhall Creek Outlet T.G.: 4550-H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICIAL AND HAND CLEAFING OF ALL VEGETATION COMPLETED. WATER TRUCKS ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL PUPPOSES.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS. TRUCKS TRANSPORTING NECETATION TO LANDFILL TARPED.

Project start date: 9.23.20

Project end date: 9.73.20

Completed by: Name:	AND OCALLACITAN	Title: _	Pulch	Date:	9.2	3.0	20
Approved by: Name: _	Marty Lemus #269380	Title:	FCS	_Date:	10	62	000

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)	
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	
Location/Channel Reach#: Reach No. 77 Newhall Creek Outlet T.G.: 4550-H		
Permit Requirements: Mechanical equipment will be used to maintain th	e reach clear of all vegetation.	

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation			
FESC21 Dust Control	ESC22 Temporary Stream Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence			
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers			
Disposition: // Mitigation measure h	as been implemented. No further action is required.			
Mitigation measure i (Please explain below	s not fully implemented. Further action is required. <i>w</i> .)			
Mitigation measure (Please explain below Comments/Revisions:	is not in compliance. Further action is required. w.)			
Biologist on site: ☑No □ Yes	Date:			
Biologist Comments/Instructions:				
Completed by: Name: AND OCALLACE	Title: <u>PWCL</u> Date: <u>9.3.3</u> 0			
Approved by: Name: Marty Lemus #26938	Title: FLCS Date: 10/6/2010			
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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 77 Newhall Creek Outlet T.G.: 4550-H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.89 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MITH LOCAL NOISE OF DIMINGE. NO WEEKEND WORK CONDUCTED.

Disposition: // Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	ANDY	OCALIPGHAN	Title: PULL	Date: <u>1.23.20</u>
Approved by: Name: _	Marty Le	emus #269380	Title: Fccs	Date: 10/6/2020

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WOLE 679 3496

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No.78 Placerita Creek T.G.: 4550 H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

(Please explain below.)

MECHANIC	AL A	U) HAND CHEFIRING OF ALL VEGETATION COMPLETED.
WATER TR	UKC	IN SITE TO SPRAY WATER AS NEEDED FOR
DUST CON	TROL.	
Disposition:	/	Mitigation measure has been implemented. No further action is required.
		Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
		Mitigation measure is not in compliance. Further action is required.

Comments/Revisions:

Project start date: 9. 23.20

Project end date: 9.23-2-0

Completed by: Name:	ANDY OCALLITERAN	Title: PWCL	Date: 9.73.70
Approved by: Name: _	Marty Lemus #269380	Title: Fcc S	Date: 10 / 4 (2020)

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 4.69
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No.78 Placer	ita Creek T.G.: 4550 H6

Permit Requirements:

1

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site:	Date:	
Completed by: Name: Marty Lemus #269380	Title: <u>PWCL</u> Title: <u>FCES</u>	Date: <u>9 23</u> 20 Date: <u>10 10 20</u> 20

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No.78 Placerita Creek T.G.: 4550 H6

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.01 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WOKK CONDUCTED DURING PAYLIEHT HOURS IN COMPLIANCE WITH LOCAL NOISE OF DINANCE. HEAVY EQUIPMENT AND VEHICLES EQUIPPED WITH PROFER EXHAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: // Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	ANDY OCALLACHAN	Title: <u>hvCl</u>	Date: 1.2-3-2-0
Approved by: Name: _	Marty Lemus #269380	Title: Fcc_S	Date: 10 6 2020

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Wo#679354/

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 79 South Fork- Santa Clara River T.G.: 4550-G3 (Valencia Blvd Bridge Stabilizer)

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEDRING OF ALL VEGETATION WITHIN APPROVED LIMITS COMPLETED. WATER TRUCK SPRAYED WATER PRIOR TO COMMENCING ANY WORK TO MINIMIZE DUST.

Disposition:	/	Mitigation measure has b	been implemented.	No further action is required.
		Mitigation measure is no (Please explain below.)	ot fully implemented	. Further action is required
		Mitigation measure is r (Please explain below.)	ot in compliance.	Further action is required.
Comments/	Revisi	ons:		
Project star	t date:	10.9.20	Project er	nd date:10.9.20
Completed b	oy: Nan	ne: LMONTES DE QUA	Title:PWCL	Date: 109.20
Approved by	/: Name	Marty Lemus #269380	Title: FCCS	Date: 10 13 20 20

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Compliance Verif	ication Form
Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>5.45 to NS</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 20 Sq.Ft.
Location/Channel Reach#: Reach No. 79 South (Valencia Blvd Bridg	Fork- Santa Clara River T.G.: 4550-G3 ge Stabilizer)
Permit Requirements: Mechanical equipment will be used to maintain the re	ach clear of all vegetation.
The vegetation (0.02 acre) that was allowed to remain maintenance activities.	n in 1997 shall not be impacted during future
Description of Activity/Method of Implementa Due to hydrological conditions in the reach due following Best Management Practice were deeme	tion: ring the vegetation clearing operations, the ed to be applicable and were implemented:
ESC1 Scheduling	SC2 Preservation of Existing Vegetation
SC21 Dust Control	SC22 Temporary Stream Crossing
□ ESC31 Temporary Drains and Swales □ ES	SC50 Silt Fence
□ ESC51 Straw Bale Barriers □ ES	SC52 Sand Bag Barriers
Disposition: Mitigation measure has been	n implemented. No further action is required.
Mitigation measure is not fu (Please explain below.)	Illy implemented. Further action is required.
Mitigation measure is not (Please explain below.)	in compliance. Further action is required.
Comments/Revisions:	
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by: Name: L'MONTES & OGA	Title: PWCL Date: 10 9 20
Approved by: Name:Marty Lemus #269380 P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 79.doc	Title: FCC5 Date: 10/13/2020

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 79 South Fork- Santa Clara River T.G.: 4550-G3 (Valencia Blvd Bridge Stabilizer)

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED JURING DAVILIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE OF DINANCE. HEAVY EQUIPMENT AND WORK TRUCKS EQUIPPED WITH PROPER EXHAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: / Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
 (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 Completed by: Name:
 Marty Lemus #269380
 T

 Approved by: Name:
 T

Title: PUCL	Date: 10.9.20
Title: FccS	Date: 10 /13 /20 20

Reach Name ALENCIA BRIDGE STABILIZER Reach Number 79 Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Initial	4					24	
Comment	Poseft rearce temoved					4	
Noise	>						
H20							
Air							
Date	10.9.20						

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM **Compliance Verification Form**

Impact Issue: Air Quality

Wo#6793541

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 80 South Fork- Santa Clara River T.G.: 4550-F2 (PD's 1947 & 1946)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND	HAND CLEARING OF	JEGETATION WITHIN	APPHONED LIMITS
COMPLETED. WA	TER TRUCK ON SITE TO	SPRAY WATER AS NET	FDED TO
MINIMILE DUST.			
Disposition: _/	Mitigation measure has b	een implemented. No f	urther action is required.
	Mitigation measure is no (Please explain below.)	t fully implemented. For	urther action is required.
	Mitigation measure is n (Please explain below.)	ot in compliance. Fu	rther action is required.
Comments/Revisi	ons:		
Project start date:	10.13.20	Project end d	ate: 10-13-20
Completed by: Nam	ne: L'MONTES DE O PA	Title: PWCL	Date: 10.13.20
Approved by: Name	MARTY LEMUS	Title: <u>FCCS</u>	Date:

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed	(Tons)	FUBALS
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Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

Location/Channel Reach#: Reach No. 80 South Fork- Santa Clara River T.G.: 4550-F2 (PD's 1947 & 1946)

Permit Requirements:

*

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the toe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	\square ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Date: _____

Biologist Comments/Instructions:

Completed by: Name: L'MONTES DE OGS	Title: PWCL	Date: 10.13.2-0
Approved by: Name: <u>MARTY UEMUS</u> P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 80.doc	Title: FCCS	Date: 10/13/2020

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 80 South Fork- Santa Clara River T.G.: 4550-F2 (PD's 1947 & 1946)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the toe of the concrete levee along the entire length.

Clearing shall not extend more than 20 feet beyond the foe of the levee. The vegetation (2.05 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

WITH LOCAL NOISE ORDINANCE.	L WORK COMPLETED WITHIN DAYLIEHT HOURS IN COMPLIAN	SCE
NEW ENDER THE PROPERTY AND A DELIGER TO	TH LOCAL NOISE ORDINANCE.	
HEAVY EQUIPHENT IS EQUIPPED WITH PROPER EXHAUSI DEVICES 10	ANY EQUIPMENT IS EQUIPPED WITH PROPER EXHAUST DEVI	CES TO
LEDULE NOISE LEVELS.	DULE NOISE LEVELS.	

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name: LIMONTES DE O CA	Title:	Pull	Date:	10.
Approved by: Name: MARTY LEMUS	Title: _	Fecs	Date:	101

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10793442

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 82 Santa Clara River Main Channel (PD 2278)

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEAFING OF ALL VELETATION WITHIN APPRIVED LIMITS. WATER TRUCK SPRAYED WATER PRIOF TO COMMENCINE WORK TO MINIMIZE DUST. WATER TRUCK REMAIN ON SITE AND SPRAYED WATER AS NEEDED.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Project start date: 10.0.20	Proiect	end date: 10.8.20
Completed by: Name: 1: MONTES DE Acos	Title: PwcL	Date: 10.8.71)
Approved by: Name: Marty Lemus #269380 P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 82.doc	Title: FCES	Date: 10 9/2020

_ 1

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed	(Tons)				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)					
Location/Channel Reach#: Reach No. 82 Santa Clara River T.G.: 4550 - D Main Channel (PD 2278)						
Permit Requirements: Channel clearing work will involve mechanically remo the concrete levee along the entire reach.	oving all vegetation within 20	feet from the toe of				
Future maintenance activities shall involve mechanica beyond the toe of the levee, impacts within this reach	al means and shall not extend shall not exceed 0.40 acre.	d more than 20 feet				
Description of Activity/Method of Implementation Due to hydrological conditions in the reach due following Best Management Practice were deeme	t ion: ring the vegetation clearin ed to be applicable and we	ig operations, the re implemented:				
ESC1 Scheduling	C2 Preservation of Existin	g Vegetation				
ESC21 Dust Control	C22 Temporary Stream C	rossing				
ESC31 Temporary Drains and Swales ES	C50 Silt Fence					
□ ESC51 Straw Bale Barriers □ ES	C52 Sand Bag Barriers					
Disposition: Mitigation measure has been Mitigation measure is not fu	। implemented. No further a Ily implemented. Further a	action is required. action is required.				
(Please explain below.)						
Mitigation measure is not in compliance. Further action is required. (Please explain below.) Comments/Revisions:						
Biologist on site:	Date:					
Biologist Comments/Instructions:						
Completed by: Name: L.MONTES DE O.CA	Title-furce	Date: 10.8.20				
Approved by: Nemo: Marty Lemus #269380	Title: FCCS	Data iDlalara				
P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 82.doc		Date:				

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 82 Santa Clara River Main Channel (PD 2278)

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

COMPLIANCE WITH LOCAL NOISE OFDINANCE.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name: L	-MONTES DE 04A
Approved by: Name:	Marty Lemus #269380

Title: <u>PWUL</u>	Date: 0 .8.20
Title: Res	Date: 10/9/2020

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 86 Violin Canyon M.C.O. T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL	AND HAND CLEAR	ING OF ALL VER	ETATION			
TOP DIST CONT	DATER TRUCK UN SITT	e to opkny w	MTER AS NEEDED			
TUE DUST CONT	FUL.					
Disposition:	Mitigation measure has b Mitigation measure is no	een implemented. I t fully implemented	No further action is required. . Further action is required.			
	(Please explain below.)					
	Mitigation measure is not in compliance. Further action is required (Please explain below.)					
Comments/Revis	ions:					
Project start date	: 10.5.20	Project en	id date: 10. 7. 20			
Completed by: Na	me: L'MONTES DE OCA	Title: PWCL	Date: 10 7 20			
Approved by: Nam	Marty Lemus #269380	Title: FCCS	Date: <u>10 82020</u>			

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) <u>23.76</u>			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel Reach#: Reach No. 86	/iolin Canyon M.C.O. T.G.: 4369 - J7			
Permit Requirements: Mechanical equipment will be used to main	tain the reach clear of all vegetation.			
The vegetation (0.41 acre) that was allowe future maintenance activities.	ed to remain in 1997 shall not be impacted during			
Description of Activity/Method of Implen Due to hydrological conditions in the read following Best Management Practice were of	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:			
✓ESC1 Scheduling	ESC2 Preservation of Existing Vegetation			
ESC21 Dust Control	ESC22 Temporary Stream Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence			
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers			
Disposition: Mitigation measure has	s been implemented. No further action is required.			
Mitigation measure is (Please explain below.	not fully implemented. Further action is required.)			
Mitigation measure is not in compliance. Further action is required. (Please explain below.) Comments/Revisions:				
Biologist on site:	Date:			
Biologist Comments/Instructions:				
Completed by: Name: LIMONTES DE OR	Title: Pucc Date: 10.7.20			

Title: FCCS

Date: 10/8/2020

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Approved by: Name:

Marty Lemus #269380

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 86 Violin Canyon M.C.O. T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOLSE OF DINANCE. NO WEEKEND WORK CONJUCTED. HEAVN EQUIPMENT AND TRUCKS ARE EQUIPPED WITH PROPER EXHAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

_____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name:	L'MONTES DE DOS	Title: <u>fulce</u>	Date: <u>10-7-2-0</u>
Approved by: Name:	Marty Lemus #269380	Title PCC S	Date: 10/8/20
			Duto

WOB 10793485

Reach Name VIDLIN CANNON CHANNEL OUT OT Los Angeles County Channel Maintenance Project Mitigation Monitoring Program 9 0 Reach Number

Init:a	2	L						
Comment	WHER TRUCK ON SITE FOR	NO INVASUE VECETATION ON REACH	Reaced Completed		- -			-
Noise			>					
H20	$\overline{}$	>						
Air	>		>					
Date	10.5.20	10.6.20	0.7.20					

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6793490

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 87 Castaic-The Old Road Drainage T.G.: 4459-H5 (CDR 525.021D) Outlet

Permit Requirements:

The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.

Description of Activity/Method of Implementation:

HAND CLEARING OF ALL VEDETATION WITHIN ZO'LIMIT
WATER TRUCK WAS USED TO MINIMIZED DUST WHILE REMOVING.
VEDETATION, WATER TRUCK REMAINED ON SITE AT ALL TIMES
AND WAS USED AS NEEDED.
Disposition: Mitigation measure has been implemented. No further action is required.
Mitigation measure is not fully implemented. Further action is required.(Please explain below.)
Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisions:
ALL TRUCKS TARPED DURING TRANSPORTATION OF VEDERATION +

Project start date: 10-16-2020

Project	end	date:	10-16-2020
---------	-----	-------	------------

Completed by: Name:	EMILO	NIELES-ORD	ONEZTitle:	Puce	Date: 10-16-2020
Approved by: Name: _	Jose	Morillo	Title:	FCCS	Date: 10 16 2020

Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) <u>2-80</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) <u>30</u>
Location/Channel Reach#: Reach No. 87 ((CDR 525.021E	Castaic-The Old Road Drainage T.G.: 4459-H5
Permit Requirements: The channel clearing work will involve hand riprap outlet to the main watercourse, Casta	l cutting and clearing a 20-foot path from the aic Creek.
Description of Activity/Method of Implen Due to hydrological conditions in the read following Best Management Practice were of	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: V Mitigation measure has been implemented. No further action is required.

Mitigation	measure	is not	fully	implemented.	Further	action	is	required
(Please ex	xplain belo	ow.)						

_____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: VNo TYes

Date: _____

Biologist Comments/Instructions:

	10-16-2020
Approved by: Name: Jor Murillo Title: F.C.C.S. Date: [6 14 2	: [0 14 2020

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 87 Castaic-The Old Road Drainage T.G.: 4459-H5 (CDR 525.021D) Outlet

Permit Requirements:

The channel clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Completed by: Name: EMILIO NIERS-ORDINEZ	Title: Pula	Date: 10-16-2020
Approved by: Name:) 0:00 Murill.	Title: F, C, C, S	Date: 10/16/2020

P:\fldpub\WEST\HANSEN\FORMS\Mitigation Monitoring Program.doc 10-162020 Date Air 5 Mitigation Monitoring Program Reach Name <u>CDR 525,021</u> OUTLET Reach Number <u>87</u> H20 5 Noise 7 30 SF TAMARISK REMOVED + Comment MZO Initial

Los Angeles County Channel Maintenance Project

WO# 6793588

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM **Compliance Verification Form**

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 88 Hasley Canyon Upper T.G.: 4459 - C3 (PD T1496)

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

erty MECHANICIAL AND HAND CLEARING OF ALL VEGETATION WITHIN APPROVED UMITS COMPLETED. WATER THUL ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL.

Disposition: _/ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MODERATE WIND CONDITIONS. NE 21 MPH HEANN TRUCKS TAPPED DURING TRANSPORTATION OF VECETATION TO LANDFILL.

Project start date: 10.20. Project end date: 10.20.20

Completed by: Name:	L'MONTES DE O an	Title: Pulch	Date: 10.26.20
Approved by: Name: _	Marty Lemus #269380	Title: FCCS	Date: 10 27 20

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Impact Issue: Hydrology and Water Qualit	y Trash/Debris Removed (Tons)					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10059 Ft					
Location/Channel Reach#: Reach No. 88 H (PD T1496)	lasley Canyon Upper T.G.: 4459 - C3					
Permit Requirements: The channel clear remove all vegetation from bank to bank from feet downstream of Sharp Road to Sharp Red	ring work will involve mechanical equipment to om Sharp Road to 755 feet upstream. From 330 oad, hand clearing will be done.					
Impacts shall not exceed 0.42 acre (1085 lir	Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).					
Description of Activity/Method of Implem Due to hydrological conditions in the reac following Best Management Practice were d	entation: h during the vegetation clearing operations, the eemed to be applicable and were implemented:					
Scheduling	ESC2 Preservation of Existing Vegetation					
ESC21 Dust Control	ESC22 Temporary Stream Crossing					
ESC31 Temporary Drains and Swales	ESC50 Silt Fence					
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers					
Disposition: // Mitigation measure has	been implemented. No further action is required.					
Mitigation measure is r (Please explain below.)	not fully implemented. Further action is required.					
Mitigation measure is (Please explain below.)	not in compliance. Further action is required.					
Comments/Revisions:	<i>a</i>					
Biologist on site: No ryes Biologist Comments/Instructions:	Date:					
Completed by: Name: L.MONTES DEOW	Title: Puch Date: 10-26-20					
Approved by: Name:Marty Lemus #26938	Title: FCCS Date: 10/27/20					

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 88 Hasley Canyon Upper T.G.: 4459 - C3 (PD T1496)

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOGOL NOISE OF DINANCE. ALL HEANY EQUIPMENT UPDATED WITH PROPER EXAUST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

L'MONTES DE 0 42	Title: PWCL	Date:10-26
Marty Lemus #269380	Title: Fcc_S	Date: 10 27
	Marty Lemus #269380	Marty Lemus #269380 Title: Puck Title: Fcc.S

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WOH 6793588

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3 (PD T1496)

Permit Requirements:

The channel clearing work will involve hand labor clearing of alluvial sage scrub.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

HAND CLEARING TO REMOVE VEGETATION WITHIN APPROVED LIMITS COMPLETED. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED TO MINIMIZE DUST

Disposition: ___/ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MODERATE WIND CONDITIONS. NE 21MPH. HEAVY TRUCKS TAPPED DURING TRANSPORTATION OF DEBRIS TO LAWDFILL.

Project start date: 40.20.20

Project end date: 10.26.20

Completed by: Name:	LMONTES	DE O CA Title:-	PUCL	Date: 10.24.20
Approved by: Name: _	Marty Lemus	s #269380 Title:	Fecs	Date: 10 27/20

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Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>10 ORC</u> Exotic Veg. Removed (Sq. Ft.)			
Mitigation Measure #: 2				
Location/Channel Reach#: Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3 (PD T1496)				
Permit Requirements: The channel clearing work will involve hand labor	clearing of alluvial sage scrub.			
The vegetation (0.02 acre) that was allowed to refuture maintenance activities.	emain in 1997 shall not be impacted during			
Description of Activity/Method of Implementat Due to hydrological conditions in the reach dur following Best Management Practice were deeme	ion: ing the vegetation clearing operations, the ed to be applicable and were implemented:			
Image: Second				
Disposition: Mitigation measure has been Mitigation measure is not ful (Please explain below.) Mitigation measure is not i (Please explain below.)	implemented. No further action is required. Ily implemented. Further action is required. n compliance. Further action is required.			
Comments/Revisions:				
Biologist on site:	Date:			
Completed by: Name: L MONTES DE 0 d Marty Lemus #269380	Title: Product Date: 10.20 20 Title: Fccs Date: 10.27/20			

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 89 Hasley Canyon South Fork T.G.: 4459-C3 (PD T1496)

Permit Requirements:

The channel clearing work will involve hand labor clearing of alluvial sage scrub.

The vegetation (0.02 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN <u>COMPLIANCE WITH LOGAL</u> NOISE ORDINANCE: <u>ALL HEANY EQUIPMENT AND WORK TRUCKS ARE UPDATED WITH</u> <u>PROPER NOISE REDUCING EXAUST TO MINIMIZE NOISE LEVELS.</u>

Disposition: ____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

NO WORK-NOISE WAS STAFTED PHOP TO 7:00AM.

Completed by: Name:	DEOGS	Title: PWCL

Approved by: Name: Marty Lemus #269380

Title. <u>Public</u>	Date: 10 00 00
Title: Fcc.S	Date: 10 27 20

Data 10: Ha. 20

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Wo# 679 3588

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 90 Hasley Canyon Lower T.G.: 4459-C3 (North Fork RD T1496)

Permit Requirements: The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

HEANY EQUIPMENT AND HAND CLEPTING OF ALL VEGETATION WITHIN APPLONED LIMITS COMPLETEDS. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED FOR DUST CONTROL.

Disposition: _/___ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MODERATE WIND CONDITIONS. 20 MPH NE. 10 YARD TRUCK TARPED DURING TRANSPORTATION OF DEBRIS TO LANDFILL.

Project start date: –	10.26.20	Project en	d date: $10 \cdot 26 \cdot 20$
Completed by: Name:	L'MONTES DE O GA	Title: Puch	Date: <u>10 · Əto ·</u> Ə0
Approved by: Name: _	Marty Lemus #269380	Title: <u>FCS</u>	Date: 10/27/20

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Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) 10 BAGS
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 90 H (North Fork RE	Hasley Canyon Lower T.G.: 4459-C3 D T1496)
Permit Requirements: The channel clearing removal of vegetation. Portions of the channel earthen bank vegetated, clusters of mature growas left in November 1997.	ng work will involve hand clearing and mechanized bottom will be denuded of vegetation while leaving the owth in the channel bottom will remain to the level it
The vegetation (0.19 acre) that was allowed to maintenance activities.	o remain in 1997 shall not be impacted during future
Description of Activity/Method of Implem Due to hydrological conditions in the read following Best Management Practice were o	tentation: The during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
FESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	□ ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: Mitigation measure has	been implemented. No further action is required.
Mitigation measure is (Please explain below.)	not fully implemented. Further action is required.
Mitigation measure is	not in compliance. Further action is required.
(Please explain below.) Comments/Revisions:	
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by News 1, 10, 200 200	
Completed by: Name: <u>MONTED DE C</u>	Date: Wide: Date: Wide: 20
Approved by: Name:	Title: <u>Fecs</u> Date: <u>10/27/20</u>
Restriction in the second distribution in the strength of the second sec	

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 90 Hasley Canyon Lower T.G.: 4459-C3 (North Fork RD T1496)

Permit Requirements: The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK COMPLETED DURING DANLI GAT HOURS IN
COMPLIANCE WITH LOUDL NOISE OF DINANCE.
ALL HEAVY EQUIPMENT UPDATED WITH NOISE FEDUCING
EXAUST DEVICES, TO MINIMIZE NOISE LEVELS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	L'MONTES DE 045	Title: fuce	_ Date 10: 26.20
Approved by: Name: _	Marty Lemus #269380	Title: Fccs	Date: 10/27/20

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Wo# 6793370

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 91 San Martinez Chiquito T.G.: 4459-A6 TO B6 U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND LABOR TO REMOVE VEGETATION WITHIN PIPE & WIRE COMPLETED HEANY EQUIPMENT ASSISTED CREW IN LOADING THIMMINGS IN TO IOYARD TRUCK. WATER TRUCK SPRAYED WATER AS NEEDED TO MINIMIZE DUST.

Disposition: _/_ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

LON WIND	CONDITIONS, 10	YARD TRUCK	WAS TARP	ED
DURING TRAN	SPORTATION OF	DEBRIS-T	rimmings	ТО
LANDFILL.				

Project start date: 10.27.20

Project end date: 10. 2.7. 2.0

Completed by: Name:	Luis Montes De O	CATitle: PMCL	Date: 10 · 28 · 20
Approved by: Name: _	Marty Lemus #269380	Title: <u>fcc_s</u>	_Date: 10 28/20

Impact Issue: Hydrology and Water Quality	Trash/Debris Remo	oved (Tons)
Mitigation Measure #: 2	Exotic Veg. Remov	ed (Sq. Ft.) 2_0
Location/Channel Reach#: Reach No. 91 San M U/S of Keningston I	artinez Chiquito Rd	T.G.: 4459-A6 TO B6
Downit Dowingmonto		

Permit Requirements:

.

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

- Disposition: ____ Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

	D (
Biologist on site: No refes Biologist Comments/Instructions:	Date:	ç *	
Completed by Nemer Luis Nortes De D	Titles Que 201	Dotail01	
Approved by: Name:	Title: FCCS	Date: 10	28/20

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 91 San Martinez Chiquito T.G.: 4459-A6 TO B6 U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOGAL NOISE OF DINANCE HEAVY EQUIPMENT AND DUMP TRUCKS ARE UPDATED WITH NOISE REDUCING EXAUST SYSTEMS, TO MINIMIZE NOISE LEVELS.

Disposition: / Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required.
 (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

	. 1		
Completed by: Name:	Luis Montes De O ca	Title: TwcL	Date: 10. 28. 20
Approved by: Name: _	Marty Lemus #269380	Title: Fres	Date: 10/28/20

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NO \$6793370

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 92 San Martinez Chiquito T.G.: 4459-A6 TO B6 Unnamed tributary U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

REMOVAL OF ALL VEGETATION WITHIN PIPE AND WIFE COMPLETED. HEANY EQUIPMENT ASSISTED CHEW IN LOADING DEBLIG-THIMMINGS IN TO INVARD TRUCK. WATER ON SITE TO SPRAN WATER AS NEEDED FOR DUST CONTROL.

Disposition: / Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

LOW WIND	D CONDI	TIONS	,7MPH	NE.	IOVARD	TRUCK
TARPED J	JURING	TRANS	PORTATION	OF (DEBRIS-TR	ZIMMINGS
TO LANDF	ILL.					

Project start date:10 · 27 · 2_0	Project en	d date: 10 · 2 7. 20
Completed by: Name: Juis Nortes Dola	Title: Puch	Date: <u>10· 28</u> · 20
Approved by: Name:Marty Lemus #269380	Title: Fccs	Date: 10/28/20

Impact Issue: Hydrology and	d Water Quality	Trash/Debris Remo	oved (Tons) 20 BACS
Mitigation Measure #: 2		Exotic Veg. Remov	red (Sq. Ft.) 10 sq FE
Location/Channel Reach#: F	Reach No. 92 San M Jnnamed tributary l	artinez Chiquito J/S of Keningston R	T.G.: 4459-A6 TO B6
B			

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Biologist on site: No res

Date: _____

Biologist Comments/Instructions:

		,
Completed by: Name: JUS Nontes D. Va	Title: ful	Date: 10. 2.3. 2.0
Approved by: Name:	Title: FCCS	Date: 10/27/20

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1

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 92 San Martinez Chiquito T.G.: 4459-A6 TO B6 Unnamed tributary U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAVIGHT HOURS IN COMPLIANCE WITH LOGAL NOISE ORDINANCE. HEAVY EQUIPMENT AND DUMP TRUCKS UPDATED WITH NOISE REDUCING EXAUST SYSTEMS. Disposition: Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:** Date: 10.28-20 Completed by: Name: 4015 Title[.] Title: Fcc.S Date: 10/28/20 Marty Lemus #269380 Approved by: Name: ____

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W0 # 6793370

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM **Compliance Verification Form**

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 93 San Martinez Chiquito Keningston Rd to Val Verde Park

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

REMOVED ALL VEGETATION - TRAGH WITHIN PIPE A WIRE. HEAVY EQUIPMENT ASSISTED CREW WADING TRASH - TRIMMINGS INTO IONARD TRUCK. WATER FRUCK ON SITE TO SPRAN WATER AS NEEDED TO MINIMIZE DUST.

Disposition: Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

LOW WIND CONDITIONS. 10 YARD TRUCK TARPED DURING TRANSPORTATION OF DEBRIS TO LANDFILL.

Project start date: <u>10. 28. 20</u>

Project end date: <u>10 28 20</u>

Completed by: Name: <u>人</u>	is Montes De Ogn Title: PWCL	Date: _	0.38.30
Approved by: Name:	Marty Lemus #269380 Title: Fcc_S	Date:	10/29/2020

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>2</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 2059Ft
Location/Channel Reach#: Reach No. 93 San Keningston Rd to	Martinez Chiquito T.G.: 4459 - B6 Val Verde Park
Permit Requirements: The channel clearing work will involve remove channel using hand labor, but the embankmen	al of all the vegetation within the pipe and wire t vegetation will be left in place.
Description of Activity/Method of Implement Due to hydrological conditions in the reach of following Best Management Practice were dee	tation: during the vegetation clearing operations, the med to be applicable and were implemented:
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: Mitigation measure has be Mitigation measure is not (Please explain below.) Mitigation measure is no (Please explain below.)	een implemented. No further action is required. fully implemented. Further action is required. ot in compliance. Further action is required.
Comments/Revisions:	
Biologist on site:	Date:
Completed by: Name: Luis Montes De (Approved by: Name:	Title: \underline{PWCC} Date: $\underline{10.28.20}$ Title: \underline{FCCS} Date: $\underline{10}$ $\underline{29}$ $\underline{10}$ \underline

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Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 93 San Martinez Chiquito T.G.: 4459 - B6 Keningston Rd to Val Verde Park

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORIDINANCE. HEANY EQUIPMENT AND HEANY TRUCKS UPDATED WITH PROPER EXANST DEVICES TO MINIMIZE NOISE LEVELS.

Disposition: ____ Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

_ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Luis Montes Deloca

Approved by: Name: Marty Lemus #269380

Title: Pucc	Date: (0 · 2.8 · 20
Title: FCCS	Date: 10 22 2020

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NO# 6794865

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 95 Project No. 1224 T.G.: 4087 - H5

Permit Requirements:

The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN PIPE AND WIRE COMPLETED.

Disposition: / Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS. NO DUST LEFT JOBSITE. Project start date: 10.19.70 Project end date: 10.21.20 Completed by: Name: LMONTES DE Dass. Title: fulcl. Date: 10. 21. 20 Title: FCCS Date: 10/22/2020 Approved by: Name: _____Marty Lemus #269380

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>13. 67</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 95 Proj	ect No. 1224 T.G.: 4087 - H5
Permit Requirements: The channel clearing work will involve removal channel using mechanical equipment, but the em	l of all vegetation within the pipe and wire abankment vegetation will be left in place.
Description of Activity/Method of Implementat Due to hydrological conditions in the reach dur following Best Management Practice were deeme	tion: ring the vegetation clearing operations, the ed to be applicable and were implemented:
ESC1 Scheduling	C2 Preservation of Existing Vegetation
ESC21 Dust Control	C22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	C50 Silt Fence
ESC51 Straw Bale Barriers	C52 Sand Bag Barriers
Disposition: Mitigation measure has been	n implemented. No further action is required.
Mitigation measure is not fu (Please explain below.)	Illy implemented. Further action is required.
Mitigation measure is not i (Please explain below.)	in compliance. Further action is required.
Comments/Revisions:	
Biologist on site:	Date:
Biologist Comments/Instructions:	9
Completed by: Name: LMONTES DE O 95	Title: <u>10.2.20</u> Date: <u>10.2.20</u>
Approved by: Name: Marty Lemus #269380	Title: FCC S Date: 10/22/2020

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 95 Project No. 1224 T.G.: 4087 - H5

Permit Requirements:

The channel clearing work will involve removal of all vegetation within the pipe and wire channel using mechanical equipment, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL	work	COMPLETED	DUPING DA	MUIGHT HOURS	う
Com	PLIANO	E WITH LOC	CAL NOISE O	RDINANCE.	
ALL	HEANY	EQUIPMENT	AND TRUCKS	ARE UPDATED	WITH
NEW	EXHAUS	ST DEVICES T	O MINIMIZE	DUST.	

Disposition: /____ Mitigation measure has been implemented. No further action is required.

- Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name:	MONTES DE DAA	Title: Puch	Date: 10 21 20
Approved by: Name:	Marty Lemus #269380	Title: <u>Pecs</u>	Date: 10/22/20 20

WO # 679 4845

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Place 124 Reach Number • 95

Initial	LA	5	3					
Comment	NO INVASIVE VECETATION	on read						
Noise	>	>	>					
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Date	06.61.01	06.06.01	De je.01		and the second sec			

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Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 96 PD 1591 Calabasas T.G.: 599-G5

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

ALL POWER Tools SUCH AS, HEDGE TRIMMERS, WEED EATERS, ETC. HAVE ADDRED EXHMUST. Also, ALC JEGITATTON WAS HAND CONDED ON TO TRUCKS.

Disposition: _____ Mitigation measure has been implemented. No further action is required.

Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 10/6/20

Project end date: 10/3/20

Completed by: Name: RYAN AUEI	Title: CREW LEADERDate: 10/6/20
Approved by: Name:	Title: $FCC5$ Date: $10/14/20$

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Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)			
Mitigation Measure #: 2	Exotic Veg. Removed	(Sq. Ft.)		
Location/Channel Reach#: Reach No. 96 PD 159	91 Calabasas	T.G.: 599-G5		

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	□ ESC22 Temporary Stream Crossing
F ESC31 Temporary Drains and Swales	└ ESC50 Silt Fence
ESC51 Straw Bale Barriers	└ ESC52 Sand Bag Barriers

Disposition: ____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

ED AT END OF REACH	
Date:	
Title: <u>FCCS</u> Date: 10/6 Title: FCCS Date: 10/14	$\frac{1}{120}$
	Date: Date: Title: <u>CREW (EADER Date:</u> 10/6 Title: FCCS Date: 10/14

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 96 PD 1591 Calabasas T.G.: 599-G5

Permit Requirements:

The channel clearing will involve removing all vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.

Description of Activity/Method of Implementation:

ALL POWER TOOKS ARE FITTED WITH ADDROVED MUFFIERS,

Disposition: _____ Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:**

 Completed by: Name:
 Ryan Mueillo
 Title:
 Coen Leaver Date:
 Io/G/20

 Approved by: Name:
 Image: Information Title:
 FCCS
 Date:
 Io/I+4/20

Reach Name DRY CANYON (CAMPASHS) PD 1591 - VicasA Reach Number - # 91. Los Angeles County Channel Maintenance Project. Mitigation Monitoring Program

Initial R. M.	R.N.	N.Y.	N. N.	Z			
AT END STARTED							
iment is placed is Job was							
Com Bale w CH Beleac				pleren	Í		
STPAUL OF REAU	1			Con			
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Au.	7	7	7	7			
Date tololzo	02/2/01	10/8/20	10/9/20	10/13/20			

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Compliance Verification Form

6793663

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 97 PD 1982 T.G.: 4

T.G.: 4459- H5 TO H6

Permit Requirements: The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING. OF VEGETATION WITHIN 20' LIMIT-WATER TRUCK SPRAYED WATER PHOR TO VEGETATION REMOVAL TO MINIMIZED DUST, WATER TRUCK REMAINED ON SITE AND SPRAYED AS NEEDED.!!

Disposition: Mitigation measure has been implemented. No further action is required.

____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)

____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

MILD WIND CONDITIONS WITH CLEAR SKIES PURING VEDETATION REMOVAL

Project start date: 10-14-2020

Project end date: _____

Completed by: Name: NIELES-ORDNEZ	Title: PWCL	Date:	10-14	-2020
Approved by: Name: 1650 Minute P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 97.doc	Title: $F-C-CS$	_Date:	10/14	2020

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) -

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50

Location/Channel Reach#: Reach No. 97 PD 1982 T.G.: 4459- H5 TO H6

Permit Requirements: The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

ESC1 Scheduling		ESC2 Preservation of Existing Vegetation			
ESC21 Dust Contr	rol	ESC22 Temporary Stream Crossing			
ESC31 Temporary	/ Drains and Swales	ESC50 Silt Fence			
ESC51 Straw Bale	e Barriers	ESC52 Sand Bag Barriers			
Disposition:	Mitigation measure has	s been implemented. No further action is required.			
N (1	Mitigation measure is Please explain below.)	not fully implemented. Further action is required.			
Comments/Revision	/litigation measure is Please explain below.) is:	not in compliance. Further action is required.			
Biologist on site: 🏌	No TYes	Date:			
Biologist Comments	s/Instructions:				

	FUIDO		
Completed by: Name:	NIELES	-ORDON	A .
Approved by: Name: 3	lase	Micil	
Approved by. Marrie.	Vul	/ W 1	10
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Title:	PWCL	Date: 10-14-2020
Title:	F-C-CS.	_ Date: 10 11/2020

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 97 PD 1982 T.G.: 4459- H5 TO H6

Permit Requirements: The channel clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.

The Operator shall leave a total of 1.17 acre of vegetation. The vegetation (1.17 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Disposition: Mitigation measure has been implemented. No further action is required.
Mitigation measure is not fully implemented. Further action is required (Please explain below.)
Mitigation measure is not in compliance. Further action is required (Please explain below.)
Comments/Revisions:
WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE OPDINANCES, ALL EQUIPMENT EQUIPPED WITH
PROPER EXHAUST DELIKES

Completed by: Name: DMILO NIELES OFONEZ	Title: PWCL	Date:	10-14-2020
Approved by: Name: Upse Mrillo	Title: $F.C-C.S.$	Date:	10/14/2020

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10-14-2020 Date 5 Air Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>CASTAIC CREK – PD 1982</u> Reach Number 97 < H20 Noise 5 50 SF OF TAMARIAK RAMUED Comment HNO Initial

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 98 Walnut Creek - Channel Inlet T.G.: 599-E6

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

Crews cut the vegetation with hand tools and collected the cuttings for proper disposal.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Project start date: 10-1-20

Project end date: <u>10-31-20</u>

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: Dai Building Completed United Units of the Completed Units of Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (To	ns)	10
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. I	Ft.)	10
Location/Channel Reach#: Reach No. 98 Walnu	t Creek - Channel Inlet	T.G.:	599-E6

Permit Requirements:

The permit requires that we monitor water quality at both the upstream and downstream limits of the work when water is flowing.

Description of Activity/Method of Implementation:

Water was present at the site and water quality sampling was conducted before, during, and after our work at the site. The clearing takes place at the transition from a natural stream to a hard bottom stream. Water ponds just upstream of the concrete lined channel headwall. BMP's were installed just downstream to catch any cuttings or debris that may wash down as a result of our efforts. All clearing work in this reach was carried out by hand. During the work, water quality was monitored upstream, downstream, and within the work area.

Disposition: X Mitigation measure has been implemented. No further action is required.

- _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

No equipment used. Water samples were taken before, during, and after completed work

Biologist on site: 🗹 No 🛛 🖾 Yes

Date: _____

Biologist Comments/Instructions: None

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: <u>Dai Builden and approved by: Name</u>:

Title: Assoc. Civil Engr. Date: 6-9-2021

Title: Principal Engr Date: 7-8-2021

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 98 Walnut Creek - Channel Inlet T.G.: 599-E6

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts were undertaken, however noise was not an issue on this clearing project because everything was removed by hand crews and no equipment was utilized. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

- Disposition: X Mitigation measure has been implemented. No further action is required.
 - _____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

None

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: <u>Dai Builder Buil</u>

Title: <u>Assoc. Civil Engr.</u> Date: <u>6-9-2021</u>

Title: Principal Engr Date: 7-8-2021

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 99 Kagel Canyon

Permit Requirements:

Hand clearing work will be performed to keep all vegetation clear in this reach.

Description of Activity/Method of Implementation:

Mitigation measure has been implemented. No further action is required. Disposition: Mitigation measure is not fully implemented. Further action is required. (Please explain below.) Mitigation measure is not in compliance. Further action is required. (Please explain below.) **Comments/Revisions:** Project start date: Project end date: -Completed by: Name: MUCHAEL SECURATILE: P. Date: aunti Jorg Title: FCis Approved by: Name: , Date:

T.G.: 482- J5 TO J7

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: Hydrology and Water Qualit	y Trash/Debris Removed (Tons)				
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)				
Location/Channel Reach#: Reach No. 99 K	agel Canyon T.G.: 482- J5 TO J7				
<i>Permit Requirements:</i> Hand clearing work will be performed to kee	p all vegetation clear in this reach.				
Description of Activity/Method of Implem Due to hydrological conditions in the reac following Best Management Practice were d	entation: h during the vegetation clearing operations, the eemed to be applicable and were implemented:				
KESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
ESC21 Dust Control	FESC22 Temporary Stream Crossing				
□ ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
✓ ESC51 Straw Bale Barriers	VESC52 Sand Bag Barriers				
Disposition: Mitigation measure has	been implemented. No further action is required.				
Mitigation measure is r (Please explain below.)	not fully implemented. Further action is required.				
Mitigation measure is (Please explain below.)	not in compliance. Further action is required.				
Comments/Revisions: FROM WATER & VSED B	DEAD VEGETATION MP'S to Stop THE REST.				
Biologist on site: ⅣNO 「Yes	Date: 9/18/2020				
Biologist Comments/Instructions: N/A - REACH 99 chick RUM Group					
* NO WATER AT BEGI	NING OF REACH 99				
Completed by: Name: M. SEGUN	Title: $P.W.C.L.$ Date: $9/18/20$				
Approved by: Name: Mamilie Torre	Title: FCCS Date: 2/18/20				

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 99 Kagel Canyon

Permit Requirements:

Hand clearing work will be performed to keep all vegetation clear in this reach.

Description of Activity/Method of Implementation:

- Disposition: _____ Mitigation measure has been implemented. No further action is required.
 - Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
 - ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: Approved by: Name:

Title FILC Date: Title:

T.G.: 482- J5 TO J7

Los Angeles County Channel Maintenance Project Mittigation Monitoring Program Reach Name KACEL CANYON Reach Number 39 Reach Number

Initial	SV	P	0 F	SB	04C	NOR	P	D	YA	B	B	PA
Comment	155VES	195UES	155065	15SUES	Issues	Issues	Issues	25025	55005	155005	155005	issues
	No	No	No	No	No	NO	No	NO	No	NO	QN	Q(V
Noise	\times	\prec	×	~	\succ	~ ×	\times	×	\times	\times	\prec	\checkmark
H20												
Air		X	×	· ×	$\mathbf{\mathbf{x}}$	$\boldsymbol{\succ}$	\times	>		24	4	4
Date	9/18/20	9/19/20	9/23/20	9/22/20	9/29/20	04/02/6	10/6/20	10/7/20	· 0/8/01	10/15/20	07/1/01	10/19/20

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Kagel Canyon Reach Number Reach Number

Initial	R	RC	HC	B	B				
Comment	ISSUES	ISSUES	ISSUES	ISSUES	155005				
	NO	No	No	NO	NO				
Noise	\prec	\times	\times	\times	\prec				
H20									
Air	\times	X	\prec	\times	\prec				
Date	10/20/20	10/22/01	10/23/0	0/2/0/	W/29/00				

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Impact Issue: Air Quality

Mitigation Measure #: 1 Location/Channel Reach #: Reach No.100 Dry Canyon Calabasas T.G.: 559-G4

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

AIR QUALITY NOT AFFECTED. MOST VEGETATION REMOVAL WAS DONE BY HAND AND MINIMAL WORK DONE BY POWER TOOLS FITTED WITH APPROVED EXHAVST

Disposition: Mitigation measure has been implemented. No further action is
--

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Project start date: 12/19/20

Project end date:__iz/zz/za

Completed by: Name:	RUNAN Murillo	Title: CREW EADER	Date:	12/2/20
Approved by: Name: _	JR. Motano	Title: PCCS	Date:	12/23/20

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Remove	d (Tons) ———
Mitigation Measure #: 2	Exotic Veg. Removed	(Sq. Ft.)
Location/Channel Reach #: Reach No.100 Dry C	Canyon Calabasas	T.G.: 559-G4

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practice were deemed to be applicable and were implemented:

FESC1 Scheduling	FESC2 Preservation of Existing Vegetation							
	FESC22 Temporary Stream Crossing							
FESC31 Temporary Drains and Swales	F ESC50 Silt Fence							
I €SC51 Straw Bale Barriers	□ ESC52 Sand Bag Barriers							
Disposition: Mitigation measure has	s been implemented. No further action is required.							
Mitigation measure is (Please explain below.	not fully implemented. Further action is required.							
Mitigation measure is (Please explain below. Comments/Revisions: STRAW BALE PLACED AT E	not in compliance. Further action is required.							
Biologist on site: TYes TMO	Date:							
Biologist Comments/Instructions:								
Completed by: Name: Kyar Mineillo	Title: CREW GATER Date: 12/22/20							
Approved by: Name: JR Morena	Title: $FCCS$ Date: $12/23/20$							
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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #: Reach No.100 Dry Canyon Calabasas T.G.: 559-G4

Permit Requirements:

The channel clearing work will involve hand clearing all vegetation at the channel inlet. Bank vegetation will be left in place.

Description of Activity/Method of Implementation:

μ	lost	WORK	DONE	By HAN	UD. Pa	WER	Tools	USED	70	REMOVE
\mathbf{V}	EGE	TATION	J ARE	FITED	with	ADRO	VED M	1UFF/6	es.	

Disposition: _____ Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name	Run Muzillo
Approved by: Name:	JR Moreno

Title: $\underbrace{PEW} \underbrace{EADEE}_{Date:} \underbrace{12/22/20}_{Date:} \underbrace{12/23/20}_{Date:} \underbrace{12/23/20}_{$

Initial D.M. PLACED BOOM AT END OF BULL D.M. Los Angeles County Channel Maintenance Project Reach Name Der Converse Charles Comment Completed Reach Number +/00 Noise 7 Air H20 P AldpubAWESTAILANSENVE-ORMS/Mitipation Monitoring Program des 7 7 0772/21 12/19/2U Date

6794884

Impact Issue: Hydrology and Water Qua	ality Trash/Debris Removed (Tons)					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 100					
Location/Channel Reach #: Reach No. 108 – Pico Canyon Channel – PD 2528 T.G.: 4640-C1 to C7						
Permit Requirements : The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.						
Description of Activity/Method of Implementation: Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practices were deemed to be applicable and were implemented:						
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation					
ESC21 Dust Control	ESC22 Temporary Stream Crossing					
□ ESC31 Temporary Drains and Swales	ESC50 Silt Fence					
► ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers					
Disposition: <u> </u>	as been implemented. No further action is required.					
Mitigation measure is (Please explain below	s not fully implemented. Further action is required. v.)					
Mitigation measure is not in compliance. Further action is required. (Please explain below.)						
Comments/Revisions:						
Biologist on site: ₩No □ Yes	Date:					

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIELES-OROCHEL	Title: PWCL	Date: 10-191-2020
Approved by: Name:	Title: <u> </u>	Date: <u>11-2-20</u>

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach #:

Reach No. 108 – Pico Canyon Channel – PD 2528 T.G.: 4640-C1 to C7

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPUANCE WITH LOCAL WORK OPDINANCES / ALL EQUIPMENT AND TRUCKS EQUIPPED WITH PROPER EXHAUST DEVICES.

Disposition: V Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- ____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

Completed by: Name: BAILO NIELES- ORDONEZ	Title: PWCL	Date: 10-19-2020
Approved by: Name:	Title: <u>C S</u>	Date: <u>(1-2-20</u>

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #:	Reach No. 108 – Pico Canyon Channel – PD 2528
	T.G.: 4640-C1 to C7

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEDETATION WITHIN Z	0'
LIMIT WATER TRUCK WAS USED TO MINIMIZE DUST, WATER TRUC	4
REMAINED ON SITE TO SPRAY WATER AS NEEDED.	

Disposition: Mitigation measure has been implemented. No further action is required.

- ____ Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
- _____ Mitigation measure is not in compliance. Further action is required. (Please explain below.)

Comments/Revisions:

 MILD WIND CONDITIONS DURING MOWING.

 Project start date:

 10-19-2020

 Project start date:

 10-19-2020

 Project end date:

 Completed by: Name:

 Project by: Name:

 Project by:

 Project by:

 Name:

 Project by:

 Project by:

 Name:

 Project by:

 Project by:

10-19-2020 Date 5 Air Reach Name Pico canyon channed /PD 2528 Reach Number 108 H20 5 Noise 5 100 SF OF TAMARISK REMOVED Comment m ZO Initial

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

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Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)	
Impact Issue:	Air Quality	
Mitigation Measure No:	1	

Permit Requirements:

The maintenance plan for vegetation removal includes the usage of hand tools and mechanical equipment, and associated repair of riprap at locations designated for vegetation removal. Annual vegetation removal will remove invasive and exotic vegetation. California bulrush marsh will be mowed down to six-inches above the height of the grouted riprap. Any overgrown vegetation affecting the original capacity of the channel surface area will be maintained by pulling the roots outside the area with a long reach excavator. There will be no removal of root mass from existing 0.66 acres of California bulrush marsh in the upper section. No herbicide will be used. A boom with a silt curtain will be temporarily installed to prevent sediment from entering the water column.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was not mowed this year. All non-native vegetation was removed and hauled away using hand tools. Floating debris was collected by hand and disposed of properly. Minimal amount of dust was generated. Water trucks were used for dust suppression when appropriate.

Disposition:

✓	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 11/16/20

Project End Date: 11/23/20

iac Completed by: Name: Name Title: Carshich Title: Date: 4-26-2 Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	4.6

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was not mowed this year. All non-native vegetation was removed and hauled away using hand tools. A silt curtain was installed, and floating debris was collected and disposed of properly. All equipment was cleaned before leaving the site. BMP's including a floating boom with silt curtain were implemented. The following Best Management Practice were also deemed to be applicable and implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

1	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site:

Comments/Revisions:

Work was done avoiding water. Water Quality Sampling results provided in Annual Report. Work done above the OHWL.

you per	Approved by:
Name:	all 11
Title: 4	na Engra
Date: 7	115/2021
	Name: Title: Date: 7

Compliance Verification Form

Location/Channel Reach	Reach No. 112 (Ballona Creek-Upper)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted at Ballona Creek. Bulrush was not mowed this year. All non-native vegetation was removed and hauled away using hand tools. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

\checkmark	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

JGC Completed by: Náme: Name Title: Construction Superio Title: Date: 4-26-21 Date:



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 112 – BALLONA CREEK MPPER – FROM CONTINUED 11/16/20-11/23/20 TO 9D FWY DURING PHOTOS















LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION - SOUTH AREA REACH 112 - BALLONA CREEK UPPER - FROM GANTING UP 11/16/20-11/23/20 BMP's ORDER TO 90 FWY







DURING PHOTOS

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Ballona Creek</u> Reach Number <u>112</u>

			11/22/20	ar/19/11	11/18/20	11/17/20	11/11/20	Date
			000D	C1001>	GOOD	C1007	GOOD	Air
			(100 J	000D	Chooks	GOOD	6,00 D	H20
			Moderate	Mideleate	MIDERATE	MONGRATE	MODERATE	Noise
			cutting started at 7am and Boom was moved . Cutting was finished	CUTTING Began early 7 AM. BOOM Was moved to right Bank at NOON	BOOM WAS MOVED In afternoon	CUTTING BEGAN AT 7AM. BOOM WAS MOVED IN THE AFTERNEON	BOOM WAS SET EARLY. CUTTING BEGAN AROUND 7 AM on left Bank	Comment
			PN	PN	RN	Pr	アて	Initial

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)	
Impact Issue:	Air Quality	
Mitigation Measure No:	1	

Permit Requirements:

The annual maintenance activities (from PCH to Seaside St) shall include the mechanical removal of accumulated debris, mowing of vegetation growing on the banks and stream bed, and in-kind structural repair to restore facility to as-built condition. Weeds and grasses may be controlled by mowing or hand labor. No herbicide will be used and decontamination of all tools and equipment prior to entering and exiting the Reach is required.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Generation of dust was kept at a minimum during vegetation removal. Water trucks were used for dust suppression when appropriate.

Disposition:

. .

1	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 10/19/20

Project End Date: 12/01/20

Completed by:

Name:	Gregony SARpop
Title:	Superintendent
Date:	4/27/21

Jac Name; Title: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris Removed	12	

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted "before, during and after" during all clearing activity. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. All equipment was washed before leaving the site. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

1	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.

Completed by:

Name: Title: Date:

Approved by: Sor Name Title: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)	
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

. .

Mitigation measure has been implemented. No future action is required.
 Mitigation measure is not fully implemented. Further action is required. (Please explain below)
 The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

	Completed by:
Name:	. Ann ming
Title:	Superin Kendert
Date:	4/21/21

.

	U
70C	Approved by:
Name:	Selan Cha
Title:	Aven Ensurer
Date:	7/15/2021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 114 – LOS ANGELES RIVER 10/19/20-12/01/20

DURING PHOTOS



Oblogue 26, 2020 a. 9449-2644M +03 7648 - 16,2004 -03 7648 - 16,2004 -04 A.Long Boach, Lownicown Long Boach, 716





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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 114 – LOS ANGELES RIVER 10/19/20-12/01/20

BMP's





DURING PHOTOS





Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Los Angeles River Reach Number <u>114</u>

Date	Air	H20	Noise		Comment	Amout will
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10/21/20	moderate	Good	moderate	11	11	11
10/22/28	moderate	Good	moderate	11	()	11
10/24/20	moderate	Good	moderate	11	11	//
10/26/20	moderate	Good	moderate) ((1)	2
10/27/20	moderate	Good	moderate		11	11
11/2/20	moderate.	67001	moderate	<i>).1.</i>	1,1	. (
11/3/20	moderate_	Good	mode late	11	. 11	/
11/6/20	moderate	Good	moderat	11	11	2
11/9/20	moderate	Good	moderate	11	()	11
11/10/20	moderate	Grow d	mu derate	11	Н.	2

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Los Angeles River</u> Reach Number <u>114</u>

				-	~		2		/	
			-	2/1/20	1/30/20	11/25/20	1/18/20	1/16/20	1-12-20	Date
				moderate	moderate	mo derate	moderate	moderate	mo desate	Air
			3	Good	Good	Guod	Good	Good	6000	H20
	4			w Odera	moderies	moderat	modera	moderat	moderate	Noise
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				7:9	G. 4	6.4	G, U	6,4	n'S	Initial

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LAR SBC NOTES

11-2-20 - Today ground crew started cutting on Reach 114 From Anaheing st U/S to PCH. Today we had NO operators on reach 25 and 114. We have 8 crew members on Reach 114 cutting overgrowth on toe of channel between Pch and ANAheim.

11-3-20 - Today we have 1 operator on reach 25, Ground crew we have 11 crew members cutting on the of channel reach 114 Pch to Angheim, Ground crew completed slopes and the of channel.

11-5-20 - Today we have 2 operators on reach 25. No ground crow

11-6-20-Today we have 3 operators on reach 25 and 114. Today ground crew Started on reach 114 W/S u/S of Anaheim taking out Arundo. We had 12 crew members on the ground. 11-25-20 - Today we have two operators on fleo mowers on reach 114 d/s of pch.

11-30-20 - Today we have two operators on fleo movers on reach 114 d/s of PCh, mowing was completed on E/s reach 114 and 25.

12-1-20 - Today we have two operators on flee movers on reach 114 and 25, mowing is completed on both sides,

.

NESTING BIRD & BAL AVOIDANCE PROCEDURES SERIFICATION FORM

(To be conducted by trained, certified, and responsible staff <u>ONLY</u> on <u>maintenance and repair projects</u> that do NOT have Environmental Permits from CDFW, COE, and the RWQCB. Otherwise, request a qualified biologist.)

Only to be filled out during the nesting bird and roosting bat season (see dates below) or when an active nest is discovered

NAME/TITLE: Gilbert Ullog/crewleader	DATE: 11-2-20 TIME START: 7:30AMEND: 3:30 PM
PROJECT LOCATION: LA River	ACTIVITY TYPE: Vegetation control

Please check boxes and fill-in blanks below to demonstrate application of procedures to avoid potential impacts to nesting birds. Further information can be found in the *Nesting Bird Awareness Brochure* training materials. If project activities cease for greater than <u>72 hours</u>, an additional nesting bird sweep is required prior to re-initiating work activities.

SONG BIRDS AND/OR RAPTORS:

Step 1: Consider the Season

Yes 🖌 No 🗆

Will the work be conducted in the nesting season (March 15 to August 31)? If yes, follow Steps 2 through 5. If no, go down to the BATS Section.

Note: These dates may change slightly so confirm annually with your supervisor. Although nesting is not expected to occur outside of this season, nesting is protected regardless of when it occurs.

Step 2: Approach with Caution Yes No No While entering a new work area, was every reasonable effort used to minimize initial disturbance by approaching slowly and quietly when feasible?

Step 3: Stop and Watch Yes 🖌 No 🗌

When approaching the new work area, did staff stop momentarily and watch for any signs of bird nesting? **Note:** This activity involves visually scanning the trees, other vegetation, bare ground, natural or man-made crevices, eves of buildings, areas under bridges, or other potential nest sites. Indications of nesting may include: carrying nest building material, copulation, courting behavior (such as unusual fight patterns, mated birds, chasing or following closely in flight), sudden fly away when closely approached, or prolonged activity on or adjacent to nest.

Step 4: Search for Nest

No

Yes 🖌

If potential indicators of nesting were observed, did staff continue to make observations and search for likely nest locations?

Note: Search initially from a distance to avoid disturbance, then slowly approach a suspected location with caution.

Step 5: Establish Protective Buffer Yes No

If a nesting area was detected, was a buffer zone around the nest established and demarcated with flagging or other marking device?

Note: The buffer zone is typically 300 ft. radius from the nest for song birds and 500 ft. radius for raptors.

Step 6: Immediately Notification Yes No

After establishing a protective buffer, immediately notify the supervisor and any field staff working in the area to avoid/minimize disturbance of the active nest.

BATS:

- Considered the Season and the potential for bats to be present within or immediately surrounding the work area (Maternity Roosting Season is generally April through August). Schedule activities outside the bat maternity roosting season as much as possible.
 - Suitable habitat may include: palm trees, 1.5-inch-cracks in bridges and culverts, beneath tile shingles, and more
 - Carefully inspected area outside potential roost location for sign of presence such as guano (bat feces looks similar to rat feces).
- □ If bats were detected or potentially present: 1) immediately informed supervisor; and 2) avoided/minimized disturbance of the nesting area.

RESULTS:

- Nesting bird indicators and/or nest(s) were NOT detected.
- Nesting bird indicators and/or nest(s) were detected.

If a nest or roosting bats were detected, briefly describe observations made and actions taken below:

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Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)	
Impact Issue:	Air Quality	
Mitigation Measure No:	1	

Permit Requirements:

Maintenance activity includes a one-time woody vegetation removal with hand tools, mechanical equipment, and repair of displaced soil and rip rap along the levee. The annual maintenance activities shall include removal of accumulated debris, vegetation, woody plants by hand tools and/or mechanical equipment. A silt curtain containing a floating boom with a skirt below the water level will be installed to prevent sediment from entering the water column. Floating debris shall be collected and disposed of properly. To avoid loss of Bats maintenance activity shall be conducted between October 1 and February 28. A turtle mitigation plan shall be approved prior to annual maintenance activity can begin.

Description of Activity/Method of Implementation:

Proper woody vegetation removal methods were conducted along the San Gabriel River. Vegetation, trees, and shrubs were removed using mechanical equipment and hand tools. Levee repair will be conducted Spring 2021-22. Generation of dust was kept at a minimum during vegetation removal. Water trucks were used for dust suppression when appropriate.

Disposition:

√	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
_	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See.Attached Daily Field Logs.

Project Start Date: <u>10/01/20</u>	Project End Date: 01/07/21
Completed by:	161 De Approverthuis
Name:	Name: Martice Dy.
Titles Vor mictur. Superinten Sent	Title: the England
Date: 00//26/2021	Date: 7/15/21

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris Removed	141	

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Proper woody vegetation removal methods were conducted along the San Gabriel River. Vegetation, trees, and shrubs were removed using mechanical equipment and hand tools. Levee repair will be conducted Spring 2021-22. A silt curtain was installed, and floating debris was collected and disposed of properly. All equipment was cleaned before leaving the site. BMP's including a floating boom with silt curtain were implemented. The following Best Management Practice were also deemed to be applicable and implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

1	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done avoiding water. Water Quality Sampling results provided in Annual Report. Biologist ensured staying above OHWL and implantation of Turtle Mitigation Plan.

Completed by Approved by: Name? Name: Title: Title: Date: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)	_
Impact Issue:	Noise	
Mitigation Measure No:	3	

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper woody vegetation removal methods were conducted along the San Gabriel River. Vegetation, trees, and shrubs were removed using mechanical equipment and hand tools. Levee repair will be conducted Spring 2021-22. A silt curtain was installed, and floating debris was collected and disposed of properly. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

√	Mitigation measure has been implemented. No future action is required.	-
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)	-
	The mitigation measure is not in compliance. Further action is required. (Please explain below)	

Comments/Revisions:

. Jac Completed by Name: Name: Title: Marintonto Title: Date: Date: 02 1021 フル

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 115 – SAN GABRIEL RIVER 10/01/20-01/07/21 DURING PHOTOS











LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 115 – SAN GABRIEL RIVER 10/01/20-01/07/21 DURING PHOTOS









LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 115 – SAN GABRIEL RIVER 10/01/20-01/07/21 DURING PHOTOS







LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 115 – SAN GABRIEL RIVER 10/01/20-01/07/21 BMP's





REACH 115 October-December 2020

October 1

Starting Location: Down Stream of Willow St. Confluence to 405 fwy.

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Rene Sanchez (Maintenance, Class A Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Steve Garcia (Maintenance Worker)
- 7. Israel Vargas (Laborer)
- 8. Joe Hall (Temp. Laborer)

Biologist

Christian

Equipment

- 3-work trucks
- 2-10 yard trucks
- Backhoe

October 2

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- .3. Edgar Mazariegos (Truck Driver)
 - 4. Rene Sanchez (Maintenance, Class A Driver)
 - 5. Chuck Hidalgo (Maintenance Worker)
 - 6. Henry Aregon (Maintenance Worker)
 - 7. Israel Vargas (Laborer)
 - 8. Joe Hall (Temp. Laborer)

Biologist

Lindsay

Equipment

- 4-work trucks
- 2-10 yard trucks

Backhoe

October 5

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Rene Sanchez (Maintenance, Class A Diver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Dave Aparicio (Maintenance Worker)
- 7. Johnny Castillo (Maintenance Worker)
- 8. Arthur Lopez (Laborer)
- 9. Israel Vargas (Laborer)
- 10. Joe Hall (Temp. Laborer)

Biologist

Christian

Equipment

- 4-work trucks
- 2-10 yard trucks
- Backhoe

October 6

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- / 4. Rene Sanchez (Maintenance, Class A Driver)
 - 5. Chuck Hidalgo (Maintenance Worker)
 - 6. Dave Aparicio (Maintenance Worker)
 - 7. Johnny Castillo (Maintenance Worker)
 - 8. Steve Garcia (Maintenance Worker)
 - 9. Arthur Lopez (Laborer)
 - 10. Israel Vargas (Laborer)
 - 11. Joe Hall (Temp. Laborer)

Biologist

Lindsay

Equipment

- 5-work trucks
- 2-10 yard trucks
- Backhoe

October 7

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Rene Sanchez (Maintenance, Class A Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Dave Aparicio (Maintenance Worker)
- 7. Johnny Castillo (Maintenance Worker)
- 8. Steve Garcia (Maintenance Worker)

9. Arthur Lopez (Laborer)

- 10. Israel Vargas (Laborer)
- 11. Joe Hall (Temp. Laborer)

Biologist

Steven

Equipment

- 5-work trucks
- 2-10 yard trucks
- Backhoe

October 8

Contractor GWAS

Cutting down palm trees

October 13

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)

• Jonathan

Equipment

- 3-work trucks
- 1-10 yard
- Backhoe

October 14

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)

Biologist

Lindsay

Equipment

- 3-work trucks
- 1-10 yard
- Backhoe

October 15

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
 - 3. Edgar Mazariegos (Truck Driver)
 - 4. Chuck Hidalgo (Maintenance Worker)
 - 5. Arthur Lopez (Laborer)

Biologist

• Trevor

Equipment

- 3-work trucks
- 1-10 yard truck
- Backhoe

October 19

Crew

- 1. Miguel Mendoza Jr.(Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Rene Sanchez (Maintenance Worker, Class A Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Israel Vargas (Laborer)
- 7. Joe Hall (Temp. Laborer)

Biologist

• Lindsay

Equipment

- 3-work trucks
- 2-10 yards
- Backhoe

October 21

Crew

- 1. Miguel Mendoza Jr.
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Joe Hall (Temp. Laborer)

Biologist

Christian

Equipment

- 3-work trucks
- 1-10 yard truck
- Backhoe

October 26

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Israel Vargas (Laborer)
- 6. Arthur Lopez (Laborer)
- 7. Joe Hall (Temp. Laborer)

Sarah

Equipment

- 4-work trucks
- 1- 10 yard truck
- Backhoe

October 27

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Joe Hall (Temp. Laborer) 、

Biologist

Lindsay

Equipment

- 3-work trucks
- / 1-10 yard truck
 - Backhoe

October 28

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)

• Christian

Equipment

- 2-work trucks
- 1-10 yard truck
- Backhoe

October 29

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)

Biologist

Christian

Equipment

- 3-work trucks
- 1-10 yard truck
- Backhoe

November 3

Contractor GWAS

Cutting down palm trees

Biologist

Christian

November 5

Contractor GWAS

• Cutting down palm trees

Biologist

Christian

November 9

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)

Biologist

• Lindsay

Equipment

- 3- work trucks
- 1- 10 yard truck
- Backhoe

November 10

Crew

- 1. Miguel Mendoza Jr (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)

Biologist

Sarah

Equipment

- / 3-work trucks
 - 1-10 yard truck
 - Backhoe

November 16

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)

- 5. Arthur Lopez (Laborer)
- 6. Israel Vargas (Laborer)
- 7. Joe Hall (Temp. Laborer)

Sarah

Equipment

- 4-work trucks
- 1- 10 yard truck
- Backhoe

November 17

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- -4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Israel Vargas (Laborer)
- 7. Joe Hall (Temp. Laborer)

Biologist

• Trevor

Equipment

- 4-work trucks
- 1- 10 yard truck
- Backhoe

November 18

Crew

~ *

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Israel Vargas (Laborer)
- 6. Joe Hall (Temp. Laborer)

Biologist

Jonathan

Equipment

- 3-work trucks
- 1- 10 yard truck
- Backhoe

November 19

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Israel Vargas (Laborer)
- 7. Tommy Atensio (Laborer)
- 8. Joe Hall (Temp. Laborer)
- 9. Ruben Viveros (Temp. Laborer)

Biologist

Steve

Equipment

- 5-work trucks
- 1- 10 yard truck
- Backhoe

November 30

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Chuck Hidalgo (Maintenance Worker)
- 4. Arthur Lopez (Laborer)
- 5. Joe Hall (Temp. Laborer)

Biologist

Sarah

Equipment

3-work trucks

Backhoe

December 1

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Chuck Hidalgo (Maintenance Worker)
- 4. Arthur Lopez (Laborer)
- 5. Joe Hall (Temp. Laborer)

Biologist

Sarah

Equipment

- 3-work trucks
- Backhoe

December 2

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Chuck Hidalgo (Maintenance Worker)
- 4. Arthur Lopez (Laborer)
- 5. Joe Hall (Temp. Laborer)

Biologist

Trevor

Equipment

/ • 3-work trucks

•

Backhoe

December 3

• Work location moved due to poor air quality, due to fires.

December 7

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Matt Goode (Truck Driver)
- 4. Arthur Lopez (Laborer)
- 5. Joe Hall (Temp. Laborer)

Christian

Equipment

- 2-work trucks
- 1-10 yard truck
- Backhoe

December 8

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Matt Goode (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Lewis Valero (Maintenance Worker)
- 6. Arthur Lopez (Laborer)
- 7. Ruben Viveros (Temp. Laborer)

Biologist

Christian

Equipment

- 4-work trucks
- 1-10 yard truck
- · Backhoe

December 9

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Matt Goode (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Lewis Valero (Maintenance Worker)
- 6. Arthur Lopez (Laborer)

- 7. Joe Hall (Temp. Laborer)
- 8. Ruben Viveros (Temp. Laborer)

Christian

Equipment

- 4- work trucks
- 1- 10 yard truck
- Backhoe

December 10

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Matt Goode (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Tommy Atensio (Laborer)
- 7. Joe Hall (Temp. Laborer)

Biologist

Sarah

Equipment

- 4-work trucks
- 1- 10 yard truck
- Backhoe

December 16

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Edgar Mazariegos (Truck Driver)
- 3. Matt Goode (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Tommy Atensio (Laborer)
- 7. Joe Hall (Temp. Laborer)

Trevor

Equipment

- 4-work trucks
- 2-10 yard trucks
- Backhoe

December 17

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Matt Goode (Truck Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Arthur Lopez (Laborer)
- 7. Tommy Atensio (Laborer)
- 8. Joe Hall (Temp. Laborer)

Biologist

Alyson

Equipment

- 4-work trucks
- 2-10 yard trucks
- Backhoe

December 23

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Joe Hall (Temp. Laborer)

Biologist

Alyson

Equipment

- 3-work trucks
- 1- 10 yard truck
- Backhoe

January 4, 2021

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Arthur Lopez (Laborer)
- 6. Tommy Atensio (Laborer)
- 7. Joe Hall (Temp. Laborer

Biologist

Sarah

Equipment

- 4-work trucks
- 1- 10 yard trucks
- Backhoe

January 5

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Matt Goode (Truck Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
 - 6. Arthur Lopez (Laborer)
 - 7. Tommy Atensio (Laborer)

Biologist

Christian

Equipment

- 4-work trucks
- 2- 10 yard trucks
- Backhoe

January 6

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Emie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Matt Goode (Truck Driver)
- 5. Chuck Hidalgo (Maintenance Worker)
- 6. Arthur Lopez (Laborer)
- 7. Tommy Atensio (Laborer)

Biologist

Jonathan

Equipment

- 4-work trucks
- 2-10 yard trucks
- Backhoe

January 7

Crew

- 1. Miguel Mendoza Jr. (Crew Leader)
- 2. Ernie Bentacourt (Operator)
- 3. Edgar Mazariegos (Truck Driver)
- 4. Chuck Hidalgo (Maintenance Worker)
- 5. Tommy Atensio (Laborer)

Biologist

Christian

/ ` Equipment

- 2-work trucks
- 1-10 yard truck
- Backhoe

Los Angeles County Channel Maintenance Project Reach Name San Gabriel River Mitigation Monitoring Program Reach Number 115

MM	¢	malone	Murkywaky	Moderate	10/26/20
MM		moderate	Where Where	Moclerate	10/21/20
10/10/		Malerate	Murkey Waly	Moderate	10/19/20
MM		moderate	Whenky webr	Wedsorte	10/15/20
MM		moderate	Murky Water	Woderate	10/14/20
MM		moderents	Murky Winto	Woderah	10/13/20
MM		Moderte	Murky white	Wodsrate	10/8/20
MM		moderale	Murky Water	Modernie	10/7/20
bolle		moderate	Murkey Usle	moderate	10/6/20
WW	•	moderate	Murky water	Moderate	10/5/20
WW		Moderate	Wher Ky wat	Moderate	10/2/20
WW		moderate	Murkey	Moderate	10/1/20
Initial	Comment	Noise	H20	Air	Date

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River</u> Reach Number <u>115</u>

Date	Air	H20	Noise	Comment
10/27/20	Moderate	Murty water	moderile	
10/28/20	Whoclerate	Wherkey Waster	Muderate	
10/29/20	Woderate	Wlinky White	maderale	•
11/3/20	Moderate	Murkywaly	moderate	
1115/20	Moderate	Whenky what's	moderale	
11/9/20	Moderate	Murry White	moderate	
11/10/20	Wocherale	Murryuhls	moderate	
11/16/20	Moderate	MurkyWater	moderate	
11/17/20	Moderate	Why why	moderate	
11/ 18/20	Moderate	White abuts	Moderale	
11/19/20	Woderate	Worky white	moderate	
11/30/200	Moderate	Whyky what y	moderate	

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River</u> Reach Number <u>115</u>

1/5/2/	1/4/21	12/23/20	12/17/20	12/16/20	12/10/20	12/9/20	12/8/20	12/7/20	12/3/20	12/2/20	12/1/20	Date
Moderate	Moderale	Moderale	Moderate	Woderate	Wederate	Medorale	Moderate	Moderate	Unhealthy	Moderate	Moclerate	Air
Multy whity	Murky water	Www.kyubler	Murky burster	Mully Wester	MurkyWater	Muthywals	Murky Works	Why water	Murky wals	Murky Winter	Murky Water	H20
moderate	moderate	maderate	moderate	mudsale	Moderale	wholevale	moderate	moderite		moderate	Matrale	Noise
~									Air quality was bad. One to fires,			Comment
Value	MM	WW	MM	MM	MM	MM	MM	MM	MM	MM	MM	Initial

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River</u> Reach Number <u>115</u>

					1/7/2/	1/6/24	Date
					Woderate	Moderate	Air
				-	Murkywats	Murkywortz	H20
					whoderale	moderade	Noise
				•			Comment
					MM	person	Initial

LOS ANGELES COUNTY SOFT BOTTOM CHANNELMAINTENANCE 2020-2021 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Maintenance activity for these channels include vegetation removal by hand using hand tools such as weed eaters, hedge trimmers chainsaws, hoes, loppers, machetes, and a rubber-tracked skid steer as necessary. Minor deficiencies discovered will be repaired including filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structure, and other miscellaneous items encountered. A two-striped garter snake relocation plan is required, and biological monitoring is required on-site daily during project activity.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2021-22 (pending permit). Minimal dust was generated during vegetation removal.

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs. See Attached Separate Annual Report by Psomas

Project Start Date: 10/02/20

Project End Date: 10/27/20

ompleted by: Name: Title: Vanstructure Date: 4-26-21

VAC pproved by: Name Title: Date:

LOS ANGELES COUNTY SOFT BOTTOM CHANNELMAINTENANCE 2020-2021 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	36

Permit Requirements:

The permit requires that we monitor water quality at upstream, midpoint and downstream limits when water is flowing in the channel.

Description of Activity/Method of Implementation:

Water sampling was conducted before, during and after during all clearing activity. Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2021-22 (pending permit). All equipment and hand tools were cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practice were deemed to be applicable and were implemented:

- SS-1 Scheduling
- SS-2 Preservation of Existing Vegetation
- WE-1 Wind Erosion Control
- SS-8 Sand Bag Barrier
- SS-9 Straw Bale Barrier
- NS-8 Vehicle and Equipment Cleaning

Disposition:

Mitigation measure has been implemented. No future action is required.
Mitigation measure is not fully implemented. Further action is required. (Please explain below)
The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done in the channel avoiding water. Water Quality Sampling results provided in Annual Report.



LOS ANGELES COUNTY SOFT BOTTOM CHANNELMAINTENANCE 2020-2021 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2021-22 (pending permit). Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

1000

~	Mitigation measure has been implemented. No future action is required.
	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
	The mitigation measure is not in compliance. Further action is required. (Please explain below)

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Comments/Revisions:

~`	Çompleted by:	Jac MApproved by
Name:	H=	Name: Man
Title:	Construction Superinterlift	Title: Area England
Date:	4-26-21	Date: 7/15/2021

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 118 & 119 – RUSTIC/RIVAS CHANNEL 10/02/20-10/27/20 DURING PHOTOS















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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT 2020-2021 SOFT BOTTOM CHANNEL CLEARING ACTIVITY STORMWATER MAINTENANCE DIVISION – SOUTH AREA REACH 118 & 119 – RUSTIC/RIVAS CHANNEL 10/02/20-10/27/20 BMP's





Los Angeles County Channel Maintenance Project Mitigation Monitoring Program - Reach Name <u>Rivas and Rustic</u> Reach Number <u>118 and 119</u>

Initial	py	M	M	Pul	M	lul	M	M	2		
Comment	n Gas Powered Tools	Gus Panerel Tools	Flen/ Cas Tools	Flow / Cas Tools	Flour Cas Tools	Flow / Gas Tools	Flow / Cas Tools	//			
	NOISE FUDA	Noist Flum	Natural	NATURAL	NATURAL	NATURAL	NATURAL	Į,			
Noise	LIGHT	LICHT	LIGHT	LIGUT	LIGHT	LIGNT	LIGNT	LIGHT			
H20	Nove	NONE	Phasent	Present	Present	Phesent	Meent	Resent			
Air	6000	Goul	6000	Good	GUND	COOD	6000	6000			
Date	10/2/20	10/3/20	10/5/20	10/6/20	10/2/20	08/8/01	いもうもの	10/27/20			

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PSOMAS

Balancing the Natural and Built Environment

April 6, 2021

Ms. Nandini T. Moran Los Angeles County Flood Control District Stormwater Maintenance Division 900 South Fremont Avenue, Annex Building, 2nd Floor Alhambra, California 91803-1331

VIA EMAIL ntmoran@dpw.lacounty.gov

Subject: Results of Biological Monitoring at Reach 118 (Rustic Canyon) and Reach 119 (Rivas Canyon) Soft-Bottom Channel Reaches in the Community of Pacific Palisades, City of Los Angeles, California

Dear Ms. Moran:

This Letter Report presents the results of biological monitoring for maintenance activities conducted by the Stormwater Maintenance Division (SWMD) of the Los Angeles County Flood Control District (LACFCD) at Soft-Bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) in the Community of Pacific Palisades, City of Los Angeles, California (hereinafter referred to as the "Project").

PROJECT DESCRIPTION AND LOCATION

Soft-bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) were added to the LACFCD's Long Term Lake or Streambed Alteration Agreement (LSAA) No. 1600-1999-0076-R5 for "Routine Maintenance of Earth Bottom Channels" per an amendment dated October 17, 2014. The maintenance plan for these two Soft-bottom channel (SBC) reaches involves vegetation removal by hand tools.and, as necessary, rubber-tracked skip loader or skid steer machines. Also permitted are minor repairs, under LSAA No. 1600-2014-0238-R5, such as filling small voids with onsite materials, repairing deficiencies in walls and/or support structures, and other miscellaneous items that may be encountered during the course of annual maintenance activities.

The Project is located within the coastal community of Pacific Palisades on the west side of the City of Los Angeles, California. SBC Reaches 118 and 119 are contiguous upper and lower segments of the Rustic/Rivas Canyon Creeks located south of Sunset Boulevard (Exhibit 1). SBC Reach 119 extends approximately 1,200 feet from Sunset Boulevard to its confluence with Rustic Canyon Channel (SBC Reach 118). SBC Reach 118 consists of a portion of Rustic Canyon Channel from the confluence with Rivas Canyon Creek downstream approximately 3,200 feet to Rustic Road, where the channel transitions to a concrete-lined storm drain. Project elevations range from approximately 190 to 275 feet above mean sea level (msl). The Project site is located within the Topanga U.S. Geological Survey (USGS) 7.5-minute quadrangle.

225 South Lake Avenue Suite 1000 Pasadena, CA 91101

Tel 626.351.2000 Fax 626 351 2030 www.Psomas.com

PSOMAS

Nandini T. Moran Page 2 April 6, 2021 Reach 118 and Reach 119 Pacific Palisades

METHODS

Biological clearance surveys were conducted for the two-striped garter snake (*Thamnophis hammondii*) and all wildlife species onsite during all days of maintenance activities by Psomas Biologists Cristhian Mace, Sarah Thomas, Jonathan Feenstra, and Senior Biologists Marc Blain, Lindsay Messett, and Jonathan Aguayo. A total of fifteen biological clearance surveys were conducted on October 2, 3, 5-10, 26, 27, and December 7-11, 2020. Weather conditions during the surveys included temperatures ranging from approximately 52 to 67 degrees Fahrenheit, with wind speeds ranging from 0 to 3 miles per hour, and zero to 100 percent cloud cover.

Clearance surveys were conducted prior to ground disturbing activities. The surveys were conducted early in the morning at areas planned for vegetation removal. The biologists thoroughly searched rock crevices, animal burrows, leaf litter, loose rocks, logs, and debris to determine if any wildlife species were present. If any wildlife species were observed during clearance surveys, the biological monitor was prepared to relocate animals to appropriate habitat a safe distance away from maintenance activities. Photographs documenting Reach 118 and 119 before, during, and after maintenance monitoring are provided in Exhibits 2a, 2b, and 2c.

RESULTS

No sensitive plant or wildlife species were observed at the site before and during the maintenance of these facilities. No wildlife species were relocated for this project. A complete list of all wildlife species detected during the surveys is provided in Attachment A.

Psomas appreciates the opportunity to assist on this project. If you have any comments or questions, please call Marc Blain at (626) 351-2000.

Sincerely, PSOMAS

Ann M. Johnston Vice President, Resource Management

Marc T. Blain Senior Project Manager

Enclosures:

Exhibit 1 – Regional Location and Project Vicinity Exhibit 2a-1–2a-5 – Pre-monitoring Photographs Exhibit 2b-1–2b-2 – Monitoring Photographs Exhibit 2c-1–2c-5 – Post-monitoring Photographs Attachment A – Wildlife Compendium

cc: Rainer Globus (RGLOBUS@dpw.lacounty.gov)

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View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches

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View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-2

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-3

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-4

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-5

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon during biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.

Exhibit 2c-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.

Exhibit 2c-2

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Exhibit 2c-3

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Exhibit 2c-4

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Post-monitoring Photos

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Exhibit 2c-5

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches

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ATTACHMENT A

WILDLIFE COMPENDIUM

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WILDLIFE COMPENDIUM

Scientific Name	Common Name
	AMPHIBIANS
HYLIDAE	E - TREEFROG FAMILY
Pseudacris cadaverina	California treefrog
Pseudacris hypochondriaca	Baja California treefrog
	LIZARDS
PHRYNOSOMA	TIDAE - SPINY LIZARD FAMILY
Sceloporus occidentalis	western fence lizard
Uta stansburiana	common side-blotched lizard
	BIRDS
COLUMBIDAE	- PIGEON AND DOVE FAMILY
Patagioenas fasciata	Band-tailed pigeon
Zenaida macroura	mourning dove
TROCHILIDA	E - HUMMINGBIRD FAMILY
Calypte anna	Anna's hummingbird
Selasphorus sasin	Allen's hummingbird
LARIDAE -	GULL AND TERN FAMILY
Larus delawarensis	Ring-billed gull
Larus occidentalis	western gull
ACCIPIT	RIDAE - HAWK FAMILY
Accipiter cooperii	Cooper's hawk
Buteo lineatus	red-shouldered hawk
Buteo jamaicensis	red-tailed hawk
PICIDAE -	WOODPECKER FAMILY
Melanerpes formicivorus	acorn woodpecker
Picoides nuttallii	Nuttall's woodpecker
Picoides pubescens	downy woodpecker
Colaptes auratus	northern flicker
PSITTAC	DAE - PARROT FAMILY
Aratinga nenday	Nanday parakeet
Amazona viridigenalis	red-crowned parrot
TYRANNIDAE - 1	YRANT FLYCATCHER FAMILY
Contopus pertinax	greater pewee
Empidonax difficilis	Pacific-slope flycatcher
Sayornis nigricans	black phoebe
VIREON	IIDAE - VIREO FAMILY
Vireo huttoni	Hutton's vireo
CORVIDAE	- JAY AND CROW FAMILY
Aphelocoma californica	California scrub-jay
Corvus brachyrhynchos	American crow
Corvus corax	common raven '
PARIDA	E - TITMOUSE FAMILY
Baeolophus inornatus	oak titmouse
AEGITHAL	IDAE - BUSHTIT FAMILY
Psaltriparus minimus	bushtit

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Wildlife Compendium

WILDLIFE COMPENDIUM

Scientific Name	Common Name
SITTIE	DAE – NUTHATCH FAMILY
Sitta carolinensis	white-breasted nuthatch
TROGL	ODYTIDAE - WREN FAMILY
Troglodytes aedon	house wren
Thryomanes bewickii	Bewick's wren
REGU	LIDAE - KINGLET FAMILY
Regulus calendula	ruby-crowned kinglet
TURE	DIDAE - THRUSH FAMILY
Catharus guttatus	hermit thrush
Turdus migratorius	American robin
MIMIDAE - MOC	KINGBIRD AND THRASHER FAMILY
Mimus polyglottos	northern mockingbird
STURN	IIDAE - STARLING FAMILY
Sturnus vulgaris	European starling
BOMBYC	ILLIDAE - WAXWING FAMILY
Bombycilla cedrorum	cedar waxwing
PASSERIDAE	- OLD WORLD SPARROW FAMILY
Passer domesticus	house sparrow
FRING	GILLIDAE - FINCH FAMILY
Haemorhous mexicanus	house finch
Spinus psaltria	lesser goldfinch
PASSERELLIDAE	E - NEW WORLD SPARROW FAMILY
Pipilo maculatus	spotted towhee
Melozone crissalis	California towhee
Melospiza melodia	song sparrow
Zonotrichia leucophrys	white-crowned sparrow
Junco hyemalis	dark-eyed junco
PARULIDA	E - WOOD-WARBLER FAMILY
Oreothlypis celata	orange-crowned warbler
Setophaga coronata	yellow-rumped warbler
Setophaga townsendi	Townsend's warbler
Çardellina pusilla	Wilson's warbler
	MAMMALS
SCIUR	IDAE - SQUIRREL FAMILY
Sciurus niger	eastern fox squirrel
Otospermophilus beecheyi	California ground squirrel

ATTACHMENT NO. 3

PRE- AND POST-CLEARING BIOLOGICAL RESOURCES MONITORING FORMS [This page is intentionally left blank]

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list):
the openter shall not import the 0.27 acre of Vesetation
allowed to remain in 1997. Hand Clearing only
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) The Top 7,8; Riparin herb and unlaw Vegetaion in area maintained; and Bean present,
Name of Dialogical Maritan $AZ = \frac{24}{3}$ $AZ = \frac{22}{3}$
Name of Biological Monitor: Joure Monitor Date: Wayword 12, 2020
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 18,19; Willows,
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Terre Moulu</u> Date: <u>Tanuary 21, 20</u> 21

Earth Bottom Channel Program

Biological Resources Monitoring Form

Perch Numbers 2
Special Permit Conditions (11st): <u>Offere Con Aboll not import the 0, 39 acre of Vyete tim allowed to</u> <u>herein in 1997, Hand clearing only</u> , Width of clearing thall not eliced 20FT, Native Trees with a DBH of Builder or greater shall not be remark
Observation of Special Status Species: None diserved.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2,3</u> ; <u>Riparin herb and redeal Vegetation che area mantabed</u> ; <u>A Varlety of omanantel Vegetation; mont not a problem, but some</u> <u>ground Cover are invertice</u> .
Name of Biological Monitor: Stern Mary L. Date: Quer., 7 22, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. There is a construction of the construction of t
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Jan Moule</u> Date: December 22, 2020

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Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: <u>3</u>
Special Permit Conditions (list): If and ilenting only:
Observation of Special Status Species: None objectived,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 14, 15; Rudgel Vegetation that Combuter the area maintained</u> ; <u>climation not a problem</u> .
Name of Biological Monitor: <u>Stee Month</u> Date: <u>August 21, 2020</u> Post-Clearing Documentation
Arows to indicate important features). Estimate amount of invasives removed. Photos 20, 21; Eucolyptic and Coast Live Oak.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
ж Т
Name of Biological Monitor: Kene March Date: January 21, 2021

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 4
Special Permit Conditions (list): No ypertal permit Conditions pertain to this reach.
,
Observation of Special Status Species: None observed,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 12, 13; Riponian hend and rudenal Vegotation in area</u> <u>Maintained; cluverbox Net a publican</u> ,
Name of Biological Monitor: <u>Reve Month</u> Date: <u>August 21, 2020</u> Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. The Tar 22,23; A mill of oncomental and notice Trees and shurt- outside channel.
· · · · · · · · · · · · · · · · · · ·
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>ACure March</u> Date: January 21, 202

Biological Resources Monitoring Form

Reach Number: 5
Special Permit Conditions (list): <u>Hand Cleaning Only</u> . Elother shall be removed during maintenance <u>activities</u> . The Theget tim allowed to remain in 1997 shall not <u>be hapported by fature maintenance activity</u> . Observation of Special Status Species: <u>Nove observed</u>
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Mar 9, 10, 11; Ryzorley berb dominated by attach in area Maturained j drowber not a problem.
Name of Dialogical Maniton II March Data: (11, 7, 7, 7, 7, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Name of Biological Monitor: Date: Curryout LL, 20 do
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Thotas 16, 17, 18; Willow Nyoulan.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Scene Month Date: December 72, 2020

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: <u>6</u>
Special Permit Conditions (list): 11 and Clearly only, Exother shall be removed, Vegetation allowed to remain in 1997 shall not be imported by future major tenore activitie. Observation of Special Status Species: <u>Ne ne observed</u> .
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 12, 13; Riparlon herb, Willow branches, and under l'egetation In area Mahrtehred; Investion vote problem; but one non- mative FigTnes present at upper enorgy reach,
Newsof Dislocied Maritan 15 Maria Data (2017)
Name of Biological Monitor: <u>Scine Month</u> Date: <u>Ungust 22, 1010</u>
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>The Table 19, 20</u> ; Cast the Oaka and home or memoral vegetation of also willows:
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: 12,2020

Biological Resources Monitoring Form

Reach Number:

Special Permit Conditions (list):

7

Least far Permit condition VILLO (LBV) ectal that 1 City of LA project the ALDE ces. existing at changed conditions their rea during Observation of Special Status Species: None detector **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) and cotton wood Gan Engl at of 12 31 willow both slopes - note rattails and marian covered Scrub 1 Own Forming on most: mexicun SIdim bar MM slopes. Trush present throughout renda and alow ma on on avor Bristle Date: Avy. 20,2020 Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. three yorny cottonwood and one mature willow 12 21 04 Selecter protection. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Trevor Brittle Date: Jun 20 Name of Biological Monitor:

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list): Hand Cleaning only
Observation of Special Status Species: None observed,
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 14,15; Reparanherb and where Uegetation in area</u> <u>Mahntenned; Invariant of publica</u> .
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Kere March Date: august 22 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photas 21, 22; No Vyetation allowed to remain in channel - adjacent ormane of Trees somewhat "Overhag" The reach,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>free Mouh</u> Date: <u>December</u> 22, 2020

Earth Bottom Channel Program

Biological Resources Monitoring Form Reach Number: Special Permit Conditions (list): d Clearly only. Imports shall not exceed 0,12 acre. Har None observ Observation of Special Status Species: **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Some rederal Vegetation image mantaine problem. nota Date: august 21, 2020 A Eve Moul Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Non-notive ash Trees, Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): flan Monthe Date: December 22,2020 Name of Biological Monitor:

Biological Resources Monitoring Form

Reach Number: 10
Special Permit Conditions (list):
No work done in 1897. Operator shall not morart The 2110 cm
of Vegetation allowed to remain in 1997. (at was left alone due
Observation of Special Status Species: Nove Regard
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 3, 4, 5, 6; Riporlan harband underal Vegetation che auco Maintained; Washington Paling as well as some surental Trees growing rig-rap at upper end of reach.
Name of Biological Monitor: Ales Mark _ Date: Grand 21,2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photon 1,2,34' all vegetation nerved</u> . (There is no protected <u>Vegetation in This reach, such as Il willows</u> , etc.)
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Kore Manh Date: april 10, 2021

Biological Resources Monitoring Form

Reach Number: 12
Special Permit Conditions (list): <u>Hand Clearing only Special Permit conditions for the</u> <u>Santa Ana Sucker (SAS) apply to this reach</u>
Observation of Special Status Species: None observed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1,2,3; Thick cattails near ponded aater, Willow (woodland (mature) + proughout most of the reach pecent vandalization (graffiti on trees) and trash observed throughout. Castor bean observed.
Name of Biological Monitor: Sarah Thomas Date: 8/19/20 Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 12,3; Willow Wood land, Removal Included Cattalis, Gamma The Sarah Deer Castar bean.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Sava Munue</u> Date: <u>8/13/21</u>

Biological Resources Monitoring Form

Reach Number: 13
Special Permit Conditions apply to this reach.
Observation of Special Status Species: <u>None observe</u> d
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1+2</u> ; <u>Mostly unvegetated a comple of</u> <u>small tree tobacco byt invasives are not a</u> <u>problem equestrian trail established in upper part</u> of reach.
Name of Biological Monitor: <u>Squah Mumas</u> Date: <u>B/19/20</u>
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1,2; a lluvial Sage South symmeting reach</u> .
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Scrahmanas Date: 12/2/20

Biological Resources Monitoring Form

biological Resources Monitoring Form
Reach Number:
Special Permit Conditions (list):
No removal of the 0.5 gave of Vegetation (auflows)
allowed to remain in 1997; Special permit conditions
for least Bell's Virio apply to this reach.
Observation of Special Status Species: <u>None opserved</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1,2,3; Willows In immediate hanks, sage scrub
farther upland. One large castar bean and an
ash the remain. Recent disturbance to the
and levaled
Me Avaret.
Name of Biological Monitor: Sarah Thanas Date: \$ (19/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Photos 1,2,3; vegetation largely recovered from
the Creek Fire. One tamarisk comes back even
year on the downstream end quite a few tree
to barro and tree of heaven personed. One castor
Compliance with Permit Conditions: Full Partial Plan (1996)
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
· · · · · · · · · · · · · · · · · · ·

Name of Biological Monitor:

<u>Aranmanas</u> Date: 1/27/21

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 15
Special Permit Conditions (list):
Othere To shall met Jungo T The O. OI asso isen Tates a Registed
To remain the 1997.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>Photos 7, 8, 9, 10, 11 ', Riparin herb and wederal Vegetian in area Maintained', Investion mot a problem, but Trash stattand Thoughout reach.</i>
Name of Biological Monitor: IT. M. (Date: (41.0. T. 71. 222)
Name of Biological Montor Date. Culque 2/ 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>The 25, 26, 27, 28, 29</u> , <u>No Vegetation allowed to remain im</u> <u>Channel except small patch ((0.01) acce)</u> at <u>clouinteen Tepphus</u> <u>of reach</u> .
Compliance with Permit Conditions: Full / Partial
If nartial compliance is apparent describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form): Recommend alternating removed of downshow patch to that it doesn't become stagnant with Track and Montrey similar to- previous protected patch.
Name of Biological Monitor: <u>Kere Mouh</u> Date: <u>December 22,2020</u>

Earth Bottom Channel Program

Biological Resources Monitoring Form

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Reach Number:
Special Permit Conditions (list):
Had Clearly only, Inports that not exceed 0.07 acre.
Observation of Special Status Species: None obtained.
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Ph. Tox 1, 2; Rudonal Vegetation area Mainteined; churcher mate a problem,
Name of Biological Monitor: <u>A The Manua</u> Date: <u>Augurt 24, 2020</u> Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photon 1,2</u> ; Oct Woodland at upstream end of neach.
Compliance with Permit Conditions: Full <u>V</u> Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stere Moule</u> Date: January 22, 2021

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 18
Special Permit Conditions (list):
Hand Cleaking only.
Observation of Special Status Species: Nore observed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 3, 4, 5; Redeal Vegetation and an oak branch in area Mantaned; Tree of Hearen on Night bank Just upplean of entrance bulge to Camp Math Strang,
Name of Biological Monitor: Mare March Date: august 24, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photon 3, 4, 5; Chapanel, Coart Line Odle, and Omaneutal Vegetation.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stime Month</u> Date: <u>January 72, 20</u> 2

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: /9
Special Permit Conditions (list):
Hand Clearing only.
<u> </u>
Observation of Special Status Species: None observed,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photog C, F; Refere Vegetation in area maintained; Curtar Bean present Jourtier of walk bridge.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: <u>Steve Month</u> Date: august 24,2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. The Top 6,7' O manue all capetation and some chapternal and/or allunial bage scrub on right bank.
Compliance with Permit Conditions: Full / Partial
If next a level is a second to a se
il partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: IT March. Date: J
The charge and the among of the

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list):
dropoets shall not exceed O. 13 core (115 linear FT by SOFT wile);
Observation of Special Status Species: None observed,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon: 13,14 ; Ruderal and Omenen al Vegetation in and Maintainal; Costor Bean present upstroom of bidge.
Name of Biological Monitor: <u>Steve Marile</u> Date: <u>August 24, 2020</u>
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photon 13,14 to all woodland and on ametal Vegetation
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Kan Month</u> Date: January 22, 202

Biological Resources Monitoring Form

Reach Number: $2($
Special Permit Conditions (list): Hand Creating only: Inports thall not exceed 0.03 acre,
Observation of Special Status Species: None Stewed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon II 12; Reduced and ornametal Vegetation in area</u> <u>Main Taiwed j driver was not a problem</u> ;
Name of Biological Monitor: <u>Stare Moul</u> Date: <u>August 24, 2020</u> Bost Cleaning Decommentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 11,12; Oak Woodland and Omamutal Regetation,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: 15-Core March Date: January 22, 2021

Biological Resources Monitoring Form

Reach Number:	22				
Special Permit Condi Hand Clean hu	tions (list): g only .				
Observation of Specia	al Status Species:	None offer	rved.		
PreClearing Docum	rentation				
Pre-Monitoring Condi estimate. Attach photo Photos 8, 9,10; mahrting	itions – (briefly de ograph): List invas <i>Apure gro</i> Carlor Bean	escribe: Vegetation ives present (Arun <u>feste ap n</u>	type, height of the do, Castor Bean, T Level Veg Treen of L	rees, invasive press Frash, etc.) Ellyo:	ent & cover
· .					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Name of Biological M	[onitor:	Leve Mout	D	ate: Augent	24,2020
Post-Clearing Docum	rentation			7	(
Type of vegetation ren arrows to indicate imp <u>Photon 8, 9, 10;</u> <u>Nomes with A</u>	naining adjacent to ortant features). E <u>Mil App</u> ome Chap	e removal area (bri estimate amount of <u>ranantal Vec</u> enol, begcan	efly describe, att invasives remov <u>petation</u> <u>ac</u> , and or	iach photograph, i ed. ian <i>celface</i> H ₁ ,	nclude
Compliance with Perm If partial compliance is	it Conditions: s apparent, describ	Full e circumstances:	Partial		
				<u>_</u>	
Problems or Recomme	ndations (if more	space is needed co	ntinue on the bac	k of this form):	
Name of Biological Mo	onitor:	lene Moule	D	ate: Januar	1 22, 702
					Revised 2016
Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 29
Special Permit Conditions (list): No special permit Conditions pertain to this reach, but the general Terms and Conditions of the permits apply.
Observation of Special Status Species: None office med.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photom 7, 8, 1, 10, 11; Ripartin herb and unless Vegetation on area Mountained; Carton Bean present at upper end of reach.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Stue Month Date: august 23,2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photose</u> 7, 8, 9, 10, 11; <i>home Needbeds on widdle of low-flow</i> <u>Channel and at upptream and of Neech, but otherwise cell</u> <u>i/esetation Nemored</u> .
Compliance with Permit Conditions: Full Partial
Compliance with Permit Conditions: Full <u>V</u> Partial If partial compliance is apparent, describe circumstances:
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: If partial compliance is apparent, describe circumstances:
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: If partial compliance is apparent, describe circumstances:
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 25
Special Permit Conditions (list): <u>Operator Aball not impact The 9.37 acres of Vegetation</u> <u>allowed to remain in 1997. (NOTE: The ACOE remained much</u> <u>of this Vegetation in 2000.)</u> Observation of Special Status Species: <u>None observed</u> .
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 12,13,14,15,16 (EAST BANK) & 17,18,19,20,21 (West BANK);</u> <u>Fuinarly webcal V-egetation invasion monotoped; forme Contop Bean</u> and toolundo present,
Name of Biological Monitor: <u>Me Moule</u> Date: <u>August 23 20</u> 20
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photol 1, 2, 3, 4, 5 (East BANK) & 6, 7, 8, 9, 10 (WEST BANK); Largo Willow</u> <u>on earthbank but otherwise all vegetation removed</u> .
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>January</u> 7,202

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 26
Special Permit Conditions (list):
Hand Clearly only.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1, 2, 3, 4, 5, 6; Raderal, Maarin herb, and o momental Vegetation in area maintained; Custor Bean present at Rower end of reach.
Name of Biological Monitor: Sure March Date: Cuguet 23, 2024 Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photon 1, 2, 3, 4, 5,6; Willown and Omama Tal Trees (Monthly Cash Trees)
Compliance with Permit Conditions: Full r Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: A Cure Month Date: November 27, 2020

Reach Number:
Special Permit Conditions (list):
Current management olar includes full clearing of invert.
trinning of deg on banks trees up to 3.44, above grand.
Isrand weybertion is protected
Observation of Special Status Species: <u>Na (L& Reach)</u>
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1-5: Inuch has dense cattails and other harbaceaus uggetation Banks have dense strubs + trees that largely havent been cleared or trumed.
Name of Biological Monitor: 12 and 1 and 1 Mar 0.014 Date: 21 1005 1 20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1-5 : Willow (pencen habitat. Trees on the</u> <u>bunks unre triumed. Vegetation on the stand was</u> <u>not buched. (attails + other honoaceable veg. at much</u> <u>was removed but is already growing back</u> Compliance with Permit Conditions: Full Partial
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Lindsuy Mesself</u> Date: <u>185121</u>

Earth Bottom Channel Program

Reach Number: 28
Special Permit Conditions (list): <u>Hand Cleaning Only, Operator shall avoid impact on Southwestern</u> <u>fond Turtle I Cleathy shall not litterd beyond area Cleaned in 1997, No natre Treest with a PBH of 2 incles or greater shall be removed.</u> Observation of Special Status Species: Norre observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) [hetos 12,13,14, Minorthy ruderal Vegetation in area maintained, but some riparts herb under bridge; cluvaines not a moblem.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Stere Moule Date: august 20, 2020
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include .arrows to indicate important features). Estimate amount of invasives removed. Photom $15/16/17$; Willows,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>flane Month</u> Date: <u>January 21, 20</u> 21

Biological Resources Monitoring Form

Reach Number: 29
Special Permit Conditions (list): <u>Hand Cluster only</u> , Or Briter thall avoid Inpact to fourther Ford <u>Tartle</u> , <u>Operator shell note import the O. G (acre of Vegetetion</u> <u>allowed to remain du 1987</u> , No nature Trees with a PB. If of 2 index or growten Observation of Special Status Species: None observed, Shall be removed,
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 24, 25, 26; Rparlen herb a ludeuel vegetation im anea mainto week</u> <u>anvano not a problem</u> .
Name of Biological Monitor: <u>Stue Ment</u> Date Quegue 720 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photo 13,14,15; Willow and Cranland/Ruderal Field</u>
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
-
Problems or Recommendations (if more space is needed continue on the back of this form):
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Name of Biological Monitor: <u>Atwe Monte</u> Date: <u>Recember 22, 2020</u>

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 32
Special Permit Conditions (list): Hand Cleanling Only, No Vegetition wer allowed to remain in 1997,
Observation of Special Status Species: None observed
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>Photos 15</i> /10/7-18; Riporton herb and walnul is execution in area Matutomed; claver net a problem,
Name of Biological Monitor: May Moule Date: august 20, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photox 4, 5, 6, 7; Chepeurel, oak, and some ormanue to Vegetation</u>
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stre Monh</u> Date: December 22, 20,20

Biological Resources Monitoring Form

Reach Number: 33

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Special Permit Conditions (list): The Mahn Concrete activitien performed Will Jude de Collipsopping of Wellow Tnees, removed of exotic mon-metric Vegetation, and removed of Jebric and Tresh, operator shall not sugart western Pond Tartle. Observation of Special Status Species: <u>More Risewed</u> , Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type beight of trees invasive present & cover
estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photog</u> 9, 10, 11; <u>Willow riparton forest and freshunter mark</u> <u>hobitat in areas where no clearing activities have been</u> <u>performed dese to permit restriction</u> .
Name of Biological Monitor: <u>Acre Montz</u> Date: <u>Augur (20, 2020</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stere Marth</u> Date: Farming February 1,2021

Reach Number: 35
Special Permit Conditions (list): Hard Clouing only, Impart well not liced 0.14 acre, No mative Treds with a PBH of 2 inches or greater shall be removed.
Observation of Special Status Species: Nove observed:
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>Photor 7,8', Ripellenherb and reform Vegetation Marea</i> <i>Mathemal</i> ; <i>clines was not a problem</i> .
Name of Biological Monitor: <u>Steve March</u> Date: <u>Quegest</u> 20, 2020 Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include .arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 13, 14', Few allands and small Trees (olive & Sycamores).</u>
Compliance with Permit Conditions: Full <u>Full</u> Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor:Moule Date: January 21, 2021

Biological Resources Monitoring Form

Reach Number: <u>36</u>
Special Permit Conditions (list): Hand Clarky only: Operate shall not import the 0.05 acre of Vegetation allowed to remain in 1997.
Observation of Special Status Species: None abserved.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 1, 2; pance reduced Vegetation in acco maintained, churame not a problem.
Name of Biological Monitor: <u>Ature Monthe</u> Date: <u>August 20,20</u> 20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include .arrows to indicate important features). Estimate amount of invasives removed. Photos: $4,5$; Willows,
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Full Full
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Scene Moule</u> Date: <u>January 21, 2021</u>

Biological Resources Monitoring Form

Reach Number: 37-
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 shell not be
hipucted by forture maintenance activities.
Observation of Special Status Species: Work offerved,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 5, 6; Riparlan harb and reduced (Vegetation of area Mahrahad; christian not a problem.
Name of Biological Monitor: <u>Steve Monte</u> Date: <u>August 20, 2020</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include .arrows to indicate important features). Estimate amount of invasives removed.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lare Moul Date: Tanuary 21, 2021

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 38
Special Permit Conditions (list):
Hand Clentry only, chugae Gulball not elceed 0, 19 acre.
No native trees with a DBH of 2 duchas on greater shall
be removed.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 3, 4'; Riperiur herb al reclaul Vegetation de area</u> <u>Maintained; Invaires not a problem.</u>
Name of Biological Monitor: <u>March</u> Date: <u>Augunt 20, 2020</u> Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 9,10' Willow and grander
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Scine Moule</u> Date: <u>January 21, 2021</u>

Biological Resources Monitoring Form

Reach Number: <u>39</u> Special Permit Conditions (list):
Special Pervit Condition for Sonta Ana Sycker (Sas) and Least Bells were (LBV)
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos I-U: Som willow (small)</u> , cartails and other perbaseous uggetation in channel. Standing, water
Name of Biological Monitor: Lindsay Nessert Date: 8/19/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Thotos 1-4: Veg revould for channel. Willows and unle fat or north bank, along wil some small neroaceous uggetation down stream on right bank.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messelt Date: 1125121

Reach Number: 40 A
Special Permit Conditions (list): <u>Santa Fe Dam to 210 FWy; hand & Mechanical clearing 10 ft. From Toe</u> <u>OF levee & 75ft wide area cleared in alternate years</u> .
Observation of Special Status Species: NONE Observed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos (,)</u> , <u>3</u> , <u>4</u> , <u>5</u> ; <u>Vegetation</u> configts of CSS Species, herbaceous <u>Chon-narive</u>) weeds with dense grasses & Mulchat being dominate. Rastor <u>bean</u> is present on-site.
Name of Biological Monitor: Christhian Mace Date: 08/25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1,2,3,4,5</u> ; due to continuing drought Year, very little Vegetation <u>Present in this area, Cone-Yeargrowth</u>) allowed to remain this year
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/20/21

Reach Number: <u>40 b</u>
Special Permit Conditions (list):
I-10 FWY to Thienes ave.; Protect vegetation allowed to remain in 10
SPECIAL PERMIT CONDITIONS FOR LEAST BELL'S VIREO (LBV) APPLY TO THIS REACH,
/
Observation of Special Status Species: <u>None observed</u>
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; Mostly herbaceous (non-Native Weeds)</u> <u>Vegetation in dreas maintained; willows present in wer areas. Castor bean</u> <u>alundo Present</u> .
Name of Biological Monitor: <u>Christhian Mace</u> Date: <u>O8/25/20</u> Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2, 3, 4, 5, 6, 7,8; willows \$ Mule Fat</u>
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/20/21

Biological Resources Monitoring Form Reach Number: Special Permit Conditions (list): permit Conditione pertain to this reach. No 200 None offerre Observation of Special Status Species: **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) ruderal Vegetation in area Con 15,16,17; Risaden hert and Centor Bean preser rand Store Month Date: august 20ZU Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. ; Willow, Compliance with Permit Conditions: Full Partial V If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): there monin Date: November 18, 2020 Name of Biological Monitor:

Biological Resources Monitoring Form

Reach Number: Special Permit Conditions (list): I send Conditions Perturber to this reach. Observation of Special Status Species: **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) 18,19,20; Riverter herb and rederal Vegetation ihr area man Bran present: Date: august Store Month Name of Biological Monitor: 2020 **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Willows: Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Stare Monto Date: april 10 Name of Biological Monitor:

Biological Resources Monitoring Form
Reach Number: <u>43a</u>
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 Shall not be impacted by Future
Maintenance activities. Special Permit conditions for least Bell's Vired CLBV) apply to this reach.
Observation of Special Status Species: None observed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos</u> 1,2,3,4,5; <u>Mostly</u> herbaccous vege tation (<u>Man-Mative weeds</u>) in areas maintained. Willows (Jordted in Wet areas. <u>Arundo & Castor</u> bean Present.
Name of Biological Monitor: Christhian Mace Date: 08/2//20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos (12, 3, 4, 5; Primarily willours \$ Mule Fat, but also Some Ornumental</u> <u>Vegetation(Ash Trees \$ a couple everyptics Trees); arrundo removed.</u> <u>Pesracides used</u> .
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Tack Underwood Date: 08/23/21

Earth Bottom Channel Program

Reach Number: <u>436</u>
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 Shall not be impacted by
Future Maintenance activities, Stecies parmit conditions for least Bell's Vired(EBV)
dPPIY to this Reach.
Observation of Special Status Species: <u>None Observed</u>
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3, 4; MOSTIV grasses } herbaceous Vegetation Chan-native weeds</u> <u>in areas Maintained; Some castor bean Present</u> .
Name of Biological Monitor: (hristhian Muce Date: 08/21/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2, 3, 4; Mostry willows, but some Mule Fat along toe of</u> <u>right bank slope</u>
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/23/21

Earth Bottom Channel Program

Reach Number: <u> </u>
Special Permit Conditions (list): <u>MainTenance activities Shall not go beyond greas cleared in 1997.</u> <u>Vegetation allowed to remain in 1997 Shall not be impacted by Future maintenance</u> activities
Observation of Special Status Species: Alana Observated
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13; Mostly herbaceous</u> <u>Vegetation (Don-Native weeds) in areas maintained.</u> Willows along edge of <u>Channel, Some Cattails at Mouth of outlets. Castor bean Present.</u>
Name of Biological Monitor: Christhian Mace Date: 08/3/120
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Pho+os 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13; Primarily willows $3MUle fat$,
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/23/2

Diological resources monitoring rorm
Reach Number: 45
Special Permit Conditions (list): <u>Luparets shall not exceed 0.05 acre. No native</u> <u>trees w1 2" or greater DBH shall be remained.</u>
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1, 2 - herbacelous weeds (mostely dry) in Maintained orea.
Name of Biological Monitor: Lindray Messert Date: 8125 20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2 - Cast une cak what any grassy</u> uggetation in inderstry (left) CSS (chaporal a supe to (right). Uggetation in maintained area is gone.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Nesself Date: 1125/21

Reach Number: 46
Special Permit Conditions (list):
Impacts shall not exceed 0.04 acre. No native
trees what a "or greater DBH shall be renaud.
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
arowing in maintained area + immediately advacent
Anyonus apprinated by Galsola. 80
1
r
Name of Biological Monitor: Lindsay Messert Date: 8125120
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Compliance with Permit Conditions: Full Partial
If nartial compliance is annarent, describe circumstances:
if partial compliance is apparent, describe cheunistances.
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messert Date: 125/21

Biological Resources Monitoring Form

Reach Number: <u>47</u>
Special Permit Conditions (list):
Creening shall not occur more than 2014 beyond toe of Level Special permit conditions for uparind three spines
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1-4: area maintained is primary unvegetated weas inimidiately adjacent to culverts have water ord snall another of home ungetation.
Name of Biological Monitor: Lindsay Messett Date: 8125120 Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1-4: Adjacent alwaial sage soub weetation
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
·
Name of Biological Monitor: Lindsay Messert Date: 1125121

Reach Number: 48
Special Permit Conditions (list):
N 1 OX
Observation of Provide Provident Construction Color
Observation of Special Status Species.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2 - Nevbouceus uegeteton in Maintained</u> <u>avec w1 peacen herb, tree 5 heaven + Arundo</u> <u>Avere asun the chancel</u> .
1
Name of Biological Monitor: Lindsay Mesself Date: 825120
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2 - Ornanuntal uggetation will some</u> <u>perbaceous uggetation at culterit. Some Standing</u> <u>water at upsthean end.</u>
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messelt Date: 1282

Reach Number: 49	
Special Permit Conditions (list):	
Na	
Observation of Special Status Species:	
PreClearing Documentation	
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Thotas 1, 2 - Wight unwegetated with a few Sconferred permacents shubs.	
·	
Name of Biological Monitor: Lindsay Mesself Date: 8125/20	
Post-Clearing Documentation	
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1-2: Unuquented - all herbacurus ugetation</u> <u>removed from vaintained area. Some dual smalos</u> <u>appenred to have washed down</u> .	~
Compliance with Permit Conditions: Full V Partial	
If partial compliance is apparent, describe circumstances:	
· · · ·	
Problems or Recommendations (if more space is needed continue on the back of this form):	
Name of Biological Monitor: Lindsay Messelt Date: 1125/21	

Reach Number:
Special Permit Conditions (list):
nla
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2 - avea zumunding the channel is under</u> <u>conserviction. Standing water with some herbaceaus</u> <u>ugetation scattered.</u>
Name of Biological Monitor: Lindray Muselt Date: 82520 Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1, 2 - Unity Sate Developed
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: 100500 Messett Date: 100500

Reach Number: <u>61</u>
Special Permit Conditions (list):
Clearing shall not occur more than 2014 beyond toe of Level Opecial permit conditions for unormored three spine
Sticentuce CMISI
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) More 1, 2 - lorgyly unwegtated in maintained orea.
Name of Biological Monitor: Lindsay Mesself Date: 8)25 20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2 - alluvial Gage Scrub ugation adjaent</u> to vaintained orea.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messert Date: 1125/21

Reach Number: 52
Special Permit Conditions (list):
your cleaving, only, Impacts shall not exceed.
0.04 aure, 8 0
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photo 1 – Channel + Owneding, onea is under Construction.
Name of Biological Monitor: Linds ay Nessert Date: 8125) 20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photo 1 - Still under Construction, developed - Channel of Opposed - Channel
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
·
Name of Biological Monitor: Date: 1 85 21

Reach Number: 53
Special Permit Conditions (list):
Ma
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2 - Uny Sparst perbactions (grassy ulgetation</u> w) gonald water and algae.
Name of Biological Monitor: Lindsay Musselt Date: 8/25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2- 5the sour sporse grassy up on banks</u> <u>where water is ponded</u> .
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messett Date: 1125/21

Reach Number: 50
Special Permit Conditions (list): <u>Appacts</u> shall not puelled 0.31 aure, Special Permit
conditions for unarmored threespine stickleback (UTS)
Observation of Special Status Species:
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1,2 - herbaceous wegetation in Channel and on</u> banks what a lot of standing water we algae and duce weed.
Name of Biological Monitor: Lindsay Messelt Date: 8/25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1, 2 - Channel unvegetated where small amount of herbaccous ungetation on banks. Some Standing water.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Lindsay Messett Date: 1)25/21

Reach Number: 55
Special Permit Conditions (list): <u>Clearing Shall not occur >20ft beyond the of</u> <u>Leuler. Special permit conditions for Unarmoned</u> <u>Horeespine Stickle back apply to Hus reach</u> . Observation of Special Status Species: <u>None</u>
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1-8; Mostly unvegetated except for Side</u> outlets that contain herbaceous (non-native weeds and greesses) Vegetation due to periodice releases of "nyisence" water, invasives not a publem.
Name of Biological Monitor: Savar la Da cutt CLD Date: S. 12 (2)
Post Clearing Decumentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1-8</u> ; allwial sage south vegetation with praided sandy/(abbly stream bed.
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>AVANIMOMAS</u> Date: <u>[]]70</u>

Earth Bottom Channel Program

Biological Resources Monitoring Form
Reach Number: <u>56 ("left hank reach"</u>)
Special Permit Conditions (list):
Clearing shall not occur >20pt beyond top of
Lever, Special permit conditions for unarmored
threespine stickleback apply to this reach.
Observation of Special Status Species: <u>None observed</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
(photos 1,2,3; primarily unvegetated in area
maintained juanues not a problem.
·
Name of Biological Monitor: <u>Sarah Thanks</u> Date: <u>Sl24/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
photos 1,2,3; allunal sage somb habitat.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Savahilhana Date: 11/24/22

Reach Number 7
Special Permit Conditions (list): <u>No Special permit conditions apply to this reach.</u>
Observation of Special Status Species: None observed
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos (12,3; Mostly unvegetated. Invasives not a problem.
Name of Biological Monitor: Sarah Themas Date: 8 25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 123; lesidential jurds with non-native ornamental vegetation.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Sarahmanas Date: 1/24/20

Biological Resources Monitoring Form
Reach Number: 53 (includs former Reach 59)
Special Permit Conditions (list):
Clearing small not occur 220ft. For the of level.
Special permit anditions apply to this reach for unarmored threefine Sticke back.
Observation of Special Status Species: Nove observed.
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
photos 1-5; sparse growth of herbaceous negetation in area mainfained. Mostly unnegetated. Invasines not a problem.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: <u>Saigh Mullas</u> Date: <u>B/2a/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1-5; alluvial Sage Saub.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: SquatThanks Date: 12/2/20

Reach Number:
Special Permit Conditions (list): <u>Clearing Shall not affective occur 220 ft from toe</u> <u>ef leulue</u> <u>Special permit and itens for unarmored</u> <u>Hreesone</u> Special permit and itens for unarmored
Observation of Special Status Species:
Pre-Clearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3; Mostly unwgetated with Same sparse</u> <u>Merbauleous Negetatus un areas maintgived</u> <u>Myasives not a problem</u> .
Name of Biological Monitor: Sayah Manas Date: 8/26/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos(23) Ollavial Sage Saub habitat.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Full Full
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Surgh Manage Date: 12/2/20

Biological Dec. www.aca Monitoving F

Biological Resources Monitoring Form
Reach Number: <u>Ul (Including reach 62 former</u>)
Special Permit Conditions (list):
(leaving shall not occur > 20 ft from toe of levere,
Special permit conditions for unarmored throughine
Shalleback apply to this reach.
Observation of Special Status Species: <u>None Shorena</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1-6</u> , <u>Mostly Unvegetated</u> , Invasives NOT a <u>Qroblem</u> .
Name of Biological Monitor: Samh Thomas Date: 8/20/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos F(e; alluvial Sage Samb W Hth Scattered</u> <u>Cottoned</u> .
Compliance with Permit Conditions: Full Partial
If nartial compliance is annarent describe circumstances:
n partial compliance is apparent, describe encumstances.
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Sarghmanes Date: 12/10/20
Reach Number: <u>6</u> Special Permit Conditions (list): <u>1 M pacts Shall not exceed 0.85 acre. Special permit</u> <u>requirements for unarmored threepine storteback</u> <u>apply te this reach</u> . Observation of Special Status Species: <u>Aone deservat</u>
--
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos [1213; Primarily Unvegetated (n Maintaned</u> <u>area</u> , (avasives hot a <u>puslem</u> .
Name of Biological Monitor: <u>Sammumas</u> Date: <u>S25/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Motos 1,2,3</u> : <u>Sparse allivial sage such vegetatan</u> <u>utbes (2,4)</u> with other woods wearby
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Savanthanas Date: 11/24/20

Diological Resources Montoring Form
Reach Number: 69
Special Permit Conditions (list): <u>Unpacts Shall not exceed 0.10 cares acres</u> <u>Special parmit</u> <u>Conditions</u> for unarmored three some stick back <u>apply to this reach</u> . Observation of Special Status Species: <u>Nove diserved</u> .
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1, 2, 3; Some horbaceaus vegetation lucluding Non-Native grusses, Mulefat and willow Saplings.
Name of Biological Monitor: Saugh Thomas Date: 8/25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos</u> 1, 2, 3; <u>Myte fat</u> willows (oftenwoods <u>and</u> <u>and</u> <u>organient fail there</u> .
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: SavaMonas Date: 11/24/20

Biological Resources Monitoring Form
Reach Number:
Special Permit Conditions (list): <u>Clearing Shall not occur 20 ff prin toe of</u> <u>leuee</u> , <u>Special permit conditions apply for</u> <u>Unervmored Himespine Stacke back</u> Observation of Special Status Species: <u>Mare Myerue</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1,2; Mostly unvegetated in aveg Maintarue</u> <u>except for herbacking vegetation at outlet.</u> <u>INVASIVES NOT a publicue</u>
Name of Biological Monitor: <u>Strahmunes</u> Date: <u>S/26/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1,2; allwin Sage Soub with mule fart + Cofformed.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jarah Thomas Date: 2/10/20

Biological Resources Monitoring Form
Reach Number: 67
Special Permit Conditions (list):
Spicial permit anditury for unarmored thingsping
Styletback apply to this reach.
Observation of Special Status Species: More Observed
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 12,3; alternating sides of lewele cleared annually, vegetation consists of reparing scoub (Salix evigua), cotowoods, mule fat, some tamarist and annual (very small amont).
Name of Biological Monitor: <u>SaghThungs</u> Date: <u>Spars</u> Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 12.3: One year add stop of ruperial bergage
Vegetation on right half of invert.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Sam Manage</u> Date: <u>21020</u>

Deach Number 100
Keach Number: ()
Special Permit Conditions (list):
Special permit and trings for innormanced
three pino stickeback apply for this reach.
Observation of Special Status Species: Bat Colony roosting under
PreClearing Documentation Urbandale bridge
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 123; alternative (naives cleaved annually Vegetation consists of reparing Scrub: willows (Salux (Xigua) (ottanwea) mille fast: Some tamages
and arrundo. Colony of bats roosts permane under Urbandale theme bridge. Colony consists a hundreds of individuals on both sides of ch
Name of Biological Monitor: <u>Sauh Manuas</u> Date: <u>Sau 720</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, nclude arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 123; Due peur old strip of Vegetation on rec</u> <u>Side aff (hannel.</u>
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Argh Manager</u> Date: 12/10/20

Biological Resources Monitoring Form

Reach Number: 70
Special Permit Conditions (list): <u>Special permit conditions apply for unarmored</u> <u>Hireexpine stickleback</u> .
Observation of Special Status Species: Nove Observed.
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 123, 15</u> alternative halves cleared <u>ANNUALLE</u> MURSINES NOT a problem.
Name of Biological Monitor: Samptumas Date: 8/27/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1,2,3,4; ONE-JECT 612 growth of Norbacenes Vegetation 60 left walf of invert,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Sarah Thomas Date: 2/10/22

Biological Resources Monitoring Form
Reach Number: 7
Special Permit Conditions (list):
Cleaning Shall not occur beyond 20FT OF The Levre, Special Permit
Conditions for Unarmored threespine Stickle back (UTS) apply to this reach.
Observation of Special Status Species: <u>NONE Observed</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1 2; Very Starse growth of herbaceous vage tation in area
Maintainea. Some willows wild cortan woods Present: INVASIVES NOT a PROBLEM
Name of Biological Manitam (a citte ida da di (a pota (20/2 g/2 g)
Name of Biological Momitor: $C \sqrt{\frac{7}{7}}$
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Photos 1, 2; alluvial sage scrub vegetation & a Few cottonwoods
Compliance with Permit Conditions: Full V Portial
If nortial compliance is an another describe simulations of the simulations of the simulations of the simulation of the
ii partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
· · ·
Name of Biological Monitor: Jack Underwood Date: 08/17/21

Biological Resources Monitoring Form

Reach Number: 71 Special Permit Conditions (list): No special permit conditions pertain to this reach. Observation of Special Status Species: deservet hone **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) 1,2. herbaceous species with willow saplings at Photos of mouth area maintained; master not a problem reach m Trevor Bristle Date: Aug. 20, 2020 Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1, 2; walnut, cottonwood and willow, Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Trevor Bristle Date: Dec. 23, 2020 Name of Biological Monitor:

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Earth Bottom Channel Program

Reach Number:	73				
- Special Permit Con	ditions (list):				
Emperats	shall Mot	excool	0.05 10		
		Uncert	0.00 (10		
Observation of Spec	cial Status Specie	s: <u>None</u>	obser	Vecl	
PreClearing Docu	mentation				
Pre-Monitoring Con estimate. Attach pho Photos 12 Wea man	ditions – (briefly otograph): List in 2 ; <u>5 p arse</u> 4 fumer ; j	v describe: Vegeta vasives present (2 growth hvas ives	ation type, heig Arundo, Castor of herbi not a	th of trees, invasive Bean, Trash, etc.) Acers Spece publem	present & cover
Name of Biological	Monitor:	Trevor k	Bristle	Date:Avy.	20,2020
Post-Clearing Docu	imentation				
Type of vegetation r include arrows to ind	emaining adjacen licate important f	at to removal are eatures). Estimat	a (briefly descr e amount of in	ibe, attach photogra vasives removed.	aph,
Compliance with Pe	rmit Conditions:	Full	Partial		
If partial compliance	e is apparent, dese	cribe circumstand	ces:		
Problems or Recom	nendations (if m	ore space is need	ed continue on	the back of this form	1):
Name of Biological	Monitor:			Date:	

75 (Orchard Mayo Dr. to Magic Mth, PKmy.) Reach Number: Special Permit Conditions (list): The veneturies (15.77 acres) allowed to compary in 1997 shall not be impacted by future cartivition. (The protected venetation mantenance is all between Magic Mtn. PKwy. und achard Village br.) Observation of Special Status Species: None observed Pre.-Clearing Documentation Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photoc 6, 7, 8, 9, 10, 11; mostly invegetated in areas mantuned Some herbuceaux vegetation with cuttails and willow saplinas pullets wet invasives problem not u Trenor Bristle Name of Biological Monitor: Date: Avy 21, 2020 **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11; willows, cotton woods, miletet and alluvial says scrub Species. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Name of Biological Monitor: Trevor Bristle Date: Nov. 25, 2020

Earth Bottom Channel Program

Reach Number: 76
Special Permit Conditions (list): No special permit Conditions apply to this reach, but the
general conditions and measures of the permits apply,
Observation of Special Status Species: Nove observed.
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 25, U. 17, Inoun growth of mileral Vegetation charge</u> <u>maintained</u> ; <u>Invarian mot a problem</u> .
Name of Biological Monitor: Stun Moul Date: Queent 19.20
Post-Clearing Documentation
arrows to indicate important features). Estimate amount of invasives removed. Pho Toz 25, 26, 27; all vegetation removed from chand.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Stre Moule Date: December 11, 202

Earth Bottom Channel Program

Reach Number: <u>77</u>
Special Permit Conditions (list):
Regetation (0.89 acre) allowed to remain in 1997 shall not be
invastad by fretere maintenace of twitten.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 28, 29, Musily provent to the matutativel, but a few matural species are present; driven not a problem,
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: <u>Store Month</u> Date Clegue 7 19, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 28,28</u> ; forme allrial Lago fourth Vegetation at Countream end of reach (at Confluence with Macaite Creek-Reach 78), but otherwise just bare dut,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stare Maril</u> Date: <u>Hecenber</u> 11, 2020

Biological Resources Monitoring Form 'R Reach Number: Special Permit Conditions (list): (0,89 cere, a remain in 1997 thell not be 11eso Tatin activitie main None observ Observation of Special Status Species: **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) ~ 30.31! Minarily Unverstated In men but ak Malitalio Stere Moule Date: Requet 19 2020 Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. I fage famber an banks, alla an 30,31 A. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Mars Morth Date: Decenter 11, 2020 Name of Biological Monitor:

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biological Resources Monitoring Form
Reach Number: 79
Special Permit Conditions (list):
Veyetation allowed to remain in 1997 shall not be imported.
by future maintanance activities, Special permit conditions
For marmored three spine stickle back (UTS) apply to this reach.
Observation of Special Status Species: None observed
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3; mostly mvcgetated in dreu matritainel,</u> <u>but some herbaceous Vegetation M wet spot below</u> <u>but some herbaceous vegetation</u>
Dringe, invasives not a problem.
Name of Biological Monitor: <u>1 ever Brisk</u> Date: <u>Aug. 20, 2020</u>
Post-Clearing Documentation
include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos [, 2, 3; Cotton words, mule fat, and great Basin sagebruch.</u>
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>1 revor</u> Bristle Date: Dec. 23 2020

Reach Number: <u>20</u> Special Permit Conditions (list): <u>Claring shull not occur mane thun 20 ft. beyond toe of</u> <u>levec. Vegetation allowed to ramain in 1997 shull not be</u> <u>Insucted by future mantemance activities. Special permit completions</u> <u>for marmored threesone stackleback (UTS) apply to this react.</u> Observation of Special Status Species: <u>None observed</u>
Pre-Clearing Documentation Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3, 4; sparse growth of herbaceous vegetation</u> <u>Marca mapple amed; sparse invasives consisting of tree-of-</u> <u>Mewen, custor bean, and tumanski</u>
Name of Biological Monitor: <u>I rever</u> Bristle Date: <u>Avy. 20, 2020</u> Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photo (2,3,9; willows, cottou woods, wwlefat, and breat Besin</u> <u>sagebrush</u> .
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Trever Bristle Date: Nov. 25, 2020

Biological Resources Monitoring Form

Reach Number: <u>82</u>

Special Permit Conditions (list): lever. not Hom 20 Pt. top extend MUCK SAAL m 1997 all n impact MA tion trittes endince AARI DA Special Status Species: reach. apply UTS ervation of

Pre.-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

he Venetation in con otherwise bricse one urm mutatamen in 11Cu publem. NUSING Trever Bratte Date: Avy, 20, 2020 Name of Biological Monitor: **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. willows, cotton woods, and mulefat. , 3, 4 ; Partial Full Compliance with Permit Conditions: If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Trenor Pristle Date: Name of Biological Monitor: Dec. 23

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list): <u>Vegetation aboved to remain in 1997 shall not be supected</u> by future immunitance activities, <u>special point</u> (molitins <u>Imedian 12/9/03 apply to this reach</u> (<u>Itistle beck</u>). Observation of Special Status Species: Nove of and
Pre-Clearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>Inton 1, 2, 3', Apose growth of Webul Vegetation in low-flow</i> <i>channel'; cluvance, not a problem.</i>
Name of Biological Monitor: flue Mouth Date: alequent 19, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. The Tex 1, 2, 3', Willows and Cotton woods in Contaic Creek at lower end of The reach.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Kene Mouh</u> Date: December 11, 2020

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Biological Resources Monitoring Form

Reach Number: 87
Special Permit Conditions (list):
Gracial Permit Gridition issued on 12/9/03 apply to the read
(Stickleback - Present in 2005, but not since).
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 23, 24, Rymian herb- and under Vegetation in area
mainterned; Westington Paler present, but otherwise invarious
not a problem.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: <u>Acre Mont</u> Date: <u>Urgent 19</u> 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include .arrows to indicate important features). Estimate amount of invasives removed. $P_{\rm k}$ (and $P_{\rm r}$, 8 ; $W_{\rm r}$ (low), .
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
;
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Item Month</u> Date: December 11, 205
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Biological Resources Monitoring Form

Reach Number: 88
Special Permit Conditions (list): dupperty Aliel not exceed (0.42 acre) of Vegetation allowed To remem in 1997.
Observation of Special Status Species: None observed,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Motor 8, 9, 1, parse growth of weber livegetation mare matricely cluver mat a problem,
Name of Biological Monitor: <u>Stre Morh</u> Date: <u>August 19,2020</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photen 13,14; hope hub/ aller loge hereb.
Compliance with Permit Conditions: Full 1/ Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Steve Month Date: December 11, 2020

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Biological Resources Monitoring Form

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Reach Number: 89
Special Permit Conditions (list):
Vegetation (0,02 acre) allowed to remain in 1997 shall not be
Inspected by future maintenance activities.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photo 4' Around growth of medical Vegetation in and mainteened' duvernee not a problem.
Name of Biological Monitor: Steve Month Date: August 19 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photo 9</u> , <u>Allinial Loge Scrub and Omenutal Vegetation</u> .
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
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Biological Resources Monitoring Form
Reach Number: <u>90</u>
Special Permit Conditions (list): Vertice (0,19 acre) allowed to remain in 1997 shell not be Apparted by fature maintenance activitien.
Observation of Special Status Species: None ofreved,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photop 5, 6, 7; space growth of ruderal Vegetation in a co</u> <u>metitation j durveinen not a phoblem</u> .
Name of Biological Monitor: Stre Month Date: August 19, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photor 10, 11, 12</u> ; <u>Albumal Ange Scrub and of alread sage fourb</u> ; <u>Oaks</u> ;
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Acue Moule</u> Date: <u>December 11, 2020</u>

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Biological Resources Monitoring Form

Reach Number: 9
Special Permit Conditions (list):
No special servit Enditions - a selector TOG really, bet, TO.
Reveral Enditore and many of the Permits profile
pour of the property of the second se
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photop 16, 17; Apare growth of medawal Vegetation in area</u> <u>maintained</u> ; Invertin not a problem.
· · ·
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Stree Morch Date: august 19,202
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Tho Tas 2(22) Omawental Vegetation,
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Problems or Recommendations (if more space is needed continue on the back of this form):
Problems or Recommendations (if more space is needed continue on the back of this form):
Problems or Recommendations (if more space is needed continue on the back of this form):
Problems or Recommendations (if more space is needed continue on the back of this form):

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Earth Bottom Channel Program

Biological Resources Monitoring Form
Reach Number: 92
Special Permit Conditions (list):
No special Permit Condition apply to thineach, but the general
Endition and meaning the permits apply.
Observation of Special Status Species: Wine observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photophy 11</u> , <u>pranke growth of user vegetations in a casta maintained</u> ; cluven mot a problem.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: <u>flue Much</u> Date: <u>Augurt 19 2020</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. That 23, 24, Lage Scrubs / allustal lage Scrub.
Compliance with Permit Conditions: Full / Partial
If nartial compliance is annarent describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Kine Mont</u> Date: <u>Recember 11,2020</u>

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Revised 2016

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Biological Resources Monitoring Form '3 Reach Number: Special Permit Conditions (list): permit on tim on Della permits unit (and Observation of Special Status Species: None disen **Pre-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Phiton 1415! mend Vegetation in area Date: august Name of Biological Monitor: 15 me Monu 19,2020 **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Chapaval, and omenantal ,20; Oak Vegetation. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Stere Moule Date: December 11,2020 Name of Biological Monitor:

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Biological Resources Monitoring Form

Reach Number: <u>94</u>
Special Permit Conditions (list):
No special permit Condition lister for This reach, but the
general Condition and measurer of the permite apply.
Observation of Special Status Species: None observed.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 10, 11, 12, 13</u> ; Very sparse growth of meanal Vegetation <u>Marea Matural University and a problem</u> .
Name of Biological Monitor: Stre Morrie Date: August 19,202
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 15, 16, 17, 18; Omanner Cel and ruderal Vegetation dominant</u> , but some chappened species present, also one law honging oil branch,
Compliance with Permit Conditions: Full Partial
if partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Stere Marin</u> Date: December 11, 202

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Biological Resources Monitoring Form

biological Resources Monitoring Form
Reach Number: 95
Special Permit Conditions apply to this reach
Observation of Special Status Species: Nove observed
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1-4; sparse growth of tumbleweed in area maintained, measures not a problem.
Name of Biological Monitor: Squal Thomas Date: 5/25/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Savah Mongs Date: 12/2/20

Biological Resources Monitoring Form

Reach Number: <u>96</u>
Special Permit Conditions (list): Hand clearing only.
Observation of Special Status Species: None ubserved.
Pre-Clearing Documentation Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1,2; Cipacian herbaceus and ruberal vegetation in grea</u> <u>maintained; Arundo present north of brubge</u>
Name of Biological Monitor: <u>Trew Brittle</u> Date: <u>Aug. 28, 2020</u> Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1,2; willows, onkes, and some ornamental vegetation</u> .
Compliance with Permit Conditions: Full <u>Partial</u> If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form): Some Arundo still present downstream of bridge
Name of Biological Monitor: Trevor Bristle Date: Nov. 25, 2020

Biological Resources Monitoring Form

Reach Number:	
Special Permit Conditions (list): <u>Operator shall not impact the Vegetation (1.17 acres) al</u> <u>Consumer in 1997. Special permit Conditions immed on</u> <u>apply to tain real (Starklibert) Major the 2005, but not</u> Observation of Special Status Species: <u>None observed</u> .	2000ed 12/9/03 since),
Pre-Clearing Documentation	
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive presestimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photon 20</u> 21, 22, <u>Riparian herband reband begetation of a sea</u> <u>mentaine</u> ; <u>anverse motographican</u> .	ent & cover
Name of Biological Monitor: ftm Month Date: August Post-Clearing Documentation	<u> </u>
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, arrows to indicate important features). Estimate amount of invasives removed. Phote 4,5,6; Willows, Cottonwoode, and Mule Fat.	include
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, arrows to indicate important features). Estimate amount of invasives removed. Photer 4,5,6; Willows, Cottonwoode, and Mule Fat. Compliance with Permit Conditions: Full / Partial	include
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, arrows to indicate important features). Estimate amount of invasives removed. Photer 4,5,6; Willows, Cottonwoode, and Mule Fat. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:	include
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, arrows to indicate important features). Estimate amount of invasives removed. Photec 4,5,6; Wellows, Cottonwoole, and Mule Fat. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances:	include

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Biological Resources Monitoring Form

Reach Number: Special Permit Conditions (list): 0.03 reres. oxeed Inpacts 0 not **Observation of Special Status Species:** plaserillo ow, **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Martation to be cleared is enjugite cattails and non-Som oth as aranes herbaceous cleatine anotas Date: Quant Lindson Messett Name of Biological Monitor: 19 2020 **Post-Clearing Documentation** Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. banks, Invesives not an resive. Photos 1.2: Vegetation deared neur Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form): Date: Jan. 27,2021 findsay Messelt Name of Biological Monitor:

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list): No special permit Conditions putain to this reach, but the general Conditions and meaning the permis apply.
Observation of Special Status Species: None observad.
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photops/k/1718,11,20,21 niportan herb, omenand, Willow Brancher,</u> <u>and under Vegetation in area mainterneed</u> ; <u>Aurundo and</u> <u>anterneent</u> .
Name of Biological Monitor: <u>ITur Month</u> Date: <u>Augurt 21, 2020</u> Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 30, 31, 32, 33, 34, 35</u> ; Mortly omamutal Vegetation but also tome oaks, willows, and hycamores:
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: <u>Scarber 72, 2020</u>

Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: /00
Special Permit Conditions (list):
No special permit Condition pertain to this reach, but the
general andition and meaner of the permite apply.
Observation of Special Status Species: Nove oftenned,
PreClearing Documentation
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 4,516; Ripanin herb, omenantel</u> , and weber Vegetation <u>Marca maintained</u> ; <u>Cluvermen not a problem</u> .
Name of Biological Monitor: faile Montes Date: August 22, 2020
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photon 1,2,3</u> ; Willow, Oak, and Omenand Vegetation,
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Stre March Date: January 21, 2021

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Biological Resources Monitoring Form

Reach Number: 10%
Special Permit Conditions (list): <u>NO Special permit conditions apply to this reach</u> .
Observation of Special Status Species: <u>Nove deserved</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Motos 1, 2, 3, 4, 5; MIX of (attails, riparian schub, and herbaccens species, Invasives not a problem.
Name of Biological Monitor: <u>Sqrah Thomas</u> Date: <u>8/21/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1,2,3,1,5, all vegetation removed (n</u> <u>Channel, Orngmental vegetation occurs ajacent.</u>
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
· · · · ·
Name of Biological Monitor: Sarah Thung Date: 8/13/21

Diological Action to Monitoring 1 0111
Reach Number: 1/2
Special Permit Conditions (list):
NO Special Permit conditions pertain to the upper part of this
reach where work is now permitted.
Observation of Special Status Species: None Observed
Pre-Clearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photo I; Cattails & bulrushes Present as well as her baceous (Mix
OF Mative & NON-Native Stecies) vegetation; narea Maintained. LAVasive
<u>ure not an 1530c.</u>
Name of Biological Monitor: <u>Christhian Mace</u> Date: <u>08/20/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
<u>Photo</u> is <u>Native Vegetation (i.e., Cartails & builtushes</u>) <u>Remains</u> Untouched in the reach.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/19/2

Earth Bottom Channel Program

Reach Number:
Special Permit Conditions (list):
No special permit conditions pertain to this reach
Observation of Special Status Species: <u>None observed</u>
PreClearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1_{2} , 3_{1} , 4_{1} , 5_{2} , 6_{3} ; 1_{2} , 1_{3} , 1_{4} , 1_{5} , 1_{6} ; 1_{2} , 1_{4} , 1_{6}
Sediment banks at toe OF LEFT & right bank levees between P.C.H } ang Heim ST.
Name of Biological Monitor: Date: 08/27/20
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos $3, 4, 5$: Un Vegetated
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: Jack Underwood Date: 08/19/21

Earth Bottom Channel Program

Reach Number: 115	
Special Permit Conditions (list):	
Clearing of vegetation on banks Shall occur with avoidance	2
Measures implemented for quoiding impacts to green sear turtles \$ 1	roostin
Observation of Special Status Species: 1/000 Observed	
Pre-Clearing Documentation	
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)	cover
Photos 1,2, 3,4,5,6,7; both banks have a mix of orno	AMPNTO
Trees 3 Shrubs. The Most dense Uggetation is wanted Upstream, Vi	<u>cgetat</u> i
15 legs dense downstream, some grundlo z castor bean present	
Name of Biological Monitor: Christhian Mace Date: 08/27/2	0
Post-Clearing Documentation	
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.	
Photos 5,6,7; Non-native species removal completed on righ (wes	<u>r)</u>
bank, Some castor bean regrowing. Left (East) bank contains	,
Many Ornamental Shrubs 3 Trees.	
Compliance with Permit Conditions: Full Partial	
If partial compliance is apparent, describe circumstances:	
Problems or Recommendations (if more space is needed continue on the back of this form):	
Name of Biological Monitor: Jack Under Date: 00/10/2	
	.1

Biological Resources Monitoring Form
Reach Number: 118
Special Permit Conditions (list):
NO Special Permit conditions Pertain to this Reach
Observation of Special Status Species: <u>None</u> Observed
Pre-Clearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1,2,3,4,5; dense herba ceaus vegatorion in area
Maintained, invasives not a Problem.
Name of Biological Monitor: <u>Christhian Mace</u> Date: <u>08/20/20</u>
Post-Clearing Documentation
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.
Thotos 1, 2, 3, 4, 5; all vegetation removed from inside of channel. Jome
Or numerital vege Fation yangs over Side of Unannel.
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor:
County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Biological Resources Monitoring Form		
Reach Number: 119		
Special Permit Conditions (list):		
No special permit conditions pertain to this reach.		
Observation of Special Status Species: Noncobserved		
Pre-Clearing Documentation		
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <u>Photos 1, 2, 3, 4; dense herbaceous vegetation in area Maintained.</u> <u>Invasives are not a Problem</u>		
Name of Biological Monitor: (hristnign Mare Date: 08/20/20		
Post-Clearing Documentation		
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. <u>Photos 1, 2, 3, 4; all vegetation removed from inside of Channel,</u> <u>Some willows near the upper end of the reach \$ some ornanental vegetation</u>		
hang over side of the channel		
Compliance with Permit Conditions: Full $$ Partial		
If partial compliance is apparent, describe circumstances:		
Problems or Recommendations (if more space is needed continue on the back of this form):		
Name of Biological Monitor: Jack Underwood Date: 08/19/2		

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ATTACHMENT NO. 4

BIOLOGICAL SURVEY AND REPORTS

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MEMORANDUM

October 28, 2021

To: Ahmet Atatlilioglu Los Angeles County Flood Control District Stormwater Maintenance Division From: Marc Blain Psomas

Subject: 2020–2021 Biological Monitoring at Reach 115 During All Work Operations

INTRODUCTION

Psomas conducted biological monitoring from October 1, 2020 to February 3, 2021 during maintenance activities occurring in Los Angeles County Flood Control District's (LACFCD's) Soft-bottom Channel Reach 115. Full time monitoring of this reach is required due regulatory permit conditions stemming from the known presence of federally threatened green sea turtle (*Chelonia mydas*).

SITE LOCATION AND DESCRIPTION

Reach 115 is a nearly 4-mile segment of the San Gabriel River located in southeastern Los Angeles County between the cities of Los Alamitos and Seal Beach (Exhibit 1). The upstream terminus of Reach 115 is located north of Interstate 405 approximately 1,750 feet upstream at confluence of Coyote Creek and continues downstream until the channel empties into the Pacific Ocean. The channel consists of an earthen-bottom, or soft-bottom, with earthen levees on each bank with ungrouted rip-rap (e.g., large boulders) on top. Mature vegetation in the upper portions of Reach 115, within lower sections of the levee, and within sediment benches at the toe of the levee was established on both banks. This vegetation was removed from the right bank (west side of the river) during the 2018-2019 and 2019–2020 maintenance years. Vegetation diminishes moving downstream with no vegetation present downstream of the Pacific Coast Highway Bridge. The entire length of Reach 115 is tidally influenced. The Project site is located within the Los Alamos and Seal Beach U.S. Geological Survey (USGS) 7.5-minute quadrangles.

METHODS

Prior to initiating work activities in the 2020-2021 season, Psomas Biologist Cristhian Mace conducted a pre-maintenance survey on August 22, 2020. Ms. Mace walked the entire Project site to ensure flagging was in place for trees marked as potential colonial bat habitat. Ms. Mace also took pre-clearing photos (Exhibits 2a-1 to 2a-4), and made note of the dominant vegetation regrowth, species composition, and any noxious invasive species present in the reach.

Maintenance activities at Reach 115 commenced on October 1, 2020 and consisted of tree removal, shrub removal (including noxious species such as castor bean), and herbaceous plant removal. A premaintenance sweep was conducted by the biologist each morning prior to work activities to check for presence of sea turtles, bats, or any other potential biological concerns. Trees marked as potential bat habitat were removed in a two-step process whereby on the first day the tree is felled, then removed the following day. Castor bean seeds were cut and bagged prior to the shrubs being removed. Various types of equipment were used to clear vegetation during maintenance activities including excavators, backhoes, pick-up trucks, and hand tools (Exhibits 2b-1 to 2b-3). Ahmet Atatlilioglu October 28, 2021 Page 2

During work activities, the biologist scanned for any potential project impacts to the habitat and or wildlife, closely watching for green sea turtle activity. If any potential for impacts were observed, the biologist halted work temporarily to mitigate the potential impacts which typically involved waiting until green sea turtles vacated the 50-foot no-work buffer. Additionally, during all work activities a boom was installed to prevent cut vegetation debris accumulation in the channel, and it could be easily removed from shore.

RESULTS

No impacts to any sensitive wildlife species were observed during work activities. Work activities were completed on February 3, 2021. All vegetation, including trees, were removed from the right bank during this 2020 – 2021 maintenance season. No impacts to habitat or wildlife were observed during the vegetation maintenance. A post-maintenance vegetation survey was conducted with photos being taken in the same geographic location to show the completed work. (Exhibits 2c-1 to 2c-3)

Enclosures: Exhibits 1 to 2a–c

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View of San Gabriel River before biological monitoring of vegetation removal.



View of San Gabriel River before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-1

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River before biological monitoring of vegetation removal.



View of San Gabriel River before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-2

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River before biological monitoring of vegetation removal.



View of San Gabriel River before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-3

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-4

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River during biological monitoring of vegetation removal.



View of San Gabriel River during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b–1

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River during biological monitoring of vegetation removal.



View of San Gabriel River during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b-2

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of green sea turtle observed in San Gabriel River during biological monitoring of vegetation removal.



View of California sea lion in San Gabriel River during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b-3

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River after biological monitoring of vegetation removal.



View of San Gabriel River after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c–1

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River after biological monitoring of vegetation removal.



View of San Gabriel River after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c–2

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach



View of San Gabriel River after biological monitoring of vegetation removal.

Exhibit 2c-3

PSOMAS

Biological Monitoring at San Gabriel River Soft-Bottom Channel Reach

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Balancing the Natural and Built Environment

April 6, 2021

Ms. Nandini T. Moran Los Angeles County Flood Control District Stormwater Maintenance Division 900 South Fremont Avenue, Annex Building, 2nd Floor Alhambra, California 91803-1331 VIA EMAIL ntmoran@dpw.lacounty.gov

Subject: Results of Biological Monitoring at Reach 118 (Rustic Canyon) and Reach 119 (Rivas Canyon) Soft-Bottom Channel Reaches in the Community of Pacific Palisades, City of Los Angeles, California

Dear Ms. Moran:

This Letter Report presents the results of biological monitoring for maintenance activities conducted by the Stormwater Maintenance Division (SWMD) of the Los Angeles County Flood Control District (LACFCD) at Soft-Bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) in the Community of Pacific Palisades, City of Los Angeles, California (hereinafter referred to as the "Project").

PROJECT DESCRIPTION AND LOCATION

Soft-bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) were added to the LACFCD's Long Term Lake or Streambed Alteration Agreement (LSAA) No. 1600-1999-0076-R5 for "Routine Maintenance of Earth Bottom Channels" per an amendment dated October 17, 2014. The maintenance plan for these two Soft-bottom channel (SBC) reaches involves vegetation removal by hand tools and, as necessary, rubber-tracked skip loader or skid steer machines. Also permitted are minor repairs, under LSAA No. 1600-2014-0238-R5, such as filling small voids with onsite materials, repairing deficiencies in walls and/or support structures, and other miscellaneous items that may be encountered during the course of annual maintenance activities.

The Project is located within the coastal community of Pacific Palisades on the west side of the City of Los Angeles, California. SBC Reaches 118 and 119 are contiguous upper and lower segments of the Rustic/Rivas Canyon Creeks located south of Sunset Boulevard (Exhibit 1). SBC Reach 119 extends approximately 1,200 feet from Sunset Boulevard to its confluence with Rustic Canyon Channel (SBC Reach 118). SBC Reach 118 consists of a portion of Rustic Canyon Channel from the confluence with Rivas Canyon Creek downstream approximately 3,200 feet to Rustic Road, where the channel transitions to a concrete-lined storm drain. Project elevations range from approximately 190 to 275 feet above mean sea level (msl). The Project site is located within the Topanga U.S. Geological Survey (USGS) 7.5-minute quadrangle.

225 South Lake Avenue Suite 1000 Pasadena, CA 91101

Tel 626.351.2000 Fax 626.351.2030 www.Psomas.com

PSOMAS

Nandini T. Moran Page 2 April 6, 2021 Reach 118 and Reach 119 Pacific Palisades

METHODS

Biological clearance surveys were conducted for the two-striped garter snake (*Thamnophis hammondii*) and all wildlife species onsite during all days of maintenance activities by Psomas Biologists Cristhian Mace, Sarah Thomas, Jonathan Feenstra, and Senior Biologists Marc Blain, Lindsay Messett, and Jonathan Aguayo. A total of fifteen biological clearance surveys were conducted on October 2, 3, 5-10, 26, 27, and December 7-11, 2020. Weather conditions during the surveys included temperatures ranging from approximately 52 to 67 degrees Fahrenheit, with wind speeds ranging from 0 to 3 miles per hour, and zero to 100 percent cloud cover.

Clearance surveys were conducted prior to ground disturbing activities. The surveys were conducted early in the morning at areas planned for vegetation removal. The biologists thoroughly searched rock crevices, animal burrows, leaf litter, loose rocks, logs, and debris to determine if any wildlife species were present. If any wildlife species were observed during clearance surveys, the biological monitor was prepared to relocate animals to appropriate habitat a safe distance away from maintenance activities. Photographs documenting Reach 118 and 119 before, during, and after maintenance monitoring are provided in Exhibits 2a, 2b, and 2c.

RESULTS

No sensitive plant or wildlife species were observed at the site before and during the maintenance of these facilities. No wildlife species were relocated for this project. A complete list of all wildlife species detected during the surveys is provided in Attachment A.

Psomas appreciates the opportunity to assist on this project. If you have any comments or questions, please call Marc Blain at (626) 351-2000.

Sincerely, **PSOMAS**

num. Admator

Ann M. Johnston Vice President, Resource Management

Marc T. Blain Senior Project Manager

Enclosures:

Exhibit 1 – Regional Location and Project Vicinity Exhibit 2a-1–2a-5 – Pre-monitoring Photographs Exhibit 2b-1–2b-2 – Monitoring Photographs Exhibit 2c-1–2c-5 – Post-monitoring Photographs Attachment A – Wildlife Compendium

cc: Rainer Globus (RGLOBUS@dpw.lacounty.gov)

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View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-2

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-3

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-4

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-5

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon during biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.

Exhibit 2c-1

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.

Exhibit 2c-2

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Exhibit 2c-3

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Exhibit 2c-4

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Exhibit 2c-5

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches

ATTACHMENT A

WILDLIFE COMPENDIUM

WILDLIFE COMPENDIUM

Scientific Name	Common Name	
AMPHIBIANS		
HYLIDAE - TRE	EFROG FAMILY	
Pseudacris cadaverina	California treefrog	
Pseudacris hypochondriaca	Baja California treefrog	
LIZARDS		
PHRYNOSOMATIDAE - SPINY LIZARD FAMILY		
Sceloporus occidentalis	western fence lizard	
Uta stansburiana	common side-blotched lizard	
BIRDS		
COLUMBIDAE - PIGEON AND DOVE FAMILY		
Patagioenas fasciata	Band-tailed pigeon	
Zenaida macroura	mourning dove	
TROCHILIDAE - HUMMINGBIRD FAMILY		
Calypte anna	Anna's hummingbird	
Selasphorus sasin	Allen's hummingbird	
LARIDAE - GULL AND TERN FAMILY		
Larus delawarensis	Ring-billed gull	
Larus occidentalis	western gull	
ACCIPITRIDAE	- HAWK FAMILY	
Accipiter cooperii	Cooper's hawk	
Buteo lineatus	red-shouldered hawk	
Buteo jamaicensis	red-tailed hawk	
PICIDAE - WOOE	PECKER FAMILY	
Melanerpes formicivorus	acorn woodpecker	
Picoides nuttallii	Nuttall's woodpecker	
Picoides pubescens	downy woodpecker	
Colaptes auratus	northern flicker	
PSITTACIDAE - PARROT FAMILY		
Aratinga nenday	Nanday parakeet	
Amazona viridigenalis	red-crowned parrot	
TYRANNIDAE - TYRANT FLYCATCHER FAMILY		
Contopus pertinax	greater pewee	
Empidonax difficilis	Pacific-slope flycatcher	
Sayornis nigricans	black phoebe	
VIREONIDAE - VIREO FAMILY		
Vireo huttoni	Hutton's vireo	
CORVIDAE - JAY A	ND CROW FAMILY	
Aphelocoma californica	California scrub-jay	
Corvus brachyrhynchos	American crow	
Corvus corax	common raven	
PARIDAE - TITMOUSE FAMILY		
Baeolophus inornatus	oak titmouse	
AEGITHALIDAE - BUSHTIT FAMILY		
Psaltriparus minimus	bushtit	

WILDLIFE COMPENDIUM

Scientific Name	Common Name	
SITTIDAE – NUTHATCH FAMILY		
Sitta carolinensis	white-breasted nuthatch	
TROGLODYTIDAE - WREN FAMILY		
Troglodytes aedon	house wren	
Thryomanes bewickii	Bewick's wren	
REGULIDAE - KINGLET FAMILY		
Regulus calendula	ruby-crowned kinglet	
TURDIDAE - THRUSH FAMILY		
Catharus guttatus	hermit thrush	
Turdus migratorius	American robin	
MIMIDAE - MOCKINGBIRD AND THRASHER FAMILY		
Mimus polyglottos	northern mockingbird	
STURNIDAE - STARLING FAMILY		
Sturnus vulgaris	European starling	
BOMBYCILLIDAE - WAXWING FAMILY		
Bombycilla cedrorum	cedar waxwing	
PASSERIDAE - OLD WC	RLD SPARROW FAMILY	
Passer domesticus	house sparrow	
FRINGILLIDAE	- FINCH FAMILY	
Haemorhous mexicanus	house finch	
Spinus psaltria	lesser goldfinch	
PASSERELLIDAE - NEW WORLD SPARROW FAMILY		
Pipilo maculatus	spotted towhee	
Melozone crissalis	California towhee	
Melospiza melodia	song sparrow	
Zonotrichia leucophrys	white-crowned sparrow	
Junco hyemalis	dark-eyed junco	
PARULIDAE - WOOD-WARBLER FAMILY		
Oreothlypis celata	orange-crowned warbler	
Setophaga coronata	yellow-rumped warbler	
Setophaga townsendi	Townsend's warbler	
Cardellina pusilla	Wilson's warbler	
MAMMALS		
SCIURIDAE - SQUIRREL FAMILY		
Sciurus niger	eastern fox squirrel	
Otospermophilus beecheyi	California ground squirrel	

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ATTACHMENT NO. 5

2020-21 SOFT-BOTTOM CHANNEL PRE- AND POST-MAINTENANCE PHOTOS [This page is intentionally left blank]

Reach 1

Bell Creek — MTD 963 M.C.I.

Before Photos 8/20/20









Reach 2

Dry Canyon (Calabasas) P.D. T1845

Before Photos 8/22/20













Reach 3

Santa Susana Creek M.C.I.

Before Photos 8/21/20









Reach 4

Browns Creek

Before Photos 8/21/20









Reach 5

Caballero Creek M.C.I. (West Fork)

Before Photos 8/22/20













Reach 6

Caballero Creek M.C.I. (East Fork)

Before Photos 8/22/20









Reach 7

Bull Creek M.C.O.

Before Photo 8/20/20













Reach 8

Hayvenhurst Drain — Project 470 Outlet

Before Photos 8/22/20









Reach 9

Project 106 Outlet

Before Photos 8/21/20









Reach 10

Project No. 469

Before Photos 8/21/20

After Photos 4/10/21













Reach 10

Project No. 469

Before Photos 8/21/20

After Photos 4/10/21





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Reach 14

May Channel (M.C.O. into Pacoima Canyon)

Before Photos 08/19/20













Reach 15

Pacoima Wash

Before Photos 8/21/20













Reach 15

Pacoima Wash

Before Photos 8/21/20









Reach 16

Verdugo Wash — Las Barras Canyon (Channel Inlet)

Before Photos 8/24/20









Reach 18

Engleheard Channel

Before Photos 8/24/20













Reach 19

Pickens Canyon

Before Photos 8/24/20









Reach 20

Webber Channel (Storm at Private Bridge)

Before Photos 8/24/20









Reach 21

Webber Channel (Main Channel Inlet d/s Bridge)

Before Photos 8/24/20









Reach 22

Halls Canyon

Before Photos 8/24/20













Reach 24

Compton Creek

Before Photos 8/23/20













Reach 24

Compton Creek

Before Photos 8/23/20









Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/23/20













Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/23/20









Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/23/20













Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/23/20









Reach 26

Project 740

Before Photos 8/23/20













Reach 26

Project 740

Before Photos 8/23/20













Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/19/20













Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/19/20









Reach 28

Triunfo Creek (P.D. T2200)

Before Photos 8/20/20













Reach 29

Las Virgenes Creek (P.D. T1684) M.C.I.

Before Photos 8/20/20













Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/20/20












Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/20/20





Reach 33 Medea Creek (P.D. T1378 U.2)

Before Photos 8/20/20













Reach 35

Medea Creek Main Channel Inlet — Under Route 101

Before Photos 8/20/20









Reach 36

Cheseboro Main Channel Inlet

Before Photos 8/20/20









Reach 37

Medea Creek/Cheseboro Creek Outlet

Before Photos 8/20/20









Reach 38

Lindero Main Channel Outlet

Before Photos 8/20/20









Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/19/20













Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/19/20





Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/21/20













Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/21/20









Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/21/20













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/21/20













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/21/20













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/21/20













Reach 41

Walnut Creek — Baldwin Park to San Gabriel River

Before Photos 8/24/20













Reach 42

San Jose Creek d/s 1000 feet from end of concrete channel

Before Photos 8/24/20

After Photos 4/10/21













Reach 43a

San Gabriel River — Upper

Before Photos 8/25/20













Reach 43a

San Gabriel River — Upper

Before Photos 8/25/20









Reach 43b

San Gabriel River — Lower

Before Photos 8/25/20













Reach 43b

San Gabriel River — Lower

Before Photos 8/25/20





Reach 1

Bell Creek — MTD 963 M.C.I.

Before Photos 8/20/20









Reach 2

Dry Canyon (Calabasas) P.D. T1845

Before Photos 8/22/20













Reach 3

Santa Susana Creek M.C.I.

Before Photos 8/21/20









Reach 4

Browns Creek

Before Photos 8/21/20









Reach 5

Caballero Creek M.C.I. (West Fork)

Before Photos 8/22/20













Reach 6

Caballero Creek M.C.I. (East Fork)

Before Photos 8/22/20









Reach 7

Bull Creek M.C.O.

Before Photo 8/20/20













Reach 8

Hayvenhurst Drain — Project 470 Outlet

Before Photos 8/22/20









Reach 9

Project 106 Outlet

Before Photos 8/21/20









Reach 10

Project No. 469

Before Photos 8/21/20

After Photos 4/10/21













Reach 10

Project No. 469

Before Photos 8/21/20

After Photos 4/10/21





Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/20













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/20













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/20













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/20













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/20




Reach 45

Sand Canyon (P.D. T1307) Main Channel Inlet

Before Photos 8/25/20









Reach 46

Sand Canyon (P.D. T1307) Main Channel Outlet

Before Photos 8/25/20









Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/25/20













Reach 48

Mint Canyon Channel between Sierra Highway & Adon Avenue

Before Photos 8/25/20









Reach 49

Mint Canyon Channel between Adon Avenue & Scherzinger Lane

Before Photos 8/25/20









Reach 50

Mint Canyon Channel between Solamint Road and Soledad Canyon Road

Before Photos 8/25/20









Reach 51

Mint Canyon M.C.O. (P.D. 1894)/Santa Clara River — Main Channel

Before Photos 8/25/20









Reach 52

Sierra Highway Road Drainage (CDR 523.203)

NO WORK DONE

Before Photos 8/25/20



Reach 53

Santa Clara River Non-Main Channel (P.D. 832) Main Channel Inlet

Before Photos 8/25/20









Reach 54

Santa Clara River Non-Main Channel (P.D. 832) Main Outlet Channel

Before Photos 8/25/20









Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/27/20













Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/27/20













Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/27/20









Reach 56

Santa Clara River Main Channel — Left Bank Reach (P.D. 832)

Before Photos 8/26/20

After 11/24/20













Reach 57

Whites Canyon (P.D. T704 Main Channel Inlet)

Before Photos 8/25/20













Reach 58 (combined with Reach 59)

Santa Clara River Main Channel — Right Bank Reach (P.D. 374)

Before Photos 8/26/20













Reach 58 (combined with Reach 59) Santa Clara River Main Channel — Right Bank Reach (P.D. 374) Before Photos 8/26/20 After Photos 12/2/20









Reach 60

Santa Clara River Main Channel — Right Bank Reach (P.D.'s 1339 and 374)

Before Photos 8/26/20













Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/26/20













Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/19/20













Reach 63

Oak Avenue Road Drainage (CDR 523.081)

Before Photos 8/25/20













Reach 64

Soledad Canyon Road Drainage (CDR 523.071 D Outlet)

Before Photos 8/24/20













Reach 66

Santa Clara River Main Channel (P.D. 1538)

Before Photos 8/26/20









Reach 69

Bouquet Canyon Middle (P.D.'s 722, 773, 1365, 1065, and 451)

Before Photos 8/27/20













Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/27/20













Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/27/20





Reach 71

Santa Clara River Main Channel (P.D. 1946)

Before Photos 8/28/20

After Photos 08/17/21









Reach 72

South Fork — SCR (Smizer Ranch Main Channel Inlet)

Before Photos 8/20/20









Reach 73

Wildwood Canyon Channel (P.D. T361) Main Channel Inlet

Before Photos 8/20/20

After Photos: NO WORK DONE



NO WORK DONE



NO WORK DONE

Reach 76

Pico Canyon (P.D. 813)

Before Photos 8/19/20













Reach 77

Newhall Creek Outlet

Before Photos 8/18/20









Reach 78

Placerita Creek

Before Photos 8/19/20









Reach 79

South Fork — Santa Clara River (Valencia Boulevard Bridge Stabilizer)

Before Photos 8/20/20













After photos 12/23/20

Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/20/20












Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/20/20

After photos 12/25/20





Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/20/20















Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/20/20





Reach 86

Violin Canyon Main Channel Outlet

Before Photos 8/19/20













Reach 87

Castaic — Old Road Drainage (CDR 525.021D) Outlet

Before Photos 8/19/20









Reach 88

Hasley Canyon Upper (P.D. T1496)

Before Photos 8/19/20









Reach 89

Hasley Canyon South Fork (P.D. T1496)

Before Photos 8/19/20





Reach 90

Hasley Canyon Lower (North Fork P.D. T1496)

Before Photos 8/20/20













Reach 91

San Martinez Chiquito Canyon Channel u/s of Keningston Road

Before Photos 8/19/20









Reach 92

San Martinez Chiquito Canyon (North Fork) Unnamed

Before Photos 8/19/20









Reach 93

San Martinez Chiquito Canyon between Keningston Road and Val Verde Park

Before Photos 8/19/20









Reach 95

Project No. 1224

Before Photos 8/25/20













Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/20/20





Reach 86

Violin Canyon Main Channel Outlet

Before Photos 8/19/20













Reach 87

Castaic — Old Road Drainage (CDR 525.021D) Outlet

Before Photos 8/19/20









Reach 88

Hasley Canyon Upper (P.D. T1496)

Before Photos 8/19/20









Reach 89

Hasley Canyon South Fork (P.D. T1496)

Before Photos 8/19/20





Reach 90

Hasley Canyon Lower (North Fork P.D. T1496)

Before Photos 8/20/20













Reach 91

San Martinez Chiquito Canyon Channel u/s of Keningston Road

Before Photos 8/19/20









Reach 92

San Martinez Chiquito Canyon (North Fork) Unnamed

Before Photos 8/19/20









Reach 93

San Martinez Chiquito Canyon between Keningston Road and Val Verde Park

Before Photos 8/19/20









Reach 95

Project No. 1224

Before Photos 8/25/20













Reach 95

Project No. 1224

Before Photos 8/25/20





Reach 96

PD 1591, Calabasas

Before Photos 8/22/20

After Photos 11/25/20









Reach 97

P.D. T1982, Castaic Creek

Before Photos 8/19/20













Reach 98

Walnut Creek — Channel Inlet

Before Photos 8/19/20









Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/21/20













Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/21/20













Reach 100

Dry Canyon, Calabasas Creek Inlet

Before Photos 8/22/20













Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/21/20







Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/21/20





Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/20







Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/20







Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/20



Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/28/20







Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/28/20






Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE







Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE







Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE







Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE







Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE







Reach 106

Castaic Drain Outlet

NO WORK DONE







Reach 106

Castaic Drain Outlet

NO WORK DONE



Reach 107

The Old Road Channel

NO WORK DONE







Reach 101

The Old Road Channel

NO WORK DONE



Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/21/20

After Photos 8/13/21













Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/21/20

After Photos 8/13/21









Reach 109

Santa Clara River — South Bank West of McBean Parkway (MTD1510)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE







Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE





Reach 112

Ballona Creek

Before Photos 8/20/20

After Photos 8/19/21



NO WORK DONE

IN THIS AREA



NO WORK DONE



Reach 112

Ballona Creek

Before Photos 8/20/20

After Photos 8/19/21



NO WORK DONE

IN THIS AREA



NO WORK DONE



Reach 112

Ballona Creek

Before Photos 8/20/20

After Photos 8/19/21



NO WORK DONE IN THIS AREA [This page is intentionally left blank]

Reach 114

Los Angeles River

Before Photos 8/27/20

After Photos 8/19/21



NO WORK DONE

IN THIS AREA







Reach 114

Los Angeles River

Before Photos 8/27/20

After Photos 8/19/21











Reach 115

San Gabriel River

Before Photos 8/27/20

After Photos 8/19/21



NO WORK DONE

IN THIS AREA



NO WORK DONE



Reach 115

San Gabriel River

Before Photos 8/27/20

After Photos 8/19/21













Reach 115

San Gabriel River

Before Photos 8/27/20

After Photos 8/19/21





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ATTACHMENT NO. 6

WATER QUALITY MONITORING SUMMARY REPORTS

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I CHANNEL 12)		LATITUDE (approx.)	Pre-Clearing/Baseline
		LONGITUDE (approx.)	
		ELEVATION (approx.)	
		TIME	
	20	SAMPLE NO.	
δIJ	202	TEMPERATURE (°C)	For December 3, 2020, Garo Avoyan arrived at 1000 on site to
ACAX	3/2	Ηα	Baseline was done one (1) day before scheduled start date. N
Å Å	12/	TURBIDITY (NTUs)	project did not meet Regional Water Quality Control Board per
O E		DISSOLVED O ₂ (mg/L)	The pro
HAINES		TOTAL SUSPENDED SOLIDS (mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
Ш Z		LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
Η		TIME	
D C	0	SAMPLE NO.	
δı	502	TEMPERATURE (°C)	For December 4, 2020, 1st day of field work, Garo Avoyan arrive
N Z Z	4/2	рН	Channel Reach 12. No water flow present. Water guality sa
Ă Ĕ	12/	TURBIDITY (NTUs)	Ouality Control Board permit requirements.
С Щ	ì	DISSOLVED O ₂ (mg/L)	
HAINES		TOTAL SUSPENDED SOLIDS (mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
≶ L X	0	TIME	
Δ Щ Τ Τ Ζ Ζ	02	SAMPLE NO.	For December 7, 2020, 2nd day of field work. Care Aveyan arriv
O Z C	/2	TEMPERATURE (°C)	For December 7, 2020, 2nd day of field work, Garo Avoyan arriv
E A E S	2/7	Ηα	Channel Reach 12. No water how present. Water quality sa
N C N	-	TURBIDITY (NTUs)	Quality Control Board permit requirements.
∀ T		DISSOLVED O ₂ (ma/L)	
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
	12/8/2020	LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
ג ר א		TIME	
ΖЩ ΖΖΤ		SAMPLE NO.	For December 8, 2020, last day of field work, Gare Aveyan arriv
O Z O		TEMPERATURE (°C)	Posch 12. No water flow present. Water guality sampling and
ЫH		рН	Reach 12. No water now present. Water quality sampling and
ΪO Έ		TURBIDITY (NTUs)	Board permit requirements. GWED V
dΗ		DISSOLVED O ₂ (mg/L)	
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	Post-Work WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
ג עד	0	TIME	
Z Щ –	02	SAMPLE NO.	
υźζ)/2	TEMPERATURE (°C)	For December 10, 2020, Issac Ochoa and Garo Avoyan arrived a
Н Н Н Р	11(pH	Reach 12. No water flow present. Water quality sampling and
N O N	12	TURBIDITY (NTUs)	
T I		DISSOLVED O ₂ (mg/L)	
<u></u>		TOTAL SUSPENDED SOLIDS (mg/L)	

o perform baseline water quality sampling and monitoring at Haines Canyon Channel Reach 12. No water flow present. Water quality sampling and monitoring was not performed because the mit requirements. GMED will now perform daily monitoring to the area to re-confirm conditions. ject is "good to go' for December 4, 2020.

ed at 11105 on site to perform baseline water quality sampling and monitoring at Haines Canyon ampling and monitoring was not performed because the project did not meet Regional Water GMED will now perform daily monitoring to the area to re-confirm conditions.

ved at 0840 on site to perform baseline water quality sampling and monitoring at Haines Canyon ampling and monitoring was not performed because the project did not meet Regional Water GMED will now perform daily monitoring to the area to re-confirm conditions.

ved at 0840 on site to perform water quality sampling and monitoring at Haines Canyon Channel monitoring was not performed because the project did not meet Regional Water Quality Control will now perform daily monitoring to the area to re-confirm conditions.

at 1050 on site to perform post water quality sampling and monitoring at Haines Canyon Channel monitoring was not performed because the project did not meet Regional Water Quality Control Board permit requirements.

PACOIMA WASH (REACH 15)	020	LATITUDE (approx.)	34.2274513	34.2199523	34.214603	Pre-Clearing/Baseline
		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	For Tuesday, 09/15 – 5th day of field operations as well as bas the downstream and of the Pacoima Wash Channel; Garo Avoy to perform and met Juan Cabrera from Stormwater Maintena
		ELEVATION (approx.)	801	786	773	
		TIME	7:20	8:02	8:30	
		SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	
	5/2	TEMPERATURE (°C)	19.3	19.1	20	awaiting for us to compete water sampling and monitoring n
	9/15	рН	8.36	7.87	7.99	turbidity readings were good Between 0730 and 0830 collect
		TURBIDITY (NTUs)	2.1	0.72	0.67	Samples collected and submitted to American Environmental T
		DISSOLVED O ₂ (mg/L)	9.48	9.66	9.02	Garo Avoyan notified Juan Cabrera of the results and work can (6) working days then swi
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	
		LATITUDE (approx.)	34.2274513	34.2199523	34.214603	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	Below are the results of the water sampling/monitoring perfo
Н		ELEVATION (approx.)	801	786	773	wash channel Jean Carlo Palacios arrived onsite at annroxima
(AS	0	TIME	9:25	10:15	10:55	Palacios observed that much of the obstruction further down th
≤ [►]	02	SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	
ACI	6/2	TEMPERATURE (°C)	21.1	23	24.3	that exceeded the 20% threshold limit provided by the our
≡ A)/1(рН	9.09	8.14	8.34	turbidity from our internal results but still exceeded our upstre
S A R	0	TURBIDITY (NTUs)	3.45	189	6.55	and suggested additional installments of BMP throughout th
P/		DISSOLVED O ₂ (mg/L)	10.58	8.55	9.54	operation Water samples from the (3) testing locations have h
		TOTAL SUSPENDED SOLIDS (mg/L)	8	266	7	
		LATITUDE (approx.)	34.2274513	34.2199523	34.214603	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	
Н	9/17/2020	ELEVATION (approx.)	801	786	773	Below are todays results for water sampling/monitoring of the
5)		TIME	9:45	10:30	10:55	same locations as yesterday. Much of the vegetation and de
≤ -		SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	upstream, the midstream location had turbidity reading appr
A A		TEMPERATURE (°C)	20.52	22.77	23.73	decrease in comparison to our initial upstream turbidity read
OII E A		рН	9.08	8.38	8.12	internal sampling location and downstream location. A ma debris from the midstream point to the downstream location suggested along the channel N/o the midstream sampling lo
ОÅ Я		TURBIDITY (NTUs)	7.57	9.56	6.44	
P/		DISSOLVED O ₂ (mg/L)	10.36	9.64	10.58	
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	12	8	Enviro
	9/18/2020	LATITUDE (approx.)	34.2274513	34.2199523	34.214603	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	
Н		ELEVATION (approx.)	801	786	773	
5)		TIME	8:30	9:15	9:40	Below are the testing results of the water sampling/monitoring
≥ -		SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	was cleared of the remaining vegetation and debris prior to t
AA ACI		TEMPERATURE (°C)	19.18	20.48	22.26	results from the midstream location yielded a decrease of app
≡ A		рН	8.22	7.69	7.85	channel between the midstream point and the downstream lo
DA R)		TURBIDITY (NTUs)	7.18	6.45	13.5	our downstream location experienced an increase in turbidit
Ъ		DISSOLVED O ₂ (mg/L)	10.57	9.55	9.45	today's water monitoring for all locations. Samples
		TOTAL SUSPENDED SOLIDS	5	7	10	
		(mg/L)	5	'	10	
		LATITUDE (approx.)	34.2274513	34.2199523	34.214603	During Maintenance WQ Monitoring & Sampling Results
-		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	
S −		ELEVATION (approx.)	801	786	773	
4 A 15)	1/2020	TIME	9:00	9:30	9:55	
		SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Below are the testing results of the water sampling/monitorir
₽Ğ		TEMPERATURE (°C)	20.39	20.17	22.07	our initial turbidity reading upstream, the increase in both the
Ю К	9/2	рН	8.87	8.17	7.71	exceeded the 20% threshold. Juan Cabrera has been informed
AC (F		TURBIDITY (NTUs)	4.2	23.6	6.82	1
		DISSOLVED O ₂ (mg/L)	10.84	10.93	9.47	_
		TOTAL SUSPENDED SOLIDS (mg/L)	8	42	6	

seline water monitoring and sampling due to late request because of unexpected water flow at an arrived with Jean-Carlo Palacios from GMED Materials Lab to the on-site channel about 0700 nce Hansen Yard to perform water quality monitoring and sampling at the upstream, internal, crew already placed BMPs at both the internal and downstream points. The field crew were prior to resuming work They noticed some vegetations in the surface water flow, however the ted and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. esting Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 09/15 on 24-hour TAT. resume. Due to the late notification, GMED will be water sampling and monitoring the next six itch to weekly sampling afterwards till work is completed.

rmed on Wednesday, September 16, 2020 – The 6th day of field operations within the Pacoima ately 0915 to test the water quality at the same locations as yesterday. Upon arrival, Jean Carlo he channel had already been cleared out. The internal sample location was, at this time, situated of the channel. We observed an increase in turbidity from the water flow at our internal location initial upstream sample. The water sample collected at our downstream location dropped in am turbidity results by more than 20%. Jean Carlo Palacios informed Juan Cabrera of our results he channel to help control the increase in turbidity as the SWM field crews continue with their been submitted to American Environmental Testing Labs for further analysis of Total Suspended Solids.

Pacoima Wash channel for their 7th day of field operations. Water samples were taken from the ebris were cleared out as a result of yesterday's work. Going from the turbidity reading taken roximately 26% above threshold limit. The downstream location yielded an approximately 15% ing and well within the threshold. Additional BMPs were set up prior to sampling between the rity of the right bank has been cleared out whereas the left bank still contains vegetation and Juan Cabrera has been informed of today's results and additional BMP installations have been ation to minimize turbidity increase. Samples have been successfully submitted to the American onmental Testing Lab for T.S.S. analysis.

g for the 8th working day of field operations at Pacoima Wash Reach 15. The upstream location testing. Our upstream sample location is positioned slightly upstream from the work. Turbidity proximately 10% with respect to the turbidity readings recorded upstream. The left bank of the ocation has now been cleared of the debris and vegetation observed the day prior. Results from ty above the threshold limit of 20%. Juan Cabrera has been informed of the turbidity results of have been submitted to the American Environmental Testing Lab for T.S.S analysis.

ng for the 9th and final working day of field operations at Pacoima Wash Reach 15. Proceeding midstream sampling location and the downstream water sample showed turbidity readings that of today's turbidity results as well. Samples have been submitted to American Environmental Festing Laboratory for TSS testing.

DIMA WASH EACH 15)		LATITUDE (approx.)	34.2274513	34.2199523	34.214603	Post-Work WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.4594595	-118.4575376	-118.458704	Provided below are today's post work, water sampling/mo operations at Pacoima Wash Reach 15. Throughout all (3) sar
		ELEVATION (approx.)	801	786	773	
	0	TIME	9:15	9:45	10:00	
	02	SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	
	9/2	TEMPERATURE (°C)	20.09	20.97	22.87	internal water sampling location, the water flow is visibly on
	/26	рН	8.89	8.56	8.55	disturbing the flow/sediment. As a result, the turbidity at the ir
СЧС В	0)	TURBIDITY (NTUs)	8.71	28	2.87	a decrease in turbidity. Juan Cabrera has been informed of
P/	ľ	DISSOLVED O ₂ (mg/L)	10.2	9.34	9.88	a decrease in turbidity. Juan Cablera has been morned of
		TOTAL SUSPENDED SOLIDS (mg/L)	11	37	6	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	Pre-Clearing/Baseline
\sim		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
		ELEVATION (approx.)	26	94	25	For Thursday, $\frac{00}{10}$ – arrived on the jobsite at $\frac{0020}{10}$ met y
4) (4)	0	TIME	10:30	10:50	9:40	monitoring and sampling at upstream, internal, and downstrea
S⊤	02(SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
N C C N)/2	TEMPERATURE (°C)	21.15	21.4	21.32	- Internal sampling point. Thee (5) birrs swith samu bags were
PT(EA	/10	рН	7.72	7.68	7.62	- sola inside the channel. Baseline monitoring and sampling w
MF (R	6	TURBIDITY (NTUs)	26.19	10.21	2.41	- recorded water quality parameters of temperature, pH, turbid
Ō		DISSOLVED O ₂ (mg/L)	9.67	9.6	9.97	- Labs (AETL) for analysis of total suspended solids (TSS) on Thi
0		TOTAL SUSPENDED SOLIDS	3	11	5	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Wednesday, 09/16 – 1st day of field work, Garo Avoyan ar to performed water sampling at upstream, internal, and o downstream point. Upstream had lots of vegetation, large collected and recorded water quality parameters of tem Environmental Testing Labs (AETL) for analysis of total suspe v
х Ш		ELEVATION (approx.)	26	94	25	
4 4		TIME	11:15	11:40	10:40	
12 12	02(SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
NC	9/16/2(TEMPERATURE (°C)	23	22	23.8	
БА		Hq	8.08	7.98	8.28	
MF (R		TURBIDITY (NTUS)	19.6	2.58	1.15	
Ō		DISSOLVED O ₂ (mg/L)	9.46	9.63	9.34	
0		TOTAL SUSPENDED SOLIDS	_			-
		(mg/L)	1	ND	14	
	9/17/2020	LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
×		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ξ.		ELEVATION (approx.)	26	94	25	For Thursday, $09/17 - 2nd day of field work. Garo Avoyan arri$
RE (4)		TIME	11:35	12:00	11:05	
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	noints at the Compton Creek. Three (3) BMP's with sand hags
NO N		TEMPERATURE (°C)	22.9	22.2	25.7	sofa inside the channel, very bad odor and white colorin
Ц Ц		рН	8.14	8.17	8.55	
M R		TURBIDITY (NTUs)	22.21	2.29	1.33	suspended solids (TSS) on Thursday (19/17 on 24-bo
$\overset{\circ}{\circ}$		DISSOLVED O ₂ (mg/L)	9.5	8.89	8.9	
0		TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
\sim	8/2020	LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Friday, 09/18 – 3rd day of field work, Garo Avoyan arrive
		ELEVATION (approx.)	26	94	25	
RE (4)		TIME	10:14	10:35	9:45	
U L C		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	assistance to performed water sampling at upstream, internal
S S		TEMPERATURE (°C)	22.1	21.4	23.1	the downstream point. Upstream had lots of vegetation, large
⊃T⊂	118	рН	8.04	8.09	7.49	removing vegetation by Santa Fe Ave Bridge. Between 0945
M R	တ	TURBIDITY (NTUs)	29.43	2.5	1.54	dissolved oxygen. Samples collected and submitted to America
8		DISSOLVED O ₂ (mg/L)	9.31	9.38	9	on 24-hour TAT. Garo Avoyan
		TOTAL SUSPENDED SOLIDS	c	E		
		(mg/L)	б	5	UN	

onitoring results for Sep. 29, 2020 conducted 8 days after the last working day for field crew mpling locations, most all vegetation and debris have been cleared out of channel as well as all itions. Upstream turbidity results provide a threshold limit of 10.45 NTUs. Upon arrival to the aque within 75 ft upstream of the sampling location as a result of a group of ducks bathing and nternal location has exceeded the threshold turbidity limit of 20%. The downstream location saw today's results. All (3) samples have been submitted to the American Environmental Testing nalysis of which will be available the next day 9/30/2020.

with Carlos Varela from Stormwater Maintenance Imperial Yard . Performed pre-work baseline am points at the Compton Creek. Carlos Varela assisted in cutting vegetation for a pathway the placed at the downstream point. Upstream had lots of vegetation and large debris including a vas performed six (6) days prior of cleanout start date. Between 0940 and 1030, collected and lity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing ursday 09/10 on 24-hour TAT. From a water quality standpoint, project is "good to go" for start on Wednesday 09/16.

rived on the jobsite at 1030 met with Carlos Varela from Stormwater Maintenance Imperial Yard ownstream points at the Compton Creek. Three (3) BMP's with sand bags were placed at the debris including a sofa inside the channel as well as very bad odor. Between 1040 and 1140, erature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Wednesday 09/16 on 24-hour TAT. Garo Avoyan informed Jeremy Winston a phone call of the turbidity results.

ved on the jobsite at 1050 to performed water sampling at upstream, internal, and downstream were placed at the downstream point. Upstream had lots of vegetation, large debris including a in the water. Between 1105 and 1200, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total ur TAT. Garo Avoyan informed Jeremy Winston via phone call of the turbidity results.

on the jobsite at 0939 and met David Martinez from Stormwater Maintenance Imperial Yard for , and downstream points at the Compton Creek. Three (3) BMP's with sand bags were placed at debris including a sofa inside the channel, very bad odor and white coloring in the water. Crew is and 1035, collected and recorded water quality parameters of temperature, pH, turbidity, and an Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/18 informed Jeremy Winston via phone call of the turbidity results.

PTON CREEK EACH 24)		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Saturday, 09/19 – 4th day of field work, Garo Avoyan arrive for assistance to performed water sampling at upstream, inter-
		ELEVATION (approx.)	26	94	25	
	020	TIME	10:35	10:59	9:50	
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
	9/2	TEMPERATURE (°C)	23.1	22.1	24.3	vegetation large debris including a sofa inside the channel v
	/16	рН	8.01	8.02	8.29	water quality parameters of temperature nH turbidity and c
M R	0)	TURBIDITY (NTUs)	30.08	3.92	1.16	(AETL) for analysis of total suspended solids (TSS) on Monday
8		DISSOLVED O ₂ (mg/L)	8.42	8.1	8.2	
0		TOTAL SUSPENDED SOLIDS (mg/L)	14	10	8	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
\checkmark		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ē		ELEVATION (approx.)	26	94	25	For Monday, 09/21 – 5th day of field work, Garo Avoyan arrive
RE (4)	0	TIME	10;11	10:32	10:50	assistance to performed water sampling at upstream internal
O T ⊂	02	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	the downstream point. North side of the BMP with sand hag wa
NO D	1/2	TEMPERATURE (°C)	21.4	22.1	23.5	on both porth sides of Compton Creek Channel off of Santa Fe
⊃Tc	/2.	рН	6.9	7.02	8.15	odor and white coloring in the water. Between 1011 and 1059
MF (R	0	TURBIDITY (NTUs)	31.67	3.37	2.4	aviden Samples collected and submitted to American Environ
8		DISSOLVED O ₂ (mg/L)	8.3	8.79	8.66	bour TAT. Garo Avoyan info
0		TOTAL SUSPENDED SOLIDS (ma/L)	ND	7	8	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ц.		ELEVATION (approx.)	26	94	25	Sampling results for today, the 6th day of field work opera vegetation, trash and debris. Water flow was visibly opa downstream location near the LA river yielded numbers belo informed of todays results as well. Samples from each of the
Н Н Н Н Н	0	TIME	7:30	8:10	8:35	
T⊇⊥	9/22/2020	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
N C		TEMPERATURE (°C)	18.12	20.13	20.09	
PT(EA		pH	7.73	7.49	7.71	
MF (R		TURBIDITY (NTUs)	8.23	6.43	0.87	
<u> </u>		DISSOLVED O ₂ (mg/L)	9.81	10.39	10.06	
Ŭ		TOTAL SUSPENDED SOLIDS	c			-
		(mg/L)	0	ND	UN	
	9/23/2020	LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
×		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Wednesday, 09/23 – 7th day of field work, Garo Avo
Ш		ELEVATION (approx.)	26	94	25	
3RI 24)		TIME	9:40	9:14	8:50	downstream points at the Compton Creek. Three (3) BMP's w
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	sides of Compton Creek Channel off of Santa Fe Ave. Upstream
AC O		TEMPERATURE (°C)	21.4	21.4	21.9	coloring in the water. For internal point, Garo Avoyan notic upstream turbidity reading. Garo Avoyan advised Mr. Evan
PT ČE,		рН	7.69	8.05	8.51	
M E		TURBIDITY (NTUs)	31.85	11.05	1.11	Now GMED will be shifting from daily to weekly water sampli
ö		DISSOLVED O ₂ (mg/L)	7.75	8.11	9.25	parameters of temperature, pH, turbidity, and dissolved oxyge
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	of total suspended solids (TSS) on Wednesday 09/2.
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
×		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ξ		ELEVATION (approx.)	26	94	25	For Wednesday, 09/30 – 13th day of field work, Garo Avoy
24) 22	0/2020	TIME	8:25	8:55	7:58	downstream points at the Compton Creek, Three (3) BMP's w
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	side of Compton Creek Channel between Santa Fe Ave and
NO O		TEMPERATURE (°C)	22.2	22.8	21.1	vegetation, large debris including a sofa inside the channel w
μT	3/3	pН	7.44	7.23	7.666	water quality parameters of temperature in H turbidity and
M R	5,	TURBIDITY (NTUs)	24.49	28.44	1.54	(AFTI) for analysis of total suspended solids (TSS) on Wednesd
8		DISSOLVED O ₂ (mg/L)	9.98	9.81	9.66	
		TOTAL SUSPENDED SOLIDS	6	7	6	
		('''9' ''')				

ed on the jobsite at 0939 and met David Martinez from Stormwater Maintenance Imperial Yard nal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags were placed th north and south sides of Compton Creek Channel off of Santa Fe Ave. Upstream had lots of ery bad odor and white coloring in the water. Between 0950 and 1059, collected and recorded dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs 09/21 on 24-hour TAT. Garo Avoyan informed Jeremy Winston via phone call of the turbidity results.

ed on the jobsite at 1000 and met Carlos Varela from Stormwater Maintenance Imperial Yard for and downstream points at the Compton Creek. Three (3) BMP's with sand bags were placed at as knocked off of its place and water flow was coming from the side. Field crew were working at Ave. Upstream had lots of vegetation, large debris including a sofa inside the channel, very bad collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/21 on 24prmed Jeremy Winston via phone call of the turbidity results.

ions, for Compton Creek are shown below. The upstream location showed heavy amounts of que as a result of the obstructions. The turbidity results for the midstream location and the w the 20% threshold limit with respect to the upstream turbidity reading. Jeremy Winston was (3) locations were submitted to the American Environmental Testing Laboratory for TSS testing.

yan arrived on the jobsite at 0830 to performed water sampling at upstream, internal, and vith sand bags were placed at the downstream point. Field crew were working at on both north had lots of vegetation, large debris including a sofa inside the channel, very bad odor and white d a little spike in the turbidity readings from previous days, even though it did not surpass the illett, field crew leader, of possibly placing a BMP inside the channel around the internal point. ling and monitoring as of today. Between 0850 and 0940, collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis 3 on 24-hour TAT. Garo Avoyan informed Evan Tillett on-site of the turbidity results.

yan arrived on the jobsite at 0750 to performed water sampling at upstream, internal, and vith sand bags were placed at the downstream point. Field crew were working at on both south Del Amo where half the channel has been cleared of the vegetation. Upstream had lots of ery bad odor and white coloring in the water. Between 0758 and 0855, collected and recorded l dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs ay 09/30 on 24-hour TAT. Garo Avoyan informed Jeremy Winston via phone call of the turbidity results.

PTON CREEK EACH 24)	0	LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Wednesday, 10/07 – 19th day of field work, Garo Avo downstream points at the Compton Creek. Three (3) BMP's w
		ELEVATION (approx.)	26	94	25	
		TIME	9:59	9:39	9:13	
	02	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
	7/2	TEMPERATURE (°C)	21.6	21.4	21.2	removal has been removed including the upstream and interna
	0/2	рН	7.89	7.97	8.19	odor and white coloring in the water. Between 0013 and 0050
ЩЧ К	-	TURBIDITY (NTUs)	19.59	27.35	8.5	avugen Samples collected and submitted to American Environ
00		DISSOLVED O ₂ (mg/L)	9.3	10.08	10.05	24-bour TAT Garo Avovan in
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	9	7	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
\checkmark		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ш.		ELEVATION (approx.)	26	94	25	For Wednesday, 10/14 – 24th day of field work, Garo Avo downstream points at the Compton Creek. Three (3) BMP's w Compton Creek Channel between Del Amo and 710 Freeway. T
R (†	0	TIME	7:50	8:15	8:40	
	202	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
N C	4/2	TEMPERATURE (°C)	20.6	20.3	20.5	Upstream still has lots of vegetation, large debris including a
PTC	1/0	pH	8.32	7.86	8.05	conversation with Mr. Jeremy Winston about the internal poin
ЩЩ Ц	10	TURBIDITY (NTUs)	23.11	20.07	8.43	now. Between 0750 and 0840, collected and recorded water
0 0		DISSOLVED O ₂ (mg/L)	8.16	8.02	9.4	submitted to American Environmental Testing Labs (AETL) for
0		TOTAL SUSPENDED SOLIDS	ND	7	7	informed Jerem
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ш		ELEVATION (approx.)	26	94	25	
д Ш (0		10.12	9.52	9.28	For Wednesday, 10/21 – 31st day of field work, Garo Avo
<u>5</u> C	10/21/2020	SAMPLE NO	CCRKR24-1	CCRKR24-2	CCRKR24-3	downstream points at the Compton Creek. Three (3) BMP's w
ΖΥ			19.6	20.1	19.8	 vegetation on the back slope of the west side of channel bet
OMPTC (REA(7 72	7 73	8 25	 including the upstream and internal. Upstream still has lots of
			20.6	14 19	1.81	the water. Between 0928 and 1012, collected and recorded v and submitted to American Environmental Testing Labs (AETL informed bot you
			10	9.53	10.03	
0			10	0.00	10.00	
		(ma/L)	8	9	ND	
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
	10/28/2022	LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	For Wednesday, 10/28 – 30th day of field work, Garo Avo
х Ш		ELEVATION (approx.)	26	94	25	downstream points at the Compton Creek. He noticed a Nissa
4 Н		TIME	8:40	8:20	7:30	Police as well as Jeremy Winston of Imperial Yard of the vehic
⊒ ⊇		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	very early and went up top to the levee to both perform the t
ΝĊ		TEMPERATURE (°C)	16.4	16.6	15.6	two other locations. Upon his return a police car was in the cha
PTC EA		Hq	7.68	8.1	8.28	was a stolen car and would be towed out of the channel. Three
ЩЩ Ц		TURBIDITY (NTUs)	31.07	13.64	0.9	south side of Compton Creek Channel between Del Amo and 7
0 0		DISSOLVED O ₂ (mg/L)	9.88	9.1	9.63	and internal. Upstream still has lots of vegetation, large debr
U		TOTAL SUSPENDED SOLIDS	01	05		0730 and 0840, collected and recorded water quality parame
		(mg/L)	21	25	9	American Environmental Testing Labs (AETL) for analysis of to
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
\checkmark		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ш.		ELEVATION (approx.)	26	94	25	For Wednesday, $11/04 - 36$ th day of field work. Garo Avo
DN CRE (CH 24)	4/2020	TIME	10":10	9:40	9:20	downstream points at the Compton Creek. Three (3) BMP's w Compton Creek Channel between Del Amo and 710 Freeway
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
		TEMPERATURE (°C)	19.4	19.1	19	
DT(1/1	pH	8.01	8.36	8.62	collected and recorded water quality parameters of terms
Ъ́Я)	-	TURBIDITY (NTUs)	10.34	4.46	1.61	Environmental Testing Labs (AETL) for analysis of total suspen
8		DISSOLVED O ₂ (mg/L)	9.26	9.5	10.02	
		TOTAL SUSPENDED SOLIDS	40	7		Via 1
		(ma/L)	10	/	ND	

yan arrived on the jobsite at 0900 to performed water sampling at upstream, internal, and vith sand bags were placed at the downstream point. Field crew were working at on both south Amo where half the channel has been cleared of the vegetation. The majority of the vegetation al. Upstream still has lots of vegetation, large debris including a sofa inside the channel, very bad P, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/07 on formed Jeremy Winston via phone call of the turbidity results.

yan arrived on the jobsite at 0740 to performed water sampling at upstream, internal, and vith sand bags were placed at the downstream point. Field crew were working on south side of The majority of the vegetation removal has been removed including the upstream and internal. sofa inside the channel, very bad odor and white coloring in the water. Based on last week's nt, the crew placed a small BMP even though the work in that area has been completed for days quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and or analysis of total suspended solids (TSS) on Wednesday 10/14 on 24-hour TAT. Garo Avoyan ny Winston via phone call of the turbidity results.

yan arrived on the jobsite at 0915 to performed water sampling at upstream, internal, and ith sand bags were placed at the downstream point. Private contractors were present cleaning tween Santa Fe Aver and Del Amo. The majority of the vegetation removal has been removed vegetation, large debris including a sofa inside the channel, very bad odor and white coloring in ater quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected for analysis of total suspended solids (TSS) on Wednesday 10/21 on 24-hour TAT. Garo Avoyan nd Jeremy Winston via email of the turbidity results.

by an arrived on the jobsite at 0715 to performed water sampling at upstream, internal, and an Truck parked on the side of the Los Angeles River Channel. Garo Avoyan notified Long Beach cle in the channel. As a safety precaution, he sampled the downstream (with extreme caution) test and await for the police to arrive. After waiting a while Garo went ahead and sampled the annel. Garo approached and identified himself as the caller. The police informed him the vehicle (3) BMP's with sand bags were placed at the downstream point. Field crew continue to work on 710 Freeway. The majority of the vegetation removal has been removed including the upstream ris including a sofa inside the channel, very bad odor and white coloring in the water. Between eters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to tal suspended solids (TSS) on Wednesday 10/28 on 24-hour TAT. Garo Avoyan informed Jeremy

yan arrived on the jobsite at 0910 to performed water sampling at upstream, internal, and th sand bags were placed at the downstream point. Field crew continue to work on south side of The majority of the vegetation removal has been removed including the upstream and internal. ofa inside the channel, very bad odor and white coloring in the water. Between 0920 and 1010, erature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Wednesday 11/04 on 24-hour TAT. Garo Avoyan informed Jeremy Winston text message of the turbidity results.

PTON CREEK EACH 24)		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
		ELEVATION (approx.)	26	94	25	
	20	TIME				
	20	SAMPLE NO.				For Wednesday, 11/18 45th day of field work, Garo Avoya
	8/;	TEMPERATURE (°C)				downstream points at the Compton Creek. Three (3) new B
	1/1	рН				installed BMPs. The downstream point was dry. Water quality
M R	-	TURBIDITY (NTUs)				Quality Control Board permit requirements.
8		DISSOLVED O ₂ (mg/L)				
Ŭ		TOTAL SUSPENDED SOLIDS				
		(mg/L)				
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
X		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ē		ELEVATION (approx.)	26	94	25	
24) 24)	0	TIME				For Wednesday, 12/02 52nd day of field work, after no work th
	02	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	to performed water sampling at upstream internal and down
NO N	2/2	TEMPERATURE (°C)				the rain from weeks ago washed away the previous installed
ГÚ	2/:	рН				channel and concrete apron limits with a BMP placed in betwee
Νų R	-	TURBIDITY (NTUs)				project did not meet Regional Water Quality Control Board per
8		DISSOLVED O ₂ (mg/L)				
Ŭ		TOTAL SUSPENDED SOLIDS				
		(mg/L)				
		LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results
X		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ē		ELEVATION (approx.)	26	94	25	For Wednesday, 12/09 – 59th day of field work, Issac Ocho
RE (4)	0	TIME	9:00	8:30	8:05	internal, and downstream points at the Compton Creek. The t continue to work on south side of Compton Creek Channel k including the upstream and internal. Upstream still has lots of the water. Turbidity was high at the downstream point becar and 0900, collected and recorded water quality parameters of Environmental Testing Labs (AETL) for analysis of total suspe
	02	SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	
5 Ū	12/9/2	TEMPERATURE (°C)	13.9	13.5	13.1	
ЪЦ		рН	8.05	8.54	8.66	
M R		TURBIDITY (NTUs)	3.27	2.18	10.7	
8		DISSOLVED O ₂ (mg/L)	9.61	9.62	9.69	
U		TOTAL SUSPENDED SOLIDS	4.4	C	10	via phone call of the turbidity results and
		(mg/L)	14	0	10	
	12/16/2020	LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	Post-Work WQ Monitoring & Sampling Results
×		LONGITUDE (approx.)	-118.2159757	-118.2134476	-118.2041057	
Ē		ELEVATION (approx.)	26	94	25	
RE (†		TIME	8:47	8:25	7:50	For Wednesday, 12/16 – Garo Avoyan arrived on the jobsite
		SAMPLE NO.	CCRKR24-1	CCRKR24-2	CCRKR24-3	Compton Creek. The three (3) BMP's with sand bags were r
S Ū		TEMPERATURE (°C)	13	12.6	12.2	Turbidity was high at the downstream point because water h bottom to concrete apron. Between 0750 and 0847, collect
ЪЦ		рН	8.11	8.51	8.45	
R R		TURBIDITY (NTUs)	2.64	2.05	35.1	Samples collected and submitted to American Environmental T
8 S		DISSOLVED O ₂ (mg/L)	9.93	9.26	9.6	
U		TOTAL SUSPENDED SOLIDS	0	ND	01	-
		(mg/L)	0	ND	21	
		LATITUDE (approx.)	33.803965	33.800976	33.79033	Pre-Clearing/Baseline
Ш (LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ST≤		ELEVATION (approx.)	7	3	3	For November 4, 2020, Garo Avoyan arrived on-site at 0700
N Å	0	TIME	7:08	7:15	7:46	
ШС П	4/202(SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	between Willow Street and Pacific Coast Highway (PCH). Sedi
З Н Н З		TEMPERATURE (°C)	16.3	15.7	16.6	were lots of ducks and fishes inside the water as well as debris
친구	1/7	pH	8.84	8.55	8.42	collected and recorded water quality parameters of tempe
A H	-	TURBIDITY (NTUs)	5.16	3.55	2.75	Environmental Testing Labs (AETL) for analysis of total suspen
SS (RE		DISSOLVED O ₂ (mg/L)	9.75	9.37	9.71	is "go
		TOTAL SUSPENDED SOLIDS	40	4.0	00	1
_		(mg/L)	19	18	23	

an arrived on the jobsite at 0910 to performed water sampling at upstream, internal, and 3MP sand bags had to be placed because the rain from weeks ago washed away the previous sampling and monitoring was not performed because the project did not meet Regional Water . GMED will continue to weekly monitoring the area to re-confirm conditions.

he prior week due to mechanical equipment failure, Garo Avoyan arrived on the jobsite at 0938 nstream points at the Compton Creek. Three (3) new BMP sand bags had to be placed because BMPs. The downstream portion had water puddles with no water flow and the soft bottom een had no water flow. Water quality sampling and monitoring was not performed because the rmit requirements. GMED will continue to weekly monitoring the area to re-confirm conditions.

a and Garo Avoyan arrived on the jobsite at 0755 to performed water sampling at upstream, nree (3) BMP's with sand bags were placed at the downstream point were tampered. Field crew tween Del Amo and 710 Freeway. The majority of the vegetation removal has been removed vegetation, large debris including a sofa inside the channel, very bad odor and white coloring in se of the tampering of the BMP and the water quality coloring was light brown. Between 0805 temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Wednesday 12/09 on 24-hour TAT. Garo Avoyan informed Jeremy Winston d we both agreed to place new BMP sand bags at the downstream point.

: 0745 to performed post water sampling at upstream, internal, and downstream points at the removed and field crew have completed and cleared all vegetation from within the channel. ad white substance floating inside the water and can also be seen from the transition from soft l and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. esting Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 12/16 on 24-hour TAT.

o perform baseline water quality sampling and monitoring for Los Angeles River Reach 25 East ments are being used to diverge water flow at underneath the bridge on Willow Street. There Lots of vegetation at both internal and downstream sampling points. Between 0708 and 0746, erature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Wednesday 11/04 on 24-hour TAT. From a water quality standpoint, project bod to go" for start on Thursday 11/05.
		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
Ц Ц		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
J ≥ (ELEVATION (approx.)	7	3	3	
ЧĂ	0	TIME	11:25	11:32	11:40	Ear Thursday, 11/05 1st day of field work, Joan Carlo Dal
SШ	02(SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	- For Hursday, 11/05 - 1st day of field work, Jean Carlo Par
5	5/2	TEMPERATURE (°C)	22.1	21.15	20.47	- downstream points of LA River East, Reach 25. Opstream samp
년 문 년	1/5	pH	9.26	8.63	8.5	- sample was collected hear center of pipeline support bridge be
AN	-	TURBIDITY (NTUs)	2.34	3.19	2	bank. Internal sample exceeded turbidity results compared to
S RE		DISSOLVED O ₂ (mg/L)	10.83	9.98	9.94	collected have been submitted to American Enviro
		TOTAL SUSPENDED SOLIDS	10			-
		(mg/L)	12	20	21	
		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
К С		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
j⊒ E		ELEVATION (approx.)	7	3	3	
ЧĂ	0	TIME	9:17	9:08	9:53	For Friday 11/06 and day of field work Core Average
ы СШС	02	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	points of LA Biver East Boach 25. Field grows were removing
31 E	11/6/2	TEMPERATURE (°C)	20.4	19.7	19.5	- points of LA River East, Reach 25. Field crews were removing
한고		рН	9.23	8.65	7.96	Between 0002 and 0052, collected and recorded water aw
A A		TURBIDITY (NTUs)	10.5	3.81	2.15	Between 0908 and 0953, collected and recorded water q
S R		DISSOLVED O ₂ (mg/L)	9.95	9.14	9.8	
° C		TOTAL SUSPENDED SOLIDS	8	15	11	-
		(mg/L) LATITUDE (approx.)	33,803965	33.800976	33,79033	During Maintenance WO Monitoring & Sampling Results
24			-118 204929	-118 205477	-118 20497	
Щ		ELEVATION (approx.)	7	3	.3	For Monday, 11/09 – 3rd day of field work, Jean Carlo Palacios
AS			11.45	12:37	12:50	and downstream points of LA River East, Reach 25. Water leve
ΝЩ	11/9/2020	SAMPLE NO	LARR25E-1	LARR25E-2	12.00	diverge the water flow into the channel at the upstream location
:LЕ 25			17 37	16.87	14 32	exceed turbidity thresholds by approximately 24% compare
방포			8.8	8 72	8.23	considering the vegetation debris observable above the water.
A A			3.27	4.05	3.29	of today's water sampling results as well. Collected and reco
S A E			10.3/	10.56	10.93	below. Samples collected and submitted to American Environ
$o_{i} =$			10.54	10.50	10.35	
			10	16	18	
		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
H H H H H H H H H H H H H H H H H H H		ELEVATION (approx.)	7	3	3	For Tuesday, 11/10 – 4th day of field work, Jean Carlo Palacios
A0 A0	0	TIME	10:35	11:00	11:25	and downstream points of LA River East, Reach 25. Water leve
SШ	02	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	diverge the water flow into the channel at the upstream locati
25 EL	0/2	TEMPERATURE (°C)	15.31	15.39	14.26	exceeded turbidity thresholds compared to the upstream valu
5 5	1	Ηα	8.83	8.83	8.33	debris observable above the water and the lowered water leve
AA	1	TURBIDITY (NTUS)	2.35	3.19	1.32	upstream value. Jeremy Winston has been informed of t
S R		DISSOLVED O ₂ (mg/L)	10.68	10.71	10,94	temperature, pH, turbidity, and dissolved oxygen are shown
° C		TOTAL SUSPENDED SOLIDS				analysis of total suspended
		(mg/L)	8	32	5	
		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
R R		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
J ≤		ELEVATION (approx.)	7	3	3	Ear Thursday, 11/12 Eth day of field work, Joan Carlo Dala
ЧĂ	0	TIME	10:45	10:55	11:10	internal and downstream points of LA Piver East Peach 25 M
ылы С	502	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	internal, and downstream points of LA River East, Reach 25.
I 2	2/2	TEMPERATURE (°C)	17.35	16.51	15.73	nige to diverge the water now into the channel at the upstro
D H U	1/1	pH	8.94	8.66	8.24	Winston has been informed of today's water compliant result
A A A	<u>,</u>	TURBIDITY (NTUs)	2.72	3.23	1.88	discolud owgon are shown holow. Complete sellented and
S R B		DISSOLVED O ₂ (mg/L)	10.73	10.31	9.13	uissolved oxygen are snown below. Samples collected and st
		TOTAL SUSPENDED SOLIDS	<u>^</u>	4.4	40	(ISS) on In
		(mg/L)	б	11	16	

acios arrived on the jobsite at 1115 to performed water sampling at upstream, internal, and ples were located south of the 3rd bridge pier west of east bank under Willow St. bridge. Internal etween Willow St and PCH. Downstream samples were collected under PCH bridge near the river upstream values. Jeremy Winston was informed of the turbidity results via voicemail. Samples mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on 24-hour TAT.

ed on the jobsite at 0905 to performed water sampling at upstream, internal, and downstream vegetation with heavy equipment inside the channel. Sediments were set up underneath the bris at the upstream and lots of vegetation at both internal and downstream sampling points. ality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and s (AETL) for analysis of total suspended solids (TSS) on Friday 11/06 on 24-hour TAT.

arrived on the jobsite at approximately 1140 to performed water sampling at upstream, internal, els were observed to be lower than last week. Sediments were set up underneath the bridge to on. Vegetation and debris has been mostly cleared out near the river. The internal water sample ed to the upstream value. This could be a result of the weather conditions over the weekend Downstream turbidity results were within acceptable limits. Jeremy Winston has been informed rded water quality parameters of temperature, pH, turbidity, and dissolved oxygen are shown mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday, November 9, 2020 on 24-hour TAT.

arrived on the jobsite at approximately 1030 to performed water sampling at upstream, internal, els were observed to be lower than last week. Sediments were set up underneath the bridge to on. Vegetation and debris has been mostly cleared out near the river. The internal water sample e. This could be a result of the weather conditions over the weekend considering the vegetation els. Downstream turbidity results were within acceptable limits as they are lower than the initial oday's water sampling results as well. Collected and recorded water quality parameters of n below. Samples collected and submitted to American Environmental Testing Labs (AETL) for solids (TSS) on Tuesday, November 10, 2020 on 24-hour TAT.

cios arrived on the jobsite at approximately 1030 to performed water sampling at upstream, Nater levels were observed to be lower than last week. Sediments were set up underneath the eam location. Upstream samples were collected west of LA river and south of the closest bridge ar the river. Internal and downstream turbidity results were within acceptable limits. Jeremy ts as well. Collected and recorded water quality parameters of temperature, pH, turbidity, and ubmitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids nursday, November 12, 2020 on 24-hour TAT.

		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
ER		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	For Monday, 11/16 – 6th day of field work, Jean Carlo Palacios a
STS		ELEVATION (approx.)	7	3	3	and downstream points of LA River East, Reach 25. Water leve
A A	20	TIME	10;15	10:40	10:55	also expecting high tides throughout the week. Sediments w
5-F	20;	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	upstream location. Upstream samples were collected west of I
H2 H2	./9	TEMPERATURE (°C)	17.71	17.33	16.82	near the river. The internal sample was taken directly under the
ц Ц Ц Ц Ц	1/1	рН	9.1	8.44	8.31	highest water level rise of the three sampling sites. The downs
ΑЧ	Ţ	TURBIDITY (NTUs)	2.58	2.95	6.11	water levels rising, most of the water flowing through is eroo
SC (R		DISSOLVED O ₂ (mg/L)	10.62	10.8	10.96	turbidity for the downstream sample. Jeremy Winston has b
ΓC		TOTAL SUSPENDED SOLIDS	6	6	39	parameters of temperature, pH, turbidity, and dissolved oxyge
			33 803065	33 800076	33 70033	(AETL) for analysis of total susper
2			-118 20/020	-118 205477	-118 20/07	For Monday 11/17 – 7th day of daily field work water sampli
Ч́Г			-110.204929	-110.200477	-110.20497	Carlo Palacios arrived on the jobsite at approximately 1020 to r
AS.			10:20	10:50	11.10	25. Water levels have risen above 1 ft in denth in the internal
ΩЩ	//2020					Sediments were set up underneath the Willow St. bridge to
LE 25			16 99	16 69	16.22	collected west of LA river and south of the closest bridge nier \
с Ц	/17		0.2	8.60	9.40	directly under the pipe support bridge between PCH and Will
ACA	1		9.2	0.09	0.49	sites. The downstream water sample site was usually taken from
С Р И Ш			3.07	3.31	3.40	within turbidity threshold limits Jeremy Winston has bee
о́ Е			10.78	9.99	10.98	narameters of temperature, pH, turbidity, and dissolved avver
		(mg/L)	ND	13	15	(AETL) for analysis of total suspen
		LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
2		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
ST) E	11/24/2020	ELEVATION (approx.)	7	3	3	For Tuesday, 11/24 – 1st week of weekly field work water sam
ЧĂ		TIME	11:30	11:40	11:50	water sampling at upstream, internal, and downstream points
С Ц Ц С Ц С С Ц С С		SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	rise. Sediments were set up underneath the Willow St. bridge
12! 12!		TEMPERATURE (°C)	16.79	16.68	15.66	collected west of LA river and south of the closest bridge pier. \
U U U U U U		pH	9.38	9.32	8.59	directly under the pipe support bridge between PCH and Willow
A A A		TURBIDITY (NTUs)	1.78	2.05	1.98	bridge. Both the internal and downstream water samples are
S R R		DISSOLVED O ₂ (mg/L)	10.68	9.04	9.9	results as well. Collected and recorded water quality paramete
ΓC		TOTAL SUSPENDED SOLIDS	14	14	15	submitted to American Environmental Testing Labs (AETL)
			22 002005	22.000070	00 70000	During Malinton and MO Manitonia & Consuling Devulto
~			33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
ЩС		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	For December, 12/1 – 2nd week of weekly field work wate
S ⁻ S		ELEVATION (approx.)	/	3	3	 performed water sampling at upstream, internal, and downs
S F P	20	TIME	10:55	10:45	10:30	week's rise. Sediments were set up underneath the Willow St.
25- 25-	20;	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	were collected west of LA river and south of the closest bridge
ШН	11/	TEMPERATURE (°C)	14.39	15.05	14.19	taken directly under the pipe support bridge between PCH and
N N	12	pH	9.22	8.52	8.41	the PCH bridge. The location near where the internal sample
Α S			2.37	3.53	2.09	turbidity results exceeding threshold. Jeremy Winston has bee
О С С С		DISSOLVED O ₂ (mg/L)	10.51	10.74	10.77	of temperature, pH, turbidity, and dissolved oxygen are show
		TOTAL SUSPENDED SOLIDS (mg/L)	10	26	14	analysis of total suspended
		LATITUDE (approx.)	33.803965	33.800976	33,79033	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
Ч Ц		ELEVATION (approx.)	7	3	3	For December, 12/8 – 3rd week of weekly field work water sam
RIAS		TIME	11:05	10:50	10:30	water sampling at upstream, internal, and downstream poir
SШ)2(SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Sediments were set up underneath the Willow St. bridge to
ELE 25	3/2(TEMPERATURE (°C)	14.01	14.15	14.47	collected west of LA river and south of the closest bridge pier.
ЗЧ	2/8	Ηα	9.21	8.94	8.37	directly under the pipe support bridge between PCH and Willow
AN	-		3.74	3.7	2.26	bridge. None of the samples collected vielded a turbidity valu
S' BR		DISSOLVED O_{2} (mg/l)	10.96	10 44	10.22	results. Collected and recorded water quality parameters o
LO LO		TOTAL SUSPENDED SOLIDS			10.22	submitted to American Environmental Testing Labs (AETL)
		(mg/L)	25	13	19	

arrived on the jobsite at approximately 1000 to performed water sampling at upstream, internal els have risen above 1 ft in depth in the internal and downstream sampling locations as we are vere set up underneath the Willow St. bridge to diverge the water flow into the channel at the LA river and south of the closest bridge pier. Vegetation and debris has been mostly cleared out he pipe support bridge between PCH and Willow St. The downstream location experienced the stream water sample site was usually taken from a small dirt ledge under the PCH bridge. With ding the ledge near where the water samples are taken. This may give reason as to the rise in been informed of today's water sampling results as well. Collected and recorded water quality en are shown below. Samples collected and submitted to American Environmental Testing Labs nded solids (TSS) on Monday, November 16, 2020 on 24-hour TAT.

ing/monitoring. We will continue sampling and monitoring on a weekly basis after today. Jean performed water sampling at upstream, internal, and downstream points of LA River East, Reach and downstream sampling locations as we are also expecting high tides throughout the week. diverge the water flow into the channel at the upstream location. Upstream samples were egetation and debris has been mostly cleared out near the river. The internal sample was taken ow St. The downstream location experienced the highest water level rise of the three sampling m a small dirt ledge under the PCH bridge. Both the internal and downstream water samples are n informed of today's water sampling results as well. Collected and recorded water quality en are shown below. Samples collected and submitted to American Environmental Testing Labs nded solids (TSS) on Tuesday, November 17, 2020 on 24-hour TAT.

pling/monitoring. Jean Carlo Palacios arrived on the jobsite at approximately 1120 to performed of LA River East, Reach 25. Water levels have lowered significantly in comparison to last week's to diverge the water flow into the channel at the upstream location. Upstream samples were egetation and debris has been mostly cleared out near the river. The internal sample was taken St. The downstream water sample site was usually taken from a small dirt ledge under the PCH within turbidity threshold limits. Jeremy Winston has been informed of today's water sampling ers of temperature, pH, turbidity, and dissolved oxygen are shown below. Samples collected and for analysis of total suspended solids (TSS) on Tuesday, November 24, 2020 on 24-hour TAT.

er sampling/monitoring. Jean Carlo Palacios arrived on the jobsite at approximately 1020 to stream points of LA River East, Reach 25. Water levels have risen slightly in comparison to last bridge to diverge the water flow into the channel at the upstream location. Upstream samples pier. Vegetation and debris has been mostly cleared out near the river. The internal sample was Willow St. The downstream water sample site was usually taken from a small dirt ledge under was collected was disturbed by a group of ducks bathing. This activity might have resulted the en informed of today's water sampling results. Collected and recorded water quality parameters vn below. Samples collected and submitted to American Environmental Testing Labs (AETL) for solids (TSS) on Tuesday, December 1, 2020 on 24-hour TAT.

pling/monitoring. Jean Carlo Palacios arrived on the jobsite at approximately 1020 to performed nts of LA River East, Reach 25. Water levels have dropped in comparison to last week's levels. diverge the water flow into the channel at the upstream location. Upstream samples were egetation and debris has been mostly cleared out near the river. The internal sample was taken St. The downstream water sample site was usually taken from a small dirt ledge under the PCH e exceeding the threshold limit. Jeremy Winston has been informed of today's water sampling of temperature, pH, turbidity, and dissolved oxygen are shown below. Samples collected and for analysis of total suspended solids (TSS) on Tuesday, December 8, 2020 on 24-hour TAT.

		LATITUDE (approx.)	33.803965	33.800976	33.79033	Post-Work WQ Monitoring & Sampling Results
Ш (LONGITUDE (approx.)	-118.204929	-118.205477	-118.20497	
STS		ELEVATION (approx.)	7	3	3	For December, 12/15 – Post field work water sampling/monite
ЧĂ	50	TIME	11:10	11:00	10:45	internal, and downstream points of LA River East, Reach 25. Wa
Б-Б 5-Б	202	SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Willow St. bridge to diverge the water flow into the channel
Н Т С Т С	5/2	TEMPERATURE (°C)	13.07	12.91	13.94	closest bridge pier. Vegetation and debris has been mostly cl
승수	2/1	рН	9.4	8.61	8.43	between PCH and Willow St. The downstream water sam
AΑΠ	-	TURBIDITY (NTUs)	4.59	3.67	3.55	submerged the general area. None of the samples collected
SS (RI		DISSOLVED O ₂ (mg/L)	10.6	9.82	10.67	today's results. Collected and recorded water quality parameter
ΓC		TOTAL SUSPENDED SOLIDS (mg/L)	16	19	26	submitted to American Environmental Testing Labs (AETL)
		LATITUDE (approx.)	33.804022	33.800921	33.790174	Pre-Clearing/Baseline
Ш С		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ST		ELEVATION (approx.)	17.7	16.4	6.6	
К Щ	0	TIME	8:40	8:20	7:52	lean Carlo Palacios arrived onsite for water sampling prior to
	0/8/202	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	nerform baseline monitoring and sampling Today's results
EL 12!		TEMPERATURE (°C)	20.04	19.77	21.2	downstream location first. Access to the downstream and inter
Ч Ч Ч Ч		рН	8.6	8.09	9.1	was not. All (3) samples collected and analyzed will be subm We will continue our sampling/m
A A		TURBIDITY (NTUs)	2.22	4.1	3.31	
SS (RE		DISSOLVED O ₂ (mg/L)	10.08	9.58	10.5	
Γ		TOTAL SUSPENDED SOLIDS (mg/L)	11	13	ND	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
L L L L		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ST		ELEVATION (approx.)	17.7	16.4	6.6	lean Carlo Palacios arrived onsite at annrovimately 0900 for
К Щ	10/15/2020	TIME	9:50	9:25	9:00	Today's water sampling results are shown below. The field crey
S ES		SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	river hank. No work was being done inside the river at the t
EL 24		TEMPERATURE (°C)	22.99	21.91	22.61	sample was taken from between the second and third bridge r
0 T U		рН	9.04	8.11	8.23	value. Water collected from the unstream location was sample
A A		TURBIDITY (NTUs)	4.26	9.48	2.58	water sampling results. All (3) samples collected and analyzed
SS (RE		DISSOLVED O ₂ (mg/L)	10.88	10.67	9.2	Solids (TSS) We will continu
Γ		TOTAL SUSPENDED SOLIDS	19	12	25	
		(mg/L)	15	12	25	
~		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ц		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
S S		ELEVATION (approx.)	17.7	16.4	6.6	Jean Carlo Palacios arrived onsite at approximately 0915 for the
S N N H	20	TIME	10:30	10:05	9:20	I loday's water sampling results are snown below. The field cre
<u>й-</u> 5-	/20	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	the water sample site limits. The downstream location was bei
	16	TEMPERATURE (°C)	23.34	21.05	20.58	being cleared of obstructing vegetation. As a result, the wat
N N	10/	pH	8.92	8.09	8.15	bridge piers east of river bank. Turbidity results did not exce
A S E A	Ì		5.19	5.3	3.16	water collected from the upstream location was sampled sour
90 R)			10.93	9.4	10.84	
		TOTAL SUSPENDED SOLIDS	13	15	22	will continue our sa
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	Jean Carlos Palacios arrived onsite at approximately 0930 for t
ST) <		ELEVATION (approx.)	17.7	16.4	6.6	25. Today's water sampling results are shown below. The field
RI /E	0	TIME	10:45	10:25	10:05	the upstream site location along the eastside. Water collect
S ⇒	202	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	location has been cleared of most of the vegetation obst
EL 25	2/2	TEMPERATURE (°C)	23.77	22.04	21.82	vegetation/debris. As a result, the water levels have risen abo
UD H	1/0	pH	8.65	8.1	8.45	as access was experiencing higher water levels. The interna
AN	1	TURBIDITY (NTUs)	2.67	7.24	3.22	exceed the threshold limit for both the internal and downstr
SC RE		DISSOLVED O ₂ (mg/L)	10.57	9.15	10.32	region may be a result of the rising water levels carrying clear
) LC		TOTAL SUSPENDED SOLIDS	15	00	20	well. All (3) samples collected and analyzed will be submitted
		(mg/L)	10	23	29	will continue our sampling/monito

oring. I arrived on the jobsite at approximately 1030 to performed water sampling at upstream, ater levels have risen in comparison to last week's levels. Sediments were set up underneath the at the upstream location. Upstream samples were collected west of LA river and south of the eared out near the river. The internal sample was taken directly under the pipe support bridge ple site is usually taken from a small dirt ledge under the PCH bridge but rising water levels yielded a turbidity value exceeding the threshold limit. Jeremy Winston has been informed of ers of temperature, pH, turbidity, and dissolved oxygen are shown below. Samples collected and for analysis of total suspended solids (TSS) on Tuesday, December 15, 2020 on 24-hour TAT.

field crew operations scheduled to begin October 15. He met with Carlos from Imperial Yard to are shown below. At approximately 0750 we arrived onsite and collected samples from the rnal sample sites were obstructed by vegetation and debris whereas access to the upstream site ted to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS). onitoring on October 15, 2020 when field crew operations will begin.

r the 1st day of field crew operations to collected/analyze water quality of LA River Reach 25. w was present at the downstream location clearing out the debris on the access roads above the ime of arrival. The internal location was heavily congested with vegetation and debris. Water piers east of river bank. Turbidity results exceeded the threshold limit with respect the upstream d from between the third and fourth bridge piers. Jeremy Winston has been informed of today's will be submitted to American Environmental Testing Laboratory for analysis of Total Suspended e our sampling/monitoring as field crew operations continue.

e 2st day of field crew operations to collected/analyze water quality of LA River West - Reach 25. ew was present below the river banks on the ground clearing the vegetation/debris throughout ng cleared of obstruction near the edge of the bank during sampling. The internal location is also er levels have risen. The internal water sample was taken from between the second and third ed the threshold limit for the internal and downstream sites with respect the upstream value. th of the third bridge pier. Jeremy Winston has been informed of today's water sampling results d to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS). We mpling/monitoring as field crew operations proceed.

the 3rd day of field crew operations to collected/analyze water quality of LA River West - Reach I crew was present below the river banks on the ground clearing the vegetation/debris south of ted from the upstream location was sampled south of the third bridge pier. The downstream ructing access closer to the river. The internal location has also been cleared of obstructing ve 14 in. The sampling location had to be taken approximately 40 feet west of the previous spot I water sample was taken north of the second bridge pier east of river bank. Turbidity results eam sites with respect the upstream value. High turbidity along the internal and downstream red vegetation/debris. Jeremy Winston has been informed of today's water sampling results as to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS). We ring as field crew operations continue on Monday, October 19 2020.

: RIVER VEST)		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	We arrived onsite at approximately 0900 for the 4th day of field
		ELEVATION (approx.)	17.7	16.4	6.6	sampling results are shown below. The field crew was present
	20	TIME	9:45	9:30	9:05	from the unstream location was sampled south of the third brid
	202	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	obstructing access closer to the river. The internal location has
EL 26	6/2	TEMPERATURE (°C)	21.89	21.3	21.99	(10/17/2020) water sampling. As a result we were able to s
망망	0/1	рН	8.8	8.36	8.23	between the second and third niers west of the river bank. Turk
A A A	1	TURBIDITY (NTUs)	4.18	5.54	5.44	the unstream value leremy Winston has been informed of too
SC		DISSOLVED O ₂ (mg/L)	10.25	8.36	8.89	American Environmental Testing Laboratory for analysis of To
ĽC		TOTAL SUSPENDED SOLIDS	40	0.0	26	
		(mg/L)	40	23	20	COIL
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ш К		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
STS		ELEVATION (approx.)	17.7	16.4	6.6	Jean Carlos Palacios arrived onsite at approximately 0915 for the 25. Today's water sampling results are shown below. The findownstream location. Water collected from the upstream loc (downstream7.jpg) has been cleared of most of the vegetation from the river. The internal water sample was taken between the limit for both the internal and downstream sites with respect the today's water sampling results as well. All (3) samples collected
К Ш	20	TIME	10:05	9:45	9:30	
	202	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	
EL 24	0/20/2	TEMPERATURE (°C)	20.3	20.03	20.35	
망망		рН	8.84	8.26	8.02	
AN	1(TURBIDITY (NTUs)	4.45	3.07	2.14	
SS RE		DISSOLVED O ₂ (mg/L)	9.88	8.99	10.91	
		TOTAL SUSPENDED SOLIDS	40		40	
		(mg/L)	19	23	19	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ц К		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ST		ELEVATION (approx.)	17.7	16.4	6.6	lean Carlos Palacios arrived onsite at approximately 0910 for t
КЩ	2020	TIME	10:10	9:55	9:30	25. Today's water sampling results are shown below. The field
ы Ш		SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	unstream location was sampled south of the third bridge pior
25 25	1/2	TEMPERATURE (°C)	19.47	19.26	19.04	tall vegetation being cut down. The internal location was access
U U U U U U U U U	10/2	рН	8.77	8.4	8.09	taken between the second and third niers west of the river ha
AN AC		TURBIDITY (NTUs)	5.47	5.15	2.63	sites with respect the upstream value as they yielded lower tu
SC RE		DISSOLVED O ₂ (mg/L)	10.91	9.71	10.29	(2) camples collected and analyzed will be submitted to
		TOTAL SUSPENDED SOLIDS	10	10	10	
		(mg/L)	10	13	19	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ш (С		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
STS		ELEVATION (approx.)	17.7	16.4	6.6	For October 22, 2020, 7th day of field work, Garo Avoyan arrive
х N	20	TIME	9:12	9:25	8:40	Reach 25 Sediments were set up to diverge the water flow by
	202	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	there was a rise in water tide because there was water how sy
12 12	2/:	TEMPERATURE (°C)	20.5	20.1	21.4	on the surface of the water between internal and downstream
승유	0/2	рН	8.83	8.44	8.89	at internal point. Between 0840 and 0925, collected and reco
ΑĂ	-	TURBIDITY (NTUs)	3.08	4.81	2.31	collected and submitted to American Environmental Testing
SC		DISSOLVED O ₂ (mg/L)	9.85	9.55	10.01	informed lerem
Ľ		TOTAL SUSPENDED SOLIDS	ND	10	7	
		(mg/L)	ND	12	1	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
ST S		ELEVATION (approx.)	17.7	16.4	6.6	Jean Carlo Palacios arrived onsite at approximately 0900 for t
а К П	20	TIME	9:42	9:35	9:15	Today's water sampling results are shown below. The field cre
ы. С-С	20:	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	clearing out debris/vegetation. Water collected from the ups downstream location is now more accessible due most of the ta
1 22 1 22	/6	TEMPERATURE (°C)	16.89	15.89	14.94	
θĽ	2/0	рН	8.84	8.28	8.35	edge of the central river flow without obstruction. The intern
Į A į	-	TURBIDITY (NTUs)	4.19	2.68	2.23	Turbidity results did not exceed the threshold limit for both the
SC RE		DISSOLVED O ₂ (mg/L)	10.76	10.91	10.43	results. Jeremy Winston has been informed of today's water
		TOTAL SUSPENDED SOLIDS	12	16	٥	Environmental Testing
		(mg/L)	13	10	3	

d crew operations to collected/analyze water quality of LA River West - Reach 25. Today's water above the river banks along the access roads clearing out debris upon arrival. Water collected dge pier below Willow St. The downstream location has been cleared of most of the vegetation also been cleared of obstructing vegetation/debris. Water levels have subsided since Saturday's sample water closer to the center of the river channel. The internal water sample was taken pidity results exceed the threshold limit for both the internal and downstream sites with respect lay's water sampling results as well. All (3) samples collected and analyzed will be submitted to tal Suspended Solids (TSS). We will continue our sampling/monitoring as field crew operations tinue on Tuesday, October 20, 2020.

he 5th day of field crew operations to collected/analyze water quality of LA River West - Reach ield crew was present above/along the river banks clearing out debris upon arrival south of cation was sampled south of the third bridge pier below Willow St. The downstream location obstructing access closer to the river. The internal location was accessible to retrieve samples the second and third piers west of the river bank. Turbidity results did not exceed the threshold e upstream value as they yielded lower turbidity results. Jeremy Winston has been informed of ed and analyzed will be submitted to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

he 6th day of field crew operations to collected/analyze water quality of LA River West - Reach d crew was present along the river bank near the upstream location. Water collected from the below the Willow St. bridge. The downstream location is now more accessible due most of the sible to retrieve samples from the edge of the central river flow. The internal water sample was ank. Turbidity results did not exceed the threshold limit for both the internal and downstream rbidity results. Jeremy Winston has been informed of today's water sampling results as well. All American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

ed on the job site to perform water quality sampling and monitoring at Los Angeles River West \cdot the upstream point. Field crews were working inside the channel cutting vegetation. It appears cattered throughout the internal and downstream points. There were lots of vegetation flowing . The upstream had lots of ducks, fishes, and debris as well. Turbidity readings was slightly high orded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/22 on 24-hour TAT. I y Winston via phone call of the turbidity results.

he 1st day of weekly water sampling/monitoring of water quality of LA River West - Reach 25. w was present along the river banks between the downstream and internal sampling locations stream location was sampled south of the third bridge pier south of the Willow St. bridge. The all vegetation being cut down. The internal location was accessible to retrieve samples from the al water sample was taken between the second and third bridge piers west of the river bank. internal and downstream sites with respect the upstream value as they yielded lower turbidity sampling results as well. All (3) samples collected and analyzed will be submitted to American Laboratory for analysis of Total Suspended Solids (TSS).

		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
2	0	LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
STE		ELEVATION (approx.)	17.7	16.4	6.6	Loan Carlo Balacios arrived ensite at annrovimately 1005 for we
КЩ		TIME	10:50	10:40	10:15	water campling results are shown below. The field crow was n
S S	02	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	down dobric (vogotation, Water collected from the upstre
EL 25	5/2	TEMPERATURE (°C)	20.92	20.72	19.97	down debris/vegetation. Water collected from the upstre
년 도 민	1/5	рН	9.27	8.6	8.4	flow without obstruction. The internal water sample was tal
AN	-	TURBIDITY (NTUs)	2.67	4.45	1.82	- now without obstruction. The internal water sample was tak
S R E S		DISSOLVED O ₂ (mg/L)	10.45	10.53	10.53	- Internal location site exceeded threshold limits with respect
C C		TOTAL SUSPENDED SOLIDS	10	17	15	voicemail. All (3) samples collected and analyzed will be submit
		(mg/L)	12	17	15	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ш Ш		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
STS		ELEVATION (approx.)	17.7	16.4	6.6	Jean Carlos Palacios arrived onsite at approximately 0915 fo
КЧ	20	TIME	10:10	9:50	9:30	 Today's water sampling results are shown below. Water collect
ы 1- 10 10	20;	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	- St. bridge. The downstream location was collected directly under
ЕL 1 2;	2/2	TEMPERATURE (°C)	15.81	15	14.28	central river flow without obstruction. The internal water sam
승유	1/1	рН	8.93	8.47	8.04	
ΑĂ	-	TURBIDITY (NTUs)	2.44	2.87	1.79	water sampling results via voicemail All (3) samples collected
SS (RE		DISSOLVED O ₂ (mg/L)	10.26	10.27	10.2	
Ľ		TOTAL SUSPENDED SOLIDS	6	13	16	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
Щ Х Ц		ELEVATION (approx.)	17.7	16.4	6.6	
ЪŰ	11/19/2020	TIME	11:45	11:30	11:15	Jean Carlos Palacios arrived onsite at approximately 1105 fo
S ≥		SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	 I oday's water sampling results are snown below. Water level
ELF 25		TEMPERATURE (°C)	20.59	18.84	18.9	- collected from the upstream location was sampled south of the
ы		Ηα	9.57	9.01	8.61	- under the PCH bridge. The internal location was accessible to r
ADA		TURBIDITY (NTUS)	3.07	3.48	1.85	- sample was taken between the second and third bridge piers w
S H		DISSOLVED O ₂ (mg/L)	9,91	10.62	9.76	- threshold limits with respect the upstream value. Jeremy wins
		TOTAL SUSPENDED SOLIDS				and analyzed will be submitted to American E
		(mg/L)	19	13	13	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results
Ц Ц		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
SIZ		ELEVATION (approx.)	17.7	16.4	6.6	Jean Carlos Palacios arrived onsite at approximately 1030 for th
Чų	0	TIME	11:15	10:55	10:40	Week 5 water sampling was skipped on 11/26/2020 due to holi
S ≥	02(SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	river south of the Willow St. bridge. Turbidity was high at the u
25 EL	3/2	TEMPERATURE (°C)	14.08	13.9	14.38	smoke and ash throughout Long Beach from the fire in Orang
년 도 민	2/	рН	9.24	8.21	7.68	location was accessible to retrieve samples from the edge of
AN	-	TURBIDITY (NTUs)	7.52	3.68	1.87	second and third bridge piers west of the river bank. Turbidity re
S R E		DISSOLVED O ₂ (mg/L)	10.96	10.85	10.43	upstream value. Jeremy Winston has been informed of today's
LO LO		TOTAL SUSPENDED SOLIDS	10	10	4.4	American Environmental Te
		(mg/L)	18	16	11	
		LATITUDE (approx.)	33.804022	33.800921	33.790174	Post-Work WQ Monitoring & Sampling Results
Ш (С		LONGITUDE (approx.)	-118.205717	-118.20572	-118.206032	
STS		ELEVATION (approx.)	17.7	16.4	6.6	
К П	_	TIME	8:47	8:38	8:05	For $01/08$ Garo Avoyan arrived on the jobsite at 0730 to perfo
)2,	SAMPLE NO.	LARWR25-1	LARWR25-2	LARWR25-3	and vegetation were removed. There were lots of debris and du
12 12	3/2(TEMPERATURE (°C)	13.1	13.4	14.7	
D T O	1/8	рН	8.53	8.64	8.42	downstream points. Between 0805 and 0847, collected and re
A A		TURBIDITY (NTUs)	2.01	3.76	3.34	collected and submitted to American Environmental Testi
SC (RE		DISSOLVED O ₂ (mg/L)	9.47	9.65	10	
		TOTAL SUSPENDED SOLIDS	חוא	10	10	
		(mg/L)			19	

eek 2 of weekly water sampling/monitoring of water quality of LA River West - Reach 25. Today's present along the river banks between the downstream and internal sampling locations cutting eam location was sampled south of the third bridge pier south of the Willow St. bridge. The idge. The internal location was accessible to retrieve samples from the edge of the central river ken between the second and third bridge piers west of the river bank. Turbidity results at the the upstream value. Jeremy Winston has been informed of today's water sampling results via tted to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

or week 3 of weekly water sampling/monitoring of water quality of LA River West - Reach 25. cted from the upstream location was sampled south of the third bridge pier south of the Willow er the PCH bridge. The internal location was accessible to retrieve samples from the edge of the ple was taken between the second and third bridge piers west of the river bank. Turbidity results reshold limits with respect the upstream value. Jeremy Winston has been informed of today's and analyzed will be submitted to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

or week 4 of weekly water sampling/monitoring of water quality of LA River West - Reach 25. Is are observed to have risen but not to the point that sampling sites were inaccessible. Water third bridge pier south of the Willow St. bridge. The downstream location was collected directly retrieve samples from the edge of the central river flow without obstruction. The internal water vest of the river bank. Turbidity results for the internal and downstream samples did not exceed ston has been informed of today's water sampling results via voicemail. All (3) samples collected Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

he 6th week of weekly water sampling/monitoring of water quality of LA River West - Reach 25. iday scheduling. Water collected from the upstream location was sampled near the center of the upstream location. This may be a result of the high wind deposits into the river. There was also ge County. The downstream location was collected directly under the PCH bridge. The internal the central river flow without obstruction. The internal water sample was taken between the results for the internal and downstream samples did not exceed threshold limits with respect the water sampling results via voicemail. All (3) samples collected and analyzed will be submitted to esting Laboratory for analysis of Total Suspended Solids (TSS).

orm post water quality sampling at the Los Angeles River West Reach 25. Both water divergence ucks in the channel water. It appeared water increased the decreased because of the amount of as well as the soil being very muddy. Turbidity readings were slightly high on both internal and ecorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples ng Labs (AFTL) for analysis of total suspended solids (TSS) on Friday 01/08 on 24-hour TAT.

		LATITUDE (approx.)	33.874239	33.872023	33.871242	Pre-Clearing/Baseline
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
		ELEVATION (approx.)	10	10	7	7
74 6)		TIME	7:50	8:25	8:30	For Monday, 09/14 – arrived on the jobsite at 0730am met wi
12 T	02(SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	baseline monitoring and sampling at upstream, internal, and
ЦЦС	-/2(TEMPERATURE (°C)	18.3	19.2	19.1	surface. Garo Avoyan had to find an area with less green vege
ЧО	/14	рН	7.95	8.41	8.74	start date. Between 0750 and 0830, collected and recorded w
R R	6	TURBIDITY (NTUs)	21.28	6.07	2.87	and submitted to American Environmental Testing Labs (AETI
		DISSOLVED O ₂ (mg/L)	9.52	9.96	9.92	quality standpoint
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	ND	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
		ELEVATION (approx.)	10	10	7	
74 (9)	0	TIME	9:50	9:33	9:39	For Wednesday, 09/16 – 1st day of field work, Garo Avoyar
	/16/202	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	Westchester Yard . Performed water sampling at upstream, i
CF CF		TEMPERATURE (°C)	21.2	21.9	23.1	sand bags placed at internal point. During sampling at upstre well as larva underwater. Internal point had some trash debris turbidity, and dissolved oxygen. Samples collected and submit Wednesday 09/16 on 24-hour TAT. G
Ū,Õ		рН	8.21	7.87	7.87	
R R	റ	TURBIDITY (NTUs)	12.24	11.5	10.29	
		DISSOLVED O ₂ (mg/L)	9.54	9.75	9.65	
		TOTAL SUSPENDED SOLIDS (mg/L)	37	13	5	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
		ELEVATION (approx.)	10	10	7	For Thursday, 00/17 and day of field work. Care Aveyon
74 (6)	0	TIME	10:30	9:55	10:00	For Hursday, 09/17 – 210 day of field work, Garo Avoyan
12 12	9/17/202	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	westchester faid. Periorned water sampling at upstream, i
ы С		TEMPERATURE (°C)	22.2	23.1	24	- sand bags placed at internal point. During sampling at upstical
О́П		рН	8.78	7.95	7.76	- Surface, laiva and simal fishes under water and a very bad ou
R R		TURBIDITY (NTUs)	14.77	3.68	4.64	avugan Samples collected and submitted to American Environ
		DISSOLVED O ₂ (mg/L)	9.46	8.79	8.9	bour TAT. Garo Avoyan in
		TOTAL SUSPENDED SOLIDS (mg/L)	9	ND	37	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
4		ELEVATION (approx.)	10	10	7	For Friday 09/18 – 3rd day of field work. Garo Avoyan arrived
· 74 26)	0	TIME	11:48	11:24	11:28	Yard Performed water sampling at unstream internal and do
ЦСТ	02	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	at internal point. During sampling at upstream point, the gree
Ч Ч С Ч	8/2	TEMPERATURE (°C)	24.3	27.1	28.5	floating on the water surface larva and small fishes underw
б)/1	рН	8.53	8.16	8.65	around the northeast area near the 91 Freeway and Vermont A
РР Н	0,	TURBIDITY (NTUs)	7.74	4.13	3.88	quality parameters of temperature, pH, turbidity, and dissolve
		DISSOLVED O ₂ (mg/L)	8.95	9.01	8.93	analysis of total suspended solids (TSS) on Friday 09/18 c
		TOTAL SUSPENDED SOLIDS	40	13	10	
		(mg/L)		10	10	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
4 ~		ELEVATION (approx.)	10	10	/	For Saturday, 09/19 – 4th day of field work, Garo Avoyan
Г7 26	20	TIME	12:06	11:40	11:45	westchester vard . Performed water sampling at upstream, i
Ϋ́	20;	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	sand bags placed at internal point. The majority of the vegeta
AC	19/	IEMPERATURE (°C)	24.5	27.9	21.7	around the portheast area poor the 01 Frequency and Marriers Underw
RC RC	9/1	pH	8.75	9.1	9.55	around the northeast area hear the 91 Freeway and vermont A
E E			8.66	3.67	3.54	quality parameters of temperature, pH, turbidity, and dissolved
			9.28	9.87	9.84	analysis of total suspended solids (155) on Monday 09/21 of
		TOTAL SUSPENDED SOLIDS (mg/L)	23	26	67	Dick

th Marco Godinez from Stormwater Maintenance 83rd Westchester Yard . Performed pre-work d downstream points at the Project 74. Upstream had lots of green vegetation floating on the tation to sample. Baseline monitoring and sampling was performed six (6) days prior of cleanout vater quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected L) for analysis of total suspended solids (TSS) on Monday 09/14 on 24-hour TAT. From a water project is "good to go" for start on Wednesday 09/16.

arrived on the jobsite at 0920 met with the Field Crew from Stormwater Maintenance 83rd internal, and downstream points at the Project 74. BMP was placed at the Upstream point and am point, there were good amounts of small green vegetation floating on the water surface as Between 0933 and 0950, collected and recorded water quality parameters of temperature, pH, ed to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on aro Avoyan informed Anthony Dickerson via text message of the results.

arrived on the jobsite at 0953 met with the Field Crew from Stormwater Maintenance 83rd internal, and downstream points at the Project 74. BMP was placed at the Upstream point and m point, he noticed the following, good amounts of small green vegetation floating on the water or coming from the water. Field crews already cut the green vegetations from upstream point.), collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/17 on 24formed Anthony Dickerson via text message of the results.

on the jobsite at 1118 met with the Field Crew from Stormwater Maintenance 83rd Westchester wnstream points at the Project 74. BMP was placed at the Upstream point and sand bags placed n vegetation was less today from previous days but there was still some small green vegetation ater and a very bad odor coming from the water. Field crews continued to remove vegetation we. Internal point had some trash debris. Between 1124 and 1148, collected and recorded water ed oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for on 24-hour TAT. Garo Avoyan informed Anthony Dickerson via text message of the results.

arrived on the jobsite at 1130 met with the Field Crew from Stormwater Maintenance 83rd internal, and downstream points at the Project 74. BMP was placed at the Upstream point and tion was removed at the upstream point. However there was still some small green vegetation ater and a very bad odor coming from the water. Field crews continued to remove vegetation we. Internal point had some trash debris. Between 1140 and 1206, collected and recorded water oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for n 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/22. I informed Anthony erson via text message of the results.

		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
	0	LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
		ELEVATION (approx.)	10	10	7	For Monday 00/21 Eth day of field work Gara Avoyan
74 (6)		TIME	12:40	12:04	12:09	For Worksbester Vard Derformed water campling at unstream i
L 2 L 2	02(SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	- westchester fard. Performed water sampling at upstream, i
ЩĊ	1/2	TEMPERATURE (°C)	22.9	27.5	29	- sand bags placed at internal point. The field crew cleared most
ЧО́	/21	pH	8.47	8.71	9.08	Ave nowever there was still some small green vegetation how
Я В	6	TURBIDITY (NTUs)	4.53	3.26	2.81	- the water. Between 1204 and 1240, conected and recorded w
_		DISSOLVED O ₂ (mg/L)	9.23	9	9.53	and submitted to American Environmental resting Labs (AET
		TOTAL SUSPENDED SOLIDS	10	20	38	imormed A
		(mg/L)	10	20		
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
4 0		ELEVATION (approx.)	10	10	7	
Г 7 26	20	TIME	12:50	13:25	12:20	Water sampling results for the 6th working day of field crev
ЫЦ	202	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	location. Testing and sampling was collected downstream from
AO	9/22/2	TEMPERATURE (°C)	23.05	29.15	29.3	bridge and the sandbag separation. The internal and downs was informed of today's results via voicemail. Samples collect
С С Ц		рН	7.74	8.93	9.53	
РF Н	0.	TURBIDITY (NTUs)	11.7	5	4.47	
		DISSOLVED O ₂ (mg/L)	8.78	9.32	9.74	
		TOTAL SUSPENDED SOLIDS (mg/L)	18	14	17	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
		ELEVATION (approx.)	10	10	7	Ear Wednesday, $00/23 - 7$ th day of field work. Garo Avoya
74 (6)	0	TIME	12:35	12:07	12:12	Westshester Vard Derformed water sampling at upstream i
	9/23/202	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	- westchester raid. Ferformed water sampling at upstream, i
Ц С		TEMPERATURE (°C)	24.3	29.4	29.4	unstream point to the portheast area of 91 Freeway and Ver
О́Ш		рН	8.15	8.93	8.7	- upstream point to the northeast area of 91 neeway and ven
R R R		TURBIDITY (NTUs)	4.92	4.64	3.55	temperature nH turbidity and dissolved ovvgen Samples
		DISSOLVED O ₂ (mg/L)	9.97	9.1	9.39	suspended solids (TSS) on Wednesday 9/22 09/21 or
		TOTAL SUSPENDED SOLIDS	5	16	0	
		(mg/L)	5	10	0	
		LATITUDE (approx.)	33.874239	33.872023	33.871242	Post-Work WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.290403	-118.29044	-118.290309	
, +		ELEVATION (approx.)	10	10	7	
. 7 [,] 26)	0	TIME	8:05	7:35	7:40	For Saturday $10/03 - Garo Avovan arrived on the jobsite at 07$
НСТ	02	SAMPLE NO.	P74R26-1	P74R26-2	P74R26-3	Project 74. All BMP and sand bags were removed and vegetation
ЧС	3/2	TEMPERATURE (°C)	19.9	19.8	20	on the water surface at the upstream point. Also the internal
бŰ	9/2	рН	8.15	7.94	7.82	water quality parameters of temperature, pH, turbidity, and c
РF F)	0,	TURBIDITY (NTUs)	16.79	13.99	11.82	(AFTL) for analysis of tot
		DISSOLVED O ₂ (mg/L)	8.38	8.13	9.12	
		TOTAL SUSPENDED SOLIDS (ma/L)	59	26	24	
		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline
z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
KAI		ELEVATION (approx.)	38.84	23.57	10	- For Thursday, 0/10 - Caro Aveyon arrived on site about 0720
DF DF	C	TIME	9:00	8:35	8:00	For find sudy, 9/10 – Garo Avoyan arrived on-site about 0/30
Z ∼	02(SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	- monitoring and sampling. Baseline monitoring and sampling
СIJ)/2(TEMPERATURE (°C)	20.5	19.74	20.59	- noticed the following: Both upstream and internal had lots of
ЪЧ	/10	pH	7.79	7.34	7.5	- uebris including chairs and soras dumped into the channel. The
AIN R	6	TURBIDITY (NTUs)	3.01	1.71	9.26	- and 0900, collected and recorded water quality parameters of t
		DISSOLVED O ₂ (ma/L)	10.01	9.99	9.16	- Environmental resting Labs (AETL) for analysis of total susper
>		TOTAL SUSPENDED SOLIDS	40		_	good to go for
		(mg/L)	18	8	/	

arrived on the jobsite at 1150 met with the Field Crew from Stormwater Maintenance 83rd internal, and downstream points at the Project 74. BMP was placed at the Upstream point and tly all the vegetation from the upstream point to the northeast area of 91 Freeway and Vermont ating on the water surface, larva and small fishes underwater and a very bad odor coming from ater quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected FL) for analysis of total suspended solids (TSS) on Monday 09/21 on 24-hour TAT. Garo Avoyan nthony Dickerson via phone call of the results.

w operations are shown below. The field crew was working near the upstream water sample the BPM located at the upstream location. The internal sample was taken between the Artesia ream locations both had turbidity results within the limit threshold of 20%. Anthony Dickerson ed from all (3) locations were submitted to American Environmental Testing Laboratory for T.S.S testing.

n arrived on the jobsite at 1150 met with the Field Crew from Stormwater Maintenance 83rd internal, and downstream points at the Project 74. BMP was placed at the Upstream point and ostly all the vegetation including the ones in the channel where sampling took place from the mont Ave However there was still some small green vegetation floating on the water surface, g from the water. Between 1207 and 1235, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total n 24-hour TAT. Garo Avoyan informed Anthony Dickerson via phone call of the results.

725 to perform post water quality sampling at upstream, internal, and downstream points at the on were removed from the soft bottom channel. However there small green vegetation floating point there were lots of debris in the channel. Between 1207 and 1235, collected and recorded dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs tal suspended solids (TSS) Monday 10/05 on 24-hour TAT.

and met with Steve Cuevas from Storm Water Maintenance Imperial Yard to perform baseline was performed withing six (6) days prior to star date. During sampling at each locations Garo vegetations floating on the surface and the downstream had vegetations, fishes and very large e field crew did cut a pathway for me to for access to the internal sampling point. Between 0800 temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Thursday 09/10 on 24-hour TAT. From a water quality standpoint, project is the proposed start of Wednesday 09/16/2020.

		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
K AI	0	ELEVATION (approx.)	38.84	23.57	10	Ear Wednesday, 0/16 Gare Avevan arrived on site about 07
Ц Г.		TIME	8:00	8:30	9:00	water campling and monitoring. During campling at each lo
	02	SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	floating on the surface. Turbidity readings were high at the de
ЧЧ	3/2	TEMPERATURE (°C)	20.8	19.5	20.1	the channel. Also there was water was just sottled at the dow
Ъд	/16	рН	8.56	8.27	7.84	tomporature pH turbidity and discoluded evugen. Samples
All R	റ	TURBIDITY (NTUs)	4.82	1.39	9.38	- temperature, pri, turbidity, and dissolved oxygen. Samples
		DISSOLVED O ₂ (mg/L)	9.71	9.8	9.65	suspended solids (155) on wednesday 09/16 on 24-nour 1.
3		TOTAL SUSPENDED SOLIDS	70	0	22	-
		(mg/L)	70	ð	22	
		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
Z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
4A		ELEVATION (approx.)	38.84	23.57	10	For Thursday, 9/17 – 2nd day of field work, Garo Avoyan arriv
D (0	TIME	8:30	8:55	9:26	Yard to perform water sampling and monitoring. During samp
ZÏ	02	SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	vegetations floating on the surface. Also internal point had wa
D D	7/2	TEMPERATURE (°C)	20.1	18.7	19.1	point had no flow of water going into the pump.Turbidity read
С Z	1	рН	8.35	7.96	7.91	
Ш К	0,	TURBIDITY (NTUs)	1.68	2.26	5.04	temperature nH turbidity and dissolved oxygen. Samples
		DISSOLVED O ₂ (mg/L)	9.44	9.74	9.47	suspended solids (TSS) on Thursday 02/17 on 24-hour T
\$		TOTAL SUSPENDED SOLIDS		7	10	
		(mg/L)	ND	1	12	
		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
Z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
RA		ELEVATION (approx.)	38.84	23.57	10	For Friday, 9/18 – 3rd day of field work, Garo Avoyan arrived of
D ()	0	TIME	8:08	8:36	9:10	Yard to perform water sampling and monitoring. During sa
N N	9/18/202	SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	vegetation removal, but there are lots of vegetations floating
AC C T		TEMPERATURE (°C)	20.1	18.8	21.2	day due to the vegetation being removed. Also downstream
С И И И		рН	8.05	7.97	7.92	clear the clogging at the pump area inside the channel. Turbidit
ЩЩ Ц		TURBIDITY (NTUs)	2.34	3.21	16.89	and very large debris including chairs and sofas dumped int
		DISSOLVED O ₂ (mg/L)	9.69	9.66	9.2	temperature, pH, turbidity, and dissolved oxygen. Samples
5		TOTAL SUSPENDED SOLIDS	7	12	45	suspended solids (TSS) on Friday 09/18 on 24-ho
		(mg/L)		12	10	
_		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
Z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
Υγ Γγγ		ELEVATION (approx.)	38.84	23.57	10	Hor Saturday, 9/19 – 4th day of field work, Garo Avoyan arrived
27 27	50	TIME	8:05	8:30	9:05	Yard to perform water sampling and monitoring. Field crew rer
δIJ	202	SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	vegetations in the water as well as some rubbish and insects.
С АС АС	/6	TEMPERATURE (°C)	21.1	20.1	22.1	point still has debris, fish and ducks. Paul Lopez of Stormwater I
ĭ ĭ	9/1	pH	8.25	7.56	7.79	by six inches. More will be removed on Tuesday 09/22/2020. It
Σ, ÷		TURBIDITY (NTUS)	2.73	9.14	6.74	and recorded water quality parameters of temperature, pH, tu
		DISSOLVED O ₂ (mg/L)	8.97	9.09	9.5	lesting Labs (AETL) for analysis of total suspended solids (T
>		TOTAL SUSPENDED SOLIDS	30	57	34	
			22 7000511	22.002400	00 704 0704	During Maintenance WO Manitaring & Compling Decults
-			33.7990511	33.603400	33.7910791	
			-118.2881454	-118.2889966	-118.2870848	-
SR ~			38.84	23.57	10	For Monday, 9/21 – 5th day of field work, Garo Avoyan arrived
2 7 2 7	20		8:25	9:00	9:25	 Yard to perform water sampling and monitoring. Field crew
ÓΥ	20		WDR27-1	WDR27-2	VVDR27-3	inspected the internal point and the area had water ponds in the area had water ponds in the second
AC AC	21/		21.1	20.6	21.2	- chemical fluid possibly radiator fluid that was on the water surf
ŽШ	:/6		8.49	7.9	7.90	at both internal (radiator fluid) and downstream (debris, fish, l
ΣŪ			6.06	22.22	27.62	temperature, pH, turbidity, and dissolved oxygen. Samples
NII V			9.08	8.65	9.34	suspended solids (TSS) on Monday 09/21 on 24-hour
-		IUTAL SUSPENDED SULIDS	150	57	31	
		(11)9/ ⊑/				

30 and met with Anthony Castaneda from Storm Water Maintenance Imperial Yard to perform cations Garo again noticed the following: Both upstream and internal had lots of vegetations ownstream had vegetations, fishes and very large debris including chairs and sofas dumped into wnstream point. Between 0800 and 0900, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total Garo Avoyan notified Paul Lopez via phone call and informed of the turbidity readings at the downstream point.

d on-site about 0815 and met with Anthony Castaneda from Storm Water Maintenance Imperial pling at each locations Garo again noticed the following: Both upstream and internal had lots of ater levels that rose due, the vegetation being removed, releasing water flow. Also downstream dings were high at both internal and downstream. Downstream still has vegetations, fishes and the channel. Between 0830 and 0926, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total AT. Garo Avoyan notified Paul Lopez via phone call and informed of the turbidity results.

on-site about 0750 and met with Anthony Castaneda from Storm Water Maintenance Imperial ampling at each locations Garo again noticed the following: Both upstream and internal had on the surface. Also internal point had water levels that remained the same from the previous point had no flow of water going into the pump, however the field crew brought in machine to ty readings were high at both internal and downstream. Downstream still has vegetations, fishes to the channel. Between 0808 and 0910, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total ur TAT. Garo Avoyan notified Steven Cuevas in person about the turbidity results.

on-site about 0750 and met with Anthony Castaneda from Storm Water Maintenance Imperial moved mostly the vegetation in the upstream and internal. At internal point there were lots of Also internal point had water levels dropped but the area was mostly muddy. The downstream Maintenance Imperial Yard informed me some water was removed and the water level dropped urbidity readings were high at both internal and downstream. Between 0805 and 0905, collected urbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental TSS) on Monday 09/21 on 24-hour TAT. Garo Avoyan notified Paul Lopez in person about the turbidity results.

on-site about 0810 and met with Anthony Castaneda from Storm Water Maintenance Imperial was removing vegetation soft bottom channel between Lomita Blvd and PCH. Garo Avoyan maybe due to water accumulation from previous months. Also there were good amounts of face. Garo Avoyan notified Anthony Castaneda of his findings. Turbidity readings were very high larva, and ducks) . Between 0825 and 0925, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total TAT. Garo Avoyan notified Anthony Castaneda in person about the turbidity results.

		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
Z		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
KAI		ELEVATION (approx.)	38.84	23.57	10	
D D D	0	TIME	9:50	10:15	11:15	- Releware today, the 6th working day of field exerctions' test
TON CH 2	02(SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	- Below are today, the our working day of field operations , test
	2/2	TEMPERATURE (°C)	22.67	21.97	23.16	working south of the upstream locations cutting down vegeta
ЮЧ	/22	pH	8.66	7.48	7.77	- There is an observable thin him substance present on the su
AF R)	6	TURBIDITY (NTUs)	3.34	9.13	9.48	- locations showed values above the 20% threshold limit with
		DISSOLVED O ₂ (mg/L)	10.66	9.17	9.48	- collected from the (3) locations have been submi
8		TOTAL SUSPENDED SOLIDS	20	22	17	
			33 7990511	33 803466	33 7016701	During Maintenance WO Monitoring & Sampling Results
7			-118 2881454	-118 2889966	-118 2870848	
AIR		ELEVATION (approx.)	38.84	23.57	10	-
R K			10:20	10:44	11:10	 For Wednesday, 9/23 – 7th day of field work, Garo Avoyan arr
27 27	20					vegetation in the soft bottom channel between Lomita Bl Downstream still had lots debris as well as fish and ducks. As substance on the surface of the water. Also water itself was n high at both internal and downstream. Between 1020 and 111 oxygen. Samples collected and submitted to American Enviror
δH	20		22 F	22.7	24.6	
GT	23/		23.5	7 29	24.0	
II II	:/6		5.09	10.07	10.17	
Υ Γ			0.00	10.97	19.17	
N N			9.36	9.96	9.73	24-hour TAT. GMED will now cond
_		(mg/l)	116	22	18	
						During Maintenance WO Monitoring & Sampling Results
7						
AIIA		ELEVATION (approx.)				-
) SR/						-
21 21	20					 For Wednesday September 30, 2020, Garo Avoyan arrived at
ΘH	/20					 Attached is a photo of the internal sampling point located on
ТЭС	9/30/					 doors off of Lomita Blvd on the south side of the east bound w
N N N						 sampling point. The area was dry. Water quality monitoring a
LM)						Board (RWQCB). GMED will conti
$\overline{\mathbf{N}}$						-
-		(mg/L)				During Maintenance WO Monitoring & Sampling Results
7						
All		ELEVATION (approx.)				-
AC (-
21 21	120	SAMPLE NO				For Wednesday October 07, 2020, Garo Avoyan arrived at 1
ΘIJ	/20					Attached is a photo of the internal sampling point located on
ה אַ פ	2/2					 doors off of Lomita Blvd on the south side of the east bound v
	1(TURBIDITY (NTUS)				– sampling point. The area was dry. Water quality monitoring a
L V						Board (RWQCB). GMED will conti
Ň						-
-						
		LATITUDE (approx.)				During Maintenance WO Monitoring & Sampling Results
z						
All		FLEVATION (approx.)				-
NC (C	0					-
Z Z	02	SAMPLE NO				For Wednesday October 14, 2020, Garo Avoyan arrived at 0
은 승	1/2					Attached is a photo of the internal sampling point located on
Ū Ā	11	nH			<u> </u>	doors off of Lomita Blvd on the south side of the east bound v
AIN RE	10					sampling point. The area was dry. Water quality monitoring a
∠) L						Board (RWQCB). GMED will conti
\mathbb{N}						-
-						

results for the water sampling/monitoring at the Wilmington Drain project. The field crew was ation. Recently cut down vegetation was present farther downstream at the internal location. rface of the water throughout this location. Turbidity results for the internal and downstream respect to the initial upstream reading. Paul Lopez was informed of today's results. Samples itted to American Environmental Testing Laboratory for T.S.S. testing and analysis.

rived on-site about 0810 and to perform water sampling and monitoring. The majority of all the lvd and PCH have been removed. Also vegetation removal near the upstream point as well. Garo was sampling from internal point, he noticed a very bad odor possible from the chemical ot clear possibly due to the cutting and removal of the vegetation. Turbidity readings were very .0, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved nmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 09/23 on uct weekly water sampling and monitoring until project completion.

1000 on-site to perform water quality sampling and monitoring at Wilmington Drain Reach 25. the west side of the drain about 825' south of Lomita Blvd. Access is via through the two gated vay of Lomita Blvd and then traveling across the east levee to the concrete ramp leading to the and sampling was not performed because the site did not meet Regional Water Quality Control inue to perform weekly monitor the area to re-confirm conditions.

057 on-site to perform water quality sampling and monitoring at Wilmington Drain Reach 25. the west side of the drain about 825' south of Lomita Blvd. Access is via through the two gated way of Lomita Blvd and then traveling across the east levee to the concrete ramp leading to the and sampling was not performed because the site did not meet Regional Water Quality Control inue to perform weekly monitor the area to re-confirm conditions.

915 on-site to perform water quality sampling and monitoring at Wilmington Drain Reach 25. the west side of the drain about 825' south of Lomita Blvd. Access is via through the two gated vay of Lomita Blvd and then traveling across the east levee to the concrete ramp leading to the and sampling was not performed because the site did not meet Regional Water Quality Control inue to perform weekly monitor the area to re-confirm conditions.

		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
Z	0	LONGITUDE (approx.)				
2A		ELEVATION (approx.)				
		TIME				For Wednesday October 21, 2020, Garo Avoyan arrived at 0
	02	SAMPLE NO.				Attached is a photo of the internal sampling point located on t
μų	1/2	TEMPERATURE (°C)				doors off of Lomita Plud on the south side of the east house
ОЧС	/2,	рН				compling point. The area was dry. Water quality monitoring a
AIN R	တ	TURBIDITY (NTUs)				Poard (PM/OCP) CMED will conti
		DISSOLVED O ₂ (mg/L)				Board (RwQcB). Gived will contri
3		TOTAL SUSPENDED SOLIDS				
		(mg/L)				
		LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results
Z		LONGITUDE (approx.)				
4A		ELEVATION (approx.)				
DF	50	TIME				For Wednesday October 28, 2020, Garo Avoyan arrived at 091 Field crew has already removed all their equipment out of the 2020. Attached is a photo of the internal sampling point loca
	202	SAMPLE NO.				
Q D	8/2	TEMPERATURE (°C)				
ЪЧG	0/2	рН				gated doors off of Lomita Blvd on the south side of the east bou
AIN R	1(TURBIDITY (NTUs)				the sampling point. The area was dry. Water quality mon
		DISSOLVED O ₂ (mg/L)				
3		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
⊢		LATITUDE (approx.)	34.156573	34.155823	34.153963	Pre-Clearing/Baseline
Ш	Σ.	LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	lean Carlo Palacios arrived onsite for water sampling today (Jar
5		ELEVATION (approx.)	890	888	881	20, 2021 to perform baseline monitoring and sampling of wa
33) 01		TIME	12:00	12:20	12:50	Murillo to identify sampling location and access routes At 12
	02	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	Blyd along the eastside access road for Madea Creek Access is
	1/19/2	TEMPERATURE (°C)	15.3	14.11	13.63	sample of internal and downstream locations without debris. T
CR E∕		рН	8.05	8.09	8.06	a small ledge. The downstream location south of Thousand O
A N		TURBIDITY (NTUs)	3.31	2.08	2.68	and the steen incline of the banks. He used a fishing rod to coll
DE		DISSOLVED O ₂ (mg/L)	10.59	9.12	10.01	submitted to American Environmental Testing Laboratory for
ЛE		TOTAL SUSPENDED SOLIDS	0		11	submitted to American Environmental resting Laboratory for
2		(mg/L)	9	ND	11	
H		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	
L L		ELEVATION (approx.)	890	888	881	Jean Carlo Palacios arrived onsite for water sampling today
33) O		TIME	10:00	11:15	10:30	quality. Today's results are shown below. Field crews were c
ΗT	02	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	upstream location approximately 600 ft N/o Thousand Oaks Bl
AC AC	0/2	TEMPERATURE (°C)	14.54	14	13.76	trees. High winds continue to make it difficult to obtain a repre
E C C	/2	рН	7.63	8.01	8.02	The internal sample was collection with a fishing rod casted o
A R	~	TURBIDITY (NTUs)	2.98	3.01	2.03	fishing rod to collect water from a section just north of the cl
DE		DISSOLVED O ₂ (mg/L)	9.41	9.84	9.49	turbidity results as well. All (3) samples collected and analyzed v
ЛE		TOTAL SUSPENDED SOLIDS	7	Q	5	Solids (TSS). We will continue w
~		(mg/L)	1	0	5	
E.		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
Ш ,—		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	
L L		ELEVATION (approx.)	890	888	881	Jean Carlo Palacios arrived onsite for water sampling today
33)	Σ	TIME	10:50	10:35	10:05	sampling. Today's results are shown below. Field crews were cl
ЦШТ	202	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	1005, Jean Carlo Palacios collected samples from the upstre
ЧС ЧС	1/2	TEMPERATURE (°C)	13.21	13.46	13.94	Madea Creek. Access is slightly obstructed by shrubs and tree
Ϋ́C	1/2	рН	7.86	8.02	7.73	of debris floating on the surface of water flow. The downstrea
Α Έ Α		TURBIDITY (NTUs)	2.82	2.7	2.52	S/o the initial downstream sampling point indicated yesterday
DE		DISSOLVED O ₂ (mg/L)	9.15	10.52	10.15	and analyzed will be submitted to American Environmental
ЧШ		TOTAL SUSPENDED SOLIDS		11	7	sampling/n
~		(mg/L)				

840 on-site to perform water quality sampling and monitoring at Wilmington Drain Reach 25. the west side of the drain about 825' south of Lomita Blvd. Access is via through the two gated vay of Lomita Blvd and then traveling across the east levee to the concrete ramp leading to the and sampling was not performed because the site did not meet Regional Water Quality Control inue to perform weekly monitor the area to re-confirm conditions.

8 on-site to perform post water quality sampling and monitoring at Wilmington Drain Reach 25. channel and cleaned up all vegetation as well after completing the work on Saturday October 24, ted on the west side of the drain about 825' south of Lomita Blvd. Access is via through the two und way of Lomita Blvd and then traveling across the east levee to the concrete ramp leading to oring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).

nuary 19, 2021) at approximately 1130 prior to field crew operations scheduled to begin January ater quality. Today's results are shown below. Jean Carlo Palacios met with crew leader, Ryan 100, he collected samples from the upstream location approximately 600 ft N/o Thousand Oaks slightly obstructed by shrubs and trees. High winds made it difficult to obtain a representative The internal sample location accessed by walking along the creek from the upstream location off aks Blvd. was difficult to acquire considering the minimal flow from the creek onto the channel lect water from a section just north of the channel. All (3) samples collected and analyzed will be analysis of Total Suspended Solids (TSS). We will continue with daily sampling/monitoring on 20, 2020 when field crew operations will begin.

(January 20, 2021) at approximately 0930 to perform day 1 monitoring and sampling of water clearing area near upstream location. At 1000, Jean Carlo Palacios collected samples from the lvd along the eastside access road for Madea Creek. Access is slightly obstructed by shrubs and esentative sample of internal and downstream locations without debris floating on the surface. off the bank. The downstream location south of Thousand Oaks Blvd. was also acquired using a channel at the initial downstream sampling point. Baltazar Moreno was informed of the water will be submitted to American Environmental Testing Laboratory for analysis of Total Suspended vith daily sampling/monitoring along with field crew operations.

(January 21, 2021) at approximately 0945 to perform day 2 of water quality monitoring and learing overgrowth in the section between the upstream and internal sampling site locations. At am location approximately 600 ft N/o Thousand Oaks Blvd along the eastside access road for . The internal sample was collection with a fishing rod casted off the bank. There are visible signs im location south of Thousand Oaks Blvd. was collected from the bottom of the channel slightly . Baltazar Moreno was informed of the water turbidity results as well. All (3) samples collected Testing Laboratory for analysis of Total Suspended Solids (TSS). We will continue with daily nonitoring along with field crew operations.

F		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
OUTLE (3)	4	LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	
		ELEVATION (approx.)	890	888	881	Jean Carlo Palacios arrived onsite for water sampling today
		TIME	11:15	11:00	10:45	sampling. Today's results are shown below. Field crews were c
$\times \frac{1}{2}$	02	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	samples from the upstream location approximately 600 ft
ШĊ	2/2	TEMPERATURE (°C)	12.12	12.56	12.15	obstructed by shrubs and trees. The internal sample was collect
EA CR	/22	PH	7.94	7.94	8.13	resulting from high wind and cleanout. The downstream locati
(R A	-	TURBIDITY (NTUs)	2.97	2.31	2.36	initial downstream sampling point indicated yesterday. Balta
ШО		DISSOLVED O ₂ (mg/L)	10.8	10.84	10.25	analyzed will be submitted to American Environmental T
1EI	ľ	TOTAL SUSPENDED SOLIDS		10	40	sampling/r
2		(mg/L)	8	12	13	
F		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	Jean Carlo Palacios arrived onsite for water sampling today (Ja
L L		ELEVATION (approx.)	890	888	881	sampling. Today's results are shown below. Field crews have
33) 01	<u></u>	TIME	10:30	10:45	10:00	location lean Carlo Palacios collected samples from the unstr
Ηщ	02	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	Madea Creek Access is slightly obstructed by shrubs and trees
ACI XEI	6/2	TEMPERATURE (°C)	8.8	9.03	8.53	of vegetation floating on the surface resulting from wind and c
C F E ∕	/2(рН	7.81	8.01	7.15	Thousand Oaks Blvd, was collected from the bottom of the ch
ĕ IJ	~	TURBIDITY (NTUs)	1.94	1.91	1.71	slightly increased in this location, potentially resulting from the
DE		DISSOLVED O ₂ (mg/L)	9.73	9.95	9.88	(2) camples collected and analyzed will be submitted to Am
ME		TOTAL SUSPENDED SOLIDS	ND	6	11	continue with daily s
		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
щ		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	
ΓĹ	021	ELEVATION (approx.)	890	888	881	 Jean Carlo Palacios arrived onsite for water sampling today (Ja
3) (C		TIME	9:30	10:20	9:55	- sampling. Yesterday's work was postponed due rain. Today's re
Ϋ́		SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	– sections S/o internal sampling site location. Jean Carlo Palacio
비	/2(9.02	10.43	9 85	along the eastside access road for Madea Creek. Access is sligh
E A	/28	nH	8.04	7.95	7.97	of the sampling section limits. There are visible signs of vegetat
A C (RI	1/	TURBIDITY (NTUS)	2.06	1 85	2 17	 turbidity results. The downstream location south of Thousan
)E,			10.23	10.53	10.39	sampling point indicated yesterday. Baltazar Moreno was i
			10.20	10.00	10.00	submitted to American Environmental Testing Laboratory for a
Σ		(mg/L)	ND	9	ND	
F		LATITUDE (approx.)	34.156573	34.155823	34.153963	During Maintenance WQ Monitoring & Sampling Results
Щ		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	Loop Carlo Delegios errived ensite for water compling today (1
Е		ELEVATION (approx.)	890	888	881	Jean Cano Palacios arrived onsite for water sampling today (Ja
() ()	~	TIME	11:00	10:45	10:10	sampling. The results of the sampling are shown below. Field the
$\times \frac{1}{2}$	02	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	site location. Jean Carlo Palacios collected samples from the u
ШĊ)/2(TEMPERATURE (°C)	10.49	10.03	9.05	There are visible sizes of vesstation floating on the surface are
CR EA	/30	рН	7.99	8.11	8.26	There are visible signs of vegetation floating on the surface res
A (R	-	TURBIDITY (NTUs)	2.32	2.09	1.86	from the bottom of the observed directly from water flow. Bal
ШО		DISSOLVED O ₂ (mg/L)	10.63	10.16	10.62	from the bottom of the channel directly from water now. Bar
MEI		TOTAL SUSPENDED SOLIDS (ma/L)	ND	ND	ND	sampling/n
			34,156573	34,155823	34,153963	During Maintenance WO Monitoring & Sampling Results
Щ		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	Jean Carlo Palacios arrived onsite for water sampling today (Fo
Γ		ELEVATION (approx.)	890	888	881	sampling. The results of the sampling are shown below. Field
3) OL		TIME	11:25	11:45	10:35	placed beforehand. Jean Carlo Palacios will schedule the final po
Ϋ́	21	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	upstream location approximately 600 ft N/o Thousand Oaks B
ШĊ	/20	TEMPERATURE (°C)	14.31	14.14	13.71	trees. The internal sample was collected near the northmost le
Я Ц А	121	Ηα	7.95	7.97	7.58	resulting from wind and cleanout but it does not appear to effe
A ((RI	^{CN}		1.82	1.49	1.75	and downstream sites. The downstream location south of T
ŬĽ,		DISSOLVED O ₂ (ma/L)	10.74	9.65	10.85	Baltazar Moreno was informed of the water turbidity results as
16		TOTAL SUSPENDED SOLIDS				and analyzed by American Environmental Testing Laboratory fo
2		(mg/L)	ND	ND	ND	for Madea Creek and wi

(January 22, 2021) at approximately 1015 to perform day 3 of water quality monitoring and learing overgrowth in sections S/o internal sampling site locations. Jean Carlo Palacios collected : N/o Thousand Oaks Blvd along the eastside access road for Madea Creek. Access is slightly ted with a fishing rod casted off the bank. There are visible signs of debris floating on the surface ion south of Thousand Oaks Blvd. was collected from the bottom of the channel slightly S/o the azar Moreno was informed of the water turbidity results as well. All (3) samples collected and Festing Laboratory for analysis of Total Suspended Solids (TSS). We will continue with daily nonitoring along with field crew operations.

anuary 26, 2021) at approximately 0945 to perform day 4 of daily water quality monitoring and ve cleared a majority of the overgrowth and vegetation in sections S/o internal sampling site ream location approximately 600 ft N/o Thousand Oaks Blvd along the eastside access road for . The internal sample was collected with a fishing rod casted off the bank. There are visible signs leanout but it does not appear to effect the turbidity results. The downstream location south of hannel slightly S/o the initial downstream sampling point indicated yesterday. Water flow has e rain in previous days. Baltazar Moreno was informed of the water turbidity results as well. All erican Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS). We will ampling/monitoring along with field crew operations.

inuary 28, 2021) at approximately 0930 to perform day 5 of daily water quality monitoring and esults are shown below. Field crews have cleared a majority of the overgrowth and vegetation in os collected samples from the upstream location approximately 600 ft N/o Thousand Oaks Blvd itly obstructed by shrubs and trees. The internal sample was collected near the northmost ledge tion floating on the surface resulting from wind and cleanout but it does not appear to effect the Id Oaks Blvd. was collected from the bottom of the channel slightly S/o the initial downstream informed of the water turbidity results as well. All (3) samples collected and analyzed will be analysis of Total Suspended Solids (TSS). We will continue with daily sampling/monitoring along with field crew operations.

inuary 30, 2021) at approximately 0930 to perform day 6 of daily water quality monitoring and rews have cleared a majority of the overgrowth and vegetation in sections S/o internal sampling upstream location approximately 600 ft N/o Thousand Oaks Blvd along the eastside access road rees. The internal sample was collected near the northmost ledge of the sampling section limits. sulting from wind and cleanout but it does not appear to effect the turbidity results. Field crews and downstream sites. The downstream location south of Thousand Oaks Blvd. was collected tazar Moreno was informed of the water turbidity results as well. All (3) samples collected and esting Laboratory for analysis of Total Suspended Solids (TSS). We will continue with daily monitoring along with field crew operations.

ebruary 2, 2021) at approximately 1000 to perform day 7 of daily water quality monitoring and crews have finished the cleanout for this location and have proceeded to the remove all BMPs ost water sampling for the Madea Creek project within the week. He collected samples from the lvd along the eastside access road for Madea Creek. Access is slightly obstructed by shrubs and edge of the sampling section limits. There are visible signs of vegetation floating on the surface ect the turbidity results. Field crews were presently clearing out vegetation between the internal housand Oaks Blvd. was collected from the bottom of the channel directly from water flow. well. Samples collected from Saturday, January 30, 2021 will be delivered with today's samples or analysis of Total Suspended Solids (TSS). Today concluded the daily scheduled water sampling ill continue with scheduling the final post water sampling.

F		LATITUDE (approx.)	34.156573	34.155823	34.153963	Post-Work WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.758341	-118.758639	-118.759685	
E		ELEVATION (approx.)	890	888	881	Jean Carlo Palacios arrived onsite for water sampling today
D n O		TIME	10:30	10:50	10:00	sampling 6 days after final day of field crew operations. The res
)21	SAMPLE NO.	MCRKR33-1	MCRKR33-2	MCRKR33-3	of sampling. Jean Carlo Palacios collected samples from the ups
ШÖ	/2(TEMPERATURE (°C)	11.66	12.9	11.58	Madea Creek. Access is slightly obstructed by shrubs and tree
CR A ∩	2/8	рН	7.85	7.09	7.78	There are visible signs of vegetation floating on the surface
A R		TURBIDITY (NTUs)	2.52	2.06	2.15	today's results as well. The downstream location south of Thou
ШО		DISSOLVED O ₂ (mg/L)	10.33	10.83	10.52	show that turbidity results for internal and downstream locatio
ME		TOTAL SUSPENDED SOLIDS (mg/L)	18	11	16	by American Environmental Testing Laboratory for analysis
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	Pre-Clearing/Baseline
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	For Tuesday $02/16$ Garo Avoyan arrived on site at 0.730 and
х Ш		ELEVATION (approx.)	16	21	10	water quality monitoring and campling at the San Jose Creek S
2) КП	~	TIME	7:54	8:24	8:40	water quality monitoring and sampling at the San Jose Creek
10 T	02	SAMPLE NO.	SJC-1	SJC-2	SJC-3	- one (1) day prior to start date. There were lots of debris that
ЧĊ	3/2	TEMPERATURE (°C)	15	14.9	14.1	three locations to determine results which will in turn indicate
О́Ч	/16	pH	8.44	8.62	8.51	
γ Ľ	2	TURBIDITY (NTUs)	3.06	3.64	3.06	- will be the preliminary phase of water sampling operations a
NAI NAI		DISSOLVED O ₂ (mg/L)	9.77	9.72	9.91	Between 0/54 and 00840, collected and recorded water qu
0,		TOTAL SUSPENDED SOLIDS (ma/L)	10	10	11	submitted to American Environmental Testing Labs (AETL) for standpoint, pro
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
ШШ		ELEVATION (approx.)	16	21	10	-
2) XE	_	TIME	9:04	9:11	9:20	For Wednesday 02/17, Garo Avoyan arrived on site at 0859 a
<u>ъ</u> 4)2 <u>´</u>	SAMPLE NO.	SJC-1	SJC-2	SJC-3	quality monitoring and sampling at the San Jose Creek Soft Bott
近 近	//2(TEMPERATURE (°C)	12.7	12.3	11.9	clearing out vegetation. BMPs were placed at the downstream
ŐШ	2/17	Ηα	9.14	9.01	8.93	cleared the channel, so he was able to conduct his water sam
L R R		TURBIDITY (NTUs)	2.55	2.59	1.76	water quality parameters of temperature, pH, turbidity, and
SAI 8		DISSOLVED O ₂ (mg/L)	9.91	9.76	9.79	(AETL) for analysis of total s
0)		TOTAL SUSPENDED SOLIDS	45			-
		(mg/L)	15	11	11	
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
Ť		ELEVATION (approx.)	16	21	10	
5 12 12		TIME	9:04	9:11	9:20	For Thursday 02/18, 2nd day of field operations, Garo Avoyan
υ _T)21	SAMPLE NO.	SJC-1	SJC-2	SJC-3	Yard to perform water quality monitoring and sampling at the
SE SE	/2(TEMPERATURE (°C)	15.6	15.1	16.2	point. There were lots of ducks spread throughout the channe
Ч	2/1	рН	9.17	9.03	8.86	0904 and 0920, collected and recorded water quality parame
z <u>r</u>		TURBIDITY (NTUs)	1.64	1.84	2.46	American Environmental Testing Labs (AETL) for analysis of t
SA		DISSOLVED O ₂ (mg/L)	10.01	9.93	9.67	Landino about the turbidity results and we discuss
		TOTAL SUSPENDED SOLIDS (ma/L)	10	ND	11	
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
Ц		ELEVATION (approx.)	16	21	10	For Friday 02/10, 3rd, day of field operations. Care Aveyan arriv
2) КП	~	TIME	9:59	10:10	10:18	For Friday 02/19, Sid day of field operations, Galo Avoyari and
U T	02	SAMPLE NO.	SJC-1	SJC-2	SJC-3	of the original PMD at the downstream point. There were lot
З С К	3/2	TEMPERATURE (°C)	14.4	14.5	14.9	internal point was clightly high due to duely in the area.
О́Ч	115	pH	9.1	9.09	9.16	turbidity and discolved evygen. Samples collected and submitt
z Ľ		TURBIDITY (NTUs)	1.91	2.81	2.28	Friday 02/19 on 24 hour TAT. Garo Avoyan informed Dischart
SA		DISSOLVED O ₂ (mg/L)	9.98	9.8	9.73	the internal com
		TOTAL SUSPENDED SOLIDS	10	10	10	
		(ma/L)	12	12	12	

(February 8, 2021) at approximately 0945 to perform the post water quality monitoring and sults of the sampling are shown below. All BMPs have been removed from the creek by the time stream location approximately 600 ft N/o Thousand Oaks Blvd along the eastside access road for es. The internal sample was collected near the northmost ledge of the sampling section limits. but they do not appear to effect the turbidity results. Baltazar Moreno has been informed of isand Oaks Blvd. was collected from the bottom of the channel directly from water flow. Results ons did not exceed turbidity limits. Water samples collected today will be delivered and analyzed of Total Suspended Solids (TSS). Results should be available by tomorrow, February 9, 2021.

met with Rigoberto Yescas from Stormwater Maintenance Longden Yard to perform baseline Soft Bottom Channel (SBC) Reach 42 Baseline water quality monitoring and sampling was done at came in through the storms and lots of vegetation. Rigo and Garo discussed that he will be \prime halt operations and have the field crew come out of the SBC, while Garo collects samples at all how many BMPs will be needed while the field crews will be working inside the channel. These and if results show improvement, then we will implement new tactics for the work operations. ality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and analysis of total suspended solids (TSS) on Tuesday 02/16 on 24-hour TAT. From a water quality ect is "good to go" for start on Wednesday 02/17.

and met with Rigoberto Yescas from Stormwater Maintenance Longden Yard to perform water tom Channel (SBC) Reach 42. Upon his arrival, field crew was working in the soft bottom channel point. As mentioned from his previous email, the field crew temporally ceased operations and pling at the internal and downstream points. Between 0904 and 0920, collected and recorded l dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs suspended solids (TSS) on Wednesday 02/17 on 24-hour TAT.

arrived on site at 0959 and met with Rigoberto Yescas from Stormwater Maintenance Longden he San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs were placed at the downstream el and lots of vegetations. The turbidity reading for the downstream was slightly high. Between eters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to total suspended solids (TSS) on Thursday 02/18 on 24-hour TAT. Garo Avoyan informed Victor sed for additional BMPs to be placed between the internal and downstream points.

ved on site at 0950 and met with Rigoberto Yescas from Stormwater Maintenance Longden Yard lose Creek Soft Bottom Channel (SBC) Reach 42. An additional BMP was placed several feet east s of ducks spread throughout the channel and lots of vegetations. The turbidity reading for the etween 0945 and 1018, collected and recorded water quality parameters of temperature, pH, ed to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on o Yescas about the turbidity results and to bring additional BMPs and if needed to place around npling points area for tomorrows water sampling.

		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
REEK 2)		ELEVATION (approx.)	16	21	10	For Saturday 02/20, 4th day of field operations, Garo Avoyan
Ч 5 12	~	TIME	9:52	10:04	10:28	
EEK SAN JOSE CREEK SAN JOSE CREEK (REACH 42) (REACH 42)	02	SAMPLE NO.	SJC-1	SJC-2	SJC-3	Yard to perform water quality monitoring and sampling at the
Ц С С Ц	0/2	TEMPERATURE (°C)	13.5	13.8	15.2	to occupy the channel. There was also lots of larva in the wat
О́Ц	/2(рН	9.25	9.09	8.98	recorded water quality parameters of temperature, pH, turbic
γ Ľ		TURBIDITY (NTUs)	1.5	1.89	1.68	Testing Labs (AETL) for analysis of total suspended solids (TSS)
AS AS		DISSOLVED O ₂ (mg/L)	9.98	9.79	9.94	results and discussed possible
.,		TOTAL SUSPENDED SOLIDS (mg/L)	80	72	76	
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
Ť		ELEVATION (approx.)	16	21	10	
ы 12 Ц	_	TIME	9:54	10:09	10:22	For Monday 02/22, 5th day of field operations, Garo Avoyan
U T U	02	SAMPLE NO.	SJC-1	SJC-2	SJC-3	Yard to perform water quality monitoring and sampling at the
SE (ACH	2/2	TEMPERATURE (°C)	15.5	16.4	16	to occupy the channel. Victor Landino informed him of the w
ŐЧ	/2;	рН	9.11	9.21	9.16	1022, collected and recorded water quality parameters of t
х х		TURBIDITY (NTUs)	1.97	1.96	2.21	American Environmental Testing Labs (AETL) for analysis of to
SAN		DISSOLVED O ₂ (mg/L)	9.95	9.9	9.91	Yescas about the turbidity results and discu
		TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	6	
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
SE CREEK (CH 42)	2/23/2021	ELEVATION (approx.)	16	21	10	
		TIME	9:25	9:42	9:58	For Tuesday 02/23, 6th day of field operations, Garo Avoyan
		SAMPLE NO.	SJC-1	SJC-2	SJC-3	Yard to perform water quality monitoring and sampling at the
		TEMPERATURE (°C)	14	14.7	14.9	to occupy the channel. Turbidity reading at the downstream p
О́Ч		pН	9.23	9.18	9.12	and 0958, collected and recorded water quality parameters o
z Ľ		TURBIDITY (NTUs)	1.7	1.66	2.07	American Environmental Testing Labs (AETL) for analysis of to
AS AS		DISSOLVED O ₂ (mg/L)	9.99	9.86	9.76	-
		TOTAL SUSPENDED SOLIDS	ND	8	ND	
			34 0325436	34 032474	34 032311	During Maintenance WO Monitoring & Sampling Results
			-118 005706	-118 007214	-118 0824	
X		ELEVATION (approx.)	16	21	10	-
2) 2)			9.25	9.39	9:52	
ЧС 4 4)21	SAMPLE NO	SJC-1	SJC-2	SJC-3	For Wednesday 02/24, 7th day of field operations, Garo A
BOOD TOTAL TEMPERATURE (°C) 13.5 13.8 15.2 YAU PH 9.25 9.09 8.98 TURBIDITY (NTUs) 1.5 1.69 1.68 DISSOLVED O. (mg/L) 9.98 9.79 9.94 TOTAL SUSPENDED SOLIDS 80 72 76 (mg/L) 34.0325436 34.032474 34.032 LATITUDE (approx.) 118.005706 118.007214 118.00 LONGTUDE (approx.) 16 21 100 10.2 SAMPLE NO. SJC-1 SJC-2 SJC-1 SJC-2 SJC-1 TURBIDITY (NTUs) 1.97 1.96 2.21 10 10.05 10.2 SJC-1 TURBIDITY (NTUs) 1.97 1.96 2.21 10 10.02 11.0 10.2 SJC-1 SJC-1 SJC-1 10.02 11.0 10.2 11.0 10.02 11.0 10.02 11.0 10.02 11.0 10.02 11.0 10.02 11.0 11.0 11.0 11.0	15.5	- Longden Yard to perform water quality monitoring and sample				
00 ₩	/24	Ηα	9.1	9.23	9.13	continue to occupy the channel. Between 0925 and 0952, c
L'IN)	2	TURBIDITY (NTUs)	2.05	2.07	2.13	oxygen. Samples collected and will be submitted to Americar
3AN		DISSOLVED O ₂ (mg/L)	10	10	9.94	U2/24 on 24-nour IAT. Garo
0)		TOTAL SUSPENDED SOLIDS		10	0.01	-
		(mg/L)	ND	6	8	
		LATITUDE (approx.)	34.0325436	34.032474	34.032311	Post-Work WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.005706	-118.007214	-118.0824	
Ъ		ELEVATION (approx.)	16	21	10	
Ч 5 1 2		TIME	9:20	9:40	9:55	
<u>0</u> 4)21	SAMPLE NO.	SJC-1	SJC-2	SJC-3	For Monday 03/08, Garo Avoyan arrived on site at 0915 to p
ЧЧ	/20	TEMPERATURE (°C)	16.2	16.6	16.6	(SBC) Reach 42. All BMPs were removed. Field crew comple
ÖЧ	3/8	pH	9.03	9.15	9.19	quality parameters of temperature, pH, turbidity, and dissolv
л Ч Д		TURBIDITY (NTUs)	1.9	1.13	1.52	(AETL) for analysis of tota
AS A		DISSOLVED O ₂ (mg/L)	9.96	9.87	9.97	7
		TOTAL SUSPENDED SOLIDS	40			1
		(mg/L)	10	ND	11	

arrived on site at 0945 and met with Rigoberto Yescas from Stormwater Maintenance Longden San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs are still in place. The ducks continue ter as well. The turbidity reading for the internal point. Between 0952 and 1028, collected and dity, and dissolved oxygen. Samples collected and will be submitted to American Environmental on Monday 02/22 on 24-hour TAT. Garo Avoyan informed Rigoberto Yescas about the turbidity areas to place additional BMPs at the internal sampling point.

arrived on site at 0945 and met with Rigoberto Yescas from Stormwater Maintenance Longden San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs are still in place. The ducks continue vater level slightly rose in the channel which also caused rapid flow as well. Between 0954 and emperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to tal suspended solids (TSS) on Monday 02/22 on 24-hour TAT. Garo Avoyan informed Rigoberto ussed possible areas to place additional BMPs at the internal sampling point.

arrived on site at 0915 and met with Rigoberto Yescas from Stormwater Maintenance Longden San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs are still in place. The ducks continue point was slightly high, possible natural habitats in the water flow including larva. Between 0925 of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to tal suspended solids (TSS) on Tuesday 02/23 on 24-hour TAT. Garo Avoyan informed Rigoberto Yescas about the turbidity results.

voyan arrived on site at 0915 and met with Rigoberto Yescas from Stormwater Maintenance ing at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs are still in place. The ducks collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved n Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday Avoyan informed Rigoberto Yescas about the turbidity results.

erform post water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel ted all vegetation work and cleanout. Between 0920 and 0955, collected and recorded water ved oxygen. Samples collected and will be submitted to American Environmental Testing Labs I suspended solids (TSS) on Monday 03/08 on 24-hour TAT.

		LATITUDE (approx.)		Pre-Clearing/Baseline
Ř		LONGITUDE (approx.)		
N GABRIEL RIVER (REACH 43)		ELEVATION (approx.)		
		TIME		For September 09, 2020, Garo Avoyan arrived on site about 1
	02(SAMPLE NO.		upstream, internal, and downstream points. The upstream sa
	/2(TEMPERATURE (°C)		flowing across the apron into the upstream portion of Reach 43
	6/6	рН		points. Both internal and downstream points of Soft Bottom Cl
	0,	TURBIDITY (NTUs)		the site did not meet Regional Water Quality Control Board (R
Z		DISSOLVED O ₂ (mg/L)		standpoint, proj
Ś		TOTAL SUSPENDED SOLIDS		
		(mg/L)		
		LATITUDE (approx.)		Pre-Clearing/Baseline
Ř		LONGITUDE (approx.)		
Ш >		ELEVATION (approx.)		
R S	0	TIME		
Ц 4	02(SAMPLE NO.		For September 16, 2020, Garo Avoyan arrived on site about 13
필요	3/2(TEMPERATURE (°C)		Reach 43. The upstream sampling point of Reach 43 at the cor
ΒAΒ	/16	, Ha		on the concrete portion of the dam. Water sampling was not p
(ନ ଅ	6	TURBIDITY (NTUs)		will continue to perfor
z				
SA				
		LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
/ER		LONGITUDE (approx.)		
		ELEVATION (approx.)		
B R				
¥	020	SAMPLE NO		For September 17, 2020, 2nd day of field work, Garo Avoyan ar
필문	/20			for San Gabriel River Reach 43. The unstream sampling poin
BF AC	9/17/			there was no water flow on the concrete portion of the dam. W
R G				Board (BW/OCB) GMED will contin
z				
AS SA			<u> </u>	
		IOTAL SUSPENDED SOLIDS		
-				During Maintenance WO Monitoring & Sampling Results
r				
Ξ				
22				
Ц 4 Н 04	20		l	Eor Sentember 18, 2020, 3rd day of field work, Garo Avoyan ar
SAN GABRIEL RIVER SAN GABRIEL R (REACH 43) (REACH 43)	20	SAMPLE NO.		for San Gabriel Piver Peach 42. The unstream sampling poin
BBR	18/			there was no water flow on the constrate portion of the dam. M
А В Ш	./6		<u> </u>	
z				Board (RWQCB). GWED WIII COIRTIN
3AI				
0)		TOTAL SUSPENDED SOLIDS		
				During Maintenance W/O Manitaring & Compling Depute
~				
μ				
$\geq \sim$				
ЧЦ 43	20		<u>↓ </u>	Ear Sontomber 21, 2020, 4th day of field work Core Average
프 프	20;	SAMPLE NO.		For September 21, 2020, 4th day of field work, Garo Avoyan ar
AC	17	TEMPERATURE (°C)	<u>↓ </u>	tor San Gabriel River Reach 43. The upstream sampling point o
ŝĂI ĈĒ	5/6	рН	ļ	was no water flow on the concrete portion of the dam. Water
		TURBIDITY (NTUs)	ļ	Board (RWQCB). GMED will contin
۲Å		DISSOLVED O ₂ (mg/L)		
S		TOTAL SUSPENDED SOLIDS		
		(ma/L)		

1129 am, to evaluate surface water flow prior to initiating baseline monitoring and sampling at ampling point of Reach 43 at the concrete outlet apron of Whittier Narrows Dam. Surface water 3. Surface water percolated underground before reaching the internal and downstream sampling hannel (SBC) were dry. Baseline water quality monitoring and sampling not performed because RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water quality ject is "good to go" for start on Wednesday 09/16.

330, to evaluate surface water flow prior to water sampling and monitoring for San Gabriel River ncrete outlet apron of Whittier Narrows Dam. As shown in the picture, there was no water flow performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED rm daily monitoring of the area to re-confirm conditions

rrived on site about 1328, to evaluate surface water flow prior to water sampling and monitoring nt of Reach 43 at the concrete outlet apron of Whittier Narrows Dam. As shown in the picture, Vater sampling was not performed because the site did not meet Regional Water Quality Control ue to perform daily monitoring of the area to re-confirm conditions.

rived on site about 1334, to evaluate surface water flow prior to water sampling and monitoring nt of Reach 43 at the concrete outlet apron of Whittier Narrows Dam. As shown in the picture, Vater sampling was not performed because the site did not meet Regional Water Quality Control ue to perform daily monitoring of the area to re-confirm conditions.

rived on site about 1332, to evaluate surface water flow prior to water sampling and monitoring f Reach 43 at the concrete outlet apron of Whittier Narrows Dam. As shown in the picture, there er sampling was not performed because the site did not meet Regional Water Quality Control ue to perform daily monitoring of the area to re-confirm conditions.

		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	
GABRIEL RIVER (REACH 43)		ELEVATION (approx.)	
	0	TIME	
	02	SAMPLE NO.	
	2/2	TEMPERATURE (°C)	We continue monitoring the water flow for today, for the San G
	/2,	рН	water flow for sampling and as such none was coll
	တ	TURBIDITY (NTUs)	
Z		DISSOLVED O ₂ (mg/L)	
Ś		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
R		LONGITUDE (approx.)	
N N		ELEVATION (approx.)	
LA E	0	TIME	
	02	SAMPLE NO.	For September 23, 2020, 7th day of field work, Garo Avoyan ar
N N	3/2	TEMPERATURE (°C)	for San Gabriel River Reach 43. The upstream sampling point o
AB F AB	/2;	рН	was no water flow on the concrete portion of the dam. Wate
S C	0)	TURBIDITY (NTUs)	Board (RWQCB). GMED will now
Z		DISSOLVED O ₂ (mg/L)	
Ś		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	
IVE		ELEVATION (approx.)	
13) R	0	TIME	Garo Avovan arrived on site about 1315 to evaluate surface w
	02	SAMPLE NO.	sampling point of Reach 43 at the concrete outlet aprop of W
N IN	0/2	TEMPERATURE (°C)	the dam. However the water flow was running from the edge
AB)/3(рН	nerformed because the site did not meet Regional Water Quali
ц К	0,	TURBIDITY (NTUs)	
AN		DISSOLVED O ₂ (mg/L)	
Ś		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
\geq		ELEVATION (approx.)	
43) R	0	TIME	For October 07, 2020, 17th day of field work, Garo Avoyan arr
μŢ	502	SAMPLE NO.	for San Gabriel River Reach 43. The upstream sampling point o
AC X	7/2	TEMPERATURE (°C)	the dam because of the dense fog. First picture was taken in
Ϋ́Ε̈́Η	10/	рН	down the soft bottom channel. The second picture is the south
О Г О		TURBIDITY (NTUs)	As shown in the picture, there was no water flow on the cor
AA		DISSOLVED O ₂ (mg/L)	Regional Water Quality Control Board (RWQCB).
S		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	Post-Work WQ Monitoring & Sampling Results
Ц		LONGITUDE (approx.)	
\geq		ELEVATION (approx.)	
4 7 D	20	TIME	For October 14, 2020, Garo Avoyan arrived on site about 100, h
ΞŢ	20	SAMPLE NO.	The upstream sampling point of Reach 43 and the south side
AC AC	14/	TEMPERATURE (°C)	apron of the Whittier Dam. Surface water flowing across th
ŠĒ,	0	рН	reaching the internal and downstream points. No water sam
		TURBIDITY (NTUs)	
۲Å		DISSOLVED O ₂ (mg/L)	
0		TOTAL SUSPENDED SOLIDS	
		(ma/L)	

abriel – Reach 43 project. Upon arrival at 1500, the upstream location does not show sign	ificant
ected. GMED will continue to monitor water flow activity to confirm dry conditions.	

rived on site about 1315, to evaluate surface water flow prior to water sampling and monitoring f Reach 43 at the concrete outlet apron of Whittier Narrows Dam. As shown in the picture, there er sampling was not performed because the site did not meet Regional Water Quality Control perform weekly monitoring of the area to re-confirm conditions.

vater flow prior to water sampling and monitoring for San Gabriel River Reach 43. The upstream 'hittier Narrows Dam. As shown in the picture, there was water flow on the concrete portion of ge of the concrete box portion and the big rocks in front of the dam. Water sampling was not ity Control Board (RWQCB). GMED will now perform weekly monitoring of the area to re-confirm conditions.

ived on site about 0745, to evaluate surface water flow prior to water sampling and monitoring f Reach 43 and the south side view of San Gabriel River Bridge. Was unable to get a clear view of side the channel which shows discharge of water coming off the concrete box but is not going h side view of the San Gabriel River Bridge which shows no flow of water coming from the dam. ncrete portion of the dam. Water sampling was not performed because the site did not meet . GMED will now perform weekly monitoring of the area to re-confirm conditions.

he arrived to perform post water quality sampling and monitoring for San Gabriel River Reach 43. view of San Gabriel River Bridge. As shown in the picture, water flowing on the concrete outlet e apron into the upstream portion of Reach 43. Surface water relocated underground before pling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).

		LATITUDE (approx.)	Pre-Clearing/Baseline
Ř		LONGITUDE (approx.)	
SAN GABRIEL RIVEF (REACH 44)		ELEVATION (approx.)	
		TIME	Ear Sontomber 00, 2020. Care Avevan arrived on site abov
)2C	SAMPLE NO.	For September 09, 2020, Garo Avoyan arrived on site about
	/20	TEMPERATURE (°C)	upstream, internal, and downstream. Attached is a photo o
	6/6	Hq	Firescone Bivd. Reach extends south to Firescone Bivd and ho
	0,	TURBIDITY (NTUs)	water quality monitoring and sampling not performed becaus
		DISSOLVED O ₂ (mg/L)	monitor the area to re-confirm conditions From
S/		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	
Ш >		ELEVATION (approx.)	
<u>4</u>		TIME	
Ц Т Т Т)2(SAMPLE NO.	For September 14, 2020, Garo Avoyan arrived on site abou
照 다	/2(TEMPERATURE (°C)	upstream, internal, and downstream. Attached is a photo of the
ABI ABI	/14	Ηα	south to Firestone Blvd with the San Gabriel Coastal Spreadir
(RI	6		because the site did not meet Regional Water Quality Control I
Z			quality standpoint,
SA			
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
/ER		LONGITUDE (approx.)	
		ELEVATION (approx.)	
<u>ч</u>			
Ц 4	320	SAMPLE NO	For September 21, 2020, 1st day of field work, Garo Avoyan ar
11 12	/20		downstream of San Gabriel Dam Reach 44. Attached is a pho
BL	21	nH	extends south to Firestone Blvd with the San Gabriel Coastal Sc
G R BR	6/		because the site did not meet Regional Water Quality C
Z			
SA			
			During Maintenance WO Monitoring & Sampling Results
к			
/EI		ELEVATION (approx.)	
É K			
4	20	SAMPLE NO	
E H	/2C		We continue monitoring the water flow for today, the 2nd day
BF	22		for sampling and as such none was collecte
A B R	6/		
z			
SA			
•,		(mg/L)	
			During Maintenance WO Monitoring & Sampling Results
Ŕ			
/EI		ELEVATION (approx.)	
()			
4	20		Eor Sentember 23, 2020, 3rd day of field work. Garo Avoyan av
12 12	/20		downstream of San Gabriel Dam Reach 44 Attached is a pho
BF	23,		extends south to Firestone Rivd with the San Gabriel Coastal Sr
GA RE	6/2		herause the site did not meet Regional Water Quality Contr
ž			
SA			
		(ma/L)	
-			

It 1144 to evaluate surface water flow prior to initiating baseline monitoring and sampling at of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2 south to orth of RD 2, adjacent to the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline se the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to a water quality standpoint, project is "good to go" for start on Wednesday 09/16.

at 1010 to evaluate surface water flow prior to initiating baseline monitoring and sampling at ne upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends ng Grounds. The area was dry. Baseline water quality monitoring and sampling not performed Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water , project is "good to go" for start on Monday 09/21.

rrived on site about 1357 to perform water monitoring and sampling at upstream, internal, and pto of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions

of field work. Upon arrival at 1430, the upstream location does not show significant water flow ed. We will continue to monitor water flow activity to confirm dry conditions.

rrived on site about 1337 to perform water monitoring and sampling at upstream, internal, and pto of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed rol Board (RWQCB). GMED will continue to daily monitoring the area to re-confirm conditions.

		LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
К К		LONGITUDE (approx.)		
VE		ELEVATION (approx.)		
N GABRIEL RIV (REACH 44)	0	TIME		
	02	SAMPLE NO.		For September 24, 2020, 4th day of field work, Garo Avoyan a
	4/2	TEMPERATURE (°C)		downstream of San Gabriel Dam Reach 44. Attached is a pho
	9/2	рН		extends south to Firestone Blvd with the San Gabriel Coastal Sp
	0,	TURBIDITY (NTUs)		because the site did not meet Regional Water Quality Contr
AN		DISSOLVED O ₂ (mg/L)		
Ś		TOTAL SUSPENDED SOLIDS		
		(mg/L)		
		LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
2 2		LONGITUDE (approx.)		
\geq		ELEVATION (approx.)		
R (44	0	TIME		
ΞŤ	202	SAMPLE NO.		For September 25, 2020, 5th day of field work, Garo Avoyan a
ÅC ÅC	5/2	TEMPERATURE (°C)		downstream of San Gabriel Dam Reach 44. Attached is a pho
AE KE/	9/2	рН		extends south to Firestone Blvd with the San Gabriel Coastal Sp
С Ц Ц	0,	TURBIDITY (NTUs)		because the site did not meet Regional Water Quality Contr
AN		DISSOLVED O ₂ (mg/L)		
S		TOTAL SUSPENDED SOLIDS		
		(mg/L)		
		LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)		
\geq		ELEVATION (approx.)		
Ч А (44	0	TIME		
ΞŤ	202	SAMPLE NO.		For September 28, 2020, 6th day of field work, Garo Avoyan a
ÅC	8/2	TEMPERATURE (°C)		downstream of San Gabriel Dam Reach 44. Attached is a pho
RE,	9/28	рН		extends south to Firestone Blvd with the San Gabriel Coastal Sp
ОЧ С	0,	TURBIDITY (NTUs)		because the site did not meet Regional Water Quality Contr
AN		DISSOLVED O ₂ (mg/L)		
S		TOTAL SUSPENDED SOLIDS		
		(mg/L)		
~				During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)		
≥i<		ELEVATION (approx.)		
□ 4 R 4	20	LIME		For Soutomber 20, 2020. 7th, day of field work. Care Average
핃 곳	20;	SAMPLE NO.		For September 29, 2020, 7th day of heid work, Garo Avoyan a
AC	6	TEMPERATURE (°C)		downstream of San Gabriel Dam Reach 44. Attached is a pho
SA RE	6/2	pH		extends south to Firestone Bivd with the San Gabriel Coastal Sp
				because the site did not meet Regional Water Quality Control
ßAl				
0)		TOTAL SUSPENDED SOLIDS		
				During Maintonance W/O Monitoring & Sampling Popults
~				
ΈL Έ				
SIV (†				
L Р 44	20			Eor October 06, 2020, 12th, day of field work. Garo Avoyan ar
빌꾼	20			downstream of San Gabriel Dam Beach 44 Attached is a neo
BF	/9/		<u>├</u> ───	extends south to Eirostone Blvd with the San Cabriel Coastal St
GA RE	10		<u>├</u> ──	herause the site did not meet Perional Water Quality Control
z			<u>├</u> ───	
SA			<u>↓ </u>	
		IUTAL SUSPENDED SULIDS		

rrived on site about 0930 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed ol Board (RWQCB). GMED will continue to daily monitoring the area to re-confirm conditions.

rrived on site about 1022 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed ol Board (RWQCB). GMED will continue to daily monitoring the area to re-confirm conditions.

irrived on site about 1138 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed ol Board (RWQCB). GMED will continue to daily monitoring the area to re-confirm conditions.

rrived on site about 0914 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed Board (RWQCB). GMED will now switch to weekly monitoring the area to re-confirm conditions.

rrived on site about 0730 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed Board (RWQCB). GMED will now switch to weekly monitoring the area to re-confirm conditions.

		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
L RIVER 44)		LONGITUDE (approx.)				
		ELEVATION (approx.)				
R (1	20	TIME				
N GABRIEL (REACH 44	20;	SAMPLE NO.				For October 13, 2020, 16th day of field work, Garo Avoyan an
	3/;	TEMPERATURE (°C)				downstream of San Gabriel Dam Reach 44. Attached is a pho
	0/1	рН				extends south to Firestone Blvd with the San Gabriel Coastal Sp
С К	~	TURBIDITY (NTUs)				because the site did not meet Regional Water Quality Control
AN		DISSOLVED O ₂ (mg/L)				
Ś		TOTAL SUSPENDED SOLIDS				
		(mg/L)				
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
ĒR		LONGITUDE (approx.)				
Ν		ELEVATION (approx.)				
R (1	20	TIME				
Н Н Ч	202	SAMPLE NO.				For October 20, 2020, 21st day of field work, Garo Avoyan a
ΜŪ	0	TEMPERATURE (°C)				downstream of San Gabriel Dam Reach 44. Attached is a pho
SAN GAB (REA	0/2	рН				extends south to Firestone Blvd with the San Gabriel Coastal Sp
	1	TURBIDITY (NTUs)				because the site did not meet Regional Water Quality Control I
		DISSOLVED O ₂ (mg/L)				7
		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
RIEL RIVER (CH 44)	10/27/2020	LONGITUDE (approx.)				
		ELEVATION (approx.)				7
		TIME				
		SAMPLE NO.				For October 27, 2020, 25th day of field work, Garo Avoyan an
		TEMPERATURE (°C)				downstream of San Gabriel Dam Reach 44. Attached is a pho
ЧB		pH				extends south to Firestone Blvd with the San Gabriel Coastal Sp
ତ ଅ		TURBIDITY (NTUs)				because the site did not meet Regional Water Quality Cor
Z		DISSOLVED O ₂ (mg/L)				-
l'S		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
		LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)				
<pre>E</pre>		ELEVATION (approx.)				
<u>5</u>	0	TIME				7
	020	SAMPLE NO.				For November 06, 2020, Garo Avoyan arrived on site about 070
E C	3/2	TEMPERATURE (°C)				Gabriel Dam Reach 44. Attached is a photo of the upstream
AB E⊳	1/6	pH				Firestone Blvd with the San Gabriel Coastal Spreading Grounds
ତ ଅ	-	TURBIDITY (NTUs)				did not meet R
Z		DISSOLVED O ₂ (mg/L)				-
l'S		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline
		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
		ELEVATION (approx.)	38.84	23.57	10	7
(E)	0	TIME	12:05	11:25	11:30	Lean Carle Palacies arrived encite for water compling prior to fi
	02(SAMPLE NO.	WCRK-1	WCRK-2	WCRK-3	Vard to perform baceling monitoring and compling. Today's re-
ШĊ	3/2	TEMPERATURE (°C)	22.84	19.96	19.41	and the down stream leastion nearby. To call at the sweeten
БA	3/0	pH	9.6	8.17	8.42	and the down stream location hearby. To collect the upstream
ĽЧ)	-	TURBIDITY (NTUs)	1.36	3.65	2.39	Submitted to American Environmental Testing Laboratory for a
NL		DISSOLVED O ₂ (ma/L)	9.98	9.23	10.18	15, 202
Z Z		TOTAL SUSPENDED SOLIDS				1
>		(mg/l)	10	ND	ND	

rrived on site about 0941 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed Board (RWQCB). GMED will now switch to weekly monitoring the area to re-confirm conditions.

rived on site about 0805 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed Board (RWQCB). GMED will now switch to weekly monitoring the area to re-confirm conditions.

rived on site about 1000 to perform water monitoring and sampling at upstream, internal, and to of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach preading Grounds. The area was dry. Water quality monitoring and sampling was not performed ntrol Board (RWQCB). GMED will continue to monitoring the area to re-confirm conditions.

00 to perform post water monitoring and sampling at upstream, internal, and downstream of San n sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to . The area was dry. Water quality monitoring and sampling was not performed because the site Regional Water Quality Control Board (RWQCB).

ield crew operations intended to begin October 15. He met with Albert McCray to from Longden esults are shown below. At approximately 1100 we collected samples from the internal location am sample, we had to access the box channel. The (3) samples collected and analyzed will be analysis of Total Suspended Solids (TSS). We will continue our sampling/monitoring on October 20 when field crew operations will begin.

		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results
NUT CREEK (INLET) (REACH 98)		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
		ELEVATION (approx.)	38.84	23.57	10	Jean Carlo Palacios arrived onsite at approximately 1000 for w
	0	TIME	10:05	10:20	10:35	
	502	SAMPLE NO.	WCRK-1	WCRK-2	WCRK-3	Walnut Creek Reach 98. The internal and downstream location
	5/2	TEMPERATURE (°C)	23.68	22.23	19.96	of sampling, a front loader was exiting the creek. This may give
	1/C	рН	8.82	8.45	8.44	locations. Albert McCray has been informed of today's turbid
	7	TURBIDITY (NTUs)	3.52	17.1	7.39	finished by today, October 15, 2020. The (3) samples collected
ĨZ.		DISSOLVED O ₂ (mg/L)	9.54	9.58	9.98	
ML		TOTAL SUSPENDED SOLIDS (mg/L)	8	38	14	
		LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Post-Work WQ Monitoring & Sampling Results
ET)		LONGITUDE (approx.)	-118.2881454	-118.2889966	-118.2870848	
Ę		ELEVATION (approx.)	38.84	23.57	10	lean Carlo Palacios arrived onsite at approximately 1100 for wa
€) (E)	0	TIME	11:20	11:30	11:45	- Jean Carlo Palacios arrived onsite at approximately 1100 for wa
ШТ Хо	502	SAMPLE NO.	WCRK-1	WCRK-2	WCRK-3	and unstroam locations are loss than 100 ft apart. Entering
ШĊ	0/2	TEMPERATURE (°C)	19.58	19.11	18.63	and upstream locations are less than 100 it apart. Entering
БА П	0/2	рН	8.34	8.05	8.15	High turbidity opacity and heavier water flow may be a re-
ЦЧ К	1(TURBIDITY (NTUs)	63.4	68.7	64.6	- High turbluity, opacity and heavier water how may be a re-
N		DISSOLVED O ₂ (mg/L)	10.57	8.44	9.63	- Increasing water now further downstream. Albert Miccray has i
M		TOTAL SUSPENDED SOLIDS (mg/L)	144	185	165	
		LATITUDE (approx.)	33.986641	33.984285	33.980196	Pre-Clearing/Baseline
\overline{T}		LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ΞĘ	11/10/2020	ELEVATION (approx.)	5	5	5	
<u>ы</u> О		TIME	7:10	7:26	7:41	Ear 11/10 Care Avevan arrived on site at 0705 to perform h
ы S		SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	For 11/10, Garo Avoyan arrived on-site at 0705 to periorin b
₹Ľ		TEMPERATURE (°C)	8.57	8.67	9.7	During campling he noticed late of ducks vegetation and track
δŢ		pH	8.69	8.58	8.27	- During sampling the noticed lots of ducks, vegetation and trasi
AC L		TURBIDITY (NTUs)	3.43	5.62	4.53	- parameters of temperature, pr, turbidity, and dissolved oxygen
BA E/		DISSOLVED O ₂ (mg/L)	10.03	9.88	9.99	
Ľ.		TOTAL SUSPENDED SOLIDS	c	11	1.4	
		(mg/L)	0		14	
		LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
V Î		LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
μ̈́Ε		ELEVATION (approx.)	5	5	5	
ШÖ	20	TIME	8:13	8:25	8:33	For Monday, 11/16 – 1st of field work, Garo Avoyan arrived o
	20;	SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	to performed water sampling at upstream, internal, and dow
A L	/9	TEMPERATURE (°C)	15	15.5	15.5	removing vegetation by hand on the slope side of the channel
ŌŢ	1/1	рН	8.46	8.43	8.27	points. Ducks and lots of debris were present inside the chann
AC	-	TURBIDITY (NTUs)	1.5	1.46	1.24	pH, turbidity, and dissolved oxygen. Samples collected and su
BZ E		DISSOLVED O ₂ (mg/L)	9.5	9.88	9.88	(TS:
E)		TOTAL SUSPENDED SOLIDS	17	16	20	
			00.000044	00.004005		
			33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
ΥË		LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	_
	_	ELEVATION (approx.)	5	5	5	
SC	120		8:18	8:33	8:45	For ruesday, 11/17 – 2nd or neid work, Garo Avoyan arrived o
N N	/20	SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	down as field arous continued to remove vegetation on the cou
Ž É	17		14.1	14.6	14.6	down as new crews continued to remove vegetation on the sol
Ч С С	11/	pH	8.52	8.31	8.29	discolude over an experience of the start over the start of the start of the start over the star
AL			1.95	1.5	1.25	uissolved oxygen. Samples collected and submitted to Ameri
B R			10.04	9.9	9.91	4
I)		IOTAL SUSPENDED SOLIDS (mg/L)	ND	30	44	

ater sampling/testing at the upstream location for day 1 and final day of field crew operations at ns are less that 100 ft apart. Field crews were present at the internal sampling point. At the time e reason for turbidity results exceeding the threshold limit for both the internal and downstream dity results as well. Jean Carlo Palacios have been informed that work at Walnut Creek will be d and analyzed will be submitted to American Environmental Testing Laboratory for analysis of Total Suspended Solids (TSS).

ater sampling/testing approximately 5 days post field crew operations at Walnut Creek Reach 98. re visibly opaque from water flowing north of upstream location and project limits. The internal the box channel for the downstream location, we observe heavier water flow than previous but all locations; none of which exceed limit threshold with respect to upstream turbidity value. sult of a valve release test that was conducted today from the dam disturbing sediment and been informed of today's turbidity results as well. The (3) samples collected and analyzed will be ental Testing Laboratory for analysis of Total Suspended Solids (TSS).

aseline water quality sampling and monitoring for Upper Ballona Creek Reach 112 South Side. tinela Ave into the levee above the channel. Baseline was done six (6) days prior to start date. inside the channel. Between 0710 to 0741 samples were collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis ur TAT. From a water quality standpoint, project is "good to go" for start on Monday 11/16.

on the jobsite at 0805 and met with Rodney Nungaray from Stormwater Maintenance 83rd Yard Instream points of Upper Ballona Creek Reach Reach 112 South Side. Private contractors were el. One (1) BMP with chains at both sides was placed. Water tide rose at all three (3) sampling nel. Between 0813 and 0833, collected and recorded water quality parameters of temperature, ubmitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids S) on Monday 11/16 on 24-hour TAT.

on the jobsite at 0810 and met with Rodney Nungaray from Stormwater Maintenance 83rd Yard vnstream points of Upper Ballona Creek Reach Reach 112 South Side. The BMP was moved to uth slope side of the channel. No changes in the water level inside the channel. There were more and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and ican Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/17 on 24-hour TAT.

		LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
TH)		LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
ΞĒ		ELEVATION (approx.)	5	5	5	For Wednesday, 11/18 – Last day of field work, Garo Avoy downstream points of Upper Ballona Creek Reach Reach 112
BALLONA CRE (REACH 112-SOL	0	TIME	8:50	8:39	8:19	
S-S	202	SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
	8/2	TEMPERATURE (°C)	15.3	15	15	remove vegetation on the south slope side of the channel. No
δŢ	1/1	рН	8.85	8.58	8.23	as indicated yesterday. Between 0819 and 0850, collected
A L	÷	TURBIDITY (NTUs)	5.55	1.61	1.03	Samples collected and submitted to American Environmental
BA KE/		DISSOLVED O ₂ (mg/L)	9.56	9.34	9.64	7
Н) Н		TOTAL SUSPENDED SOLIDS (mg/L)	16	ND	55	
		LATITUDE (approx.)	33.986641	33.984285	33.980196	Post-Work WQ Monitoring & Sampling Results
$\widehat{}$		LONGITUDE (approx.)	-118.415761	-118.418752	-118.424032	
XI H H		ELEVATION (approx.)	5	5	5	
ШŅ	0	TIME	11:45	11:39	11:11	
BALLONA CRE (REACH 112-SO	02(SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	For Monday, 11/23 – Garo Avoyan arrived on the jobsite at 1
	3/2(TEMPERATURE (°C)	16.4	15.6	15.9	Ballona Creek Reach Reach 112 South Side. The BMP was rem
	/23	рН	9	9.2	8.62	channel. Water level was very low and debris and small vegeta
	11,	TURBIDITY (NTUs)	11.97	5.23	8	of temperature, pH, turbidity, and dissolved oxygen. Sample
BAL		DISSOLVED O ₂ (mg/L)	10	9.92	9.28	suspended s
R B		TOTAL SUSPENDED SOLIDS (mg/L)	80	27	36	
		LATITUDE (approx.)	33.986765	33.984031	33.98031	Pre-Clearing/Baseline
Ŧ	11/18/2020	LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ONA CREEK H 112-NORTH		ELEVATION (approx.)	6	6	6	
		TIME	6:50	7:10	7:25	
		SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	Garo Avoyan arrived on-site at 0645 to perform baseline wa
		TEMPERATURE (°C)	14.1	14.2	14.3	Off the 0725 complex were collected and recorded water of
		pH	8.75	8.64	8.35	- 0050 to 0725 samples were collected and recorded water qu
<u>S</u> F		TURBIDITY (NTUs)	4.78	2.66	1.86	Submitted to American Environmental Testing Labs (AETL)
BA E∕B		DISSOLVED O ₂ (mg/L)	10.02	9.92	9.82	- quality stanupoin
– R)		TOTAL SUSPENDED SOLIDS (mg/L)	14	7	41	
		LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results
Ŧ		LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
出亡		ELEVATION (approx.)	6	6	6	
ШÜ	0	TIME	9:58	10:18	10:33	
Ballona CREEK (ma)DalityMallona CREEK (ma)Mallona CREEK (ma)Introductor 	SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	For Thursday, 11/19 – 1st day of field work, Garo Avoyan arrive	
	9/2	TEMPERATURE (°C)	18.6	18.1	18.2	points of Upper Ballona Creek Reach Reach 112 North Side. I
	1	рН	9.08	8.68	8.57	slope side of the channel. Between 0958 and 1033, collected
άĽ	-	TURBIDITY (NTUs)	7.17	2	1.21	Samples collected and submitted to American Environmental
BA		DISSOLVED O ₂ (mg/L)	9.99	9.98	9.9	
L (R		TOTAL SUSPENDED SOLIDS (mg/L)	22	10	52	
		LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results
Î		LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ЧЦК		ELEVATION (approx.)	6	6	6	7
ЩЧ	0	TIME	7:40	8:00	8:13	Ear Friday $\frac{11}{20}$ - 2nd day of field work. Garo Avoyan arrived
υŻ	202	SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	noints of Linner Ballona Creek Reach Reach 112 North Side. The
A 112	2/0	TEMPERATURE (°C)	13.6	14.6	15.4	slope side of the channel Water level has gone down from h
ΟT	1/2	pH	8.9	8.7	8.52	collected and recorded water quality parameters of temp
Ś F	, –	TURBIDITY (NTUs)	6.83	4.87	6.03	Environmental Testing Labs (AETL) for
BA १E⊅		DISSOLVED O ₂ (mg/L)	10.02	9.98	9.92	Environmental resting Labs (AETL) for
Ц. К		TOTAL SUSPENDED SOLIDS	30	18	27	
	1	(mg/L)		1	1	

an arrived on the jobsite at 0805 and performed water sampling at upstream, internal, and 2 South Side. The BMP was moved to down from its previous location field crews continued to changes in the water level inside the channel. Same amount of debris at the downstream point and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/18 on 24-hour TAT.

1139 to perform post water sampling at upstream, internal, and downstream points of Upper noved and private contractor's field crew removed all vegetation on the south slope side of the tion was very visible. Between 1111 and 1145, collected and recorded water quality parameters es collected and submitted to American Environmental Testing Labs (AETL) for analysis of total solids (TSS) on Monday 11/23 on 24-hour TAT

ater quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Entered into bike trail above the channel. Baseline was done one (1) days prior to start date. Between uality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and or analysis of total suspended solids (TSS) on Wednesday 11/18 on 24-hour TAT. From a water project is "good to go" for start on Thursday 11/19.

ed on the jobsite at 0949 and performed water sampling at upstream, internal, and downstream The BMP was installed inside the channel. Field crews were removing vegetation on the north and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/19 on 24-hour TAT.

on the jobsite at 0735 and performed water sampling at upstream, internal, and downstream BMP was installed inside the channel. Field crews continue to remove vegetation on the north revious work day. There were lots of ducks and debris in the channel. Between 0740 and 0813, erature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American analysis of total suspended solids (TSS) on Friday 11/20 on 24-hour TAT.

		LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results
чŰ		LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
ALLONA CREEK EACH 112-NORTH	2020	ELEVATION (approx.)	6	6	6	For Monday, 11/23 – final day of field work, Garo Avoyan a
		TIME	10:11	10:28	10:40	
		SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	performed water sampling at upstream, internal, and down
	3/2	TEMPERATURE (°C)	16.6	15.8	15.6	channel. Water level was very low at all three (3) sampling po
	1/2	рН	9.74	8.58	8.59	vegetation. Field crews were removing vegetation on the n
	-	TURBIDITY (NTUs)	9.68	2.3	11.39	parameters of temperature, pH, turbidity, and dissolved oxyge
BA EF		DISSOLVED O ₂ (mg/L)	10.02	9.94	9.2	of total suspend
(R		TOTAL SUSPENDED SOLIDS (mg/L)	65	17	51	
		LATITUDE (approx.)	33.986765	33.984031	33.98031	Post-Work WQ Monitoring & Sampling Results
Ξ		LONGITUDE (approx.)	-118.415909	-118.419688	-118.424731	
Ч EK		ELEVATION (approx.)	6	6	6	
В О	0	TIME	10:08	10:25	10:40	
P-N	02	SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	For Tuesday, 12/1 – Garo Avoyan arrived on the jobsite at 100
4A 112	1/2	TEMPERATURE (°C)	14.1	14.2	15.3	Creek Reach 112 North Side. The BMP was removed and field o
Ο, Η	2/.	рН	8.83	8.58	8.53	(3) sampling points. Between 1008 and 1040, collected and re
ACI	1	TURBIDITY (NTUs)	1.67	1.43	1.3	collected and submitted to American Environmental Testi
BA		DISSOLVED O ₂ (mg/L)	10.03	9.41	9.67	
L R)		TOTAL SUSPENDED SOLIDS (ma/L)	11	14	27	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	Pre-Clearing/Baseline
ĸ	10/26/2020	LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
RIVE 4)		ELEVATION (approx.)	17.7	16.4	6.6	
		TIME	9:05	8:40	8:10	Jean Carlo Palacios arrived onsite for water sampling today a
S∷ ∕−		SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	perform baseline monitoring and sampling. Today's result
ЦН		TEMPERATURE (°C)	14.79	14	13.68	downstream location first. Access further into the sample loc
IGE A(Hq	8.33	8.59	8.25	inside a small pond next to the immediate river. Access to the
AN		TURBIDITY (NTUs)	2.84	4	3.04	location under the PCH bridge was collected south bridge
S,		DISSOLVED O ₂ (mg/L)	9.53	9.25	10.55	Laboratory for analysis of Total Suspended Solids (TSS). We wil
ΓO		TOTAL SUSPENDED SOLIDS	22	22	28	
		LATITUDE (approx.)	33,790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	For November 04, 2020, 3rd day of field work, due to Gene
ΛE		ELEVATION (approx.)	17.7	16.4	6.6	
RI 4)	•	TIME	8:52	8:25	8:10	
11 1)2(SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	done for the first two days. Garo Avoyan arrived on the job si
U H	t/2(TEMPERATURE (°C)	18.4	18.2	17.6	114. Field crews were continuing working inside the channel
IGE A(1/4	PH	8.61	8.89	8.96	internal and downstream. The upstream still has lots of du
AN	1	TURBIDITY (NTUs)	2.53	2.14	2.35	parameters of temperature, pH, turbidity, and dissolved oxyge
S		DISSOLVED O ₂ (mg/L)	10.02	9.93	10.01	of total suspended solids (TSS) on Wednesday 11/04 on 24
ΓC		TOTAL SUSPENDED SOLIDS (mg/L)	11	12	18	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
К К		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
VE		ELEVATION (approx.)	17.7	16.4	6.6	
RI 14)	C	TIME	10:15	9:40	9:35	For November 05, 2020, 4th day of field work. Jean Carlo Pa
ES 11,	02(SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Angeles River West - Reach 114. Field crews were continuing
CH	5/2	TEMPERATURE (°C)	19.71	18.9	17.61	the PCH bridge. Internal sample was collected over the ledge
IGI A(1/5	pH	8.43	8.6	8.43	was collected under the Anaheim St. bridge north of the b
AN	-	TURBIDITY (NTUs)	2.64	2.79	1.84	American Environmental Testing Labs (AETL) for analysis of t
SC.		DISSOLVED O ₂ (ma/L)	10.88	10.24	10.64	Jeremy Win
LC		TOTAL SUSPENDED SOLIDS	40		40	1
		(mg/L)	13	20	12	

rived on the jobsite at 1000 and met with Stormwater Maintenance 83rd Street Yard crew to stream points of Upper Ballona Creek Reach 112 North Side. The BMP was installed inside the ints. Due to low level of the water tide, the debris were very visible as well as small amounts of orth slope side of the channel. Between 1011 and 1044, collected and recorded water quality en. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis led solids (TSS) on Monday 11/23 on 24-hour TAT.

00 perform post water sampling at upstream, internal, and downstream points of Upper Ballona rews removed all vegetation from the slope of the channel. Water level was very low at all three ecorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples ng Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 12/01 on 24-hour TAT.

approximately 0800 prior to field crew operations scheduled to begin November 2nd, 2020 to are shown below. At approximately 0810 he arrived onsite and collected samples from the cation was obstructed by a tree stump. This may affect turbidity results as water was collected ne internal sample location was slightly obstructed by vegetation along a ledge. The upstream er. All (3) samples collected and analyzed will be submitted to American Environmental Testing l continue our sampling/monitoring on November 2, 2020 when field crew operations will begin.

Election we were serving as poll workers per Disaster Service Worker, no water sampling was te at 0800 to perform water quality sampling and monitoring at Los Angeles River West - Reach cutting vegetation. There were lots of vegetation flowing on the surface of the water between cks, fishes, and debris as well. Between 0810 and 0852, collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis I-hour TAT. Garo Avoyan informed Jeremy Winston via text message of the turbidity results.

lacios arrived on the job site at 0920 to perform water quality sampling and monitoring at Los working inside the channel cutting vegetation. Upstream sample was collected directly south of of the river bank. There was sufficient vegetation near the collection site. Downstream location ridge pier. Jeremy Winston was informed via voicemail. Samples collected and submitted to otal suspended solids (TSS) on Wednesday 11/04 on 24-hour TAT. Jean Carlo Palacios informed ston via text message of the turbidity results.

		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
ANGELES RIVER (REACH 114)	020	LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
		ELEVATION (approx.)	17.7	16.4	6.6	For November 06, 2020, 5th day of field work. Garo Avoyan a River West - Reach 114, Field crews were continuing working in
		TIME	8:45	8:22	8:07	
		SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
	3/2(TEMPERATURE (°C)	19.4	19.4	20.1	- River west - Reach 114. Field crews were continuing working in
	1/6	Hq	8.73	8.82	8.84	Lots of vegetation and ducks were present in the channel
AN	-	TURBIDITY (NTUs)	2.04	1.96	2.3	- parameters of temperature, pH, turbidity, and dissolved oxyger
S S		DISSOLVED O ₂ (mg/L)	9.43	9.94	10.01	– of total suspended solids (155) on Friday 11/06 on 24-nd
2		TOTAL SUSPENDED SOLIDS				-
		(mg/L)	12	22	29	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
~		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
/ER		ELEVATION (approx.)	17.7	16.4	6.6	
₹ S		TIME	10:15	9:40	9:25	- Fan Navandran 00, 2020, 6th day of field words Jacob Carls Da
LES F H 114	2020	SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Angeles River West - Reach 114. The downstream location had
ЧО С	/6/	TEMPERATURE (°C)	12.44	11.92	10.91	recorded water quality parameters of temperature pH turbi
ХЧ	11	рН	8.38	8.31	8.41	Samples collected and submitted to American Environmental T
A S F		TURBIDITY (NTUs)	3.18	4.24	4.23	a samples collected and submitted to American Environmental r
Ő		DISSOLVED O ₂ (mg/L)	10.43	10.23	10.29	
		TOTAL SUSPENDED SOLIDS	10	40	47	1
		(mg/L)	10	16	17	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
'ER		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
	11/10/2020	ELEVATION (approx.)	17.7	16.4	6.6	7
₹ €		TIME	10:10	9:45	9:30	Ter November 10, 2020, 7th day of field work, Joan Carlo Balaci
-ES F Н 114		SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	West - Reach 114. The downstream location did not have the fi
U U U U U		TEMPERATURE (°C)	12.91	13.13	12.41	- lower turbidity value as well. The upstream sample was collected
NG KEA		Hq	8.49	8.61	8.63	- pipeline support structure. We will continue monitoring/sampl
А Ц		TURBIDITY (NTUs)	1.91	2.12	1.85	- temperature, pH, turbidity, and dissolved oxygen are snown
Ő		DISSOLVED O ₂ (mg/L)	10.31	10.63	10.52	American Environmental Testing Labs (AETL) for a
		TOTAL SUSPENDED SOLIDS		10		
		(mg/L)	8	12	9	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
N N		ELEVATION (approx.)	17.7	16.4	6.6	For November 17, 2020, 1st week of weekly water sampling a
R 4	0	TIME	10:15	9:50	9:30	monitoring at Los Angeles River West - Reach 114 Water level
ы С Ц	202	SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	the river through the week. The downstream sample was loss
김 오	7/2	TEMPERATURE (°C)	17.08	16.06	14.71	collected at the south edge under of the DCH bridge. The inter
Ū Ā	1/1	рН	8.41	8.67	8.27	continue monitoring (sampling this site on a weakly basis. Colla
AN (RI	÷	TURBIDITY (NTUs)	2.06	1.87	1.54	are shown below. Jeromy Winston was informed of today's
ິ		DISSOLVED O ₂ (mg/L)	9.57	10.77	10.45	are shown below. Jerenny winston was informed of today s
Ľ		TOTAL SUSPENDED SOLIDS	44	40	07	
		(mg/L)	11	16	27	
		LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.206238	-118.206238	-118.206115	
<pre>></pre>		ELEVATION (approx.)	17.7	16.4	6.6	- For November 24, 2020, 2nd week of weekly water compliance
R (†	0	TIME	10:45	10:30	10:10	FOR NOVERTIDER 24, 2020, 2nd week of weekly water sampling a
Si É	02	SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Inonitoring at Los Angeles River West - Reach 114. Water leve
L	4/2	TEMPERATURE (°C)	15.69	16.21	16.03	iocated slightly west of the Ananeim St. bridge pier closest to
E GE	/2	pH	8.4	8.46	8.49	Internal water sample site was collected over the ledge near i
A A R E	1	TURBIDITY (NTUs)	1.34	1.35	1.09	T making the river more accessible. We will continue monitor
s,		DISSOLVED O ₂ (mg/L)	10.92	10.31	10.77	temperature, pH, turbidity, and dissolved oxygen are shown
ГО		TOTAL SUSPENDED SOLIDS (mg/L)	15	29	20	American Environmental Testing Labs (AETL) for an

rrived on the job site at 0755 to perform water quality sampling and monitoring at Los Angeles nside the channel cutting vegetation. Field crews were removing vegetation on the rip-rap slope. at all three sampling points. Between 0807 and 0845, collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis our TAT. Garo Avoyan informed Jeremy Winston via text message of the turbidity results.

lacios arrived on the job site at 0910 to perform water quality sampling and monitoring at Los a thin film of vegetation and debris at the surface of the water. This may be a resulting factor in am water samples. The upstream sample was collected south of the PCH bridge. Collected and idity, and dissolved oxygen are shown below. Jeremy Winston was informed of today's results. esting Labs (AETL) for analysis of total suspended solids (TSS) on Monday, November 9, 2020 on 24-hour TAT.

ios arrived onsite at 0925 to perform water quality sampling and monitoring at Los Angeles River Ilm of vegetation at the surface of the water as it did the day before. This may give reason to the ed south of the PCH bridge. The internal water sample site was collected over the ledge east of a ling this site on a weekly basis from now on. Collected and recorded water quality parameters of below. Jeremy Winston was informed of today's results. Samples collected and submitted to alysis of total suspended solids (TSS) on Tuesday, November 10, 2020 on 24-hour TAT.

nd monitoring. Jean Carlo Palacios arrived onsite at 0920 to perform water quality sampling and Is have risen at all (3) sampling locations over 1 ft. in depth. We are anticipating high tides along ated slightly west of the Anaheim St. bridge pier closest to the river. The upstream sample was rnal water sample site was collected over the ledge east of a pipeline support structure. We will cted and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen results. Samples collected and submitted to American Environmental Testing Labs (AETL) for solids (TSS) on Tuesday, November 17, 2020 on 24-hour TAT.

and monitoring. Jean Carlo Palacios arrived onsite at 1000 to perform water quality sampling and els have lowered significantly in comparison to last week's levels. The downstream sample was the river. The upstream sample was collected at the south edge, under of the PCH bridge. The the bank slope covered in concrete. Most all of the vegetation and debris has been cleared out ing/sampling this site on a weekly basis. Collected and recorded water quality parameters of below. Jeremy Winston was informed of today's results. Samples collected and submitted to alysis of total suspended solids (TSS) on Tuesday, November 24, 2020 on 24-hour TAT.

LATITUDE (approx.) 33.790323 33.787342 33.782763 During Maintenance WQ Monitoring & Sar LONGITUDE (approx.) -118.206238 -118.206238 -118.206115 ELEVATION (approx.) 17.7 16.4 6.6 TIME 10:10 0:25 0:15	mpling Results kly water sampling an
LONGITUDE (approx.) -118.206238 -118.206238 -118.206115 ELEVATION (approx.) 17.7 16.4 6.6 For December 1, 2020, 3rd week of week TIME 10:10 0:25 0:15 monitoring at Los Angeles Pivor West - P	kly water sampling an
ELEVATION (approx.) 17.7 16.4 6.6 For December 1, 2020, 3rd week of week	kly water sampling an
\mathcal{L} \mathcal{T} TIME 10.10 0.25 0.15 monitoring at Los Angeles Piver West - P	and 111 Material and
	each 114. Water leve
M = 8 SAMPLE NO. LARWR114-1 LARWR114-2 LARWR114-3 slightly west of the Anaheim St. bridge pi	ier closest to the river
· 금 상 옷 TEMPERATURE (°C) 13.8 13.16 13.09 water sample site was collected over the le	edge near the bank sl
D A pH 8.48 8.29 7.96 river more accessible. All (3) water	er samples yielded re
TURBIDITY (NTUs) 1.8 1.41 1.81 monitoring/sampling this site on a week	kly basis. Collected an
DISSOLVED O ₂ (mg/L) 10.5 10.19 10.57 shown below. Jeremy Winston was inform	ned of today's results
TOTAL SUSPENDED SOLIDS 23 34 23 of (mg/L)	total suspended solid
LATITUDE (approx.) 33.790323 33.787342 33.782763 During Maintenance WQ Monitoring & Sar	mpling Results
<u>∠</u> LONGITUDE (approx.) -118.206238 -118.206238 -118.206115	
ELEVATION (approx.) 17.7 16.4 6.6 For December 8, 2020, 4th week of week	kly water sampling an
TIME 10:15 10:00 9:40 monitoring at Los Angeles River West - Rea	ach 114. Water levels
SAMPLE NO. LARWR114-1 LARWR114-2 LARWR114-3 west of the Anaheim St. bridge pier close	est to the river. The u
☐ ☐ ☐ S TEMPERATURE (°C) 13.72 14.2 13.68 sample site was collected over the ledge r	near the bank slope co
D X pH 8.53 8.54 8.45 more accessible. All (3) water samples yie	elded relatively low tu
TURBIDITY (NTUs) 2.73 2.45 1.92 this site on a weekly basis. Collected and	d recorded water qua
DISSOLVED O ₂ (mg/L) 9.71 9.97 10.43 Winston was informed of today's results	s. Samples collected a
TOTAL SUSPENDED SOLIDS 5 21 22	solids (TSS) or
(TTIG/L)	sults
\simeq LONGITUDE (approx.) -118 206238 -118 206238 -118 206115	
= 110.200230 = 110.200230 = 110.200113	
$\overrightarrow{\alpha}$ $\overrightarrow{4}$ $\overrightarrow{0}$ TIME $\overrightarrow{0.30}$ $\overrightarrow{0.45}$ $\overrightarrow{0.55}$ For December 15, 2020, Post field work	water sampling and
SAMPLE NO LAPW/P114.1 LAPW/P114.2 LAPW/P114.2 Monitoring at Los Angeles River West - R	each 114. Water leve
U I I I I I I I I I I I I I I I I I I I	est to the river. The u
U Q C TEMPERATORE (C) 13.49 13.23 13.25 sample site was collected over the ledge	e near the bank slope
$\vec{\nabla}$ $\vec{\nabla}$ $\vec{\nabla}$ $\vec{\nabla}$ water sample site. All (3) water samples y	ielded relatively low
Q E TORBIDITY (NTOS) 3.22 2.5 1.9 (0 DISSOL VED Q (mg/l) 40.24 40.52 40.40	ty, and dissolved oxyg
O DISSOLVED 0 ₂ (IIII/L) 10.24 10.53 10.46 submitted to American Environmental	l Testing Labs (AETL)
Image: Instant subset with the second sec	
LATITUDE (approx.) 33.7910592 33.7888247 33.7872417 Pre-Clearing/Baseline	
<u>∠</u> LONGITUDE (approx.) -118.0920834 -118.0930114 -118.0938334	
ELEVATION (approx.) 14 16 19 For Monday 09/28, Garo Avoyan arrive	ed 0800 and met with
ΦΩTIME8:459:009:20perform baseline water quality monitori	ng and sampling at th
니 두 징 SAMPLE NO. SGRR115W-1 SGRR115W-2 SGRR115W-3 Garo established the three (3) sampling	points: Upstream, Int
TEMPERATURE (°C) 22.3 22.8 22.7 work limits are 4,760 feet south of Willow	w Street (transition of
$H = \frac{1}{2}$ pH 8.12 7.73 7.97 Then for each sampling point we walked θ	down the rip-rap slop
① ヹ び TURBIDITY (NTUs) 2.12 2.99 2.64 Between 0845 and 0920, collected and	d recorded water qua
DISSOLVED O_2 (mg/L) 9.88 9.75 9.76 submitted to American Environmental Test	sting Labs (AETL) for a
が TOTAL SUSPENDED SOLIDS (mg/L) 8 28 19	standpoint, pro
LATITUDE (approx.) 33.7910592 33.7888247 33.7872417 During Maintenance WQ Monitoring & Sar	npling Results
∠ ∠ ∠ CNGITUDE (approx.) −118.0920834 −118.0930114 −118.0938334 ∠	
ELEVATION (approx.) 14 16 19 For Thursday 10/01, 1st day of field work	k, Garo Avoyan arrive
TIME 8:46 9:25 9:45 baseline water quality monitoring and sa	mpling at the San Gal
니 수 👸 SAMPLE NO. SGRR115W-1 SGRR115W-2 SGRR115W-3 tide was rising in the channel. BMP w	vas placed along the a
TEMPERATURE (°C) 23.6 24.7 25.2 downstream sampling point from his pre-	vious email. The new
pH 8.19 7.31 7.81 noticed lots of fishes and larva. Also veget	ation floating on the
OZ TURBIDITY (NTUS) 1.47 3.2 2.99 rising inside the channel as well as wate	r flow going in the rev
DISSOLVED O ₂ (mg/L) 9.44 9.23 9.91 temperature, pH, turbidity, and dissolv	ved oxygen. Samples
る TOTAL SUSPENDED SOLIDS	suspended so
6 12 12	

nd monitoring. Jean Carlo Palacios arrived onsite at 0900 to perform water quality sampling and Is have risen slightly in comparison to last week's levels. The downstream sample was located . The upstream sample was collected at the south edge, under of the PCH bridge. The internal ope covered in concrete. Most all of the vegetation and debris has been cleared out making the latively low turbidity results with none exceeding the limit threshold. We will continue d recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen are . Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis ds (TSS) on Tuesday, December 1, 2020 on 24-hour TAT.

nd monitoring. Jean Carlo Palacios arrived onsite at 0930 to perform water quality sampling and have dropped in comparison to last week's levels. The downstream sample was located slightly pstream sample was collected at the south edge, under of the PCH bridge. The internal water overed in concrete. Most all of the vegetation and debris has been cleared out making the river irbidity results with none exceeding the limit threshold. We will continue monitoring/sampling lity parameters of temperature, pH, turbidity, and dissolved oxygen are shown below. Jeremy nd submitted to American Environmental Testing Labs (AETL) for analysis of total suspended n Tuesday, December 8, 2020 on 24-hour TAT.

monitoring. Jean Carlo Palacios arrived onsite at 0920 to perform water quality sampling and Is have risen in comparison to last week's levels. The downstream sample was located slightly pstream sample was collected at the south edge, under of the PCH bridge. The internal water covered in concrete. Water levels made access to the river edge less accessible at the internal turbidity results with none exceeding the limit threshold. Collected and recorded water quality en are shown below. Jeremy Winston was informed of today's results. Samples collected and for analysis of total suspended solids (TSS) on Tuesday, December 15, 2020 on 24-hour TAT.

both Miguel Mendoza and Steve Garcia from Stormwater Maintenance Rio Hondo Yard, to e San Gabriel River - Reach 115 (West North of College Parkway). Since this was the first time ernal, and Downstream points and measure each locations for distance approximations. The the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. be. Baseline water quality monitoring and sampling was done three (3) days prior to start date. lity parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and inalysis of total suspended solids (TSS) on Monday 09/28 on 24-hour TAT. From a water quality ject is "good to go" for start on Thursday 10/01.

d 0800 and met with Elias Herrera from Stormwater Maintenance Rio Hondo Yard, to perform briel River - Reach 115 (West North of College Parkway). Upon his arrival, he noticed the water rea of vegetation removal. Based on new observation and information, Garo changed the location is underneath the 405 freeway. During sampling at both internal and downstream, he water surface. Turbidity readings were slightly high due to my observation as well as water tide verse direction. Between 0846 and 0945, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total blids (TSS) on Thursday 10/01 on 24-hour TAT.

		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
IVER (LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	For Friday 10/02, 2nd day of field work, Garo Avoyan arrive baseline water quality monitoring and sampling at the San Gal
		ELEVATION (approx.)	14	16	19	
L2	0	TIME	8:05	8:20	8:35	
RIEL CH 1	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	
	2/2	TEMPERATURE (°C)	22	22.2	22.3	vegetation floating on the water surface. Turbidity reading
A B A B	0	рН	8.35	7.98	8.02	monitoring those processon a daily basis. Potween 0005 and 000
SAN GA (RE	-	TURBIDITY (NTUs)	1.39	3.23	3.46	awy gon. Samples collected and submitted to American Enviro
		DISSOLVED O ₂ (mg/L)	10.05	10.05	10.01	oxygen. Samples collected and submitted to American enviro
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	ND	12	14	
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
24		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
Ц Х		ELEVATION (approx.)	14	16	19	
RI 5)		TIME	8:50	9:03	9:28	- For Saturday 10/03, 3rd day of field work, Garo Avoyan arriv
<i>←</i>)2(SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	- quality monitoring and sampling at the San Gabriel River - Read
2 2	/2(TEMPERATURE (°C)	22	22.7	23.2	of vegetation removal. Field crews were cutting a removing tr
ABI	0/3	Ηα	8.2	7.41	7.85	- lots of fishes, ducks and larva. Also vegetation floating on the
G∕ RE	-		1 42	3 12	2 81	vegetation, fishes, and ducks. We will be closely monitoring
zŬ			9.49	8 35	8.91	parameters of temperature, pH, turbidity, and dissolved ox
S⊳			5.45	0.00	0.01	analysis of total sus
		(mg/L)	18	18	10	
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	For Monday 10/05, 5th day of field work, Garo Avoyan arr
Щ — С		ELEVATION (approx.)	14	16	19	
15) 15)	0	TIME	8:10	8:36	9:06	
Ц Т Т	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	of vegetation removal. Field crows are continuing removal
친다	5/2	TEMPERATURE (°C)	23.3	23.8	23.7	noticed lots of fishes, ducks and larva. Also vegetation float
A M	i/0	рН	8.6	7.86	8.11	variables of vegetation fishes, and ducks. We will be closely u
<u>ର</u> ନ୍ର	-	TURBIDITY (NTUs)	1.43	3.12	2.98	quality parameters of temperature, pH turbidity, and dissolve
AN		DISSOLVED O ₂ (mg/L)	10	8.37	9.73	analysis of total sus
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	ND	14	42	
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	For Tuesday, 10/06, 6th day of field work, Garo Aveyan arriv
× −		ELEVATION (approx.)	14	16	19	
15 15	0	TIME	8:06	8:25	8:48	quality monitoring and campling at the San Cabriel Pivor. Boar
	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	of vegetation removal. Field crews are continuing removal of
찍다	5/2	TEMPERATURE (°C)	21.7	21.7	22.2	
A A B	<i>i</i> /0	рН	8.39	7.82	8.09	be around the range from previous days. We are closely m
ର <mark>ନ</mark>	-	TURBIDITY (NTUs)	1.57	3.84	2.91	narameters of temperature nH turbidity and dissolved ovug
Z		DISSOLVED O ₂ (mg/L)	10.1	8.65	9.09	of total suspend
Ś		TOTAL SUSPENDED SOLIDS	8	48	41	
		(mg/L) LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
2		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
Ц Х		ELEVATION (approx.)	14	16	19	For Wednesday 10/07, 7th day of field work, Garo Avoyan arr
RI 5)		TIME	8:06	8:20	8:40	quality monitoring and sampling at the San Gabriel River - Read
<i>←</i>)2(SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	of vegetation removal. Field crews are continuing removal of
E H	/2(TEMPERATURE (°C)	22.1	22.3	22.1	channel and lots of fishes ducks and turtles were present A
ABI AC	2/0	Ηα	8.31	7.78	8.16	water inside the channel. Turbidity readings for each sampling
G/ RE	7		1.6	5.27	3.48	daily. Between 0806 and 0840, collected and recorded water
zŬ		DISSOLVED O ₂ (ma/L)	9.86	8.6	9.8	submitted to American Environmental Testing Labs (AETL) for
S/		TOTAL SUSPENDED SOLIDS	ND	21	6	notified
		(mg/L)		-	I V	

d 0745 and met with Elias Herrera from Stormwater Maintenance Rio Hondo Yard, to perform priel River - Reach 115 (West North of College Parkway). Water level was normal from yesterday. ing sampling at both internal and downstream, he noticed lots of fishes, ducks and larva. Also gs were slightly high due all the variables of vegetation, fishes, and ducks. We will be closely 35, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved onmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/02 on 24hour TAT.

ved 0845 and met with Elias Herrera from Stormwater Maintenance Rio Hondo Yard, to water ch 115 (West North of College Parkway). Water level was normal. BMP was placed along the area ees even on the lower slope area. During sampling at both internal and downstream, he noticed water surface. Turbidity readings seems to be consistently slightly high due all the variables of g these areas on a daily basis. Between 0850 and 0928, collected and recorded water quality ygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for pended solids (TSS) on Monday 10/05 on 24-hour TAT.

ved 0800 and met with Elias Herrera from Stormwater Maintenance Rio Hondo Yard, to water ch 115 (West North of College Parkway). Water level was normal. BMP was placed along the area of trees even on the lower slope area. During sampling at both internal and downstream, he ing on the water surface. Turbidity readings seems to be consistently slightly high due all the nonitoring these areas on a daily basis. Between 0810 and 0906, collected and recorded water ed oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for pended solids (TSS) on Monday 10/05 on 24-hour TAT.

ed 0750 and met with Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water ch 115 (West North of College Parkway). Water level was normal. BMP was placed along the area trees even on the lower slope area. Water level seemed low at the beginning of the soft bottom so vegetation floating on the water surface. Turbidity readings for each sampling point seem to onitoring the readings daily. Between 0806 and 0848, collected and recorded water quality en. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis led solids (TSS) on Tuesday 10/06 on 24-hour TAT.

ived 0803 and met with Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water ch 115 (West North of College Parkway). Water level was normal. BMP was placed along the area trees even on the lower slope area. Water level seemed low at the beginning of the soft bottom lso vegetation floating on the water surface. Also, there was a light green glow underneath the point seem to be around the range from previous days. We are closely monitoring the readings quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and or analysis of total suspended solids (TSS) on Wednesday 10/07 on 24-hour TAT. Garo Avoyan Elias Herrera about the turbidity readings.

		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
IVER ()	0	LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	For Thursday 10/08 Garo Avoyan arrived 0030 and met with
		ELEVATION (approx.)	14	16	19	sampling at the San Gabriel River - Reach 115 (West North of C
15) 15)		TIME	9:40	9:55	10:14	
RIEL CH 1'	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Water level seemed more lower than vesterday from the b
	3/2	TEMPERATURE (°C)	22.6	22.2	21.9	vagetation floating on the water surface. Also, there was a li
A A H	8/0	рН	8.67	8.14	8.2	noint seem to be around the range from provious days. We are
SAN GA (RE	-	TURBIDITY (NTUs)	1.74	3.7	5.02	quality parameters of temperature, pH, turbidity, and discolve
		DISSOLVED O ₂ (mg/L)	10.04	9.98	10.01	analysis of total suspended solids (TSS) on Thursday 10/08 on
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	28	
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
H ا		ELEVATION (approx.)	14	16	19	For Thursday 10/15, 11th day of field work, Garo Avoyan arriv
15 15	0	TIME	8:50	9:08	9:25	quality monitoring and sampling at the San Gabriel Piver - Pea
	502	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	concrete and soft bettom channel limits. PMD was placed along
돌고	5/2	TEMPERATURE (°C)	24	23.1	22.8	slope area. Lots of birds, fiches, turtles and ducks were present
ΑB	1/C	рН	7.93	8.11	8.34	water surface. Turbidity readings improved from provings read
S R	1(TURBIDITY (NTUs)	2.91	2.3	1.93	water surface. Turbidity readings improved from previous read
Z, ⊂		DISSOLVED O ₂ (mg/L)	9.72	9.7	9.5	– pH, turbidity, and dissolved oxygen. Samples collected and st
S/		TOTAL SUSPENDED SOLIDS	10	17	36	(155
		LATITUDE (approx.)	33,7910592	33,7888247	33,7872417	During Maintenance WO Monitoring & Sampling Results
- 1			-118 0920834	-118 0930114	-118 0938334	
ШК		FLEVATION (approx.)	14	16	19	For Thursday 10/29, there was no waters sampling due to me arrived 0830 and met with Stormwater Maintenance Rio Hor
≥ 10			8:15	8:25	8:50	
R 6	20	SAMPLE NO	SGRR115W-1	SGRR115W-2	SGRR115W-3	
	29/20:		18.3	17.6	17.3	Reach 115 (West North of College Parkway). BMP was moved t
R C∣			8 17	7.87	8 26	beyond internal point. Water levels rose at the upstream. T
SAE E/	0	TURBIDITY (NTUs)	1.67	3.97	2.28	Turbidity readings were slightly high. Between 0815 and 0850
U R	~		10.02	9.57	0.00	oxygen. Samples collected and submitted to American Environ
SAI		TOTAL SUSPENDED SOLIDS (mg/L)	10	53	29	hour TAT. Garo Avoyan i
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
Ľ		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
Ш >		ELEVATION (approx.)	14	16	19	
RI 15)	0	TIME	8:30	8:17	8:45	For Thursday 11/05, 28th day of field work, Garo Avoyan arriv
	02(SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	quality monitoring and sampling at the San Gabriel River - Rea
E H	5/2	TEMPERATURE (°C)	19.7	19.5	20	tree removal on the rip-rap slope. Water levels is normal at th
ΑŬ	1/5	pH	4.7	4.67	4.79	the channel. Between 0817 and 0845, collected and recorded v
ର ଅ	-	TURBIDITY (NTUs)	1.84	1.73	1.96	and submitted to American Environmental Testing Labs (AETI
Z		DISSOLVED O ₂ (mg/L)	9.72	10.07	9.58	informed Elias I
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	18	30	40	
		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
ΛE		ELEVATION (approx.)	14	16	19	
RI 15)	0	TIME	8:12	8:25	8:44	-
→	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	- For Thursday 11/19, 35th day of field work, Garo Avoyan arriv
E E	9/2	TEMPERATURE (°C)	20.5	19.8	20	- quality monitoring and sampling at the San Gabriel River - Ri
AB ∺A(1/1	Ηα	8.64	8.22	8.21	- vvater level was normal at all three (3) sampling points. Turbidi
G R G	1	TURBIDITY (NTUs)	2.03	2.64	1.82	- water quality parameters of temperature, pH, turbidity, and
Z, ⊂		DISSOLVED O ₂ (ma/L)	9.7	9.9	9.75	- (AETL) for analysis of total suspended solids (155) on Thurs
S/		TOTAL SUSPENDED SOLIDS				1
		(mg/L)	ND	32	50	

Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water quality monitoring and llege Parkway). Water level was normal. BMP was placed along the area of vegetation removal. slope area. Private contractors were present cutting the large trees on the rip-rap rocky slope. eginning of the soft bottom channel and lots of fishes ducks and turtles were present.. Also ght green glow underneath the water inside the channel. Turbidity readings for each sampling closely monitoring the readings daily. Between 0940 and 1014, collected and recorded water ed oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for 24-hour TAT. As of today GMED will shifting water quality sampling and monitoring to weekly now.

red 0830 and met with Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water ach 115 (West North of College Parkway). Water level rose in the channel including areas of the the area of vegetation removal. Field crews are continuing removal of trees even on the lower inside the channel including both upstream and internal points. Also vegetation floating on the ngs. Between 0850 and 0925, collected and recorded water quality parameters of temperature, ubmitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids S) on Thursday 10/15 on 24-hour TAT.

chanical / personnel matters for October 22, 2020. For the 22nd day of field work, Garo Avoyan do Yard Field Crew, to perform water quality monitoring and sampling at the San Gabriel River from its original location as field crews continue are moving south in the channel and have gone here is still good amounts of vegetation as well as ducks fishes and turtles inside the channel. collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/29 on 24ormed Elias Herrera via text message of the turbidity results.

ved 0810 and met with Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water ch 115 (West North of College Parkway). BMP is still in place and the field crew have completed ne upstream. There is still good amounts of vegetation as well as ducks fishes and turtles inside water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected L) for analysis of total suspended solids (TSS) on Thursday 11/04 on 24-hour TAT. Garo Avoyan Herrera via text message of the turbidity results.

red 0800 and met with Stormwater Maintenance Rio Hondo Yard Field Crew, to perform water each 115 (West North of College Parkway). BMP was moved down towards the 405 Freeway. ity result was slightly high at the internal point. Between 0812 and 0844, collected and recorded dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs day 11/19 on 24-hour TAT. Garo Avoyan informed Miguel Mendoza of the turbidity results.

		LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	Post-Work WQ Monitoring & Sampling Results
ER		LONGITUDE (approx.)	-118.0920834	-118.0930114	-118.0938334	
× −		ELEVATION (approx.)	14	16	19	
15 15	0	TIME	7:36	7:52	8:10	
Ц Т,	502	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	For Monday 11/30, Garo Avoyan arrived 0730 to perform pos
E L	0/2	TEMPERATURE (°C)	17.3	16.3	14.9	College Parkway). Both BMP and vegetation was removed Wa
SAN GABI (REAC	1/3	pH	8.34	8.19	8.27	water quality parameters of temperature, pH, turbidity, and
	÷	TURBIDITY (NTUs)	2.61	2.44	2.75	(AETL) for analysis of total
		DISSOLVED O ₂ (mg/L)	10.01	9.95	9.97	
l'S		TOTAL SUSPENDED SOLIDS		_	4.0	1
		(mg/L)	34	1	16	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	Pre-Clearing/Baseline
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
×		ELEVATION (approx.)	5	4	4	7
15 15	0	TIME	8:10	8:39	9:15	For Saturday 11/21, Garo Avoyan arrived 0750 on site to perfo
	202	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	North of College Parkway) between San Diego (405) Freeway t
E 구	1/2	TEMPERATURE (°C)	15.9	16.6	17.3	levee all the way to the south side of the San Diego (405) Freev
Α M	1/2	рН	8.17	8.2	8.2	Between 0810 and 0915, collected and recorded water qua
G R	÷	TURBIDITY (NTUs)	16.13	2.72	2.11	submitted to American Environmental Testing Labs (AETL) for a
Z		DISSOLVED O ₂ (mg/L)	9.83	9.6	9.81	standpoint, pro
S/		TOTAL SUSPENDED SOLIDS				1
		(mg/L)	86	41	26	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
×	3/2020	ELEVATION (approx.)	5	4	4	7
15 15		TIME	8:12	8:33	8:56	For Monday, 11/23 – 1st day of field work, Garo Avoyan arrive
Ц Т Т Т		SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	performed water sampling at upstream, internal, and downstr
전권		TEMPERATURE (°C)	17.6	17.3	17.9	the entrance to the levee off of College Park Drive. Field crews
A A B	1/2	рН	8.36	8.32	8.33	ducks and vegetation on the water surface in the channel. Be
G R	- -	TURBIDITY (NTUs)	2.14	1.69	1.85	turbidity, and dissolved oxygen. Samples collected and submitte
Z		DISSOLVED O ₂ (mg/L)	9.9	9.7	9.4	7
Ś		TOTAL SUSPENDED SOLIDS	20	07	7	
		(mg/L)	29	21	/	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
≥ ∽		ELEVATION (approx.)	5	4	4	For Tuesday, 11/24 – 2nd day of field work, Garo Avoyan arriv
L2 15	50	TIME	8:20	8:50	9:20	Hondo Vard crew to performed water sampling at unstream int
	202	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	between San Diego (405) Freeway South to College Park Drive.
R 다	4/	TEMPERATURE (°C)	17.1	18	18	
БAВ	1/2	рН	8.37	8.3	8.33	the internal point. There were lots of ducks and vegetation on t
<u>ମ</u> ମ	-	TURBIDITY (NTUs)	3.91	6.06	3.32	narameters of temperature nH turbidity and dissolved oxyger
AN		DISSOLVED O ₂ (mg/L)	9.37	9.93	9.8	of total suspende
Ś		TOTAL SUSPENDED SOLIDS	26	62	11	
		(mg/L)		05	41	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
N S		ELEVATION (approx.)	5	4	4	For Wednesday, 11/25 – 3rd day of field work. Garo Avovan arr
а С	20	TIME	8:15	8:35	9:13	Hondo Yard crew to performed water sampling at upstream, int
	203	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	between San Diego (405) Freeway South to College Park Drive.
C C	25/.	TEMPERATURE (°C)	16.4	17	16.8	to the levee off of College Park Drive. Field crews continue to r
E A E	1/2	рН	8.39	8.35	8.33	clear. There were some of ducks and vegetation on the wa
D R	-	TURBIDITY (NTUs)	1.88	1.94	1.63	parameters of temperature. pH. turbidity, and dissolved oxyger
AN		DISSOLVED O ₂ (mg/L)	9.61	9.92	9.94	of total suspended
လ		TOTAL SUSPENDED SOLIDS	29	16	16	
I		(mg/L)		'`		

st water quality monitoring and sampling at the San Gabriel River - Reach 115 (West North of ater level rose at all three (3) sampling points. Between 0736 and 0810, collected and recorded dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs suspended solids (TSS) on Monday 11/30 on 24-hour TAT.

orm baseline water quality monitoring and sampling at the San Gabriel River - Reach 115 (West to College Park Drive. Entrance is off of the access gate door from College Park Drive along the way. Baseline water quality monitoring and sampling was done two (2) days prior to start date. lity parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and nalysis of total suspended solids (TSS) on Monday 11/23 on 24-hour TAT. From a water quality pject is "good to go" for start on Monday 11/23.

ed on the jobsite at 0745 and met with the Stormwater Maintenance Rio Hondo Yard crew to eam points. The BMP with chains at each end was installed approximately 1,950 feet north of started to remove vegetation on the west rip-rap slope side of the channel. There were lots of etween 0812 and 0856, collected and recorded water quality parameters of temperature, pH, ed to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/23 on 24-hour TAT.

red on the jobsite at 0745 and met with the Chuck Hidalgo from Stormwater Maintenance Rio ernal, and downstream points at San Gabriel River - Reach 115 (West North of College Parkway) The BMP with chains at each end was installed approximately 1,950 feet north of the entrance remove vegetation on the west rip-rap slope side of the channel. Turbidity readings was high at he water surface in the channel. Between 0820 and 0920, collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis ed solids (TSS) on Tuesday 11/24 on 24-hour TAT.

rived on the jobsite at 0745 and met with the Chuck Hidalgo from Stormwater Maintenance Rio ernal, and downstream points at San Gabriel River - Reach 115 (West North of College Parkway) The BMP with chains at each end was installed approximately 1,950 feet north of the entrance emove vegetation on the west rip-rap slope side of the channel. Water inside the channel was ater surface in the channel. Between 0815 and 0913, collected and recorded water quality n. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis solids (TSS) on Wednesday 11/25 on 24-hour TAT.

		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
ПR	0	LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	For Monday 11/20, 4th day of field work Care Aveyan arriv
×		ELEVATION (approx.)	5	4	4	
EL RI I 115)		TIME	8:20	8:40	9:05	Hondo Vard crow to performed water campling at upstream, int
	202	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	holido faid clew to performed water sampling at upstream, int
E L	2/0	TEMPERATURE (°C)	15.1	15.3	16	to the layer off of College Park Drive.
Α M B B	1/3	рН	8.18	8.23	8.14	clear however water level recent all three (2) campling points
SAN GA (RE	÷	TURBIDITY (NTUs)	1.86	1.87	1.58	and 0005 collected and recorded water quality parameters of t
		DISSOLVED O ₂ (mg/L)	9.5	9.61	9.95	and 0905, collected and recorded water quality parameters of t
Ś		TOTAL SUSPENDED SOLIDS	50	22	20	
		(mg/L)	00	33	30	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
Ľ ≚ ∽		ELEVATION (approx.)	5	4	4	For Tuesday, 12/01 – 5th day of field work, Garo Avoyan arriv
15 15	0	TIME	8:10	8:30	8:58	Hondo Yard crew to performed water sampling at upstream, int
	02	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	between San Diego (405) Freeway South to College Park Drive.
RU	1/2	TEMPERATURE (°C)	15.1	15.3	15.3	to the levee off of College Park Drive. Field crews continue to
A B H	2	рН	8.18	8.17	8.22	previous day throughout the channel. There were some of du
ର ନ୍ୟୁ	-	TURBIDITY (NTUs)	1.8	2.95	20.3	the internal point. Between 0810 and 0858, collected and rec
Z		DISSOLVED O ₂ (mg/L)	9.96	9.2	9.89	collected and submitted to American Environmental Testing La
Ś		TOTAL SUSPENDED SOLIDS	40	00	E 4	Hidalgo was no
		(mg/L)	43	60	54	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	For Wednesday, 12/02 – 6th day of field work, Garo Avoyan a
N N	2/2020	ELEVATION (approx.)	5	4	4	
15 15		TIME	8:15	8:35	9:00	Hondo Yard crew to performed water sampling at upstream, int
		SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	between San Diego (405) Freeway South to College Park Drive.
R 다		TEMPERATURE (°C)	15	15.6	15.8	to the levee off of College Park Drive. Field crews continue to
ΒAΒ	2/	рН	8.19	8.21	8.22	previous day throughout the channel. There were some of du
<u>ମ</u> ମ		TURBIDITY (NTUs)	1.84	1.51	2.07	the internal point. Between 0815 and 0900, collected and rec
AN		DISSOLVED O ₂ (mg/L)	9.82	9.73	9.79	collected and submitted to American Environmental Testing
Ś		TOTAL SUSPENDED SOLIDS	47	/1	30	Miguel Mendoza w
		(mg/L)	47	41	52	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	For Friday, 12/04 – 7th day of field work, due to the field work
Σ		ELEVATION (approx.)	5	4	4	arrived on the jobsite at 0750 and met with the Manuel Ch
<u>к</u> 2	0	TIME	8:05	8:20	8:45	upstream, internal, and downstream points at San Gabriel Ri
	502	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	College Park Drive. The BMP was moved down south being r
C R	4/2	TEMPERATURE (°C)	17.2	16.4	15.5	
E A E	12/	рН	8.56	8.2	8.21	channel. Turbidity readings were slightly high at the internal c
С С	``	TURBIDITY (NTUs)	2.79	4.5	2.51	and 0845, collected and recorded water quality parameters of t
AA		DISSOLVED O ₂ (mg/L)	9.35	9.89	8.77	Environmental Testing Labs (AETL) for analysis of total suspen
လ		TOTAL SUSPENDED SOLIDS	48	37	22	
		(mg/L)				
		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	4
\geq		ELEVATION (approx.)	5	4	4	For Thursday, 12/10 – 12th day of field work, Issac Ochoa and G
R #	20	TIME	8:33	8:55	9:20	Maintenance Rio Hondo Yard crew to perform water sampling
	20	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	College Parkway) between San Diego (405) Freeway South to
SCI 3R	10/	TEMPERATURE (°C)	16.4	16.4	16.1	feet north of the entrance to the levee off of College Park Dr
Ë AE	2/.	рН	8.18	8.25	8.28	Water level was the same as previous day throughout the chan
Ч Ч Ч Ч Ч	-	TURBIDITY (NTUs)	2.06	1.92	1.73	pH, turbidity, and dissolved oxygen. Samples collected and su
AA A		DISSOLVED O ₂ (mg/L)	9.95	9.82	9.23	(TSS) on Thursday 12/10 on 24-hour TA
S		TOTAL SUSPENDED SOLIDS	33	6	17	
		(mg/L)				

ved on the jobsite at 0815 and met with the Chuck Hidalgo from Stormwater Maintenance Rio ternal, and downstream points at San Gabriel River - Reach 115 (West North of College Parkway) The BMP with chains at each end was installed approximately 1,950 feet north of the entrance remove vegetation on the west rip-rap slope side of the channel. Water inside the channel was There were some of ducks and vegetation on the water surface in the channel. Between 0820 temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nalysis of total suspended solids (TSS) on Monday 11/30 on 24-hour TAT.

ved on the jobsite at 0750 and met with the Chuck Hidalgo from Stormwater Maintenance Rio ternal, and downstream points at San Gabriel River - Reach 115 (West North of College Parkway) The BMP with chains at each end was installed approximately 1,950 feet north of the entrance remove vegetation on the west rip-rap slope side of the channel. Water level was the same as icks and vegetation on the water surface in the channel. Turbidity readings were slightly high at corded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples abs (AETL) for analysis of total suspended solids (TSS) on Tuesday 12/01 on 24-hour TAT. Chuck otified via text message of the turbidity results.

rived on the jobsite at 0750 and met with the Chuck Hidalgo from Stormwater Maintenance Rio ternal, and downstream points at San Gabriel River - Reach 115 (West North of College Parkway) The BMP with chains at each end was installed approximately 1,950 feet north of the entrance remove vegetation on the west rip-rap slope side of the channel. Water level was the same as icks and vegetation on the water surface in the channel. Turbidity readings were slightly high at corded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples ; Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 12/02 on 24-hour TAT. vas notified via text message of the turbidity results.

cancellation caused by unhealthy air quality from the Bond Fire in Orange County, Garo Avoyan navez from Stormwater Maintenance Rio Hondo Yard crew to performed water sampling at tiver - Reach 115 (West North of College Parkway) between San Diego (405) Freeway South to now installed approximately 1,1550 feet north of the entrance to the levee off of College Park est rip-rap slope side of the channel. Water level was the same as previous day throughout the point due to lots of debris in the water and vegetation, possibly from the winds . Between 0805 temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Friday 12/04 on 24-hour TAT. Manuel Chavez was notified via phone call of the turbidity results.

Garo Avoyan arrived on the jobsite at 0750 and met with the Miguel Mendoza from Stormwater at upstream, internal, and downstream points at San Gabriel River - Reach 115 (West North of College Park Drive. The BMP was moved down south being now installed approximately 1,155 ive. Field crews continue to remove vegetation on the west rip-rap slope side of the channel. nel. Between 0833 and 0920, collected and recorded water quality parameters of temperature, bmitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids AT. Miguel Mendoza was notified via phone call of the turbidity results.

		LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results
Ř	50	LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	For Thursday, $12/17 - 17$ th day of field work. Garo Avoyan arr
×		ELEVATION (approx.)	5	4	4	
15 15		TIME	8:15	8:40	9:10	Bio Hondo Vard crew to perform water sampling at unstrea
1 1	202	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	Parkway) between San Diego (405) Freeway South to College P
R 다	1/2	TEMPERATURE (°C)	15.8	15.5	14.9	the entrance to the levee off of College Park Drive Field crew
БAВ	2/1	рН	8.08	8.15	8.23	slightly high throughout the channel. Between 0815 and 0910
l Gβ (RE	-	TURBIDITY (NTUs)	1.96	2.34	2.22	oxygen Samples collected and submitted to American Environ
AN		DISSOLVED O ₂ (mg/L)	9.94	9.82	9.93	hour TAT Miguel Men
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	38	39	60	
		LATITUDE (approx.)	33.78608	33.78375	33.78251	Post-Work WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
N N		ELEVATION (approx.)	5	4	4	For Thursday, 01/07 – 28th day of field work, Garo Avoyan arr
LA JO	_	TIME	8:10	8:25	8:45	Bio Hondo Vard crew to perform water sampling at unstrea
)2,	SAMPLE NO.	SGRRW115-1	SGRRW115-2	SGRRW115-3	Parkway) between San Diego (405) Freeway South to College P
R 다	/2(TEMPERATURE (°C)	14.4	14.8	15.6	Private field crews removed all the trees off of the rin-ran slor
А Р П А Р	1/7	рН	8.48	8.41	8.35	remaining vegetation off of the rin-ran slone. Turbidity was
<u>ର</u> ନ୍ର		TURBIDITY (NTUs)	1.9	2.27	3.1	auality parameters of temperature, pH, turbidity, and dissolve
Z		DISSOLVED O ₂ (mg/L)	9.6	9.98	9.78	α quality parameters of temperature, pr, turbulty, and dissolve
Ś		TOTAL SUSPENDED SOLIDS (mg/L)	17	5	20	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	Pre-Clearing/Baseline
2		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	For Fridew 1/9. Core Avenues enrived on site of 0020 to perfe
Ш >		ELEVATION (approx.)	16	21	10	
RI' 15)		TIME	9:40	0:00	10:50	
	21	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	For Friday 1/8, Garo Avoyan arrived on site at 0930 to perfor
HELE	/20	TEMPERATURE (°C)	15.8	15.9	16	North of College Parkway) between College Park Drive to Mari
AB AB	/8/	Ηα	7.76	7.88	8.09	date. Between US10 and US15, collected and recorded water (
S R	· ·	TURBIDITY (NTUs)	2.26	1.08	1.52	submitted to American Environmental Testing Labs (AETL) for
Z		DISSOLVED O ₂ (mg/L)	9.82	9.64	9.7	- standpoint, pro
S,		TOTAL SUSPENDED SOLIDS	50			
		(mg/L)	59	89	88	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
≥ ́		ELEVATION (approx.)	16	21	10	
15 15	7	TIME	9:06	9:30	9:50	For Monday 01/11, Garo Avoyan arrived on site at 0845 to perf
Ц С	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	College Parkway) between College Park Drive to Marina Drive.
R C	1/2	TEMPERATURE (°C)	15.5	15.1	15.1	Drive of the channel levee, removing vegetation. Lots of veg
А Б А	1/1	рН	8.11	8.13	8.2	water stream in the opposite direction rarely. Turbidity reading
<u>ନ</u> ଅ		TURBIDITY (NTUs)	1.29	1.09	1.56	water quality parameters of temperature, pH, turbidity, and
AN		DISSOLVED O ₂ (mg/L)	9.35	9.55	9.71	(AETL) for analysis of tota
S		TOTAL SUSPENDED SOLIDS	36	42	28	
		(mg/L)	50	42	20	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
С Ш		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
≥ 10		ELEVATION (approx.)	16	21	10	
R 6	ž	TIME	8:05	8:30	8:59	For Tuesday 01/1, 2nd day of field work, Garo Avoyan arrive
	202	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Reach 115 (West North of College Parkway) between College
Я С	2/2	TEMPERATURE (°C)	12.8	13.4	13.7	the south side College Park Drive of the channel levee, removir
ΪΑΈ	1/1	рН	8.09	8.13	8.25	three (3) sampling points. Between 0805 and 0859, collected
U U U U U U U U U U U U U U		TURBIDITY (NTUs)	1.45	1.2	1.04	Samples collected and submitted to American Environmental T
AA A		DISSOLVED O ₂ (mg/L)	9.33	9.29	9.73	
S		TOTAL SUSPENDED SOLIDS (ma/L)	29	24	5	

rived on the jobsite at 0750 and met with the Miguel Mendoza from Stormwater Maintenance am, internal, and downstream points at San Gabriel River - Reach 115 (West North of College ark Drive. The BMP was moved down south being now installed approximately 457 feet north of s continue to remove vegetation on the west rip-rap slope side of the channel. Water level was), collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved mental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/17 on 24ndoza was notified via phone call of the turbidity results.

rived on the jobsite at 0750 and met with the Miguel Mendoza from Stormwater Maintenance am, internal, and downstream points at San Gabriel River - Reach 115 (West North of College Park Drive. The BMP was moved down towards the downstream point. off of College Park Drive. be as well as vegetation near the edge of the channel. The county field crew were removing the slightly high at the downstream point Between 0815 and 0910, collected and recorded water ed oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for /07 on 24-hour TAT. Miguel Mendoza was notified via phone call of the turbidity results.

rm baseline water quality monitoring and sampling at the San Gabriel River - Reach 115 (West ina Drive. Baseline water quality monitoring and sampling was done three (3) days prior to start quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and r analysis of total suspended solids (TSS) on Friday 01/08 on 24-hour TAT. From a water quality oject is "good to go" for start on Monday 01/11.

form water quality monitoring and sampling at the San Gabriel River - Reach 115 (West North of . BMP was set up under College Park Drive Bridge. Field crew was on the south side College Park etation in on water surface and also water level rose very little as well light winds that pushed ng was slightly high at the downstream point. Between 0906 and 0950, collected and recorded l dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs suspended solids (TSS) on Monday 01/11 on 24-hour TAT.

d on site at 0750 to perform water quality monitoring and sampling at the San Gabriel River -Park Drive to Marina Drive. BMP was set up under College Park Drive Bridge. Field crew was on ng vegetation. Lots of vegetation in on water surface and also water level continues to rise at all and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. esting Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 01/12 on 24-hour TAT.

		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
ЕR		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	For Tuesday 01/12, Garo Avoyan arrived on site at to perform
× −		ELEVATION (approx.)	16	21	10	
L2)	<u>~</u>	TIME	8:09	8:35	9:00	
SAN GABRIEL (REACH 1	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	College Parkway) between College Park Drive to Marina Drive.
	3/2	TEMPERATURE (°C)	13.3	13.7	13.9	Drive of the channel levee, removing vegetation. Lots of vege
	1:	рН	8.07	7.92	8.14	slightly high at both the internal and downstream point. Be
	~	TURBIDITY (NTUs)	1.1	1.52	2.91	turbidity, and dissolved oxygen. Samples collected and submitte
		DISSOLVED O ₂ (mg/L)	10.01	9.72	9.6	Wednesday 01/13 on 24-hour TAT
		TOTAL SUSPENDED SOLIDS	G	20	22	
		(mg/L)	0	30	32	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
Ξ		ELEVATION (approx.)	16	21	10	
ъ. 15	Σ	TIME	9:00	8:30	8:10	For Wednesday 01/14, 4th day of field work, Garo Avoyan arriv
Ц Т	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	115 (West North of College Parkway) between College Park I
N S S S S	4/2	TEMPERATURE (°C)	14.6	13.4	12.9	south side College Park Drive of the channel levee, removing v
БАП	1/1	рН	8.3	8.3	8.17	Turbidity reading was slightly high at both the internal and dow
<u>с</u> К	,	TURBIDITY (NTUs)	1.3	1.54	1.66	temperature, pH, turbidity, and dissolved oxygen. Samples
A		DISSOLVED O ₂ (mg/L)	9.72	9.49	9.56	suspended solids (TSS) on Thursday 01/14 on 2
S		TOTAL SUSPENDED SOLIDS	16	12	11	
		(mg/L) LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
2		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	For Friday 01/15, 5th day of field work, Garo Avoyan arrived or
Ц		ELEVATION (approx.)	16	21	10	
5) 5			8:55	8.29	8:07	
_	321	SAMPLE NO	SGRR115W-1	SGRR115W-2	SGRR115W-3	115 (West North of College Parkway) between College Park Dr
2 2	/20		15.4	14.5	13.8	Street. Lots of vegetation in on water surface especially at t
ABI	15	Ηα	8.32	8.32	8.37	reading was slightly high at both the internal and downst
G/ RE	-		1.37	1.77	1.65	temperature, pH, turbidity, and dissolved oxygen. Samples
zŬ		DISSOLVED O ₂ (mg/L)	9.5	9.69	9.89	suspended solids (TSS) on Friday 01/15 on 24
SA		TOTAL SUSPENDED SOLIDS	010			
		(mg/L)	9	57	51	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
Ř		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
Ш >		ELEVATION (approx.)	16	21	10	
L2	~	TIME	9:05	8:39	8:10	For Monday 01/18, 6th day of field work, Garo Avoyan arrive Reach 115 (West North of College Parkway) between College
	02	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	
돌고	3/2	TEMPERATURE (°C)	14.9	14.8	13.5	and 2nd Street. Water levels were low as well as there were lit
ΑB	/18	рН	8.24	8.3	8.17	collected and recorded water quality parameters of temp
S S S	~	TURBIDITY (NTUs)	2.59	1.11	1.28	Environmental Testing Labs (AETL) for analysis of total suspen
Z		DISSOLVED O ₂ (mg/L)	9.24	9.29	9.79	
Ś		TOTAL SUSPENDED SOLIDS	26	6	61	
		(mg/L)	50	0	01	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
Ц		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	-
≥		ELEVATION (approx.)	16	21	10	
Ц Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н Н	2	TIME	9:21	9:00	8:30	For Thursday 01/21, 7th day of field work after a two day de
ΞŢ	20	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Prive Field grow continue to work on the lawse between College
BR AC	21/		16.1	16.1	16.4	and 0021, collected and recorded water runlity persentations of
ŠĒ/	1/2		8.34	8.33	8.36	and 0921, conected and recorded water quality parameters of t
Z E			1.93	1.51	1.52	Environmental resting Labs (AETL) for analysis of total suspe
SA			9.8	9.35	9.4	
		(mg/L)	14	17	15	
-						

m water quality monitoring and sampling at the San Gabriel River - Reach 115 (West North of BMP was set up under College Park Drive Bridge. Field crew was on the south side College Park etation in on water surface especially at the downstream sampling point. Turbidity reading was etween 0809 and 0900, collected and recorded water quality parameters of temperature, pH, ed to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on . Elias Herrera was notified via phone call about turbidity readings.

ed on site at to perform water quality monitoring and sampling at the San Gabriel River - Reach Drive to Marina Drive. BMP was set up under College Park Drive Bridge. Field crew was on the regetation. Lots of vegetation in on water surface especially at the downstream sampling point. wnstream point. Between 0810 and 0900, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total 24-hour TAT. Elias Herrera was notified via phone call about turbidity readings.

site at 0755 to perform water quality monitoring and sampling at the San Gabriel River - Reach rive to Marina Drive. Field crew continue to work on the levee between College Park Dr and 2nd the downstream sampling point as well as three (3) dead birds at the internal point. Turbidity ream point. Between 0807 and 0855, collected and recorded water quality parameters of collected and submitted to American Environmental Testing Labs (AETL) for analysis of total 4-hour TAT. Elias Herrera was notified via phone call about turbidity readings.

ed on site at 0755 to perform water quality monitoring and sampling at the San Gabriel River -Park Drive to Marina Drive. Field crew continue to work on the levee between College Park Dr ttle or no vegetation on water surface at all three (3) sampling points. Between 0810 and 0905, erature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American nded solids (TSS) on Monday 01/18 on 24-hour TAT. Elias Herrera was notified via text message about turbidity readings.

elay due to management approval for contractor work, Garo Avoyan arrived on site at 0820 to abriel River - Reach 115 (West North of College Parkway) between College Park Drive to Marina ge Park Dr and 2nd Street. Water levels were normal at three (3) sampling points. Between 0830 temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American ended solids (TSS) on Thursday 01/21 on 24-hour TAT. Elias Herrera was notified via phone call now be switching from daily to weekly water sampling and monitoring.

		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	During Maintenance WQ Monitoring & Sampling Results
SAN GABRIEL RIVER (REACH 115)		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
		ELEVATION (approx.)	16	21	10	
		TIME	8:55	8:21	8:05	For Thursday 02/04, 9th day of field work after brief pause
	121	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	sampling at the San Gabriel River - Reach 115 (West North of C
	/20	TEMPERATURE (°C)	16.3	15.3	15.5	side of 2nd Street on the west side of the levee. Water level w
	2/4	pH	8.19	8.15	8.29	point. Between 0805 and 0855, collected and recorded water
		TURBIDITY (NTUs)	1.59	2.1	1.15	submitted to American Environmental Testing Labs (AETL) fo
		DISSOLVED O ₂ (mg/L)	9.94	9.75	9.95	notified
S/		TOTAL SUSPENDED SOLIDS	21	10	20	-
		(mg/L)	21	12	23	
		LATITUDE (approx.)	33.7750554	33.7599321	33.7472777	Post-Work WQ Monitoring & Sampling Results
Ш		LONGITUDE (approx.)	-118.0981053	-118.0985062	-118.1136401	
		ELEVATION (approx.)	16	21	10	
R 5	5	TIME	8:48	9:15	9:40	
	202	SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	For Thursday 02/11, Garo Avoyan arrived on site at 00830 to p
SRI CF	1/2	TEMPERATURE (°C)	17	16.5	15.7	North of College Parkway) between College Park Drive to Mar
E A E	2/1	рН	8.2	8.2	8.17	sampling points. Between 0848 and 0940, collected and reco
<u>ମ</u> ଅ		TURBIDITY (NTUs)	3.43	1.51	1.13	collected and submitted to American Environmental Testin
AN		DISSOLVED O ₂ (mg/L)	9.96	9.9	9.63	
Ś		TOTAL SUSPENDED SOLIDS (ma/L)	38	61	76	
		LATITUDE (approx.)	34.0436853	34.0433562	34.0353106	Pre-Clearing/Baseline
		LONGITUDE (approx.)	-118.5125286	-118.5134241	-118.5177736	For Friday 09/25, Garo Avoyan arrived with Greg Johnson fror
Z		ELEVATION (approx.)	191	179	87	
18) 18)	0	TIME	7:50	8:00	8:53	Crew Leaders from Stormwater Maintenance 83rd Yard, to p
A A V	02(SAMPLE NO.	RCR118-1	RCR118-2	RCR118-3	determined in the past, Greg and Garo measured off the locat
O N N	5/2(TEMPERATURE (°C)	18.2	18	18.2	where Rustic and Rivas connect. The downstream sampling p
HAC H	/25	Hq	8.21	7.72	8.15	West Rustic Road. Baseline water quality monitoring and sam
IST C C	6	TURBIDITY (NTUs)	0.82	0.21	0.48	water quality parameters of temperature, pH, turbidity, and
LR)		DISSOLVED O ₂ (mg/L)	9.71	8.45	9.44	(AETL) for analysis of total suspended solids (TSS) on Friday
		TOTAL SUSPENDED SOLIDS				
		(mg/L)	ND	ND	ND	
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)				
NO (ELEVATION (approx.)				For Friday October 02, 2020, 1st day of field work, Garo Avo
18 [−] 1	0	TIME				
A A -	02	SAMPLE NO.				
O N D	2/2	TEMPERATURE (°C)				into crock. There is no water fall on the concrete check dam
D H A	./0	рН				Regional Water Quality Board permit requirements GMED wil
-S C RI	1	TURBIDITY (NTUs)				
RL		DISSOLVED O ₂ (mg/L)				
		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
-		LONGITUDE (approx.)				
NO (ELEVATION (approx.)				
18 18	0	TIME				For Saturday October 03, 2020, 2nd day of field work. Garo Av
AN H	02	SAMPLE NO.				of the concrete check dam located 220' porth of the palm tr
C A C	3/2	TEMPERATURE (°C)				dam into creek. There is no water fall on the concrete check d
ΞΫ́Ξ	10/	рН				– Regional Water Quality Board permit requirements. GMFD wil
S C R	~ -	TURBIDITY (NTUs)				
R		DISSOLVED O ₂ (mg/L)				
		TOTAL SUSPENDED SOLIDS				
		(mg/L)				

of the project, Garo Avoyan arrived on site at 0755 to perform water quality monitoring and ollege Parkway) between College Park Drive to Marina Drive. Field crew has moved to the south vas normal at all three (3) sampling points. Turbidity reading was very slightly high at the internal quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and r analysis of total suspended solids (TSS) on Thursday 02/04 on 24-hour TAT. Elias Herrera was via phone call about turbidity readings.

perform post water quality monitoring and sampling at the San Gabriel River - Reach 115 (West ina Drive. Field crew finished all the vegetation removal. Water level was normal at all three (3) orded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples g Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 02/11 on 24-hour TAT.

m GMED at 0745 and met with both Steven Mc Mihelk and Rodney Nungaray both Public Work perform baseline water quality monitoring and sampling. Based on sampling points that were ions for both upstream and internal sampling points using a palm tree located west of the creek point is located in the channel directly below the north end bridge between East Rustic Road & pling was done six (6) days prior to start date. Between 0750 and 0853, collected and recorded I dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs y 09/25 on 24-hour TAT. From a water quality standpoint, project is "good to go" for start on Thursday 10/01.

an arrived on-site to perform water quality sampling and monitoring. The upstream sampling of cated west side of the creek. Water runs down from the top portion of the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.

oyan arrived on-site to perform water quality sampling and monitoring. The upstream sampling e located west side of the creek. Water runs down from the top portion of the concrete check am and the creek was dry. No water sampling was performed because the project did not meet perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.

		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
ANYON NEL H 118)		LONGITUDE (approx.)				
		ELEVATION (approx.)				For Monday October 05, 2020, 3rd day of field work, Garo Avo
	0	TIME				
	02	SAMPLE NO.				remove vegetation inside the channel. The unstream samplir
0 V V V V	5/2	TEMPERATURE (°C)				Water runs down from the top portion of the concrete check d
E H E	i/0	рН				sampling was performed because the project did not meet
RUST CF (RE	~	TURBIDITY (NTUs)				- sampling was performed because the project du not meet
		DISSOLVED O ₂ (mg/L)				
		TOTAL SUSPENDED SOLIDS (mg/L)				
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)				
Z		ELEVATION (approx.)				-
18) 18)		TIME				-
A A V	02(SAMPLE NO.				For Tuesday October 06, 2020, 4th day of field work, Garo Avoy
U Z H	3/2(TEMPERATURE (°C)				- remove vegetation inside the channel. The upstream samplir
HA HA	9/0	Ηα				- Water runs down from the top portion of the concrete check d
C C SI	~	TURBIDITY (NTUs)				sampling was performed because the project did not meet
		DISSOLVED O ₂ (mg/L)				evaluate site conditions
_		TOTAL SUSPENDED SOLIDS				-
		(mg/L)				
		LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)				
N		ELEVATION (approx.)				
18) 18)	0	TIME				For Wednesday October 07, 2020, 5th day of field work, Ga
A A A A A A A A A A A A A A A A A A A	02(SAMPLE NO.				removed the majority of the vegetation inside the Rustic Cany
U Z J	//2(TEMPERATURE (°C)				the concrete check dam located 220' north of the palm tree lo
E H E	0/1	pH				into creek. There is no water fall on the concrete check dan
LSI CRE	-	TURBIDITY (NTUs)				Regional Water Quality Board permit requirements. GMED wil
L R		DISSOLVED O ₂ (mg/L)				
		TOTAL SUSPENDED SOLIDS				
		(mg/L)				
		LATITUDE (approx.)	34.0436853	34.0433562	34.0353106	During Maintenance WQ Monitoring & Sampling Results
_		LONGITUDE (approx.)	-118.5125286	-118.5134241	-118.5177736	For Thursday 10/08, 6th day of field operations, Garo Avoya baseline water quality monitoring and sampling. Field Crew
VO (ELEVATION (approx.)	191	179	87	
18 18	0	TIME	13:10	13:16	13:45	
L NE	02	SAMPLE NO.	RCR118-1	RCR118-2	RCR118-3	
	8/2	TEMPERATURE (°C)	22.9	22.8	21.9	from the pond below the concrete check dam. During sampli
ΞΞΨ	0/	рН	8.69	8.08	8.83	tree branches and they were falling inside the channel Be
SU R		TURBIDITY (NTUs)	17.76	1.78	3.24	turbidity and dissolved oxygen. Samples collected and submi
RI		DISSOLVED O ₂ (mg/L)	9.55	9.99	10.01	
		TOTAL SUSPENDED SOLIDS	ND	ND	ND	
		(mg/L)				
		LATITUDE (approx.)	34.0436853	34.0433562	34.0353106	During Maintenance WQ Monitoring & Sampling Results
7		LONGITUDE (approx.)	-118.5125286	-118.5134241	-118.5177736	
Õ 🙃		ELEVATION (approx.)	191	179	87	For Friday 10/09, 7th day of field operations, Garo Avoyan arr
18 N∕	0	TIME	9:07	9:14	9:45	Yard, to perform water quality monitoring and sampling. Fig
	502	SAMPLE NO.	RCR118-1	RCR118-2	RCR118-3	removal inside the channel. For upstream the water was a lit
A C	,/6/	TEMPERATURE (°C)	17.9	18.5	18.7	check dam. Turbidity reading at downstream were slightly
E H	10/	рН	8.32	7.43	8.38	vegetation. Between 0907 and 0945, collected and recorded v
SU S	-	TURBIDITY (NTUs)	1.78	0.26	3.37	and submitted to American Environmental Testing Labs (AET
Ŕ		DISSOLVED O ₂ (mg/L)	9.7	10.08	9.33	informed Rodney Nungary of the of turbio
		TOTAL SUSPENDED SOLIDS	ND	ND	ND	, , , , ,
		(mg/L)			1	

van arrived on-site to perform water quality sampling and monitoring. Field crew still continue to ng of the concrete check dam located 220' north of the palm tree located west side of the creek. am into creek. There is no water fall on the concrete check dam and the creek was dry. No water Regional Water Quality Board permit requirements. GMED will perform daily site checks to and will perform water quality monitoring, if warranted.

van arrived on-site to perform water quality sampling and monitoring. Field crew still continue to ng of the concrete check dam located 220' north of the palm tree located west side of the creek. am into creek. There is no water fall on the concrete check dam and the creek was dry. No water Regional Water Quality Board permit requirements. GMED will perform daily site checks to and will perform water quality monitoring, if warranted.

ro Avoyan arrived on-site to perform water quality sampling and monitoring. Field crew have on Channel and making their way towards west side of the channel. The upstream sampling of ocated west side of the creek. Water runs down from the top portion of the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet I perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.

n arrived on the job site at 1250 and met with Stormwater Maintenance 83rd Yard, to perform continued to clear out vegetation out of the channel. Water flow was present at all sampling noticed little frogs, leaves, and vegetation in the water. Also a very bad odor was also coming ng at downstream point inside the channel, there were Non-Public Works employees trimming etween 1310 and 1345, collected and recorded water quality parameters of temperature, pH, tted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/08 on 24-hour TAT.

ived on the job site at 0900 and met with Rodney Nungary from Stormwater Maintenance 83rd eld Crew were at the bridge between East Rustic Road and West Rustic Road doing vegetation tle clear than yesterday but there was still bad odor coming from the pond below the concrete high due to the work inside the channel including black apron covers used to collect the green vater quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected L) for analysis of total suspended solids (TSS) on Thursday 10/08 on 24-hour TAT. Garo Avoyan dity results. GMED will now shift to weekly water sampling and monitoring.

r	-		
		LATITUDE (approx.)	Post-Work WQ Monitoring & Sampling Results
7		LONGITUDE (approx.)	
õ 🙃		ELEVATION (approx.)	
∑ I ≈	20	TIME	For October 29, 2020, after a brief hold on this project and res
Ϋ́́Ξ	20	SAMPLE NO.	October 27, 2020) , Garo Avoyan arrived on site to perform po
Q A Q	29/	TEMPERATURE (°C)	points of the concrete check dam located 220' north of the pa
Ĕ H Ā	0/2	рН	
S S R	~	TURBIDITY (NTUs)	No water sampling was performed because
R		DISSOLVED O ₂ (mg/L)	
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	Pre-Clearing/Baseline
		LONGITUDE (approx.)	
Z a		ELEVATION (approx.)	For Friday September 25, 2020, Garo Avovan arrived with Greg
73 H X	0	TIME	Work Crew Leaders from Stormwater Maintenance 83rd Yard.
A H H	02	SAMPLE NO.	upstream sampling point located on the north side of the west
Ω Å Ω	5/2	TEMPERATURE (°C)	area between single-family residence off Rivas Canyon Roa
AS H H	9/2	рН	location. The concrete channel is dry, so baseline water quality
≥ 0 ₽	0,	TURBIDITY (NTUs)	Quality Board permit requirements. From a water quality stand
2		DISSOLVED O ₂ (mg/L)	will perform periodic site checks to evaluate
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
Z o		ELEVATION (approx.)	
19 L	0	TIME	For Friday October 02, 2020,1st day of field work, Garo Avoyan
ZZZ	02	SAMPLE NO.	The upstream sampling point located on the north side of the
ΩŽΥ	22	TEMPERATURE (°C)	channel area between single-family residence off Rivas Canyo
SA H	0	рН	this location. The concrete channel is dry, so baseline water o
<u>≶</u> ∩ ₽	~	TURBIDITY (NTUs)	Water Quality Board permit requirements. GMED will perfo
2		DISSOLVED O ₂ (mg/L)	
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	During Maintenance WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
19 L X	0	TIME	For Saturday October 03, 2020, 2nd day of field work, Garo Av
ZZ	02	SAMPLE NO.	119. The upstream sampling point located on the north side
ΩΫΡ	3/2	TEMPERATURE (°C)	concrete channel area between single-family residence off Riv
S H H	ö	рН	south of this location. As shown the concrete channel is dry, so
₹ O ₽	~	TURBIDITY (NTUs)	meet Regional Water Quality Board permit requirements. G
R R		DISSOLVED O ₂ (mg/L)	
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	
		LATITUDE (approx.)	Post-Work WQ Monitoring & Sampling Results
		LONGITUDE (approx.)	
Z		ELEVATION (approx.)	
19) ⁷ C	0	TIME	For Monday October 05, 2020, Garo Avevan arrived to perfor
Х Щ Г	02(SAMPLE NO.	For information completed all vegetation removal and cleared all equipment
SZZ	5/2	TEMPERATURE (°C)	completed all vegetation removal and cleared all equipme
AN AA	0/5	PH	Infinediately east of Rivas Canyon Road. It is an open-box cond
N C K	~	TURBIDITY (NTUs)	west-bound Sunset Biva . It runs underground north and south
<u></u>		DISSOLVED O ₂ (ma/L)	sampling was not performed because the
		TOTAL SUSPENDED SOLIDS	
		(mg/L)	

suming field work towards completion for only two days (Monday October 26, 2020 & Tuesday ost water quality sampling and monitoring at Rustic Canyon Channel Reach 118. The upstream alm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into a pond and the creek with the concrete check dam and pond had no water flow. the project did not meet Regional Water Quality Board permit requirements.

Johnson from GMED at 0745 and met with Steven Mc Mihelk and Rodney Nungaray both Public , to establish baseline water monitoring and sampling for Rivas Canyon Channel Reach 119. The bound Sunset Blvd., immediately east of Rivas Canyon Road. It is an open-box concrete channel d and the north side of west-bound Sunset Blvd . It runs underground north and south of this monitoring and sampling was not performed because the project did not meet Regional Water dpoint, the project is "good to go" for a proposed start date on Thursday October 1, 2020. GMED ate site conditions and will perform water quality monitoring, if warranted.

arrived to perform water quality sampling and monitoring for Rivas Canyon Channel Reach 119. e west bound Sunset Blvd., immediately east of Rivas Canyon Road. It is an open-box concrete on Road and the north side of west-bound Sunset Blvd . It runs underground north and south of quality monitoring and sampling was not performed because the project did not meet Regional orm daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.

oyan arrived to perform water quality sampling and monitoring for Rivas Canyon Channel Reach de of the west bound Sunset Blvd., immediately east of Rivas Canyon Road. It is an open-box vas Canyon Road and the north side of west-bound Sunset Blvd . It runs underground north and baseline water quality monitoring and sampling was not performed because the project did not GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.

m post water quality sampling and monitoring for Rivas Canyon Channel Reach 119. Field crew ent. The upstream sampling point located on the north side of the west bound Sunset Blvd., crete channel area between single-family residence off Rivas Canyon Road and the north side of of this location. As shown the concrete channel is dry, so baseline water quality monitoring and project did not meet Regional Water Quality Board permit requirements.

ATTACHMENT NO. 7 2020-21 MAINTENANCE METHODOLY PILOT PROJECTS

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2020 MAINTENANCE METHODOLOGY PILOT PROJECT

Soft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet) and Reach 19 (Pickens Canyon)





Prepared by:

Los Angeles County Flood Control District Los Angeles County Public Works 900 S. Fremont Avenue, Alhambra, CA 91803

July 2021

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2020 MAINTENANCE METHODOLOGY PILOT PROJECT At Soft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet) and

oft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet) and Reach 19 (Pickens Canyon)

1.0 INTRODUCTION

Los Angeles County Flood Control District (LACFCD) is responsible for providing flood protection to County residents through the maintenance of its network of flood control channels. On an annual basis, adequate channel capacity is maintained by clearing vegetation and debris within the flood channels to reduce the risk of loss of life and/or property damages from flooding during large storm events. All soft-bottom channel (SBC) clearing activities are typically started after Bird Nesting Season, from September 1 through March 15, and are performed in accordance with all applicable environmental/regulatory permits. If work is needed during Bird Nesting Season, a qualified biologist conducts nesting bird surveys prior to the start of the any maintenance activities.

LACFCD, in cooperation with stakeholders; the Regional Water Quality Control Board, Los Angeles Region (Regional Board); and other regulatory agencies, continues its efforts to conduct the Maintenance Methodology Pilot Project (MMPP) at Soft-Bottom Channel (SBC) Reaches 7 (Bull Creek Main Channel Outlet) and 19 (Pickens Canyon). Past vegetation maintenance methodology for these SBC reaches were altered as part of the MMPP. The intent was to investigate whether an alternative vegetation maintenance method can be used for these two SBC reaches that will minimize impact on existing vegetation and associated habitat while maintaining adequate channel capacity. Leaving additional vegetation within these SBC reaches requires further approval from all regulatory agencies, particularly the U. S. Army Corps of Engineers (USACE).

The MMPP for SBC Reaches 7 and 19 is on its fourth year. In this report, LACFCD will go over the 2020 maintenance activities for these reaches and its findings.

1.1 Channel Assessment

SBC Reaches 7 and 19 are located within the Los Angeles River (LAR) watershed.

Reach 7, Bull Creek Main Channel Outlet (MCO), originates at Bull Creek Retention Basin and discharges to the Sepulveda Dam. It is an engineered channel for approximately 9.5 miles, then transitions into a natural soft-bottom channel. It is this soft bottom portion of the channel that is being investigated in this MMPP. For SBC Reach 7, work is performed only in the first 275 feet and extends from the concrete reach outlet to the pedestrian bridge (see Figure 1). Based on the permit conditions, SBC Reach 7 has been identified as having habitat for the least Bell's vireo. This reach is considered a sensitive reach.

Reach 19 - Pickens Canyon, originates in the Angeles National Forest and discharges into the Verdugo Wash. It is an engineered storm drain for approximately 0.4 miles then transitions into a natural soft-bottom channel. This soft-bottom portion of the channel is being investigated in this MMPP. SBC Reach 19 is approximately 25 feet upstream of Crib Dam #7 to the start of the concrete spillway inlet to Pickens Debris Basin (see Figure 2). Based on surveys performed by BonTerra's biologist, Mr. Brian E. Daniels, no potential habitat is present in the channel for least Bell's vireo. This reach is considered a non-sensitive reach.



Figure 1: SBC Reach 7 – Bull Creek MCO



Figure 2: SBC Reach 19 – Pickens Canyon

2.0 VEGETATION MAINTENANCE

Before the implementation of the MMPP, SBC Reach 7 maintenance activities included hand clearing of vegetation and debris along the invert. This method was last utilized during the November 2015 maintenance. During the 2016 to 2020 implementation of the MMPP, the maintenance of this channel was slightly modified. Hand clearing is still being used to clear vegetation and debris along the invert of the channel but additional willow growth is being allowed in a single line (no more than 1 tree every 10 feet) at the toe of the slope on the right (west) side bank of the channel.

In 2015, SBC Reach 19 maintenance activities included hand clearing of vegetation adjacent to or growing out of the crib structures. During the 2016 to 2020 implementation of the MMPP, the same maintenance activities were conducted with some minor amendments. For example, more native shrubs were allowed to grow on the invert of the channel except on the crib structures. Additionally, native shrubs were protected by removing non-native and ornamental vegetation.

All cuttings generated from the removal of the invasive vegetation from Reaches 7 and 19 were placed in tarps to ensure seedlings or cuttings did not fall on the ground that could result in future growth of invasive vegetation in the channels.

As part of LACFCD's standard practice for SBC clearing activities, a qualified biologist was available for consultation prior to start of work to ensure proper removal of invasive vegetation. Best Management Practices (BMPs) were implemented in accordance with the facilities' regulatory permits. All the removed vegetation and incidental sediment were placed in dump trucks and properly transported to an approved off-site disposal/landfill facility.

The 2020 MMPP for SBC Reach 7 was performed on January 20, 2021, while SBC Reach 19 was done on November 30, 2020. The equipment used during the 2020 MMPP included hand tools and the stake bed dump truck (see Attachment A).

3.0 WATER QUALITY MONITORING - MMPP

No Water Quality (WQ) monitoring was performed during the 2020 MMPP for Reaches 7 and 19. Reach 19 was devoid of water, while Reach 7 only had nonflowing, ponded water. Since Reach 7 did not have continuous flow of water that continued beyond the reach's downstream limit, no WQ monitoring was required. Field personnel were not permitted to enter the ponded water for this reach in the 2020 MMPP.

4.0 BIOLOGICAL RESOURCES REPORT - MMPP

4.1 Biological Resources

The preclearing biological site visit was conducted by a qualified biologist at SBC Reach 7 on August 20, 2020. Standard data were recorded, and photos were taken from photo stations established in 2015 after completion of the Bull Creek Restoration Project. Construction began in 2008 for this project managed by the City of Los Angeles and the U.S. Army Corps of Engineers. The project footprint was within Lake Balboa Park and included this SBC reach managed by the LACFCD. The project changes to Reach 7 included lining the earthen banks with riprap and construction of a pedestrian bridge near the downstream terminus of the reach. In addition, the project created more extensive riparian habitat that became seasonally occupied by the State and federally Endangered least Bell's vireo (*Vireo bellii pusillus*). Attachment D includes the Pre- and Post-clearing Form for the 2020-2021 SBC maintenance clearing season. Photos associated with these visits are included in Attachment E.

During monitoring activities and, the August 20, 2020, pre-clearing survey of Reach 7, mature willow (*Salix spp.*) and Fremont cottonwood (*Populus fremontii*) dominated riparian vegetation was present on the earthen tops of both riprap and concrete covered banks. A portion of the riparian vegetation south of the clearing limits, in the "U" or "oxbow" shaped channel loop that runs west from the main channel was damaged during the 2019-2022 maintenance season by unregulated homeless campfires. In a portion of this area, it appears the majority of the mature willow and cotton wood trees were killed, as well as shrubs and other perennials in the understory. The least Bell's vireo had previously been

documented using this area as part of a breeding territory, however, this area is no longer suitable for vireo breeding. This change may cause least Bell's vireo to utilize habitat areas in the vicinity not previously preferred in future years, including the area maintained by LACFCD. A new trash rack has been installed where the old trash rack crossed the invert. There is no overstory in this area, making trash that accumulates at the trash rack highly visible. During the 2020-2021 clearing season, two shopping carts and a multitude of other trash items were present here. Visible human trash may attract opportunistic species such as the common raven (Corvus corax) which also predate vulnerable wildlife such as small mammals and nesting birds. The concrete at the upper end of the reach existed prior to the restoration project. In this concrete portion of the reach, one mature willow was present at the toe of the right (west) bank. This mature willow was present prior to the start of project construction in 2008 and is now a large, fully mature multi-trunk tree. Downstream of the trash rack, a large sediment island formed and was present during the 2020-2021 clearing season. This sediment island continues to support a thicket of cattails (Typha sp.) with some willow saplings growing as well. The presence of cattails likely accelerates the sedimentation process during the growing season by slowing flows to allow sediment settling and blocking sediment from moving further downstream. This is expected to result in new annual opportunities for vegetation establishment and accumulation. Upstream of the trash rack, the invert continues to be unvegetated and covered with flowing water as in previous years. Some sediment had accrued at the toe of the left (or east) bank during previous years but was not visible during the 2020-2021 clearing season. It is possible the installation of the trash rack periodically increases the rate of sediment deposition on the invert of this reach.

The post-clearing survey was performed on January 20, 2021. As required by the LACFCD's regulatory permits, all maintenance activities in this SBC reach are performed after September 15, the end of the least Bell's vireo breeding season. These migratory birds have departed the area by mid-September to spend the winter season south of the region. Maintenance activities are then allowed by the permits to proceed while being monitored by gualified biologists that have identified and protected habitat seasonally occupied by the least Bell's vireo. The location and extent of this occupied habitat was determined during focused surveys conducted for this species on a regular basis by qualified biologists for the LACFCD. Vegetation removed included vegetation growing on the lower half of the riprap banks, trimmings of the lower portion of the mature willow on the right bank toe, and the cattails and young willow growth on the sediment "island" that has formed on the invert between the pedestrian bridge and the trash rack. Note that four cottonwoods were selected to continue growing at the base of the right (or west) bank. During monitoring activities in the 2020-2021 clearing season, three of these cottonwood trees were clearly visible at a height of between 15 and 20 feet tall, and the fourth was not readily visible. Biologists monitoring clearing activities demarcated a smaller cottonwood (approximately five feet) for avoidance that had possibly been damaged by flowing water. This cottonwood is growing somewhat horizontally (possibly due to water flows) but will trend vertically as it continues to grow. Mature cottonwoods grow vertically and are considered less of an impediment to stream flow than willows. Additionally, observations were made during monitoring activities during the 2020-2021 clearing season that these "protected" cottonwood trees are currently providing perching habitat for various passerine bird species moving through the reach and may provide nesting habitat in the future. It should also be noted that growing at the base of these preserved cottonwoods, are willow saplings. These saplings are removed during maintenance activities; however, in the event that any of the protected cottonwood trees are damaged or die off, these willow saplings can be allowed to grow in their place. With continuation of the modified

maintenance approach at Reach 7 in the long term, these protected trees will mature further and increase in biological value to the area.

The pre-clearing biological site visit was conducted by a qualified biologist at SBC Reach 19 on August 20, 2020. Standard data were recorded, and photos taken from previously established photo stations. Attachment D includes the Pre- and Post-clearing Forms from the 2020-2021 SBC maintenance clearing seasons. Photos associated with these visits are included in Attachment E.

During the August 20, 2020, pre-clearing survey of Reach 19, the vegetation on the invert consisted of a sparse growth of alluvial sage scrub vegetation. The left (east) bank was concrete, but the right (west) bank was earthen supporting a dense growth of primarily ornamental vegetation. The alluvial sage scrub species were mostly native such as mule fat (Baccharis salicifolia), deerweed (Acmispon glaber), scale broom (Lepidospartum squamatum), California buckwheat (Eriogonum fasciculatum), and white sage (Salvia apiana). Non-native invasive species including castor bean (Ricinus communis) and Spanish broom (Spartium junceum) are also present on the invert. The non-native ornamental vegetation on the west bank includes trees such as Aleppo pine (Pinus halepensis), Canary Island pine (Pinus canariensis), and ash (Fraxinus sp.). This bank vegetation also includes native scrub species, particularly laurel sumac (Malosma laurina).

The post-clearing survey was performed on January 22, 2021. The biologist reported that the modified maintenance plan for this SBC reach was fully implemented. Accordingly, only vegetation growing on the crib structures is removed during annual maintenance activities. All other native vegetation on the invert and on the earthen west bank is allowed to remain. This clearing pattern is consistent with previous maintenance activities for Reach 19.

The modified maintenance method for Reach 19 is intended to facilitate growth and spread of native alluvial scrub species on the invert by removal of invasive species including castor bean and Spanish broom. Over multiple years, the new method would result in higher quality alluvial sage scrub habitat that is expected to provide greater habitat value for wildlife in the region.

At the conclusion of the five years implementing the modified maintenance at Reach 19, the biological conditions of the site have improved to a small degree. The alluvial vegetation has successfully been avoided during maintenance and has both persisted and expanded. Most of the species associated with this vegetation type are slow growing and five years would represent a short growing period. However, with continuation of this maintenance approach, the native vegetation should continue to growth and become less susceptible to flood damages or other negative environmental influences. This vegetation type is expected to remain somewhat sparse which is consistent with natural conditions.

4.2 MMPP's Biological Assessment

With an expected increase in native dominated vegetation, wildlife species utilizing SBC reaches 7 and 19 are expected to change. Proposed modified maintenance methods at SBC Reach 7 and 19 include allowing additional vegetation (i.e. willows and alluvial sage respectively) to grow and spread on the banks and inverts of the reaches. In time, allowing more willows and alluvial sage in these reaches would provide additional habitat for

riparian species already using this reach including the endangered least Bell's vireo. The shifting of the plant and wildlife composition of these reaches may continue over the course of many years but is eventually expected to stabilize if the pilot study's modified maintenance method was implemented on a permanent basis (provided the new growth does not impact flow and capacity of the reaches).

5.0 <u>COMPARISON</u>

LACFCD's initial observation of the 2020-21 MMPP is as follows:

5.1 Maintenance Observation

During the 2020 MMPP for SBC Reaches 7 and 19, by allowing more vegetation to grow within these reaches, we observed the following:

- 1) No significant change was observed regarding the time it took to maintain Reaches 7 and 19.
- 2) There was a slight increase in the cost for the maintenance of Reaches 7 and 19.
- 3) There was no detectable change in the equipment used for the new maintenance methodology since the vegetation and debris clearance were all done by hand, even prior to the implementation of the MMPP.

6.0 <u>NEXT STEP</u>

The MMPP for SBC Reaches 7 and 19 will continue to be monitored and evaluated over the next year to determine if the proposed maintenance practices are proven to be effective and beneficial. As part of this Pilot Study, biological monitoring will continue to be conducted, in addition to Water Quality Sampling (if conditions allow it). LACFCD will continue to prepare the MMPP Reports to submit to Regional Board and other involved stakeholders until the end of this Pilot Project.

ATTACHMENT A

EQUIPMENT UTILIZED FOR MAINTENANCE METHODOLOGY PILOT PROJECT

2020 Maintenance Methodology Pilot Project

EQUIPMENT USED IN MMPP

TOOLS USED FOR CLEARING REACHES



Hand Tools



Stakebed Dump Truck

ATTACHMENT B

DURING MMPP CLEARING PHOTOS SBC REACHES 7 AND 19

2020 Maintenance Methodology Pilot Project

DURING MMPP CLEARING PHOTOS SBC REACH 7 - BULL CREEK M.C.O.







DURING MMPP CLEARING PHOTOS SBC REACH 19 - PICKENS CANYON







ATTACHMENT C PRE- AND POST-CLEARING PHOTOS

2020 Maintenance Methodology Pilot Project

PRE- AND POST-CLEARING PHOTOS SBC Reach 7 - Bull Creek M.C.O

Before Photos 08/20/2020







After Photos 01/20/2021

PRE- AND POST-CLEARING PHOTOS SBC Reach 19 - Pickens Canyon

Before Photos 8/24/2020



After Photos 1/22/2021







ATTACHMENT D PRE – AND POST-CLEARING FORMS

2020 Maintenance Methodology Pilot Project

PRE- AND POST-CLEARING FORMS SBC Reach 7 - Bull Creek M.C.O

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

	Biological Resources Monitoring Form
Reach Number:	7
Special Permit Condit <u>Special Perm</u> <u>Note that the</u> <u>changed exists</u>	ions (list): nit conditions for Least Boll's Vired (LBV) apply. L ALDE/ City of GA restoration project in 2008 ing conditions at their reach.
Observation of Specia	I Status Species: None detacted during August 20,2000 rot
PreClearing Docum	ientation
Photo 1, 2, 3; riprup covere on sediment ash growing	villow and cotton wood saplings at toe of both slopes - note cattails and moreor scrub growing bar forming on most; mexican tow palm and on slopes. Trush present throughout reach and on slopes.
Name of Biological M Post-Clearing Docum	ionitor: Trovor Bristle Date: Ky. 20, 2020
Type of vegetation ren include arrows to indic <u>Photos</u> 1, 2, 3; <u>at</u> toe of b	naining adjacent to removal area (briefly describe, attach photograph, ate important features). Estimate amount of invasives removed. <u>Unce young cotton wood and one mature willow</u> Vert bank selected for protection.
Compliance with Pern	nit Conditions: Full / Partial
If partial compliance i	s apparent, describe circumstances:
Problems or Recomme	endations (if more space is needed continue on the back of this form):
Name of Biological M	onitor: Trever Brithe Date: Jan. 20, 2021
	Revised 2016

2020 Maintenance Methodology Pilot Project

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PRE- AND POST-CLEARING FORMS

SBC Reach 19 - Pickens Canyon

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: Special Permit Conditions (list): . onl None obser Observation of Special Status Species: **Pre.-Clearing Documentation** Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) ar 6.7: Rilan Vesetate 1 chr area mahitemas Stere Monin Date: august 24, 2020 Name of Biological Monitor: Post-Clearing Documentation Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Thetas 6,7; Omanu allegetation and some chapping and/or allund bage bereb on right back. Compliance with Permit Conditions: Full Partial If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form); Date: January 2 Stere Morte Name of Biological Monitor: Revised 2016

2020 Maintenance Methodology Pilot Project

2020 MAINTENANCE METHODOLOGY PILOT PROJECT

Soft-Bottom Channel Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)





Prepared by:

Los Angeles County Flood Control District County of Los Angeles Public Works 900 S. Fremont Avenue, Alhambra, CA 91803

July 2021

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5.1 Maintenance Observation

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2020 MAINTENANCE METHODOLOGY PILOT PROJECT At

Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)

1.0 INTRODUCTION

Los Angeles County Flood Control District (LACFCD) is responsible for providing flood protection to County residents through the maintenance of its network of flood control channels. On an annual basis, channel capacity is maintained by clearing vegetation and debris within the flood control channels to reduce the risk of loss of life and/or property damages from flooding during large storm events. All soft-bottom channel (SBC) clearing activities are typically started after the bird-nesting season from September 1 through March 15 and are performed in accordance with all applicable environmental/regulatory permits. If work is needed during the bird nesting season, a qualified biologist conducts nesting bird surveys prior to the start of any maintenance activities.

During the 2017 SBC clearing, in cooperation with stakeholders and regulatory agencies, LACFCD volunteered to conduct a Maintenance Methodology Pilot Project (MMPP) at Soft-Bottom Channel (SBC) Reaches 20 (Webber Channel Private Bridge) and 21 (Webber Channel Main Inlet). Past vegetation maintenance methodology for these two SBC reaches were altered as part of the MMPP. The intent was to investigate whether an alternative vegetation maintenance method can be used that will minimize impact on channel vegetation and associated habitat while maintaining the existing channel capacity. Leaving additional vegetation within these SBC reaches requires further approval from all regulatory agencies, especially the U. S. Army Corps of Engineers (USACE).

The MMPP for SBC Reaches 20 and 21 is on its fourth year. In this report, LACFCD will go over the 2020 maintenance activities for these reaches and its findings.

1.1 Channel Assessment

SBC Reaches 20 and 21 are located within the Los Angeles River (LAR) watershed.

Webber Channel is in the Angeles National Forest and discharges into the Verdugo Wash. Two soft-bottom sections of the channel are being investigated in this MMPP. Reach 20 is a stream at a private bridge that is about 115 feet in length and 25 feet in width (0.13 acres). Reach 20 spans from 861 feet upstream of Los Amigos Street to 746 feet upstream of Los Amigos Street (see Figure 1). Reach 21 is a stream that is 25 feet in length and 25 feet in width (0.03 acres). It serves as the main channel inlet downstream of the private bridge. Reach 21 spans from 496 feet upstream of Los Amigos Street to 471 feet upstream of Los Amigos Street (see Figure 2).



Figure 1: SBC Reach 20 – Webber Channel Private Bridge


Figure 2: SBC Reach 21 - Webber Channel Main Inlet

2.0 VEGETATION MAINTENANCE

2.1 2020 MMPP Vegetation Maintenance

Prior to the implementation of the MMPP, SBC Reach 20 was permitted to remove all vegetation from the channel by mechanical means while SBC Reach 21 was allowed to remove all vegetation by hand.

On December 2, 2020, with guidance from a qualified biologist, Reach 20 was maintained with the use of hand-held equipment. Non-native vegetation was selectively removed, and native vegetation/shrubs were allowed to grow in the invert and on the channel banks. No additional oaks or other trees were allowed to grow on the banks/invert. Trash, debris, and invasive vegetation were removed by hand within the easement boundaries.

On the same day, a similar maintenance methodology was used for the maintenance of SBC Reach 21. Hand-held equipment was used to selectively remove non-native vegetation from this reach. Under the guidance of the qualified biologist, native herbaceous plants and shrub species were allowed to grow on the left bank looking downstream underneath the coast live oak woodland. Non-native species, including groundcover species such as ivy, were selectively removed from the left bank. Additional trees were not allowed to grow on the banks. Trash, debris, and non-native vegetation were removed by hand within the easement boundaries.

The hand tools used for the MMPP maintenance operation are shown in Attachment A. All cuttings generated from the removal of the invasive vegetation from Reaches 20 and 21 were placed in tarps to ensure seedlings or cuttings were properly contained and transported to an approved off-site disposal/landfill facility using stake bed dump trucks.

A qualified biologist was onsite or available for consultation prior to start of the maintenance work to ensure proper removal of vegetation. WQ monitoring was not performed during the 2020 MMPP due to lack of adequate flowing water in the reaches. Best Management Practices (BMPs) were implemented in accordance with the LACFCD's Water Diversion and Best Management Practices Manual, dated October 2015 (as needed). Removed invasive vegetation, debris, trash, and incidental sediment were properly transported to an approved disposal/landfill facility.

3.0 WATER QUALITY MONITORING - MMPP

Since Reaches 20 and 21 were devoid of flowing water during the implementation of the 2020 MMPP, Water Quality (WQ) Monitoring was not required and was not performed.

4.0 BIOLOGICAL RESOURCES REPORT

Pre-clearing biological site visits were conducted by a qualified biologist at SBC Reaches 20 and 21 on August 24, 2020. Standard data were recorded, and photos were taken from previously established photo stations. Attachment D includes the Pre- and Post-clearing Forms from the 2020-2021 SBC maintenance seasons. Attachment B and C includes the associated photos from the 2020-2021 SBC maintenance clearing seasons.

Reaches 20 and 21 are nearly contiguous and contain almost identical conditions. Both are situated on a large private estate at the base of the San Gabriel Mountains. Oak woodland and chaparral are the dominate natural vegetation types on the adjacent slopes. Mature coast live oak (Quercus agrifolia) trees follow the course of drainage that contains both SBC reaches. Chaparral species such as California bay (Umbellularia californica), toyon (Heteromeles arbutifolia), laurel sumac (Malosma laurina), and western poison oak (Toxicodendron diversilobum) are present on the channel banks forming an understory layer to the coast live oak woodland. Non-native invasive species such as Spanish broom or Scotch broom (Cystisus scoparius) are potentially present in this watershed.

The post-clearing survey was performed on January 2, 2021. The biologist reported that the maintenance plan for each of these SBC reaches was fully implemented. This plan allows mechanical clearing of the reach, but ornamental vegetation planted by the resident on the banks adjacent to existing structures (i.e., main, and secondary residences) has been avoided during these maintenance activities.

The MMPP's modified maintenance method for Reaches 20 and 21 allows for full clearing of the invert, but native vegetation on the earthen east bank (opposite the main residence) of Reach 21 and the earthen west bank (opposite the secondary residence) of Reach 20 will be allowed to mature. Furthermore, non-native invasive species such as any broom species that may be present will be removed from these banks during clearing activities. In time, this would create higher quality understory vegetation to the oak woodlands that overshadow these two SBC reaches. Thus far, based on implementation of the modified maintenance method for three seasons, results are consistent with expectations.

4.1 MMPP's Biological Assessment

With an expected increase in native dominated vegetation, wildlife species utilizing SBC reaches 20 and 21 in the MMPP are expected to change. This change in methodology may result in increased use of the additional vegetation by wildlife species already present in the area.

In time, this is expected to result in growth and persistence of higher quality understory vegetation to the oak woodlands that overshadow these two SBC reaches. Although herbaceous species expected to colonize these areas can grow quickly in some conditions, the shading and non-native seed bank for these two reaches are expected to slow this type of growth.

More years of the revised maintenance would be required prior to detecting measurable changes. In this MMPP study, LACFCD will continue to evaluate the potential short- and long- term effects these alternative clearing methods may have on local and regional species and habitat impact and growth.

5.0 <u>COMPARISON</u>

LACFCD's initial observation of the 2020-21 MMPP is as follows:

5.1 Maintenance Observation

During the 2020 MMPP for SBC Reaches 20 and 21, by implementing hand clearing and allowing more vegetation to grow within both reaches, we observed the following:

- 1) There was no detectable change in the maintenance duration for both Reaches 20 and 21.
- 2) It was observed that there was a slight overall increase in maintenance cost.
- 3) There was no change in the number of staff required to perform the maintenance.
- 4) With hand clearing maintenance methodology, there was less impact on the earthen bottom of the reaches.

6.0 <u>NEXT STEP</u>

Both SBC reaches will continue to be monitored and evaluated on the fifth year of the MMPP to determine if maintenance practices proposed by the MMPP are proven to be effective in both SBC Reaches. Biological monitoring will continue to be conducted in addition to WQ Sampling (if conditions allow). LACFCD will continue to prepare the MMPP Report to submit to Regional Board and other involved stakeholders.

ATTACHMENT A

EQUIPMENT UTILIZED FOR MAINTENANCE METHODOLOGY PILOT PROJECT (MMPP)

EQUIPMENT USED IN MMPP Tools Used For Clearing Reaches 20 and 21



Handheld Tools

EQUIPMENT USED IN MMPP Equipment Used For Clearing Reaches 20 and 21



Stakebed/Dump Truck

ATTACHMENT B

DURING MMPP CLEARING PHOTOS SBC REACHES 20 AND 21

DURING MMPP CLEARING PHOTOS SBC Reach 20 - Webber Channel Private Bridge



DURING MMPP CLEARING PHOTOS SBC Reach 21 - Webber Channel Main Inlet



ATTACHMENT C PRE- AND POST-CLEARING PHOTOS SBC REACHES 20 AND 21

PRE- AND POST-CLEARING PHOTOS SBC Reach 20 - Webber Channel Private Bridge

Before Photos 12/02/2020



After Photos 12/02/2020



PRE- AND POST-CLEARING PHOTOS SBC Reach 21- Webber Channel Main Inlet



Before Photos 12/02/2020

After Photos 12/02/2020



ATTACHMENT D PRE- AND POST-CLEARING FORMS

PRE- AND POST-CLEARING FORMS

SBC Reach 20 - Webber Channel Private Bridge

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 2	O				
Special Permit Conditions duporty will	(list): Not IXI	ed O.Ba	cre (115 lin	en FT by C	TOFT Wile),
Observation of Special Stat	tus Species:	None obs	erved.		
PreClearing Documenta	tion				
Pre-Monitoring Conditions estimate. Attach photograph Photon 13,14 18 Main Tale & Conton	-(briefly desc h): List invasive aler l a- Been f	ribe: Vegetation es present (Aruno Lomanen T rese. T up	type, height of lo, Castor Bear Vegeta Logan of	f trees, invasive j , Trash, etc.) Touch and Junge.	oresent & cover
Name of Biological Monito	r: <u>Ster</u>	a Marile		Date: Augure	7 24,2020
Type of vegetation remaining arrows to indicate importan Purton 13,14, Oak	ng adjacent to r t features). Esti L Woodla	emoval area (bri mate amount of Jan Lonna	efly describe, invasives rem metal Ve	attach photogray oved. eetation	oh, include
Compliance with Permit Co	nditions:	Full	Partial		
If partial compliance is appo	arent, describe o	circumstances:			
Problems or Recommendati	ons (if more sp	ace is needed co	ntinue on the b	ack of this form)	:
7					
Name of Biological Monitor	:	~ Mort	-	Date: Janu	ary 22, 20

Revised 2016

PRE- AND POST-CLEARING FORMS

SBC Reach 21 - Webber Channel Main Inlet

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

21	
Reach Number:	
Special Permit Conditions (list): Hand Cauly only, droporty that wet exceed 0.03 ac	re,
Observation of Special Status Species: Wore Stevel	
Pre-Clearing Documentation	
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive prese estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos II 12; Ruduel and ornau IV egetaten in area Main Taiwed; days mot a problem.	nt & cover
Name of Biological Monitor: Stars Moul Date: August Post-Clearing Documentation	24,202
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, i arrows to indicate important features). Estimate amount of invasives removed. Photas 11,12; oak woolland and ormanatel Kegetation.	nclude
Compliance with Permit Conditions: Full Partial	
II partial compliance is apparent, describe circumstances:	
Problems or Recommendations (if more space is needed continue on the back of this form):	
Name of Biological Monitor: <u>I Tarne March</u> Date: Jamery	22,202

2020 MAINTENANCE METHODOLOGY PILOT PROJECT FINAL REPORT AND RECOMMENDATIONS

Soft-Bottom Channel Reach 24 (Compton Creek) & Reach 25 (Lower Los Angeles River)





Prepared by:

Los Angeles County Flood Control District County of Los Angeles Public Works 900 S. Fremont Avenue, Alhambra, CA 91803

December 2022

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- 3.2 MAINTENANCE COST AND DURATION
- 3.4 WATER QUALITY

4.0 RECOMMENDATION

5.0 NEXT STEP

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- Figure 2: Sampling Location for SBC Reach 25

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2020 MAINTENANCE METHODOLOGY PILOT PROJECT At Soft-Bottom Channel Reach 24 (Compton Creek) & Reach 25 (Lower Los Angeles River)

1.0 INTRODUCTION

The Los Angeles County Flood Control District (LACFCD) is responsible for providing flood protection to County residents through the maintenance of its network of flood channels. On an annual basis, adequate channel capacity is maintained by clearing vegetation and debris within the flood channels to reduce the risk of loss of life and/or property damages from flooding during large storm events. All soft-bottom channel (SBC) clearing activities typically begin after the bird nesting season, from September 1st through March 15, and are performed in accordance with all applicable environmental/regulatory permits. If vegetation clearing work is needed during the bird nesting season, a qualified biologist conducts nesting bird surveys (within 72 hours) prior to starting work. The biologist will identify and mark any nesting birds within the work area that are protected under the Migratory Bird Treaty Act and provide recommendations and modifications to the LACFCD maintenance procedures to protect and minimize disturbance of the nesting birds.

LACFCD, in cooperation with stakeholders, the Regional Water Quality Control Board, Los Angeles Region (Regional Board), and other regulatory agencies, continues its efforts to conduct the Maintenance Methodology Pilot Project (MMPP) at SBC Reaches 24 (Compton Creek) and 25 (Lower Los Angeles River). The intent of the study is to investigate alternative vegetation maintenance methodology which leaves more vegetation and root systems in the channel while maintaining the channel's designed flood flow capacity.

This MMPP was completed last year in the 2019-20 maintenance season. In this final report, LACFCD will discuss its observation of the 5-year MMPP and provide its maintenance recommendation whether to go back to the previous SBC reaches maintenance methodologies or implement the maintenance methodology used for the 5-year MMPP. LACFCD will continue to implement the MMPP for Reaches 24 and 25 until a proper flow capacity analysis is performed and reviewed.

2.0 BACKGROUND

2.1 SBC REACHES

SBC Reach 24 and Reach 25 are in the Los Angeles River (LAR) watershed. Both reaches were originally designed by the USACE. Based on the research of the State and/or Federal list of special status species and previous biological surveys, there were no sensitive species identified in these reaches.

These reaches were chosen for the 5-year pilot study since both facilities had adequate capacity to allow more vegetation.

SBC Reach 24 is 2.5 miles in length and extends from the 91 Freeway to the confluence of Los Angeles River in the City of Compton (see Figure 1).



Figure 1: SBC Reach 24 – Compton Creek

SBC Reach 25 is one-mile long and runs from Willow Street to Pacific Coast Highway in the City of Long Beach (see Figure 2: SBC Reach 25 - Lower Los Angeles River).



Figure 2: SBC Reach 25 - Lower Los Angeles River

2.2 VEGETATION MAINTENANCE

2.2.1 PAST VEGETATION MAINTENANCE

Past vegetation maintenance activities included the use of both hand and mechanical equipment. The heavy equipment used for vegetation and incidental sediment removal included super ten dump trucks, Rubber tired loaders, steel track D8 dozers, steel track loaders, mini excavators, and 2,000-gallon water trucks.

For the maintenance of SBC Reach 24, steel track dozers and loaders were used to scrape the surface and vegetation including its root system. To lessen erosion of the base of the reach, maintenance activities were modified to leave "tracked vegetation" in place. This maintenance method involved the use of heavy steel tracked equipment to flatten the vegetation and its root system in place. Invasive species, such as castor beans and Arundo were cleared by hand and excavators were used to remove the entire root system. All cuttings generated from the removal of the invasive vegetation were placed in tarps to ensure seedlings did not fall on the ground to further spread growth.

Past maintenance method for SBC Reach 25 included the use of steel track dozers and loaders to scrape the invert surface and vegetation including its root system of the reach. Invasive species, such as castor beans and Arundo were cleared by hand and excavators were used to remove the entire root system. All cuttings generated from the removal of the invasive vegetation were placed in tarps to ensure seedlings did not fall on the ground to further spread growth.

As part of LACFCD's standard practice for SBC clearing activities at these two non-sensitive channels reaches, a qualified biologist was on site or consulted prior to start of work to ensure proper removal of vegetation. Water Quality (WQ) was monitored in accordance with the Waste Discharge Requirements (WDR), Order No. 22 and Best Management Practices (BMPs) were implemented accordingly per WDR, Order No. 15. All the removed vegetation and incidental sediment were placed in dump trucks and properly transported to an approved off-site disposal/landfill facility.

2.2.2 MMPP VEGETATION MAINTENANCE

During the MMPP, LACFCD removed the vegetation in SBC Reaches 24 and 25 by mowing instead of scraping and/or tracking. The MMMP for SBC Reach 24 and 25 was started in the 2015-2016 maintenance season (first initiated on October 10, 2015, for reach 24 and September 21st, 2015, for reach 25) and continued for five years, ending on the maintenance season 2019-2020.

Smaller and less invasive equipment were used for the maintenance activities for the reaches. Equipment such as a rubber tracked Caterpillar 328 Excavator with

grapple, rubber tracked Caterpillar 308 Excavator with mower attachment, rubber tracked 287 or equivalent Caterpillar Skid Steer, rubber tire 621E Case Loader, and rubber tire 10 cubic yard dump trucks were used to mow vegetation and remove invasive. No steel track equipment was used during the MMPP.

The methodology implemented for both SBC Reach 24 and Reach 25 were essentially the same. Vegetation along the invert was mowed to approximately 8-12- inches above grade using a skid steer or a long reach excavator with an attached mower. The clippings were allowed to be left in place. The vegetation along the water line was mowed using a long reach excavator with attached flail mower and gently mowed the overgrowth back and away from the water line to prevent high turbidity readings. An excavator with flail mower was also used to mow vegetation on the side slope. All invasive species such as castor beans was removed by hand, while Arundo was removed using a long reach excavator with a grapple attachment. The excavator with grapple carefully pulled the Arundo root system out then placed the Arundo on tarps for proper containment and disposal using front loaders and 10 cubic yard dump trucks.

A qualified biologist was on site or consulted prior to mowing and to ensure proper removal of invasive vegetation. WQ was monitored and BMPs were implemented accordingly. Invasive vegetation and sediment were placed in dump trucks and properly transported to an approved disposal/landfill facility.

3.0 PILOT STUDY OBSERVATION

3.1 BIOLOGICAL ASSESSMENT

During the 5-year implementation of the MMPP at SBC Reaches 24 and 25, an annual increase in the native vegetation has been observed. It has also been noticed during the surveys that species preferring patches of bare ground with weedy/annual grass vegetation have reduced in numbers whereas species preferring denser, shrubbier vegetation appeared to be using these channels in greater numbers. Although point-transect data is not available, this general trend has been observed over the course of the 5-year study,

Of particular interest in the tidally influenced reach is the occurrence of species that are adapted to utilizing mudflat or mudflat-like habitats. The soil disturbance associated with the scraping action to remove vegetation in the traditional (previous) maintenance method appears to mimic natural scouring that occurs during flooding events. This clearing method leaves behind habitat conditions that are more like post-flood conditions. The ephemeral habitat conditions that follow flooding events or, in this case, traditional clearing activities, have been very productive for many species adapted to utilize resources with these ephemeral habitats. For example, the Los Angeles River Watershed Feasibility Study included pre- and post-clearing bird surveys of SBC Reach 24 in 2010. At that time, the traditional clearing method was employed and created a substantial

amount of mudflat-like habitat. The bird survey for SBC Reach 24's habitat, postmaintenance, was conducted on December 1, 2010 and identified a total of 26 species totaling 307 individual birds. Among the birds present included three shorebird species that prefer open mudflat-like habitats: killdeer (Charadrius vociferus), greater yellowlegs (Tringa melanoleuca), and Wilson's snipe (Gallinago delicate). This survey observed a total of 26 killdeers, 1 greater yellowlegs, and 22 Wilson's snipe. None of the shorebird species listed above were observed during the pre-maintenance survey of SBC Reach 24 conducted on September 15, 2010. Implementation of the alternative clearing methods is not expected to eliminate the use of SBC Reach 24 by these three species, but they may occur less frequently over time. General observations over the course of the study indicate this trend have been occurring to some degree.

Implementation of the MMPP's alternative maintenance method has likely contributed to an increased use of these two SBC reaches by other bird species, including land birds that require a higher density of shrubbier vegetation. The following four common species in the region are likely candidates for increased use of these two SBC reaches during the winter season if the alternative clearing methods become permanent: house wren (Troglodytes aedon), blue-gray gnatcatcher (Polioptila caerulea), hermit thrush (Catharus guttatus), and whitecrowned sparrow (Zonotrichia leucophrys). Two other common species in the region that would likely use these two SBC reaches more frequently during the winter and summer season are the bushtit (Psaltriparus minimus) and California towhee (Melozone crissalis). The mowing process left more vegetation and root system in place which promotes faster regrowth and a more robust habitat.

The shifting of the plant and wildlife composition of these two SBC reaches will likely continue and is expected to eventually stabilize if the pilot study's modified maintenance method is implemented on a permanent basis.

3.2 MAINTENANCE COST AND DURATION

During the 5-year MMPP for SBC Reaches 24 and 25, switching from scraping to mowing resulted in reduced amount of vegetation and incidental sediment getting removed from both reaches. During the methodology comparison, LACFCD has the following general observations and comments:

- 1) There was a slight decrease in the maintenance duration due to less vegetation to remove at both reaches
- 2) There was a decrease in the maintenance total cost as a result to the implementation of the MMPP's maintenance method for both reaches. The maintenance cost has been increasing due the use of in-house forces instead of contractors, and higher rental equipment, water, and disposal rates
3.3 WATER QUALITY

During the 5-Year MMPP, there were no discernible water quality changes that resulted from switching the maintenance methodology. Most effluent limit exceedances that were observed during the pilot study were related to: (1) presence of stagnant nutrient-rich ponded water due to the lack of constant water flow resulted in the increase in the turbidity detected in the WQ results when water sampling was performed; (2) additional inflow of water between upstream and midpoint locations; (3) bird feeding activities in close proximity to the sampling points; (4) natural variance in the reaches; and (5) tidal influence on SBC Reach 25 due to its close proximity to the Pacific Ocean.

4.0 **RECOMMENDATION**

LACFCD would like to hold its maintenance recommendation until proper flow capacity analysis can be performed for SBC Reaches 24 and 25. The analysis is needed to ensure that allowing more vegetation to remain in the reaches will not make the facilities inadequate when it comes to providing flood protection for the surrounding communities in the areas.

5.0 NEXT STEP

LACFCD will continue to implement the MMPP for Reaches 24 and 25 until a proper flow capacity analysis is performed and reviewed. At which time, LACFCD will provide its maintenance recommendation to the Regional Board. [Page Intentionally Left Blank]

2020 Maintenance Methodology Pilot Project

ATTACHMENT NO. 7

CURRENT WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATIONS, ORDER NO. RE-2018-0099, FILE NO. 99-011 and 15-038 [This page is intentionally left blank]





Los Angeles Regional Water Quality Control Board

July 31, 2018

Daniel J. Lafferty Assistant Deputy Director Los Angeles County Dept. of Public Works 900 S. Fremont Ave, Annex 2nd Floor Alhambra, CA 91803 VIA CERTIFIED MAIL RETURN RECEIPT REQESTED No. 7008 1140 0002 8672 0727

Dear Mr. Lafferty,

TRANSMITTAL OF THE WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION FOR LOS ANGELES COUNTY FLOOD CONTROL DISTRICT MAINTENANCE CLEARING OF ENGINEERED EARTH-BOTTOM CHANNELS FOR FLOOD CONTROL, LOS ANGELES COUNTY, ORDER No. R4-2018-0099 (FILE No. 99-011)

In accordance with the California Water Code, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board), at a public meeting held on July 12, 2018, reviewed the revised, tentative Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certification for the subject project, considered all factors in the case and adopted Order No. R4-2018-0099. Order No. R4-2018-0099 is issued to the Los Angeles County Flood Control District (LACFCD).

Order No. R4-2018-0099 (without attachments) is attached. Order No. R4-2018-0099 and all of its attachments may also be accessed on the Los Angeles Water Board's website at:

http://www.waterboards.ca.gov/losangeles/water_issues/programs/401_water_quality_c ertification/FloodControl.shtml

MADELYN GLICKFELD, CHAIR | DEBORAH J. SMITH, EXECUTIVE OFFICER

320 West 4th St., Suite 200, Los Angeles, CA 90013 | www.waterboards.ca.gov/losangeles

Should you have questions concerning Order No. R4-2018-0099, or to schedule a meeting with us, please contact Valerie CarrilloZara, P.G., at (213) 576-6759 or Dr. LB Nye at (213) 576-6785.

Sincerely,

Reme Purch

for Deborah J. Smith Executive Officer

Attachment: Final WDR

cc: [via email only]

Jennifer Fordyce, State Water Resources Control Board Elizabeth Payne, State Water Resources Control Board Nandini Moran, Los Angeles County Flood Control District Sree Kumar, Los Angeles County Flood Control District Dan Sharp, Los Angeles County Flood Control District Tracy J. Egoscue, Egoscue Law Group, Inc. Erinn Wilson, California Department of Fish and Wildlife Matt Chirdon, California Department of Fish and Wildlife Bonnie Rodgers, US Army Corps of Engineers Elizabeth Goldmann,, U.S. Environmental Protection Agency, Region 9





Los Angeles Regional Water Quality Control Board

ORDER NO. R4-2018-0099 WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION

C2231107/02/031 (005075) 500751 (050							
Effective Date:	July 12, 2018	Reg. Meas. ID:	401529				
		Place ID:	815900				
Program Type:	Fill/Excavation	WDID:	4WQC40199011				
		NWP	31				
		USACOE#:	SPL-2013-00723-BLR				
Project Type:	Channel Construction and	Maintenance ¹					
Project:	Maintenance Clearing of E	Engineered Earth-Bot	tom Channels for Flood				
	Control (Project)						
Annlicant	Los Angeles County Floor	Control District					
repricant.	Los Angeles County Ploot	Control District					
Applicant Contacts:	Mr. Sree Kumar, Asst. Der	nuty Director					
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¹ Project type is selected from a preset list of project types to allow for calculation of statewide summary statistics. While this project is most appropriately categorized as "Channel Construction and Maintenance," note that these waste discharge requirements (WDRs) and Clean Water Act section 401 water quality certification does not authorize any new channel construction.

MADELYN GLICKFELD, CHAIR | DEBORAH J. SMITH, EXECUTIVE OFFICER

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Attachment A	Master Maintenance Plan (June 2018)
Attachment B	Summary of Revisions to Maintenance Manual
Attachment C	Reporting Requirements
Attachment D	2016 Water Diversion Manual (Attachment D is Attachment H of the Master
	Maintenance Plan, included here as a separate document)
Attachment E	2016 Water Quality Monitoring Guide (Attachment E is Attachment G of the Master
	Maintenance Plan, included here as a separate document)

The California Regional Water Quality Control Board, Los Angeles Region (Los Angeles Water Board) finds that:

I. Order

This Order for Waste Discharge Requirements and Clean Water Act section 401 Certification (Order) is issued at the request of Los Angeles County Flood Control District (LACFCD) for the Project. This Order is for the purpose described in the application and supplemental information submitted by the LACFCD.

The application was received on March 21, 2018. On March 30, 2018, Los Angeles Water Board staff issued a notice of incomplete application and the LACFCD responded to the request for application information on April 10, 2018. The application was deemed complete on April 13, 2018.

II. Public Notice

The Los Angeles Water Board has notified the LACFCD and other interested agencies and persons of its intent to prescribe waste discharge requirements (WDRs) and issue a Clean Water Act Section 401 Water Quality Certification for this discharge and has provided an opportunity to submit comments. The Los Angeles Water Board provided public notice of the draft order pursuant to California Code of Regulations, title 23, section 3858 and Water Code section 13167.5. A tentative order was released for public comment on April 18, 2018. Written comments were accepted until 5:00 p.m. on May 18, 2018. The Los Angeles Water Board, in a public meeting on June 14, 2018, heard and considered all comments pertaining to this Order.

III. Project Purpose

The purpose of the Project is to maintain adequate capacity in engineered earth-bottom channels (also referred to as engineered soft-bottom channels), which are a critical part of the LACFCD's flood control facilities in order to reduce the risk of loss of life or property that could result from flooding during large storm events, while simultaneously protecting water quality and beneficial uses of these channels.

IV. Project Description and Background

a. General Background

- 1. LACFCD (Discharger) is responsible for providing flood control throughout Los Angeles County to enhance public safety. LACFCD is responsible for more than 2,700 square miles and approximately 2.1 million land parcels within 6 major watersheds. This includes flood control facilities consisting of 3,380 miles of underground storm drains; an estimated 173 debris basins; an estimated 82,000 catch basins; 14 major dams and reservoirs; and 483 miles of open channel including natural, earthen-bottom (i.e., concrete or riprap sides with a natural bottom that may support vegetation), and concrete channels.
- 2. In order to reduce the risk of loss of life or property that could result from flooding during large storm events, LACFCD conducts activities to maintain adequate capacity in flood control facilities. LACFCD is authorized to perform such maintenance pursuant to the Los Angeles County Flood Control Act (Water Code Appendix § 28-2).
- **3.** Many of the channels, basins and reservoirs maintained by LACFCD as flood control facilities are Waters of the United States (U.S.) and Waters of the State of California.

- 4. Maintaining the flood control system in Waters of the U.S. and Waters of the State of California requires discharge permits for these dredge and fill activities from the Army Corps of Engineers (ACOE), California Department of Fish and Wildlife (CDFW) and the Los Angeles Water Board. For dredge and fill activities such as channel clearing, the Clean Water Act (CWA) requires permitting from ACOE under CWA section 404 (404 permit) and Water Quality Certification by the State under CWA section 401 (401 Certification). In addition, under California Fish and Game Code section 1600, such activities are also regulated by a Streambed Alteration Agreement (SAA) issued by the CDFW.
- 5. WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of its flood control facilities are designed to allow maintenance of established flood control function through removal of recent accumulated sediment or vegetation and routine minor structural repairs. The WDRs and 401 Certifications do not allow for any alteration of channel design. WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of flood control facilities do not authorize additional hardscape, concrete, or rock in Waters of the U.S. and Waters of the State of California.
- 6. The Los Angeles Water Board regulates the following dredge and fill activities associated with LACFCD's maintenance of its flood control facilities: maintenance of 172 debris basins (File No. 02-144), maintenance of concrete channels (File No. 13-029), maintenance of earthenbottom channels (this WDR and 401 Certification), and individual project Water Quality Certifications for major repairs or renovations to flood control facilities and emergency projects.
- 7. LACFCD maintains 96 earthen-bottom channels through this WDR and 401 Certification. The 96 channels include a total of approximately 43 miles of waterways throughout Los Angeles County and approximately 1,276 acres of jurisdictional waters of the United States. The acreage authorized to be impacted by this Order is 734 acres.
- 8. Development of natural areas and redevelopment projects in Los Angeles County may alter or add to or subtract from the number of required flood control facilities and may alter the hydrology of waters. Plans and new goals for water use in Los Angeles County (as detailed in Findings 70-75) may contribute to changes in hydrology and the need for more or less flood control capacity and the need for altered or more or fewer flood control facilities. Through the requirements of WDRs and 401 Certifications issued by the Los Angeles Water Board to LACFCD for maintenance of its flood control facilities, the Los Angeles Water Board has taken into account changes of the nature described above, and will continue to do so where appropriate in its future permitting actions regarding LACFCD's maintenance of earthen-bottom channels.
- 9. LACFCD maintains flood control facilities to meet a number of different requirements, depending on when the flood control facility was built and which agency built it; in some cases, LACFCD must protect for a 100-year storm.
- 10. Many of the flood control channels maintained by LACFCD were built with federal funds and turned over to LACFCD for maintenance. As such, LACFCD is required to maintain the channel as designed and without debris and vegetative growth. In order to change a maintenance requirement, LACFCD must apply under section 14 of the Rivers and Harbors Act of 1899, codified at 33 U.S.C. section 408 (commonly referred to as "Section 408"), for modification of federally required maintenance requirements with the ACOE.

- 11. Post-Hurricane Katrina, the ACOE instituted Risk and Uncertainty analysis requirements for changes to federal flood control facilities. Alteration of federally-required maintenance may trigger the need for a ACOE Risk and Uncertainty analysis. A Risk and Uncertainty analysis is a statistical analysis that takes into account the uncertainty of the hydrology and hydraulics and related consequences.
- 12. LACFCD maintains levees in accordance with the Federal Emergency Management Agency (FEMA). FEMA administers the National Flood Insurance Program (NFIP). In order to obtain FEMA accreditation for the levees, LACFCD is required to demonstrate that maintenance of the levees will ensure their stability, height, and overall integrity in order to continue providing protection to the adjacent residents.
- 13. While FEMA accredits levees as meeting requirements set forth by the NFIP, the ACOE addresses operation and maintenance, risk management, and risk reduction levee needs as part of its responsibilities under the ACOE's Levee Safety Program. The ACOE inspects levees in Los Angeles County and may require risk reduction improvements to the levees by LACFCD.
- 14. LACFCD maintains various stations throughout the County to monitor flow and water quality. These stations consist of temporary and/or permanent houses with attached gauges, conduits, pumps, sensors, and probes typically placed in the invert of the channel. The houses may be mounted on bridges and/or other structures along several watercourses in the County. In order to obtain accurate data, the flow adjacent to the gauges, conduits, pumps, sensors, and probes must be laminar (i.e., non-turbulent). Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may need to be conducted during dry weather to ensure proper operation.
- **15.** During the storm season (October 15 to April 15), LACFCD personnel continually monitor flow conditions in channels and inspect facilities.
- 16. Urgent work conducted during and immediately after storm events is usually not routine maintenance, but instead, may be an emergency. Emergency is defined as, "a sudden, unexpected, occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. Emergency includes such occurrences as fire, flood, earthquake, or other soil or geologic movement, as well as such occurrences as riot, accident, or sabotage." Any project that is necessitated due to imminent threat to life or property is subject to ACOE Regional General Permit 63 (RGP 63) as certified by the State Water Resources Control Board (State Water Board) on November 25, 2013.
- 17. LACFCD has developed and complies with a Hazard Analysis and Critical Control Points (HACCP) for Malibu and Santa Monica Canyon watersheds to limit the spread of invasive New Zealand mudsnail and giant reed (*Arundo donax*), dated April 1, 2010.
- 18. LACFCD has developed and published watershed maps, which indicate types of vegetation present in the channel reaches and approximate schedules (including baseline biological surveys, post-surveys and maintenance activity descriptions). This information has been made publicly available on the LACFCD website since 2010. For each reach, the information includes: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area of proposed impact; and (d) a description of any existing aquatic resources (e.g.,

wetland/riparian vegetation based on readily available information and pre-clearing biological surveys).

19. Los Angeles County maintains a GIS Data Portal where LACFCD facilities information is available to the public in GIS (geographic information system) mapping format.

b. Regulatory Authorities

- **20.** The Project is located within the jurisdiction of the Los Angeles Water Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: <u>http://www.waterboards.ca.gov/plans_policies/</u>. The Basin Plan establishes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.
- 21. The State of California regulates most dredge and fill discharges through 401 Certifications and may also regulate such discharges through WDRs as authorized by the California Water Code (CWC). Pursuant to CWC section 13263, the Los Angeles Water Board is authorized to prescribe WDRs for any proposed or existing discharge unless WDRs are waived pursuant to Water Code section 13269.
- **22.** The Los Angeles Water Board has determined to regulate the subject discharge of dredge and fill materials into waters of the State by issuance of WDRs in this Order pursuant to CWC section 13263. The Los Angeles Water Board considers WDRs necessary to adequately control potential impacts to beneficial uses of waters of the U.S. and waters of the State from these maintenance activities, which primarily involve clearing, to meet the objectives of the California Wetlands Conservation Policy (Executive Order W-59-93) and to accommodate and require appropriate changes over the life of the project.
- 23. The goals of the California Wetlands Conservation Policy (Executive Order W-59-93, signed August 23, 1993) include ensuring "no overall loss" and achieving a "...long-term net gain in the quantity, quality, and permanence of wetland acreage and values..." Senate Concurrent Resolution No. 28 states that "[i]t is the intent of the legislature to preserve, protect, restore, and enhance California's wetlands and the multiple resources which depend on them for benefit of the people of the State." Section 13142.5 of the CWC requires that the "[h]ighest priority shall be given to improving or eliminating discharges that adversely affect...wetlands, estuaries, and other biologically sensitive areas."
- 24. CWC section 13263 authorizes the Los Angeles Water Board, after any necessary hearing, to prescribe requirements as to the nature of any proposed discharge with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The requirements must implement any relevant water quality control plans that have been adopted, and shall take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and the provisions of CWC section 13241. In accordance with subdivision (g) of section 13263, all discharges of waste into the waters of the State are privileges, not rights, and the WDRs in this Order shall not create a vested right to continue to discharge and are subject to rescission or modification.

- **25.** Pursuant to CWC section 13267, the Los Angeles Water Board, in establishing or reviewing any water quality control plan or waste discharge requirements, or in connection with any action relating to any plan or requirement authorized by Division 7 of the CWC, may investigate the quality of any waters of the state within its region. In conducting such an investigation, the Los Angeles Water Board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, shall furnish, under penalty of perjury, technical or monitoring program reports which the regional water board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. The WDRs contained in this Order incorporate requirements for water quality monitoring, and project reporting, which are necessary to ensure that the discharge of waste complies with WDRs and is protective of the environment.
- 26. The Los Angeles Water Board, on June 13, 1994, adopted, in accordance with section 13240 et seq. of the CWC, a revised Water Quality Control Plan for the Los Angeles Region (Basin Plan). This updated and consolidated revised Basin Plan was approved by the State Water Board and the Office of Administrative Law on November 17, 1994, and February 23, 1995, respectively. A summary of regulatory provisions is contained in California Code of Regulations, title 23, section 3930. The Basin Plan designates beneficial uses for surface and ground waters in Chapter 2, establishes water quality objectives that must be attained or maintained to protect the designated beneficial uses in Chapter 3, and sets forth implementation programs to attain the water quality objectives. The Basin Plan has been amended occasionally since 1994. This Order is in compliance with the Basin Plan, and amendments thereto.
- 27. The WDRs in this Order are adopted pursuant to CWC sections 13263 and 13267. It sets forth requirements, prohibitions, and other conditions to implement the Basin Plan, and LACFCD's responsibilities for monitoring and reporting. LACFCD is responsible for ensuring compliance with the WDRs.
- **28.** It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.

c. Regulatory History

- **29.** The Los Angeles County Flood Control Act (Act) was adopted by the California State Legislature in 1915. The Act established the Los Angeles County Flood Control District and empowers it to provide flood protection, water conservation, recreation and aesthetic enhancement within its boundaries. LACFCD is governed, as a separate entity, by the County of Los Angeles Board of Supervisors.
- **30.** In 1997, LACFCD proposed complete clearing of 100 earthen-bottom channels in anticipation of the El Niño storm season, encompassing a total of 886 acres. Of this acreage, approximately 203 acres were vegetated.
- **31.** LACFCD developed a Maintenance Plan for the Annual Clearing of Earth-Bottom Flood Control Channels in 1999 (1999 Maintenance Plan) in collaboration with the ACOE, CDFW (then California Department of Fish and Game (CDFG)) and the Los Angeles Water Board.

The 1999 Maintenance Plan has been published under later dates, but all versions of the Maintenance Plan define the scope of channel clearance by the 1997 pre-El Niño clearing levels.

- 32. The ACOE permitted LACFCD's vegetation and debris clearing maintenance activities under the CWA Section 404 Nationwide Permit 31 "Maintenance of Existing Flood Control Facilities" in 1998. The Los Angeles Water Board issued a CWA Section 401 Water Quality Certification for these activities in 1999 (File No. 99-011). Also in 1999, LACFCD and CDFW (then CDFG) entered into a Streambed Alteration Agreement, Memorandum of Understanding (MOU 5-076-99). When permitting these activities in 1998 and 1999, the ACOE and the Los Angeles Water Board developed the first programmatic permit and 401 Certification for the earth-bottom channel maintenance activities.
- **33.** The ACOE and the Los Angeles Water Board utilized clearing limits developed for the 1997 pre-El Niño clearing. However, the Los Angeles Water Board recognized the need to ultimately develop a more comprehensive plan beyond direct use of the 1997 clearing limits that would allow vegetation and the associated habitat to be preserved within these earthenbottom channels to the maximum extent feasible. At that time, the 404 permit and 401 Certification only authorized clearing activities in 48.2 acres of the approximately 203 vegetated acres.
- 34. To mitigate the 48.2 acres impacted by removal of vegetation, the Big Tujunga Wash Mitigation Area was established in accordance with the *Master Mitigation Plan for the Big Tujunga Wash Mitigation Bank* (Final Plan dated April 2000), which contains 62.7 acres (achieving a 1.3:1 mitigation ratio).
- **35.** The success criteria for the Big Tujunga Wash Mitigation Area have been met. Field data collection for the functional analysis and success monitoring studies was conducted in August 2012 and reported in the 2012 Annual Report for the Big Tujunga Wash Mitigation Area.
- **36.** LACFCD continues to maintain the Big Tujunga Wash Mitigation Area to ensure its long-term sustainability and that of the resident aquatic resources. The Big Tujunga Wash Mitigation Area's Long-Term Management Plan has been drafted but is not finalized. LACFCD is working with the CDFW to finalize the draft.
- **37.** The ACOE, after evaluation of updated information, has reissued the 404 permit under Nationwide Permit 31 for these channel maintenance activities by the LACFCD every five years since 1998. The Nationwide Permit was re-issued on May 11, 2018.
- **38.** The number of earth-bottom channel reaches authorized for maintenance under the ACOE 404 permit has changed during each permit cycle due to channels being combined, removed, or added. The ACOE divides channels into reaches that it considers to be sensitive and non-sensitive based on a Biological Opinion from the U.S. Fish and Wildlife Service. The ACOE normally incorporates special conditions such as avoidance of nesting seasons or hand clearing, for reaches it deems to be sensitive.
- 39. In 2003, the State Water Board issued Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges that have received State Water Quality Certification," which requires compliance with all conditions of Water Quality Certifications. The 2003 State Water Board Order included regulation of discharges from earthen-bottom channel maintenance.

- **40.** The 401 Certification was renewed by the Los Angeles Water Board on October 17, 2003, conditionally authorizing maintenance of 99 earthen-bottom channels. The Los Angeles Water Board extended the October 17, 2003 Water Quality Certification by letter on September 10, 2007 until March 15, 2008, and extended it by letter again on August 29, 2008 until January 31, 2009.
- **41.** On February 4, 2010, the Los Angeles Water Board issued WDRs (Order No. R4-2010-0021, 2010 WDRs) to the LACFCD. The 2010 WDRs included 10 new channel reaches authorized to be cleared in addition to the reaches included in the previous 401 Certification. The 2010 WDRs also acted as 401 Certification for those 10 reaches.
- **42.** As an outgrowth of the original Maintenance Plan development and the incomplete effort in 2008 to further develop an understanding of the hydrology and biological functions for each reach in order to reform and improve the required channel clearing and to make the basis transparent to the Los Angeles Water Board and the public, the 2010 WDRs required "Feasibility Studies" for each watershed, stating "...LACFCD shall implement the Feasibility Study process with a schedule of one or more watersheds per year to be analyzed, with completion of all watersheds/studies within six (6) years. LACFCD shall solicit input from stakeholders during Work Plan development and prior to the finalizing the Technical Assessment Report and recommendations..."
- **43.** The Feasibility Studies of the 2010 WDRs were to determine where a potential may exist for native vegetation to remain within the earth-bottom portion of the channel. The Feasibility Studies also required identification of any channels that could potentially provide restoration opportunities for riparian habitat.
- 44. The required analyses were split over multiple years to allow LACFCD flexibility in completing the required studies. The data and technical ability necessary to conduct the required analyses exists within LACFCD.
- **45.** LACFCD completed three Feasibility Study Workplans, including the Los Angeles River watershed (July 2010), the San Gabriel River watershed (January 2013) and the Malibu and Dominguez Channel (April 2014) watersheds prior to the expiration of the 2010 WDRs in 2015.
- **46.** LACFCD finalized the Los Angeles River Feasibility Study in August 2013 after public notice and a public meeting. Results of these analyses conducted during the Los Angeles River Feasibility Study were presented to stakeholders at a technical workshop on June 24, 2013.
- 47. On February 12, 2015, the Los Angeles Water Board renewed WDRs and 401 Certification for the discharges associated with channel clearing activities in Los Angeles County (2015 WDRs) by adopting Order No. R4-2015-0032. The term of the renewed 2015 WDRs was one year.
- **48.** Los Angeles Water Board direction to Los Angeles Water Board staff, upon issuance of the renewed 2015 WDRs, included:
 - i. Ensure transparency and clarity with regards to the use and results of LACFCD and ACOE hydraulic models to determine channel capacities and reaches where more vegetation can remain;

- **ii.** Facilitate greater involvement of interested non-governmental stakeholder groups in discussions and, where possible, crafting of recommendations, regarding channel clearing activities, particularly in the Los Angeles River in light of river restoration and revitalization efforts; and
- **iii.** Coordinate principles and discussions related to activities regulated under this WDR with other water resource management efforts such as efforts to increase stormwater retention, beneficial use protection and enhancement, and river restoration projects.
- **49.** Los Angeles Water Board staff and LACFCD staff initiated a series of in-depth discussions, referred to as "WDR Working Group Meetings," with interested stakeholder groups including Friends of the Los Angeles River, Arroyo Seco Foundation, Heal the Bay, The Nature Conservancy, Mountains Restoration Conservation Authority, San Fernando Valley Audubon, and Santa Clara Organization for Planning the Environment, which also included participation by ACOE, CDFW, and California Coastal Commission. Nine meetings were held between April 2, 2015 and December 15, 2015. Agendas, presentations, meeting notes and sign-in sheets are available at https://dpw.lacounty.gov/lacfcd/WDR/workgroup.aspx.
- **50.** During these WDR Working Group Meetings, the group prioritized its discussions and pilot efforts on the lower reaches of the Los Angeles River and:
 - i. Discussed and raised the level of understanding of hydraulic models used in Feasibility Studies;
 - **ii.** Reviewed the channel maintenance obligations of the LACFCD, including ACOE requirements for ACOE-built channels, levee safety requirements, and FEMA requirements;
 - Reviewed concerns of environmental and conservation organizations, including Friends of the Los Angeles River and Heal the Bay, especially pertaining to the lower Los Angeles River and Compton Creek;
 - iv. Discussed results of a new Risk and Uncertainty analysis required for ACOE-built channels, as applied to Reach 25 of the Los Angeles River As requested by stakeholders at the WDR Working Group Meetings, a reanalysis of the Los Angeles River was conducted by LACFCD. The results of this analysis and a discussion of the methodology used were provided at the WDR Working Group Meetings over several sessions. LACFCD also performed the ACOE's new Risk and Uncertainty analysis on Los Angeles River Reach 25 and results were provided at the WDR Working Group Meetings; and
 - v. Identified, and then reviewed, results of a pilot project employing an alternative clearing method of mowing instead of scraping to remove vegetation in the lower Los Angeles River (Reach 25) and Compton Creek.
- 51. In addition to the analyses conducted for the Los Angeles River Feasibility Study, and as part of the WDR Working Group Meetings held throughout 2015, the LACFCD conducted additional analyses on the reaches of the Los Angeles River and presented the preliminary results of this additional analysis to Los Angeles Water Board staff and stakeholders participating in the WDR Working Group. Of the 25 reaches in the Los Angeles River Watershed, the Los Angeles River Feasibility Study Report identified eight reaches where additional native vegetation or the replacement of non-native vegetation with native vegetation could occur. No change in current maintenance vegetation clearance practices was recommended for eleven reaches due to insufficient hydraulic capacity for additional vegetation. In six reaches, additional vegetation removal may be required.

- **52.** The lower reaches of the Los Angeles River were a priority for the WDR Working Group, however, because the engineered aspects of the lower reaches of the Los Angeles River were constructed by the ACOE, there are additional federal requirements that must be met before changing the characteristics of the channel, and therefore, the level of flood protection. LACFCD hired WEST Consultants to perform an evaluation of the lower reach of Los Angeles River (Reach 25) using the Army Corps of Engineers' Risk and Uncertainty analysis. A Risk and Uncertainty analysis is a statistical analysis that takes into account the uncertainty of the hydrology, hydraulics, and consequences. The preliminary results of this analysis show there is an 80% probability that the 133-year flood's water surface elevation would be below the as-constructed top of levee elevation in Los Angeles River Reach 25. The 133-year flood is the federal standard for this reach.
- **53.** As the ACOE continues to define the relatively new Risk and Uncertainty analysis requirements, LACFCD will look for opportunities to work with the ACOE and will be able to consider applying to the ACOE to modify channel clearing activities in this reach.
- **54.** On December 10, 2015, Los Angeles Water Board staff, joined by staff from the LACFCD, ACOE, Friends of the Los Angeles River, Heal the Bay and Santa Clara Organization for Planning and the Environment, presented an information item to the Los Angeles Water Board to report on the progress of the WDR Working Group Meetings.
- **55.** LACFCD finalized the San Gabriel River Feasibility Study in January 2016 after public notice. The San Gabriel River Feasibility Study was discussed at a WDR Working Group Meeting on February 12, 2016. All of the San Gabriel River maintained reaches are federally-built reaches and must be maintained to meet federal design standards. As such, the study concluded there was no opportunity to alter requirements without ACOE participation and likely the need for a Risk and Uncertainty analysis. Therefore, the consensus of the WDR Working Group was that further discussions at an additional public meeting was unnecessary.
- 56. On February 11, 2016, the Los Angeles Water Board amended the 2015 WDRs, Order No. R4-2015-0032 (Order No. R4-2015-0032-A1) for discharges associated with channel clearing activities in Los Angeles County (2016 WDRs). The amendment extended the WDRs for approximately two and a half years and continued the requirements for Feasibility Studies and WDR Working Group meetings. The term of the 2016 WDRs expired on July 20, 2018.
- 57. LACFCD and the Los Angeles Water Board staff continued the WDR Working Group meetings with interested stakeholder groups including Friends of the Los Angeles River, Arroyo Seco Foundation, Heal the Bay, and The Nature Conservancy, along with participation by CDFW. Nine more meetings were held between February 18, 2016 and July 20, 2017. Agendas, presentations, meeting notes and sign-in sheets are available at https://dpw.lacounty.gov/lacfcd/WDR/workgroup.aspx.
- 58. During these continued WDR Working Group Meetings, the group has:
 - i. Discussed the Feasibility Studies and reviewed reaches where there was potential for additional vegetation (where there was additional flood capacity) based on LACFCD recommendations for those reaches;
 - ii. Reviewed the maps LACFCD has made available to the public, including GIS layers of LACFCD facilities;
 - iii. Discussed water quality sampling required in the WDR relative to other monitoring in these channels;

- iv. Further discussed results of a pilot project employing an alternative clearing method of mowing instead of scraping to remove vegetation in the lower Los Angeles River (Reach 25) and Compton Creek (Reach 24);
- v. Reviewed pilot projects in Bull Creek (Reach 7) and Pickens Canyon (Reach 19) to let more native vegetation remain during clearing activities; and
- vi. On September 15, 2016, held a field meeting adjacent to Compton Creek to observe clearing activities, equipment used, and Best Management Practices implemented to minimize impact during the maintenance activities. Questions by staff from Friends of the Los Angeles River and Heal the Bay regarding habitat and water quality monitoring during these activities were addressed.
- **59.** LACFCD finalized the Malibu Creek and Dominguez Channel Feasibility Study in September 2016 after public notice and a public meeting on May 25, 2016.
- **60.** LACFCD finalized the Santa Clara River and Antelope Valley Feasibility Study in August 2017 after public notice and a public meeting on February 1, 2018.
- **61.** As of the finalization of the Santa Clara River and Antelope Valley Feasibility Study, all Feasibility Studies requirements are complete. A summary of all revisions for every reach is in Attachment B to this Order, Summary of Revisions to Maintenance Manual. Appropriate modifications to maintenance activities have been incorporated into the Master Maintenance Plan June 2018) included as Attachment A of this Order.
- 62. On March 21, 2018, the Los Angeles Water Board received the LACFCD's Report of Waste Discharge (ROWD), which served as application for reissuance of WDRs and 401 Certification for its maintenance activities, which primarily involve clearing, in earthen-bottom channels. The ROWD included a revised draft Master Maintenance Plan containing maps and the scope of work for each reach in one place. This Master Maintenance Plan incorporates revised scopes of work for previously authorized reaches, sensitive or non-sensitive status (per the U.S. Fish and Wildlife Service's Biological Opinion) and an updated list of reach numbers. This ROWD did not include previously authorized reaches 34, 74, 106 and 107. Reach 34 has been transferred to the City of Agora Hills. LACFCD does not have right-of-way for reaches 74, 106 and 107.

d. Earth-bottom Channel Watersheds and Stormwater Plans

- **63.** The reaches for which maintenance activities, which primarily involve clearing, are covered by this Order are located in the Los Angeles River watershed, San Gabriel River watershed, Santa Clara River watershed, Malibu Creek watershed, and Dominguez Channel watershed. Maps and latitude/longitude coordinates of all included reaches are in the Master Maintenance Plan included as Attachment A of this Order.
- **64.** The reaches for which maintenance activities, primarily clearing, are covered by this Order provide unique ecosystems and habitat for native vegetation and sensitive species.
- **65.** The Los Angeles River flows 51 miles from the western end of the San Fernando Valley to the Pacific Ocean at Long Beach and includes several major tributaries including Tujunga Wash, Burbank Western Channel, Arroyo Seco, Rio Hondo, and Compton Creek. The Los Angeles River watershed comprises an area of about 834 square miles. Of this area, the incorporated

cities and unincorporated portion of Los Angeles County comprise 599 square miles. The remaining watershed consists of the Angeles National Forest.

- **66.** The San Gabriel River watershed comprises a 682 square mile area of eastern Los Angeles County and has a main channel length of approximately 58 miles. It originates in the San Gabriel Mountains and flows through heavily developed areas before emptying into the Pacific Ocean in Long Beach. The main tributaries of the river are Walnut Creek, San Jose Creek, and Coyote Creek. In the middle of the watershed are large spreading grounds used for groundwater recharge. The watershed is hydraulically connected to the Los Angeles River through the Whittier Narrows Reservoir (occurring mostly during high storm flows).
- **67.** The Santa Clara River is approximately 100 miles long and the watershed comprises approximately 1,200 square miles. The river originates on the northern slope of the San Gabriel Mountains in Los Angeles County, traverses Ventura County, and flows into the Pacific Ocean halfway between the cities of San Buenaventura and Oxnard. Large tributaries include Sespe, Piru and Santa Paula Creeks and a lagoon exists at the mouth of the river. Land use is predominately open space with concentrations of residential, agriculture, and some industrial uses along the mainstem of the river. The Santa Clara River is the largest river system in southern California that remains in a relatively natural state; this is a high quality natural resource for much of its length.
- **68.** The Malibu Creek watershed comprises 109 square miles. The watershed extends from the Santa Monica Mountains and adjacent Simi Hills to the Pacific Coast at Santa Monica Bay. Several creeks and lakes occur in the upper portions of the watershed, and these ultimately drain into Malibu Creek at the downstream end of the watershed. Malibu Creek drains into Malibu Lagoon, a 13-acre tidal lagoon.
- **69.** The Dominguez Channel watershed is 133 square miles. This watershed includes the Los Angeles and Long Beach Harbors. The Dominguez Channel is 15 miles long. The watershed also includes Wilmington Drain, which empties into Machado Lake and other drainages, which drain directly or indirectly to the Los Angeles and Long Beach Harbors. Ninety-one percent of land in the watershed is developed.
- **70.** There are a number of important Stormwater Management Plans and river plans that will shape the future of stormwater management in Los Angeles County. These Stormwater Management Plans, as implemented, may affect the volumes of stormwater that reach rivers and streams.
- 71. Two potentially significant drivers in terms of shaping the future of stormwater management are the 2006 Greater Los Angeles County Region, Integrated Regional Water Management Plan (GLAC IRWMP), which was updated in 2014, and the Watershed Management Programs (WMPs) and Enhanced Watershed Management Programs (EWMPs) developed under the Los Angeles County and City of Long Beach Municipal Separate Storm Sewer System (MS4) permits. The GLAC IRWMP is significant because it is very comprehensive and includes broad targets although it does not commit to specific projects. The EWMPs and WMPs are significant because they include specific projects with timelines or plans to develop specific projects with timelines. Considered as a group, the EWMPs and WMPs are comprehensive. The EWMPs and WMPs have generally been coordinated with the IRWMP.

- 72. The "Los Angeles Basin Study The Future of Stormwater Conservation," Bureau of Reclamation, November 2016 (Basin Study) may become a significant driver of change to stormwater management depending on its implementation.
- **73.** The Lower LA River Revitalization Plan, per California State Assembly Bill 530 (2015), has identified specific project opportunities, a Community Stabilization Toolkit for river-adjacent communities, and a Watershed Education Program focused on the lower Los Angeles River.
- 74. LACFCD and Los Angeles County Public Works have initiated an effort to update the 1996 Los Angeles River Master Plan. The Los Angeles River Master Plan efforts will be led by the Los Angeles County Public Works and will include architect/design firms OLIN and Gehry Partners, and the nonprofit River LA. River LA will lead the community engagement and outreach.
- **75.** The Stormwater Management Plans and the river plans are the drivers of change in Los Angeles County. The WDRs in this Order will respond to and reflect changes due to the implemented Stormwater Management Plans, as necessary.

V. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1, below. These are not new or additional impacts but an accounting of areas which have been, and continue to be, impacted by yearly clearing. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Pro	ject Fill/E	xcavatio	n Quanti	ty					
				Permanent Impact					
Aquatic Resource Type	Temporary Impact ²		Physical Loss of Area			Degradation of Ecological Condition Only			
	Acres	CY ³	miles	Acres	CY	LF	Acres	CY	LF
Stream Channel							734		

VI. Avoidance and Minimization

LACFCD conducted Feasibility Studies for the reaches in the Los Angeles River, San Gabriel River, Malibu Creek, Dominguez Channel, Antelope Valley, and Santa Clara River between 2013 and 2018 including every reach covered in this Order. The Feasibility Studies addressed capacity requirements for flood control; design criteria and anticipated limitations; and included an analysis of potential areas where vegetation could remain; areas with the potential for restoration of native vegetation; and/or where justification existed to clear additional vegetated area.

The Feasibility Studies also include an assessment of the biological functions and values for each reach and an assessment of water quality and consideration of whether the vegetation in the channel is native or an exotic and/or invasive species.

² Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

³ Cubic Yards (CY); Linear Feet (LF)

Based on these analyses, LACFCD was able to minimize impacts while achieving the required flood control. A summary of all revisions for every reach is in Attachment B to this Order, Summary of Revisions to Maintenance Manual.

VII. Antidegradation Policies and California Environmental Quality Act (CEQA)

- a. CEQA. The Los Angeles Water Board finds that the Project is exempt from CEQA pursuant to California Code of Regulations, title 14, section 15061(b)(2). Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations, title 14, section 15301 (Existing Facilities). Additionally, the Los Angeles Water Board concludes that no exceptions to the CEQA exemption apply to the activities approved by this Order.
- b. Antidegradation Policies. Federal regulation 40 C.F.R. section 131.12 requires that state water quality standards include an antidegradation policy consistent with the federal antidegradation policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16 ("Statement of Policy with Respect to Maintaining the Quality of the Waters of the State"). Resolution No. 68-16 is deemed to incorporate the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. The activities and discharges permitted by this Order are consistent with the antidegradation provisions of 40 C.F.R. section 131.12 and State Water Board Resolution No. 68-16. This Order includes discharge prohibitions, best management practices, monitoring requirements, and other conditions on the permitted activities and discharges to ensure that water quality standards are achieved and that beneficial uses are protected. Compliance with the requirements of this Order will ensure that the permitted activities and discharges will not cause degradation.

VIII. Petition for Reconsideration and/or Review to the State Water Board

Any person aggrieved by the 401 Certification in this Order may petition the State Water Board to reconsider the 401 Certification in accordance with California Code of Regulations, title 23, section 3867. Any person aggrieved by the WDRs in this Order may petition the State Water Board to review the WDRs in accordance with California Water Code section 13320 and California Code of Regulations, Title 23, sections 2050 and following. A petition for reconsideration and/or review must be submitted in writing. The State Water Board must *receive* the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found at http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

IX. Fees Received

An application fee of \$1,500 was received on April 13, 2018. An additional fee of \$128,500 based on total Project impacts identified in Table 1 was received on June 8, 2018. The fee amount was determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as category A - Fill & Excavation Discharges (fee code 84) with the dredge and fill fee calculator.

IT IS HEREBY ORDERED that the Los Angeles County Flood Control District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following requirements, pursuant to authority under California Water Code sections 13263 and 13267.

X. Permitted Activities

a. Vegetation and Sediment Clearing

- Conduct maintenance of 96 earthen-bottom channel reaches in accordance with the 2018 Maintenance Plan. The Master Maintenance Plan is consistent with the Preliminary Jurisdictional Delineation Report prepared by LACFCD dated September 4, 2014. The Master Maintenance Plan includes the hydrologic code, beneficial uses, length, acreage, maps and maintenance methods for each reach.⁴
- 2. Conduct annual sediment and vegetation removal as authorized per the Master Maintenance Plan and per the schedule the LACFCD issues (Section XII, b. Reporting and Notification Requirements). Channel clearing shall not exceed the boundaries included for each reach in the Master Maintenance Plan as approved by the Los Angeles Water Board by this Order. Other changes to the Master Maintenance Plan shall be approved by the Executive Officer of the Los Angeles Water Board and other appropriate agencies including the ACOE and CDFW.
- **3.** Conduct routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment during dry weather as needed to ensure proper operation. Conduct periodic sediment and vegetation removal as authorized on an as-needed basis to provide continuous flow for water quality monitoring equipment.
- 4. Conduct periodic sediment and vegetation removal as authorized, on an as-needed basis, to ensure proper drainage to address vector issues.
- 5. In areas where there are sensitive species and native vegetation, clearing shall take place by hand as specified in the Master Maintenance Plan in order to selectively avoid protected resources. In other areas, clearing may be conducted with heavy equipment, including trucks, bulldozers, dump trucks, and front-end loaders, along with other specialized equipment. Equipment shall access the channels by existing access roads or by designated access paths.

b. Maintenance of Existing Invert Access Ramps

1. Conduct authorized maintenance activities for invert access ramps, which are critical structures for access to earthen-bottom channel reaches whether constructed with dirt, lined with concrete, or armored with riprap on the sides. Authorized maintenance activities include inspection, minor maintenance repairs, and storm damage repair and rehabilitation. Storm damage repair and rehabilitation includes restoring ramps that are damaged or washed out during a storm, back to pre-storm conditions.

⁴ While included in the Master Maintenance Plan, channel reaches identified as County Reach numbers 112–121 are not regulated by this Order. Any required maintenance in these channels will be permitted or certified by the Los Angeles Water Board separately.

c. Outlets, minor repairs and equipment maintenance

- 1. Notching and limited vegetation removal from drain channel outlets is authorized on reaches where mechanical removal of sediment and vegetation is allowed and it is consistent with the original channel designs. In stream reaches where mowing or hand removal of vegetation is required, work on installing notches at 45 degrees and clearing drain channel outlets is authorized to be conducted by hand and/or hand tools, and shall be consistent with all terms of the Master Maintenance Plan.
- 2. Conduct non-emergency minor repairs, which may include the following: regrading inverts to repair minor erosion and to remove ponded water; repair of minor storm damage; and in-kind structural repairs. These repairs may include, but are not limited to, minor in-kind riprap replacement, flap gate repair and/or replacement, invert and slope repairs, and erosion control structures.
- **3.** Conduct urgent work that is small in scope and conducted during and immediately after storm events.
- 4. Conduct maintenance of monitoring equipment. In order to obtain accurate flow readings from all monitoring equipment mounted on bridges and/or other structures and prevent equipment damage, vegetation within monitored channels may be cleared to bank-full capacity upstream and downstream of the gauges, conduits, pumps, sensors, and probes or bridge. In addition, maintenance may include performing repair and in-kind replacement of existing monitoring equipment if inspections determine that such activities are required. Stream gauge maintenance shall occur between September 1 and March 15. Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may be conducted, if needed, during dry weather to ensure proper operation.

XI. Prohibitions

- **a.** Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment shall not result in a discharge or a threatened discharge to waters of the State. At no time shall LACFCD use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
- **b.** No construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards shall be located in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity and storage of the materials shall be confined to these areas.
- **c.** The discharge shall not: a) degrade surface water communities and populations including vertebrate, invertebrate, and plant species beyond the permitted vegetation removal; b) promote the breeding of mosquitoes, gnats, black flies, midges, or other pests; c) alter the color, create visual contrast with the natural appearance, or cause aesthetically undesirable discoloration of the receiving waters; d) cause formation of sludge deposits; or e) adversely affect any designated beneficial uses.

d. This Order does not authorize application of pesticides. Any such application that may be necessary as part of the maintenance activities authorized by this Order must be separately permitted through the appropriate statewide general pesticide application permit.

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, LACFCD may proceed with the Project under the following conditions and requirements:

a. Authorization

Impacts to waters of the State shall not exceed quantities shown in Section V. Table 1. Impacts to individual reaches shall not exceed the limits specified in Attachment A to this Order, MasterMaintenance Plan.

b. Reporting and Notification Requirements

1. All Reports and Notifications

- i. Requirements for the content of these reporting and notification types are detailed in Attachment C, Reporting Requirements, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by LACFCD or an authorized representative as indicated in subpart iii., below.
- **ii.** Each and any report submitted in accordance with this Order shall contain the following completed declaration;

"I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the	day of	at	7
	(Signature)		
	(Title)"		

- iii. All applications, reports, or information submitted to the Los Angeles Water Board shall be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. A duly authorized representative may sign documents if:
 - A. The authorization is made in writing by an authorized person;
 - B. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity; and

- C. The written authorization is submitted to the Los Angeles Water Board Staff Contact prior to submitting any documents.
- iv. All communications regarding this project and submitted to the Los Angeles Water Board shall identify the Project File Number 99-011 2018 WDR. Submittals shall be sent to the Executive Officer where identified and to the 401 Certification Unit, Attention: Valerie Carrillo Zara.

2. Project Reporting

- Annual Workplan and Thresholds for Additional Review. Pursuant to California i. Water Code section 13267, LACFCD shall submit an Annual Workplan with a schedule of the upcoming reaches proposed for maintenance clearing. The Annual Workplan shall include, at a minimum, the following information: (a) proposed schedule; (b) acreage of areas to be impacted (vegetated and non-vegetated); (c) a description of any existing aquatic resources; (d) site-specific best management practices (BMPs) to be implemented; and (e) proposed application of pesticides. If LACFCD, or other County agency in support of LACFCD, plans to use any pesticide in these reaches, LACFCD shall also specify the pesticide permit (i.e. Vector Control or Weed Control) and submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan with the Annual Workplan. LACFCD shall send the Annual Workplan not later than August 1 of each year to the Los Angeles Water Board Executive Officer and 401 Certification Unit staff, and send notices of additional routine maintenance work as the needs are discovered in the field. The Executive Officer may require additional time to review or add additional requirements or require separate permitting for certain activities proposed upon review of the Annual Workplan or notice of additional routine maintenance work; however, if the Executive Officer does not provide any comments, additional requirements or a request for additional time within 30 days for the Annual Workplan, or 15 days for the notice of additional routine maintenance work, LACFCD is authorized to proceed pursuant to the Annual Workplan or notice of additional routine maintenance work as proposed.
 - **A.** Routine maintenance may require additional review if the work exceeds certain thresholds of impact as defined below. For projects that exceed the following thresholds, LACFCD shall provide information similar to a pre-construction notification for a 401 Water Quality Certification for 60-day review.

B. Project Exceeds Original Footprint

For any work resulting in temporary or permanent impacts within the ordinary high water mark outside the currently permitted project boundaries, LACFCD shall submit a new proposed scope of work to the Los Angeles Water Board Executive Officer with all pertinent information for consideration to support either confirmation that the project area(s) is within the scope of this Order or a determination that LACFCD must apply for supplemental WDRs or a separate CWA Section 401 Water Quality Certification for the work.

C. Project Deviates from the Pre-Approved Surface Water Diversion Plan

If a water diversion is planned to occur in a manner which deviates from the Pre-Approved Water Diversion Plan, LACFCD shall submit the new plan to the Los Angeles Water Board Executive Officer for review and approval. The Executive Officer is authorized to approve changes to the Surface Water Diversion Plan provided that it is consistent with this Order.

- **ii. Schedules.** Prior to any maintenance activities within the subject reaches, LACFCD shall publish approximate schedules (including baseline biological surveys and maintenance activity descriptions). This information shall be made publicly available on the LACFCD website and via email notification or other direct notification to watershed councils and other interested persons prior to any routine maintenance activities. For each reach, the information shall include: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area_of proposed impact; and (d) a description of any existing aquatic resources (e.g., wetland/riparian vegetation based on readily available information and pre-clearing biological surveys).
- iii. Annual Reports. To demonstrate compliance with this Order, pursuant to CWC section 13267, LACFCD shall submit to the Los Angeles Water Board Executive Officer an Annual Project and Mitigation Monitoring Report (Annual Report) by May 1st of each year for each year this Order is in effect. Any revisions to the previous Annual Reporting outline and/or technical or field checklists shall be submitted to the Executive Officer for approval within 60 days of the issuance of this Order.

After submission to the Los Angeles Water Board Executive Officer, LACFCD will post the Annual Report to the LACFCD website.

The Annual Report shall describe in detail all of the project/maintenance activities performed during the previous year and all restoration and mitigation efforts. At a minimum, the Annual Reports shall include the following documentation, as set forth in the Annual Report Outline dated April 5, 2010:

- A. Annual Report Summary
- **B.** List of attached documentation
- C. Description of all project/maintenance activities performed during the previous year
- **D.** Discussion of all restoration efforts and continued maintenance of the Big Tujunga mitigation site
- **E.** Status of other agreements (e.g., ACOE permits or CDFW SAAs)
- **F.** Status of review of hydraulic analyses or new hydraulic analyses for reaches 28, 67, 69, 70, 75, 90, 100, and 110
- G. Summary of compliance with all requirements of this Order
- **H.** A certified statement (Declaration) from LACFCD that all information reported in the annual report is complete and accurate
- I. Documentation/Attachments
 - Color photo documentation (pre-, during, and post-project site conditions)

• Narrative and photo documentation of any BMP installations during and postproject maintenance activities

• Evaluation of the effectiveness of BMPs utilized based on field observations and water quality monitoring data required

• Photo documentation of any vegetation left within maintenance areas immediately following maintenance clearing (including acreage)

• Documentation of estimates of volumes of vegetation removed from the project areas including an analysis of inter-annual trends in vegetation loads

• Documentation of estimates of volumes of trash removed from the project areas including an analysis of inter-annual trends in trash loads

• Documentation of estimates of volumes of sediment removed from the project areas including an analysis of inter-annual trends in sediment loads

• Biological information including baseline biological surveys and post-project surveys

- The overall status of the project including a detailed schedule of work
- Copies of all revised permits related to this project
- All water quality monitoring results by reach in a tabular format containing results of each parameter for each channel reach
- A certified statement of "No Net Loss" of Wetlands Associated with this project
- Discussion of all monitoring activities and exotic plant control efforts
- Description of all outreach activities in the previous year
- iv. Conditional Notifications and Reports for Accidental Discharges of Hazardous Materials⁵: The following notifications and reports are required for Accidental Discharges of Hazardous Materials:

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- A. As soon as (a) LACFCD has knowledge of the discharge or noncompliance, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures then LACFCD shall:
 - 1) first call 911 (to notify local response agency)
 - then call Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - 3) Lastly follow the required OES procedures as set forth in: <u>http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill_Booklet_Feb2014_FINAL_BW_Acc.pdf</u>
- **B.** Following notification to OES, LACFCD shall notify the Los Angeles Water Board, as soon as practicable (within 24 hours if feasible). Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.
- **C.** Within five (5) working days of notification to the Los Angeles Water Board, LACFCD must submit an Accidental Discharge of Hazardous Material Report to the Los Angeles Water Board.
- v. Violation of Compliance with Water Quality Standards: LACFCD shall notify the Los Angeles Water Board within 24 hours of any event causing noncompliance with water quality standards. Notification may be via telephone, e-mail, delivered written notice, or other verifiable means.

⁵ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- **A.** Examples of noncompliance events include: lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the State, and water contact with uncured concrete.
- **B.** This notification must be followed within three (3) working days by submission of a written report to the Los Angeles Water Board describing the noncompliance and actions taken to correct the condition.
- vi. Modifications to Project. Project modifications may require an amendment to this Order. LACFCD shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. LACFCD shall inform Los Angeles Water Board staff of any Project modifications that will interfere with LACFCD's compliance with this Order.

c. Pilot Projects

- 1. Continuing LACFCD's efforts begun in 2015, LACFCD may identify pilot projects to investigate alternative vegetation management methods that may be more protective of beneficial uses, especially wildlife and habitat uses. Examples of pilot projects may include but are not limited to: mowing as opposed to scraping for vegetation clearing; clearing just one bank of a particular reach each year; replacing an invasive plant species such as *Arundo donax* with slower-growing native species; exploring different combinations of plant species in a given reach; or study and review of land use in the vicinity of a reach to determine if a level of infrequent flooding could be tolerated.
- 2. LACFCD shall explore pilot projects to investigate alternative vegetation management methods after consultation with the Los Angeles Water Board Executive Officer, ACOE, and stakeholders.
- 3. LACFCD shall include any pilot projects in the Annual Workplan.
- 4. For any pilot project conducted, LACFCD shall evaluate the project in terms of: a) ecological impact, impact to beneficial uses, and impact to local communities; b) positive or negative effects on downstream water quality; c) identification of conditions or requirements in permits or other requirements that would need to be modified for the pilot project to be required as routine maintenance; and d) impacts to LACFCD operations in terms of costs, schedule, resources, etc. LACFCD shall provide a technical report evaluating the pilot project within six months of completion of the pilot project with interim recommendations or, when possible, final recommendations.
- 5. With Los Angeles Water Board Executive Officer approval, and subject to approval by other agencies including ACOE and CDFW, as necessary, LACFCD shall implement new channel maintenance practices based on the outcomes of the pilot projects during term of this Order, as feasible.

d. Continued Avoidance and Minimization

1. LACFCD shall continue to assess and review, as appropriate, the hydraulic capacity and existing conditions of all reaches covered by this Order to identify any channels which may

potentially provide restoration opportunities for riparian habitat/vegetation growth and support modifications to channel clearing activities to achieve greater levels of avoidance and minimization.

- 2. For the reaches identified by the Feasibility Studies as not meeting required flood capacity requirements where additional vegetation may be removed (reaches 28, 67, 69, 70, 75, 90, 100, and 110), LACFCD shall review hydraulic analyses or conduct new hydraulic analyses to identify possible methods to minimize additional potential impacts in those reaches and report results to the Los Angeles Water Board. The Master Maintenance Manual may be updated in the future with reductions to allowed impact.
- 3. If LACFCD identifies a revised channel clearing or restoration opportunity based on changes to the contributing drainage area or other significant change since completion of the applicable feasibility study, LACFCD shall submit any identified channel clearing or restoration opportunity recommendations to the Los Angeles Water Board Executive Officer. Recommendations shall also include suggested schedules of vegetation removal frequency in order to ensure the maximum habitat preservation is achieved, consistent with necessary flood control. For recommendations approved by the Executive Officer and by other appropriate regulatory agencies including the ACOE and CDFW, LACFCD shall make the necessary changes to the Master Maintenance Plan, including proposals for additional BMPs as may be appropriate.
- 4. LACFCD shall conduct Risk and Uncertainty analyses or other appropriate analyses, working with the ACOE, as warranted, in order to identify those reaches with federally required maintenance requirements that may be candidates for revised maintenance procedures that would allow more vegetation to remain in the channel, or that would allow alternative channel clearing approaches/methods potentially more protective of beneficial uses. LACFCD may apply under section 14 of the Rivers and Harbors Act of 1899, codified at 33 U.S.C. section 408 (commonly referred to as "Section 408"), or may pursue alternative approaches as determined by the ACOE for modification of federally required maintenance requirements with the ACOE, if appropriate.

e. Continued Outreach to stakeholders

LACFCD shall continue the meaningful dialogue with interested stakeholders started under the WDR Working Group through long-term planning efforts, such as Lower Los Angeles River Revitalization Plan and Los Angeles River Master Plan Update. LACFCD will host stakeholder meetings on an as-needed basis when there are topics/issues related to the earth-bottom channels' maintenance.

f. Water Quality Monitoring

1. Water quality shall be monitored in compliance with the *Water Quality Monitoring Guide* for Maintenance and Repair Projects Involving Water Diversion, April 2016 (Water Quality Guide) in Attachment D.

The Water Quality Guide requires upstream and downstream monitoring when surface flows are present for the following constituents:

- pH
- temperature
- dissolved oxygen

turbidity

• total suspended solids (TSS)

Analyses must be performed using approved U.S. Environmental Protection Agency methods, where applicable. These constituents shall be measured at least once prior to diversion and then monitored on a daily basis during the first week of diversion and/or dewatering activities, and then on a weekly basis, thereafter, until the in-stream work is complete.

LACFCD shall submit results of the analyses as part of the Annual Report to the Los Angeles Water Board in a tabular format containing results of each parameter for each channel reach. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

2. LACFCD shall visually inspect the reaches after maintenance during the rainy season to ensure excessive erosion, stream instability, or other water quality pollution is not occurring in or downstream of the Project site. If water quality pollution is occurring, LACFCD shall contact the Los Angeles Water Board staff within three (3) working days. The Los Angeles Water Board may require the submission of a Violation of Compliance with Water Quality Standards Report. Additional permits may be required to carry out any necessary site remediation.

g. Standard

- 1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, sections 2050-2068 and sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to LACFCD, if the Los Angeles Water Board determines that: the Project fails to comply with any of the requirements or conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
- 2. This Order is not intended and shall not be construed to apply to 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 subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- **3.** This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by LACFCD.
- 4. In the event of any violation or threatened violation of the requirements or conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties,

process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the applicability of any state law authorizing remedies, penalties, processes, 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 Order.

h. General Compliance and Enforcement

- 1. Failure to comply with any requirement or condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. LACFCD may then be subject to administrative and/or civil liability pursuant to Water Code sections 13268, 13350, or 13385.
- 2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses, for receiving waters as adopted by the Los Angeles Water Board or State Water Board (collectively Water Boards) in any applicable water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
- **3.** In response to a suspected violation of any requirement or condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provide that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
- 4. LACFCD or their agents shall report any noncompliance with this Order. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time LACFCD becomes aware of the circumstances. A written submission shall also be provided within three days of the time LACFCD becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- 5. In response to any violation of the requirements or conditions of this Order, the State Water Board or Los Angeles Water Board may add to or modify the requirements or conditions of this Order as appropriate to ensure compliance.
- **6.** After notice and opportunity for a hearing, this Order may be modified, revoked and reissued, or terminated or modified for cause, including, but not limited to:
 - i. Failure to comply with any term or condition contained in this Order;
 - ii. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;
 - A change in any condition or acquisition of newly-obtained information that would have justified the application of different terms or conditions if known at the time of Order adoption;

- iv. Endangerment to human health or the environment resulting from the permitted activity.
- 7. LACFCD must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order and all subsequent submittals required as part of this Order. However, the requirements and conditions within this Order and Attachments supersede any conflicting provisions within LACFCD submittals.
- 8. This Order and all of its conditions and requirements contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.

i. Administrative

- 1. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & Game Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act authorized under this Order held by LACFCD, LACFCD must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. LACFCD is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.
- 2. LACFCD shall grant Los Angeles Water Board and State Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - i. Enter the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - ii. Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - **iii.** Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - iv. Sample or monitor for the purposes of assuring Order compliance.
- **3.** A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall be available at the Project sites during clearing activities. LACFCD shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
- **4.** A copy of this Order must be available at the Project site(s) during maintenance activities for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its location at the Project site.
- 5. LACFCD shall submit copies of any other final permits and agreements required for this project, including, but not limited to, the ACOE CWA Section 404 permit and the CDFW's Streambed Alteration Agreement to the Los Angeles Water Board 401 Certification Unit. These documents shall be submitted prior to any discharge to waters of the State.

j. Mitigation for Temporary Impacts

1. LACFCD shall restore all areas of temporary impacts to waters of the State and all other areas of temporary disturbance outside of areas of maintenance, which could result in a discharge or a threatened discharge to waters of the State. Restoration shall include returning areas to preproject contours and planting with native vegetation, if feasible.

k. Compensatory Mitigation for Permanent Impacts⁶

1. To mitigate the 48.2 acres impacted by removal of vegetation, LACFCD established the Big Tujunga Wash Mitigation Area in accordance with the *Master Mitigation Plan for the Big Tujunga Wash Mitigation Bank* (Final Plan dated April 2000), which contains 62.7 acres (achieving a 1.3:1 mitigation ratio) (Table 2).

Table 2: Required Project Compensatory Mitigation Quantity				
Aquatic Resource Type	Comp Mit. Type ⁷	Rehabilitation ⁸		
Stream Channel	Permittee Responsible	62.7 acres		

2. LACFCD shall continue to maintain the 62.7-acre Big Tujunga Wash Mitigation Area to ensure its long-term sustainability and that of the resident aquatic resources.

I. Best Management Practices

- 1. All appropriate Best Management Practices (BMPs) shall be implemented in order to avoid any impacts to water quality. LACFCD shall follow the "BMP Manual for Soft Bottom Clearing" developed by LACFCD in 2003 and all other necessary BMPs. The maintenance clearing activities shall not result in indirect impacts to water quality or beneficial uses of downstream waterbodies. The maintenance clearing activities shall not result in changes in the quantity or quality of water in downstream waterbodies as a result of maintenance activity, or during operation subsequent to the maintenance activities. The maintenance clearing activities shall not result in changes in water quality in the channel that would cause or contribute to water quality exceedances during periods between maintenance activities, or upon their annual completion.
- 2. LACFCD shall comply with the specifications of its Master Maintenance Plan, or any subsequently approved plans that follow.
- **3.** LACFCD shall implement the Plan for Hazard Analysis and Critical Control Points dated April 1, 2010 (HACCP) in all reaches in the Malibu and Santa Monica watersheds or any subsequently Executive Officer-approved HACCP to limit the spread of invasive species.
- 4. LACFCD shall comply with all water quality objectives, prohibitions, and policies set forth in the Basin Plan, as amended.

⁶ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

⁷ Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

⁸ Methods: establishment, reestablishment, rehabilitation, enhancement, preservation.

- 5. LACFCD shall implement all Best Management Practices as outlined in the Master Maintenance Plan.
- 6. Prior to start of any annual maintenance clearing, qualified biologists shall perform preclearing biological resource surveys and photo documentation. Sensitive/endangered species focused surveys shall be conducted per the Master Maintenance Plan. No work shall commence without confirmation of findings or no findings of sensitive/endangered species from the biologists. These surveys are also meant to minimize impact on any resources that may potentially use or benefit from the channel.
- 7. During construction, biologists shall be available for consultation for any issues that may arise.
- 8. If maintenance activities on monitoring equipment are necessary during the nesting season, appropriate nesting bird surveys will be conducted prior to starting work.
- **9.** All excavation, construction, or maintenance activities shall follow best management practices to minimize impacts to water quality and beneficial uses. Dust control activities shall be conducted in such a manner that will not produce downstream runoff.
- 10. All waste and/or dredged material removed shall be relocated to a legal point of disposal if applicable. A legal point of disposal is defined as one for which WDRs have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. Please contact the Land Disposal Unit, at (213) 620-6600 for further information.
- 11. LACFCD shall implement all necessary control measures to prevent the degradation of water quality from the proposed project in order to maintain compliance with the Basin Plan. The discharge shall meet all effluent limitations and toxic and effluent standards established to comply with the applicable water quality standards and other appropriate requirements, including the provisions of sections 301, 302, 303, 306, and 307 of the CWA. This Order does not authorize the discharge by LACFCD for any other activity than specifically described in the current CWA Section 404 permit for this project.
- 12. Application of pesticides must be supervised by a certified applicator and be in conformance with manufacturer's specifications for use. Compounds used must be appropriate to the target species and habitat. Pesticide utilization shall be in accordance with State Water Board pesticide permits including: Water Quality Order Nos. 2011-0003-DWQ, for Aquatic Animal Invasive Species Control; 2011-0004-DWQ, for Spray Applications; 2011-0002-DWQ, for Vector Control; and 2013-0002-DWQ, for Weed Control. If LACFCD, or other County agency in support of LACFCD, plans to use any pesticides in these reaches, LACFCD shall also specify the General NPDES permit (i.e. Vector Control or Weed Control) and submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan with the Annual Workplan. If LACFCD or other County agency in support of LACFCD, enrolls in one of the abovementioned permits during the year for use in a reach included in this Order due to an emerging issue such as an emerging vector control issue, LACFCD shall submit the WDID number and the Pesticide Action Plan or Aquatic Pesticides Application Plan as soon as available.
- **13.** LACFCD shall not conduct any routine maintenance activities within waters of the State during a rainfall event. LACFCD shall maintain a one-day (1-day) clear weather forecast before conducting any operations within waters of the State. If rain is predicted within 12

hours after operations have begun, activities shall cease temporarily, protective measures to prevent siltation/erosion shall be implemented and maintained and all material and equipment will be removed from the earth-bottom reach.

- 14. LACFCD shall utilize the services of a qualified biologist with expertise in riparian assessments during all construction activities where maintenance involves partially clearing areas (i.e., some vegetation is to remain in the same reach or in an adjacent reach). The biologist shall be available if necessary during maintenance activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from the Los Angeles Water Board for consultation within 24 hours of request of consultation.
- 15. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, LACFCD shall file a Report of Waste Discharge with the Los Angeles Water Board and obtain any necessary NPDES permits/WDRs prior to discharging waste. Sufficient time should be allowed to obtain any such permits (generally 180 days). If groundwater is encountered without the benefit of appropriate permits, LACFCD shall cease all activities in the areas where groundwater is present, file a Report of Waste Discharge to the Los Angeles Water Board, and obtain any necessary permits prior to discharging waste.
- 16. All maintenance activities not included in this Order, and which may require a permit, must be reported to the Los Angeles Water Board for appropriate permitting. Bank stabilization and grading, as well as any other ground disturbances, are subject to restoration and revegetation requirements, and may require additional WDR action.
- 17. All surface waters, including ponded waters, shall 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.
- **18.** LACFCD shall follow the 2016 Water Diversion Manual, Attachment E to this Order, or, for circumstances which require a deviation from the Surface Water Diversion Plan, may submit to the Los Angeles Water Board an individual plan for the surface water diversion prior to the surface water diversion.
- **19.** Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.
- **20.** If ongoing maintenance activities on a new channel reach were covered by previous certifications with mitigation, additional mitigation will not be required. Prior to clearing of the new reaches, or where additional clearing has been authorized by the Los Angeles Water Board, LACFCD will document and provide to the Los Angeles Water Board the amount of riparian vegetation to be removed for maintenance in these reaches.
- 21. All mitigation areas shall be preserved and maintained as habitat in perpetuity.
Maintenance Clearing of Engineered Earth-Bottom Channels for Flood Control

22. Any modifications of the proposed project may require submittal of a new CWA Section 401 Water Quality Certification application or Report of Waste Discharge and appropriate filing fee.

XIII. Water Quality Certification

The Los Angeles Water Board hereby issues this Order for the Maintenance Clearing of Engineered Earth-Bottom Channels for Flood Control, 4WQC40199011, certifying that as long as all of the conditions and requirements listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act 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).

Except insofar as may be modified by any preceding conditions or requirements, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions and requirements of this Order and the attachments to this Order; and (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies and the Los Angeles Water Boards' Water Quality Control Plan and Policies.

XIV. Effective Date and Term

- a. This Order takes effect upon its issuance by the Los Angeles Water Board.
- b. Term: This Order expires on July 20, 2023 or upon such time it is replaced coincident with a renewed ACOE CWA Section 404 permit, whichever is earlier. If an ACOE CWA Section 404 permit is renewed, LACFCD must file a Report of Waste Discharge with the Los Angeles Water Board no later than 120 days before of the expected date of the renewed ACOE CWA Section 404 permit for consideration of issuance of new or revised requirements. If no such ACOE CWA Section 404 permit for consideration of issuance of new or revised requirements. If no such ACOE CWA Section 404 permit is renewed and LACFCD wishes to continue maintenance activities after this Order expires, LACFCD must file a Report of Waste Discharge with the Los Angeles Water Board no later than 120 days before the expiration date of this Order for consideration of issuance of new or revised requirements. Any discharge of waste after the expiration date of this Order is a violation of Water Code section 13264. The Los Angeles Water Board is authorized to take appropriate enforcement action for any noncompliance with this provision including assessment of penalties.
- c. Los Angeles Water Board Order No. R4-2015-0032, adopted by the Board on February 12, 2015 and amended on February 11, 2016, is hereby terminated, except for enforcement purposes.

CERTIFICATION

I, Deborah J. Smith, do hereby certify that the foregoing is a full, true, and correct copy of Waste Discharge Requirements and Clean Water Act section 401 Water Quality Certification for the Maintenance Clearing of Engineered Earthen-Bottom Channels for Flood Control, 4WQC40199011, issued on July 12, 2018.

Deborah J. Smith

Deborah J. Smith
Executive Officer
Los Angeles Water Quality Control Board





Los Angeles Regional Water Quality Control Board

April 4, 2016

Mr. Sree Kumar Los Angeles County Flood Control District 900 S. Fremont Ave, Annex 2nd Floor Alhambra, CA 91803 VIA CERTIFIED MAIL RETURN RECEIPT REQESTED No. 7008 1140 0002 8671 9905

Dear Mr. Kumar,

TRANSMITTAL OF THE WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION FOR LOS ANGELES COUNTY FLOOD CONTROL DISTRICT MAINTENANCE CLEARING OF ENGINEERED EARTH-BOTTOM FLOOD CONTROL CHANNELS, LOS ANGELES COUNTY (FILE NO. 99-011)

In accordance with the California Water Code, this Regional Water Board, at a public meeting held on February 11, 2016, reviewed the revised, tentative Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certification (WDRs) including two changes brought to the Regional Water Board on a change sheet, considered all factors in the case and adopted Order No. R4-2015-0032 (copy enclosed).

We are sending the paper copy of the WDRs to LACFCD only. For those on the mailing list or other interested parties who would like access to a copy of the WDRs, please go to the Regional Water Board's website at:

http://www.waterboards.ca.gov/losangeles/water_issues/programs/401_water_quality_certificati on/FloodControl.shtml

IRMA MUNOZ, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

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Mr. Sree Kumar Los Angeles County Flood Control District

Should you have questions concerning Order No. R4-2015-0032 please contact Valerie CarrilloZara, P.G., at (213) 576-6759 or Dr. LB Nye at (213) 576-6785.

- 2 -

Sincerely,

Samuel Unjo

Samuel Unger, P.E Executive Officer

cc:

Jemellee Cruz, Los Angeles County Flood Control District Matt Chirdon, California Department of Fish and Wildlife Daniel Swenson, US Army Corps of Engineers Melissa Scianni, U.S. Environmental Protection Agency, Region 9 Jennifer Fordyce, State Water Resources Control Board Bill Orme, State Water Resources Control Board

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

ORDER NO. R4-2015-0032-A1

WASTE DISCHARGE REQUIREMENTS FOR:

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, PROPOSED MAINTENANCE CLEARING OF ENGINEERED EARTH-BOTTOM FLOOD CONTROL CHANNELS, LOS ANGELES COUNTY (File No. 99-011)

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds that:

- 1. The Los Angeles County Flood Control District (LACFCD) (Discharger) is responsible for providing flood control through a network of channels (which are also waters of the State) throughout Los Angeles County to enhance public safety. Adequate channel capacity needs to be maintained in order to reduce the risk of loss of life or property that could otherwise result from flooding during large storm events. The LACFCD is authorized to perform such maintenance pursuant to the Los Angeles County Flood Control Act (Water Code Appendix § 28-2).
- 2. Channel capacity is maintained by clearing sediment, vegetation and debris within the channel to an engineered, pre-designed level.
- 3. For dredge and fill activities such as channel clearing, the Clean Water Act (CWA) requires permitting from the Army Corps of Engineers (ACOE) under CWA section 404 and Water Quality Certification by the State under CWA section 401 (401 Certification). In addition, under California Fish and Game Code section 1600, such activities are also regulated by a Streambed Alteration Agreement (SAA) issued by the California Department of Fish and Wildlife (CDFW).
- 4. The State of California may also regulate such discharges through Waste Discharge Requirements (WDRs) as authorized by the California Water Code (CWC). Pursuant to CWC section 13263, the Regional Water Quality Control Boards are required to prescribe WDRs for any proposed or existing discharge unless WDRs are waived pursuant to Water Code section 13269.
- 5. The Regional Board has determined to regulate the subject discharge of dredge and fill materials into waters of the State by issuance of these WDRs pursuant to CWC section 13263. The Regional Board considers WDRs necessary to adequately control potential impacts to beneficial uses of waters of the State from these maintenance clearing activities to meet the objectives of the California Wetlands Conservation Policy (Executive Order W-59-93), and to accommodate and require appropriate changes over the life of the project.

Waste Discharge Requirements Order No. R4-2015-0032-A1

- 6. The goals of the California Wetlands Conservation Policy (Executive Order W-59-93, signed August 23, 1993) include ensuring "no overall loss" and achieving a "…long-term net gain in the quantity, quality, and permanence of wetland acreage and values..." Senate Concurrent Resolution No. 28 states that "[i]t is the intent of the legislature to preserve, protect, restore, and enhance California's wetlands and the multiple resources which depend on them for benefit of the people of the State." Section 13142.5 of the CWC requires that the "[h]ighest priority shall be given to improving or eliminating discharges that adversely affect…wetlands, estuaries, and other biologically sensitive areas."
- 7. CWC section 13263 authorizes the Regional Board, after any necessary hearing, to prescribe requirements as to the nature of any proposed discharge with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The requirements must implement any relevant water quality control plans that have been adopted, and shall take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and the provisions of CWC section 13241. In accordance with subdivision (g) of section 13263, all discharges of waste into the waters of the State are privileges, not rights, and these WDRs shall not create a vested right to continue to discharge and are subject to rescission or modification.
- 8. Pursuant to CWC section 13267, the Regional Board, in establishing or reviewing any water quality control plan or waste discharge requirements, or in connection with any action relating to any plan or requirement authorized by Division 7 of the CWC, may investigate the quality of any waters of the state within its region. In conducting such an investigation, the Regional Board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. These WDRs incorporate requirements for water quality monitoring, Feasibility Studies, pilot projects and monitoring and technical reports associated with those requirements, which are necessary to ensure that the discharge of waste complies with these WDRs and is protective of the environment. In addition, investigating alternative maintenance methods may result in multiple benefits including improved ecological outcomes, improved aesthetics for public recreation, and reduced use of resources (e.g., less water use, fewer truck trips for removing vegetative matter), among others.
- 9. The Regional Board, on June 13, 1994, adopted, in accordance with section 13240 et seq. of the CWC, a revised Water Quality Control Plan, Los Angeles Region (Basin Plan). This updated and consolidated revised Basin Plan was approved by the State Water Resources Control Board (State Board) and the Office of Administrative Law on November 17, 1994, and February 23, 1995, respectively. A summary of regulatory

provisions is contained in California Code of Regulations, title 23, section 3930. The Basin Plan designates beneficial uses for surface and ground waters in Chapter 2, establishes water quality objectives that must be attained or maintained to protect the designated beneficial uses in Chapter 3, and sets forth implementation programs to attain the water quality objectives. The Basin Plan has been amended occasionally since 1994. This Order is in compliance with the Basin Plan, and amendments thereto.

- 10. These WDRs are adopted pursuant to CWC sections 13263 and 13267. It sets forth requirements, prohibitions, and other conditions to implement the Basin Plan, and LACFCD's responsibilities for monitoring and reporting. LACFCD is responsible for ensuring compliance with these WDRs.
- 11. These WDRs do not authorize additional hardscape, concrete, or rock, and none of the maintenance activities conducted by LACFCD under these WDRs have involved hardscaping, laying concrete or placing rock in these channels.

Background/History

- 12. The Los Angeles County Flood Control Act (ACT) was adopted by the California State Legislature in 1915. The Act established the Los Angeles County Flood Control District and empowers it to provide flood protection, water conservation, recreation and aesthetic enhancement within its boundaries. The Flood Control District is governed, as a separate entity, by the County of Los Angeles Board of Supervisors.
- 13. In 1997, LACFCD proposed complete clearing of 100 earth-bottom channels in anticipation of the El Niño storm season, encompassing a total of 886 acres. Of this acreage, approximately 203 acres were vegetated.
- 14. LACFCD developed a Maintenance Plan for the Annual Clearing of Earth-Bottom Flood Control Channels in 1999 (Maintenance Plan) in collaboration with the ACOE, CDFW (then California Department of Fish and Game (CDFG)) and the Regional Board. The Maintenance Plan has been published under later dates, but all versions of the Maintenance Plan define channel clearance by the 1997 pre-El Niño clearing.
- 15. The Maintenance Plan defined the reaches and included information about clearing methods for specific reaches, but the basis for determining the required extent of clearing is not documented in the Maintenance Plan and has not been transparent to the Board or the public.
- 16. In 1999, a Streambed Alteration Agreement, Memorandum of Understanding was entered into by LACFCD and CDFW (then CDFG) (MOU 5-076-99).
- 17. The ACOE permitted LACFCD's vegetation and debris clearing maintenance activities under the CWA Section 404 Nationwide Permit 31 "Maintenance of Existing Flood

Control Facilities" in 1998. The Regional Board issued a CWA Section 401 Water Quality Certification for these activities in 1999 (File No. 99-011).

- 18. During this time, the Regional Board and the ACOE developed the first programmatic permit and 401 Certification for the earth-bottom channel maintenance activities utilizing limits developed for the 1997 pre-El Niño clearing. However, the Regional Board recognized the need to ultimately develop a more comprehensive plan beyond direct use of the 1997 limits that would allow vegetation and the associated habitat to be preserved within these earth-bottom channels to the maximum extent feasible. At that time, the CWA Section 404 Permit and 401 Certification only authorized 48.2 acres of the approximately 203 vegetated acres for clearance activities.
- 19. To mitigate the 48.2 acres impacted by removal of vegetation, the Big Tujunga Wash Mitigation Bank was established, which contains 62.7 acres (achieving a 1.3:1 mitigation ratio).
- 20. The success criteria for the Big Tujunga Wash Mitigation Area have been met. Field data collection for the functional analysis and success monitoring studies was conducted in August 2012 and reported in the 2012 Annual Report for the Big Tujunga Wash Mitigation Area.
- 21. The ACOE, after evaluation of updated information, has reissued the Nationwide Permit for these channel maintenance activities by the LACFCD every five years since 1998. The latest Nationwide Permit was issued in September 2014.
- 22. The number of soft bottom channels reaches authorized to be maintained under the Nationwide Permit has changed during each permit cycle due to channels being combined, or the addition of new channels. The ACOE divides channels into reaches that it considers to be sensitive and non-sensitive based on a Biological Opinion from the US Fish and Wildlife Service. The ACOE normally incorporates special conditions such as avoidance of nesting seasons or hand clearing, for reaches it deems to be sensitive.
- 23. The 401 Certification was renewed by the Regional Board on October 17, 2003, conditionally authorizing maintenance of 99 earth-bottom channels. At that time, the ACOE permitted maintenance of the same channels under Nationwide Permit 31 in letters dated October 21, 2003 (for 61 channels) and December 22, 2003 (for 17 channels). The total number of channels identified in these two letters differs from those in the CDFW (then CDFG) SAA and the Regional Board's 401 Certification because the ACOE combined some channels in the Nationwide Permit 31.
- 24. The October 17, 2003 renewal of the Water Quality Certification for 99 channels was amended in September 2006. The amended Certification allowed for maintenance clearing activities in earth-bottom channel reaches within the County of Los Angeles. The amended Certification expired on March 15, 2007.

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- 25. In 2003, the State Board issued Order No. 2003-0017-DWQ, "General Waste Discharge Requirements for Dredge and Fill Discharges that have received State Water Quality Certification," which requires compliance with all conditions of Water Quality Certifications. The 2003 State Board Order included regulation of discharges from earthbottom channel maintenance.
- 26. On March 14, 2007, a Water Quality Certification application package was submitted by LACFCD with attachments requesting renewal and amendment of the Water Quality Certification for channel maintenance clearing activities. Specifically, LACFCD requested to renew and further amend the Water Quality Certification to include additional channel reaches. The Regional Board deemed the application complete on July 10, 2008.
- 27. The Regional Board extended the amended October 17, 2003 Water Quality Certification by letter on September 10, 2007 until March 15, 2008, and extended it by letter again on August 29, 2008 until January 31, 2009.
- 28. The Regional Board letter of August 29, 2008, which extended the Water Quality Certification, required LACFCD to submit certain information to the Regional Board by November 14, 2008. To wit:

By this letter, we require the County [LACFCD] to submit to us a technical report with a reach by reach list of all the reaches proposed to be included in the renewed Certification with a hydrologic analysis of each reach and a assessment of the biological functions and values for each reach. This report shall be submitted by November 14, 2008 which will ensure we can complete the renewed certification in timely manner.

The required information was not submitted.

- 29. A tentative Water Quality Certification, "99-011, 2009 renewal," was released for public comment on July 6, 2009. Written comments were accepted until 5:00 p.m. on August 5, 2009. Response to comments and a revised tentative Water Quality Certification were prepared and published on the Regional Board's website.
- 30. The Water Quality Certification "99-011, 2009 renewal" was unable to be issued by the Regional Board because more than one year had passed from submission of a complete application (CWA § 401 [33 U.S.C. §1341] paragraph (1)). Accordingly, pursuant to federal law, LACFCD was authorized to proceed pursuant to Nationwide Permit 31 without conditions imposed by the Regional Board in the permit. The channel clearing activities continue to be regulated under and must separately comply with the provisions of LACFCD's CWA Section 404 permit and the CDFW SAA.
- 31. To ensure compliance with State Water Quality Standards contained in the Basin Plan and other applicable Regional and State plans and policies for Water Quality Control,

WDRs were required for the renewal of the project and were taken to the Regional Board for consideration in February of 2010. The WDRs, Order No. R4-2010-0021, were approved by the Regional Board on February 4, 2010 (2010 WDR). The 2010 WDR included 10 new channel reaches authorized to be cleared in addition to the reaches included in the previous Certification. The 2010 WDR also acted as 401 certification for those 10 reaches. The 2010 WDR also included the deletion of several reaches previously covered by the Water Quality Certification that were no longer earth-bottom channels.

- 32. On February 12, 2015, the Regional Board adopted Order No. R4-2015-0032, renewed WDRs for discharges associated with channel clearing activities in Los Angeles County (2015 WDR). The term of the renewed 2015 WDR was one year.
- 33. Regional Board direction to Regional Board staff, upon issuance of the renewed 2015 WDR, included:
 - a. Ensure transparency and clarity with regards to the use and results of LACFCD and ACOE hydraulic models to determine channel capacities and reaches where more vegetation can remain;
 - b. Facilitate greater involvement of interested non-governmental stakeholder groups in discussions and, where possible, crafting of recommendations, regarding channel clearing activities, particularly in the Los Angeles River in light of river restoration and revitalization efforts; and
 - c. Coordinate principles and discussions related to activities regulated under this WDR with other water resource management efforts such as efforts to increase stormwater retention, beneficial use protection and enhancement, and river restoration projects.
- 34. Regional Board staff and LACFCD staff initiated a series of in-depth discussions, referred to as "WDR Working Group Meetings," with interested stakeholder groups including Friends of the Los Angeles River, Arroyo Seco Foundation, Heal the Bay, the Nature Conservancy, Mountains Restoration Conservation Authority, San Fernando Valley Audubon, and Santa Clara Organization for Planning the Environment, which also included participation by ACOE, CDFW, and California Coastal Commission. Nine meetings were held between April 2, 2015 and December 15, 2015. Agendas, presentations, meeting notes and sign-in sheets are available at https://dpw.lacounty.gov/lacfcd/WDR/workgroup.aspx.
- 35. During these WDR Working Group Meetings, the group has:
 - a. Discussed and raised the level of understanding of hydraulic models used in Feasibility Studies (as detailed in Findings 49–67);
 - b. Reviewed the channel maintenance obligations of the LACFCD, including ACOE requirements for ACOE-built channels, levee safety requirements, and FEMA requirements;

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- c. Reviewed concerns of environmental and conservation organizations, including Friends of the Los Angeles River and Heal the Bay, especially pertaining to Reach 25 of the Los Angeles River and Compton Creek;
- d. Discussed results of the new Risk and Uncertainty analysis required for ACOEbuilt channels, as applied to Reach 25 of the Los Angeles River; and
- e. Identified, and then reviewed, results of a pilot project employing an alternative clearing method of mowing instead of scraping to remove vegetation in the lower Los Angeles River (Reach 25) and Compton Creek.
- 36. As described above, the WDR Working Group prioritized its discussions and pilot efforts on the lower reaches of the Los Angeles River.
- 37. On October 7, 2015, the Regional Board received the LACFCD's Report of Waste Discharge (ROWD), applying for reissuance of WDRs for its maintenance clearing activities in earth-bottom channels.

Background on Watersheds within which the Earth-Bottom Channels are Located

- 38. The reaches for which maintenance clearing activities are covered by this Order are located in the Los Angeles River watershed, San Gabriel River watershed, Santa Clara River watershed, Malibu Creek watershed, and Dominguez Channel watershed. The Los Angeles County Department of Public Works has directed the development of, or participated in the development of, Master Plans for each of these watersheds. Each of these Master Plans include objectives and plans for environmental and habitat enhancement in addition to flood control.
- 39. The Los Angeles River Master Plan was completed and adopted by the County of Los Angeles Board of Supervisors in 1996. The Los Angeles River Master Plan created a multi-objective program for the river. This plan recognizes the River's important purpose for flood protection, and it advocates for environmental enhancement, recreational opportunities, and economic development. In addition, the Los Angeles River Revitalization Master Plan was completed by the City of Los Angeles in April 2007 with a vision of the future of the Los Angeles River.
- 40. The San Gabriel River Corridor Master Plan was completed in June 2006 for the County of Los Angeles Department of Public Works to enhance habitat, recreational and open space resources along the river in a manner compatible with flood and water management.
- 41. The Santa Clara River Enhancement and Management Plan (SCREMP) completed in 2005 is a guidance document for the preservation, enhancement, and sustainability of the resources that occur within the 500-year floodplain limits of the Santa Clara River mainstem. This plan was prepared for the Ventura County Watershed Protection District and the Los Angeles Department of Public Works.

- 42. The Malibu Creek Watershed Council developed the 1995 Malibu Creek Watershed Natural Resources Plan and other studies to protect and preserve the health of the Malibu Creek Watershed. Los Angeles County Department of Public Works is a partner in the Watershed Council.
- 43. The Dominguez Watershed Management Master Plan was developed for the County of Los Angeles Department of Public Works in 2004. The Plan provides for the protection, enhancement, and restoration of the environment and beneficial uses of the Dominguez Watershed.
- 44. The Los Angeles River flows 51 miles from the western end of the San Fernando Valley to the Pacific Ocean at Long Beach and includes several major tributaries including Tujunga Wash, Burbank Western Channel, Arroyo Seco, Rio Hondo, and Compton Creek. The Los Angeles River watershed comprises an area of about 834 square miles. Of this area, the incorporated cities and unincorporated portion of Los Angeles County comprise 599 square miles. The remaining acreage consists of the Los Angeles National Forest and other uses.
- 45. The San Gabriel River watershed comprises a 682 square mile area of eastern Los Angeles County and has a main channel length of approximately 58 miles. It originates in the San Gabriel Mountains and flows through heavily developed areas before emptying into the Pacific Ocean in Long Beach. The main tributaries of the river are Walnut Creek, San Jose Creek, and Coyote Creek. In the middle of the watershed are large spreading grounds used for groundwater recharge. The watershed is hydraulically connected to the Los Angeles River through the Whittier Narrows Reservoir (occurring mostly during high storm flows).
- 46. The Santa Clara River is approximately 100 miles long and the watershed comprises approximately 1,200 square miles. The river originates in the northern slope of the San Gabriel Mountains in Los Angeles County, traverses Ventura County, and flows into the Pacific Ocean halfway between the cities of San Buenaventura and Oxnard. Large tributaries include Sespe, Piru and Santa Paula Creeks and a lagoon exists at the mouth of the river. Land use is predominately open space with concentrations of residential, agriculture, and some industrial uses along the mainstem of the river. The Santa Clara River is the largest river system in southern California that remains in a relatively natural state; this is a high quality natural resource for much of its length.
- 47. The Malibu Creek watershed comprises 109 square miles. The watershed extends from the Santa Monica Mountains and adjacent Simi Hills to the Pacific Coast at Santa Monica Bay. Several creeks and lakes occur in the upper portions of the watershed, and these ultimately drain into Malibu Creek at the downstream end of the watershed. Malibu Creek drains into Malibu Lagoon, a 13-acre tidal lagoon.
- 48. The Dominguez Channel watershed is 133 square miles. This watershed includes the Los Angeles and Long Beach Harbors. The Dominguez Channel is 15 miles long. The

watershed also includes Wilmington Drain, which empties into Machado Lake and other drainages, which drain directly or indirectly to the Los Angeles and Long Beach Harbors. Ninety-one percent of land in the watershed is developed.

Feasibility Study Requirements and Status

- 49. As an outgrowth of the original Maintenance Plan development and the incomplete effort in 2008 to further develop an understanding of the hydrology and biological functions for each reach in order to reform and improve the required channel clearing and to make the basis transparent to the Regional Board and the public, the 2010 WDR required "Feasibility Studies," as discussed below, for each watershed.
- 50. The 2010 WDR required the study of the hydraulic capacity and existing conditions of all reaches covered by the 2010 WDR to determine where a potential may exist for native vegetation to remain within the soft-bottom portion of the channel (Feasibility Study). The Feasibility Studies also required identification of any channels that could potentially provide restoration opportunities for riparian habitat. These restoration opportunities were to be identified based on the Feasibility Studies and a consideration of restoration plans by other agencies.
- 51. The required analyses were split over multiple years to allow LACFCD flexibility in completing the required studies. The data and technical ability necessary to conduct the required analyses exists within LACFCD.
- 52. LACFCD implemented the Feasibility Study process with a schedule of one or more watersheds per year to be analyzed, such that completion of all watersheds/studies would occur within six (6) years of the 2010 WDR issuance. LACFCD has solicited stakeholder input during Feasibility Study Workplan development.
- 53. LACFCD has completed three Feasibility Study Workplans, including the Los Angeles River watershed, the San Gabriel River watershed and the Malibu and Dominguez Channel watersheds.
- 54. The Los Angeles River Feasibility Study Workplan was completed in July 2010. The Los Angeles River includes 25 maintained soft-bottom reaches, which range from 25 feet to 11,000 feet in length.
- 55. The Regional Board conditionally approved the Los Angeles River Feasibility Study Workplan on September 10, 2011 pending an additional hydraulic analysis to be completed. To date, the additional hydraulic analysis has not been completed and Regional Board staff have determined that the additional analyses are not needed at this time.
- 56. The Los Angeles River Feasibility Study included a comprehensive hydraulic analysis for Los Angeles River soft-bottom channel reaches and was developed using the United

States Army Corps of Engineers (USACE) Hydrologic Engineering Center's River Analysis System (HEC-RAS) computer program. HEC-RAS is designed to perform hydraulic calculations for natural and improved channels.

Channel geometry data was obtained from as-built plans, field measurements, LiDAR (Light Detection and Ranging), and recent topographic surveys. Design flow rates were used in the hydraulic analysis to ensure the soft-bottom reaches continue to provide the as-designed flood protection to the public. For undeveloped areas, design flow rates accounted for the effects of a burned watershed and the inclusion of sediment (bulking).

Estimating the roughness coefficients through calibration was not possible since stream gage stations were not available within the soft-bottom channel reaches. Roughness coefficients were determined following the procedures specified in references "Open-Channel Hydraulics" by Ven T. Chow and "Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains," United States Geological Survey Water-supply Paper 2339. Field site investigations were conducted for all soft-bottom reaches and the information gathered was used to determine appropriate adjustment factors and estimate roughness coefficients.

For reaches that were found to have additional channel capacity, the amount and type of additional vegetation that might be allowed to remain in the channel reach was determined in consultation with a qualified biologist. A revised hydraulic model was then developed using roughness coefficients adjusted to represent the recommended vegetation levels. Results of these models were checked to ensure that sufficient capacity was maintained along the entire reach. For reaches with insufficient capacity, the amount of vegetation that needs to be removed to restore flood capacity will be determined.

- 57. Results of these analyses conducted during the Los Angeles River Feasibility Study were presented to stakeholders at a technical workshop on June 24, 2013. Subsequently, as part of the WDR Working Group Meetings held throughout 2015, the LACFCD conducted additional analyses on the reaches of the Los Angeles River and presented the preliminary results of this additional analysis to Regional Board staff and stakeholders participating in the WDR Working Group. Of the 25 reaches in the Los Angeles River Watershed, the Los Angeles River Feasibility Study Report identified eight reaches where additional native vegetation or the replacement of non-native vegetation with native vegetation could occur. No change in current maintenance vegetation clearance practices was recommended for eleven reaches due to insufficient hydraulic capacity for additional vegetation. In six reaches, additional vegetation removal may be required.
- 58. The eight Los Angeles River reaches that were identified as having the capacity to contain additional native vegetation or the replacement of non-native with native vegetation are:

- a. **Reach 7, In Bull Creek Main Channel Outlet.** Additional vegetation may remain; however, concerns relating to vector control will require further analysis of current maintenance activities.
- b. **SBC Reach 22, Halls Canyon Channel.** Except on the crib structures, allow native shrubs to grow on the invert of the entire channel reach. Selectively protect native shrubs by removing non-native vegetation
- c. **Reach 25, Los Angeles River.** In the last 500 feet of the reach (i.e., the downstream end of reach) and on the left bank looking downstream, allow four willow trees to grow and mature at the edge of the water. The willow trees will be maintained under the existing maintenance plan that allows for trimming of lower branches.
- d. **Reach 1, Bell Creek**. Allow willow canopy to spread outside the channel. Allow native shrubs such as coyote bush and mule fat to become established in this area. Relocate the existing chain-link fence to protect this area from current uses which include staging and storage of maintenance equipment and materials.
- e. **Reach 20, Webber Channel, Tributary to Halls Canyon Channel.** Allow native herbaceous and shrub species to grow on right bank looking downstream. Selectively remove non-native species from right bank.
- f. Reach 21, Webber Channel (main channel inlet at bridge), tributary to Halls Canyon Channel. Allow native herbaceous and shrub species to grow on left bank looking downstream underneath the coast live oak woodland. Selectively remove non-native ground cover species (e.g., ivy) from the left bank.
- g. **Reach 19, Pickens Canyon, tributary to Verdugo Wash.** Except for on the crib structures, allow native shrubs to grow on the invert of the channel reach from the upstream end to the pedestrian bridge at Mountain Avenue. Selectively protect native shrubs by removing non-native vegetation.
- h. **Reach 9, Tributary to the Sepulveda Flood Control Basin Project No. 106.** Remove non-native ash trees at the top of both banks and replace with native trees. Sycamore trees are the preferred native trees to be planted.
- 59. The Los Angeles River reaches identified in the Los Angeles River Feasibility Study Report as having insufficient capacity to allow for additional native vegetation include Reaches 3, 4, 5, 6, 8, 10, 15, 16, 24, 96, and 100. These reaches are already being fully cleared on an annual basis. The Los Angeles River reaches identified in the Los Angeles River Feasibility Study Report as having insufficient capacity to allow current areas of vegetation to remain include Reaches 2, 12, 13, 14, 18, and 99. These reaches have contained vegetation protected from removal under permits currently in force. LACFCD will seek approvals from applicable agencies to remove the vegetation that now remains in these reaches.
- 60. The Los Angeles River Feasibility Study Report with recommendations for changes to maintenance regimes was completed in August 2013 (without the additional hydraulic analysis). Changes to vegetation clearing maintenance consistent with the recommendations from the Feasibility Study will be incorporated into an updated

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Maintenance Plan for soft-bottom reaches, which is under development as described in Finding 77.

- 61. The San Gabriel River Feasibility Study Workplan was completed in January 2013. The Regional Board approved the San Gabriel River Feasibility Study Workplan on January 21, 2015. The San Gabriel River includes 7 maintained soft-bottom reaches, which range from 30 feet to 31,000 feet in length.
- 62. The Malibu Creek and Dominguez Channel Feasibility Study Workplan was completed in April 2014. The Regional Board approved the Malibu Creek and Dominguez Channel Feasibility Study Workplan on January 21, 2015. The Malibu and Dominguez Channels includes 11 maintained soft-bottom reaches, which range from 56 feet to 3,584 feet in length.
- 63. The final watershed that requires feasibility studies is the Santa Clara River Watershed.
- 64. The San Gabriel River Feasibility Study Report was submitted to the Regional Board on January 29, 2016. In addition, substantial progress was made on the reanalysis of the Los Angeles River reaches. As requested by stakeholders at the WDR Working Group Meetings, a reanalysis of the Los Angeles River was conducted by LACFCD. The results of this analysis and a discussion of the methodology used were provided at the WDR Working Group Meetings over several sessions. LACFCD also performed the ACOE's new Risk and Uncertainty analysis on Los Angeles River Reach 25 and results were provided at the WDR Working Group Meetings.
- 65. While the lower reaches of the Los Angeles River were a priority for the WDR Working Group, because the engineered aspects of the lower reaches of the Los Angeles River were constructed by the ACOE, there are additional federal requirements that must be met before changing the characteristics of the channel, and therefore, flood protection. LACFCD hired WEST Consultants to perform an evaluation of the lower reach of Los Angeles River (Reach 25) using the US Army Corps of Engineers' Risk and Uncertainty analysis. A Risk and Uncertainty analysis is a statistical analysis that takes into account the uncertainty of the hydrology, hydraulics, and consequences. The preliminary results of this analysis show there is an 80% probability that the 133-year flood's water surface elevation would be below the as-constructed top of levee elevation in Los Angeles River Reach 25.
- 66. LACFCD is working with the ACOE to address ACOE's comments on the Risk and Uncertainty analysis. When the Risk and Uncertainty analysis is finalized, LACFCD will be able to consider applying to the ACOE to modify channel clearing activities in this reach.
- 67. An interagency team consisting of LACFCD, Regional Board, ACOE and CDFW are collaborating on an updated Maintenance Plan to meet the requirements of all agencies by 2017.

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Pilot Project

- 68. To investigate and determine if alternative maintenance methods for removing vegetation in lower Los Angeles River, Reach 25 and Compton Creek, would be more protective of beneficial uses and would be operationally feasible, LACFCD voluntarily executed a pilot project during their channel clearing activities in October of 2015.
- 69. The Reach 25 and Compton Creek pilot project included clearing invasive species by the standard methods, castor bean by hand and *Arundo donax* by excavator; however, most of the vegetation was removed by mowing from a skidsteer vehicle or a flail mower close to the water's edge. Dump truck use was reduced to less than 10% of the previous year's use and water use was reduced to less than 50% of the previous year's use. Mowing left a short growth of vegetation in place, which is expected to lessen erosion from the site and provide faster regrowth of habitat in the area. The overall scope of work and benefits of the pilot project were the same for both reaches. An evaluation of these alternative maintenance methods relative to the potential for long-term buildup of material, environmental impacts, and impacts to LACFCD operations is continuing.

Additional Findings

- 70. During the winter season, LACFCD personnel continually monitor flow conditions in channels and inspect facilities. Urgent work conducted during and immediately after storm events is usually not routine maintenance, but instead, may be considered an emergency activity. However, many of the repairs are small in scope and would otherwise fit under the provisions of this WDR.
- 71. As part of the flow and water quality monitoring systems, LACFCD maintains various stations throughout the County. These stations consist of temporary and/or permanent houses with attached gauges, conduits, pumps, sensors, and probes typically placed in the invert of the channel. The houses may be mounted on bridges and/or other structures along several watercourses in the County. In order to obtain accurate data, the flow adjacent to the gauges, conduits, pumps, sensors, and probes must be laminar (i.e., non-turbulent). Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may need to be conducted during dry weather to ensure proper operation. Stream Gages in earth-bottom reaches are maintained in the San Gabriel River and Santa Clara River and locations are included in Attachment 1.
- 72. Any project that is necessitated due to imminent threat to life or property is subject to ACOE Regional General Permit 63 (RGP 63). Emergency is defined as, "a sudden, unexpected, occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. Emergency includes such occurrences as fire, flood, earthquake, or other soil or geologic movement, as well as such occurrences as riot, accident, or sabotage."

- 73. Neither this WDR, nor any previous WDR or Water Quality Certifications, authorize any new construction or modification of flood control facilities.
- 74. LACFCD has developed and published watershed maps, which indicate areas of maintenance (impact acreages and types of vegetation impacted) and approximate schedules (including baseline biological surveys, post-surveys and maintenance activity descriptions). This information has been made publicly available on the LACFCD website and has been noticed to interested persons. For each reach, the information has included: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area of proposed impact; and (d) a description of any existing aquatic resources (e.g., wetland/riparian vegetation based on readily available information and pre-clearing biological surveys).
- 75. LACFCD has developed and published and submitted to the Regional Board, Annual Project and Mitigation Monitoring Reports as required on May 4, 2010, for 2009-2010; August 30, 2011, for 2010-2011; April 30, 2012, for 2011 –2012; May 1 2013, for 2012-2013; and May 29, 2014, for 2013-2014.
- 76. LACFCD has developed and complies with a Hazard Analysis and Critical Control Points (HACCP) for Malibu and Santa Monica Canyon watersheds to limit the spread of invasive New Zealand mudsnail and giant reed (*Arundo donax*), dated April 1, 2010.
- 77. LACFCD has begun to draft, and proposes to complete, in collaboration with the ACOE, CDFW and Regional Board by 2017 an updated Maintenance Plan. This Maintenance Plan will incorporate revised scopes of work for previously authorized reaches, a re-evaluation of sensitive or non-sensitive status (per the US Fish and Wildlife Service's Biological Opinion) and an updated list of reach numbers and organizations. It will incorporate reaches 1-110, which after accounting for the removal and splitting of several reaches will total 108 reaches proposed for maintenance. Details of the proposed changes are listed below:
 - a. Reaches that have been removed (no longer maintained by LACFCD) include Reaches 11, 17, 23, 30, 31, 65, 68, 81, 83, 84, 85 and 111 (12 total);
 - b. Reaches that have been combined include Reach 59 into Reach 58 and Reach 62 into Reach 61;
 - c. Reaches 25, 40, and 43 now have both an (a) and (b) component and are discussed separately;
 - d. Reaches 60, 59, and 58 are no longer combined with 55, Reaches 67 and 69 are no longer combined, and Reaches 70 and 68 are no longer combined;
 - e. Consequently, there are 14 numerical reaches that will be removed and three reaches that will be added (due to the splitting of 25, 40 and 43) to the Maintenance Plan.
 - f. Within the original reaches 1-110, there are now 100 active reaches. The previous 2010 WDR already permitted Reaches 101-110 and will continue to be covered in this WDR.

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g. Land use changes have also resulted in the addition of new reaches (Reaches 112–119). Once these have been added, there will be a total of 108 reaches covered by the Maintenance Plan in development. Reaches 112–119 are not included in this Order.

FEMA Levee Certification

- 78. Currently, the County of Los Angeles is a participating community in the National Flood Insurance Program (NFIP). The Federal Emergency Management Agency (FEMA) administers the NFIP, identifies flood hazards, assesses flood risks, and provides appropriate flood hazard and risk information to communities. This information is provided through Flood Insurance Rate Maps (FIRMs). FEMA has currently updated these maps and modernizing FIRMs. This effort is called Flood Map Modernization or Map Mod.
- 79. FEMA has required all levee owners to certify their levees before mapping them in Map Mod. Property owners in the communities protected by these levees have a 1-percentannual-chance (100-year flood) level of flood protection and will likely not be required to secure flood insurance by lenders.
- 80. LACFCD has undertaken the effort to certify 65 miles of levees in Los Angeles County. LACFCD is the lead for Compton Creek (in conjunction with ACOE as a co-lead), San Gabriel River, Coyote Creek, Dominguez Channel, Santa Clara River, and tributaries to the Santa Clara.
- 81. The levee certification consists of three main technical components:
 - 1. Hydraulic analysis;
 - 2. Subsurface soil exploration and geotechnical/structural (design) analysis; and
 - 3. Formal Operation and Maintenance (O & M) Plan and Report.
- 82. The completed certification work has been submitted. FEMA may accredit the levee systems, where appropriate, and present the updated, accurate flood hazard and risk information on the maps and related documents.
- 83. In order to obtain FEMA accreditation for the levees, LACFCD is required to demonstrate that maintenance of the levees will ensure their stability, height, and overall integrity in order to continue providing protection to the adjacent residents.

ACOE Levee Requirements

84. While FEMA accredits levees as meeting requirements set forth by the NFIP, the ACOE addresses operation and maintenance, risk management, and risk reduction levee needs as part of its responsibilities under the ACOE's Levee Safety Program. The ACOE may inspect levees in Los Angeles County and require risk reduction improvements to the levees by LACFCD.

85. The ACOE also maintains a Levee Vegetation Management Policy. The most recent descriptions of the ACOE's vegetation management policy are contained in the ETL 1110-2-583 "Guidelines for Landscape Planting and Vegetation Management at Levees, Floodwalls, Embankment Dams, and Appurtenant Structures," adopted by the ACOE on April 30, 2014, which generally requires that there is no vegetation within 15 feet of a levee structure.

CWA Section 401 Certification

- 86. The current Nationwide Permit 31 issued by the ACOE authorizes maintenance in 61 existing channels. Biological Consultation between the ACOE and the U.S. Fish and Wildlife Service is ongoing for 31 of the channel reaches covered by this Order. This Nationwide Permit 31 expires in 2017. This Order also acts as a CWA Section 401 Water Quality Certification for the Nationwide Permit 31 for these activities.
- 87. Pursuant to California Code of Regulations, title 23, section 3860, the following three standard conditions shall apply to this project:
 - a. This Certification action and Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to CWC section 13330, and California Code of Regulations, title 23, division 3, chapter 28, article 6 (commencing with section 3867).
 - b. This Certification action and Order is not intended and shall not be construed to apply to 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 California Code of Regulations, title 23, section 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
 - c. This Certification and Order is conditioned upon total payment of any fee required pursuant to California Code of Regulations, title 23, division 3, chapter 28, and owed by the applicant.

CEQA and Notification

- 88. The California Environmental Quality Act (CEQA) requires certain projects approved by State agencies to comply with CEQA, and requires a lead agency to prepare an appropriate environmental document (e.g., Environmental Impact Report or Negative Declaration) for such projects. The Regional Board finds that the proposed activities are categorically exempt from the provisions of CEQA pursuant to California Code of Regulations, title 14, section 15301(d) (Existing Facilities).
- 89. Any person aggrieved by this action of the Regional Board may petition the State Board to review the action in accordance with Water Code section 13320 and California Code

of Regulations, Title 23, sections 2050 and following. The State Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions will be provided upon request or may be found on the Internet at:

http://www.waterboards.ca.gov/public notices/petitions/water quality

- 90. The Regional Board has notified the LACFCD and other interested agencies and persons of its intent to prescribe WDRs for this discharge and has provided an opportunity to submit written comments. Tentative amended WDRs was released for public comment on December 18, 2015. Written comments were accepted until 5:00 p.m. on January 19, 2016.
- 91. The Regional Board, in a public meeting on February 11, 2016, heard and considered all comments pertaining to these WDRs.

IT IS HEREBY ORDERED that the Los Angeles County Flood Control District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following, pursuant to authority under California Water Code sections 13263 and 13267.

Permitted Activities

- 1. LACFCD proposes to clear vegetation and debris from 100 earth-bottom channel reaches in order to provide flood control and protect human health and property.
- 2. The 100 channels include a total of 45 miles of waterways throughout Los Angeles County and approximately 947 acres of jurisdictional waters of the United States.
- 3. The reaches listed in Attachment 1 are included under this Order. This list has been updated to reflect all 100 channel reaches and is consistent with the list in the Preliminary Jurisdictional Delineation Report prepared by LACFCD dated September 4, 2014. Attachment 1 includes the LACFCD reach number (1 to 110), hydrologic code, beneficial uses, length, acreage, and location information.
- 4. Channel reaches identified as County Reach numbers 11, 17, 23, 30, 31, 65, 68, 81, 83, 84, 85 and 111 (12 total) are not included in this Order and shall be removed from the Approved Maintenance Plan. Any required maintenance in these channels will be permitted or certified separately.
- 5. Land use changes have resulted in the addition of new reaches, Reaches 112–119. These new reaches will be permitted under a separate CWA Section 401 Water Quality Certification.

- 6. Unless approved by the Regional Board after results of the Feasibility Study and approved by other appropriate regulatory agencies including the ACOE and CDFW, channel clearing shall not exceed "1997/1998 storm season clearing level" conditions established by the Regional Board, CDFW (then CDFG), and ACOE prior to the 1997 El Niño storm season (Reaches 1-100). This baseline level was utilized to identify the maximum vegetation removal authorized for each reach, and will be incorporated into the new Maintenance Plan with changes resulting from the Feasibility Studies as the changes are approved by the appropriate regulatory agencies identified above.
- 7. LACFCD shall comply with the specifications of the Maintenance Plan, and the Mitigation Monitoring Program prepared for this maintenance program, or any subsequently approved plans that follow. Only revisions approved by the Regional Board Executive Officer, ACOE and CDFW shall be authorized for this project.
- 8. Clearing will be either through the use of heavy equipment, including trucks, bulldozers, dump trucks, and front-end loaders, along with other specialized equipment, or in areas where there are sensitive species and native vegetation, clearing shall take place by hand as specified in the approved Maintenance Plan in order to selectively avoid protected resources. Equipment will access the channels by existing access roads.

Maintenance of All Existing Invert Access Ramps

9. All existing channel invert access ramps shall be part of the approved annual maintenance for all earth-bottom channel facilities, including new reaches that have been added to the WDR. The invert access ramps, whether constructed with dirt, lined with concrete, or armored with riprap on the sides, are critical structures for access to earth-bottom channel reaches.

Maintenance activities for these ramps shall include inspection, minor maintenance repairs, and storm damage repair and rehabilitation. Storm damage repair and rehabilitation includes restoring ramps that are damaged or washed out during a storm, back to pre-storm conditions.

- 10. Notching and limited vegetation removal from drain channel outlets shall be conducted on reaches where mechanical removal of sediment and vegetation is allowed, and is consistent with the original channel designs. In stream reaches that are approved for mowing or hand removal of vegetation, work on installing notches at 45-degrees and clearing drain channel outlets shall be conducted by hand and/or hand tools, and shall be consistent with all terms of the Maintenance Plan and WDRs.
- 11. Maintenance activities may require conducting as-needed sediment removal to provide continuous flow (to address vector issues), capacity, vegetative growth, and proper drainage. Locations and amounts of sediment removed will be reported as part of the Annual Reports.

- 12. Non-emergency minor repairs during the winter season may include the following: regrading inverts to repair minor erosion and to remove ponded water; repair of minor storm damage; and in-kind structural repairs. These repairs may include, but are not limited to, minor in-kind riprap replacement, flap gate repair and/or replacement, invert and slope repairs, and erosion control structures.
- 13. In order to obtain accurate flow readings from all monitoring equipment mounted on bridges and/or other structures, vegetation within monitored channels will be cleared to bank-full capacity (unless otherwise specified in the Annual Workplan) upstream and downstream of the gauges, conduits, pumps, sensors, and probes or bridge to obtain accurate readings and prevent equipment damage. In addition, maintenance may include performing repair and replacement in kind of existing monitoring equipment if inspection results require such activities. Stream gauge maintenance will occur between September 1 and March 1. If maintenance activities on these monitoring equipment is necessary during the nesting season, appropriate nesting bird surveys will be conducted prior to starting work. Routine maintenance, inspection and calibration, including clearance of accumulated sediment and/or vegetation within three feet of the water quality monitoring equipment may need to be conducted during dry weather to ensure proper operation.

Notification Protocol and Thresholds for Additional Review

14. Pursuant to California Water Code section 13267. LACFCD shall submit an Annual Workplan with a schedule of the upcoming reaches proposed for maintenance clearing. The Annual Workplan shall include, at a minimum, the following information: (a) proposed schedule; (b) acreage of areas to be impacted (vegetated and non-vegetated); (c) a description of any existing aquatic resources; (d) site-specific BMPs to be implemented; and (e) proposed application of pesticides. The Discharger shall send the Annual Workplan not later than July 15 of each year to the Regional Board Executive Officer and 401 Certification Unit staff, and send notices of additional routine maintenance work as the needs are discovered in the field. The Executive Officer may require additional time to review or add additional requirements or require separate permitting for certain activities proposed upon review of the Annual Workplan or notice of additional routine maintenance work; however, if the Executive Officer does not provide any comments, additional requirements or a request for additional time within 60 days for the Annual Workplan, or 15 days for the notice of additional routine maintenance work, LACFCD is authorized to proceed pursuant to the Annual Workplan or notice of additional routine maintenance work as proposed.

Routine maintenance may require additional review if the work exceeds certain thresholds of impact. For projects that exceed the following thresholds, the Discharger shall provide information similar to a pre-construction notification for a 401 Water Quality Certification for 60-day review.

Project Exceeds Original Footprint

For any work resulting in temporary or permanent impacts within the ordinary high water

mark outside the original project boundaries, LACFCD shall submit a new proposed scope of work to the Regional Board Executive Officer with all pertinent information for consideration to support either confirmation that the project area(s) is within the scope of these WDRs or a determination that the LACFCD must apply for supplemental WDRs or a separate CWA Section 401 Water Quality Certification for the work.

<u>Project Deviates from the Pre-Approved Surface Water Diversion Plan</u> If a water diversion is planned to occur in a manner which deviates from the Pre-Approved Water Diversion Plan, LACFCD shall submit the new plan to the Regional Board Executive Officer for review and approval. The Executive Officer is authorized to approve changes to the Surface Water Diversion Plan provided that it is consistent with this Order.

Best Management Practices

15. All appropriate Best Management Practices (BMPs) shall be implemented in order to avoid any impacts to water quality. LACFCD shall follow the "BMP Manual for Soft Bottom Clearing" developed by LACFCD in 2003 and all other necessary BMPs. The maintenance clearing activities shall not result in indirect impacts to water quality or beneficial uses of downstream water bodies. The maintenance clearing activities shall not result in changes in the quantity or quality of water in downstream waterbodies as a result of maintenance activity, or during operation subsequent to the maintenance activities. The maintenance clearing activities shall not result in changes in water quality in the channel that would cause or contribute to water quality exceedances during periods between maintenance activities, or upon their annual completion.

Feasibility Study

- 16. The Regional Board requires Feasibility Studies of the earth-bottom channels and associated maintenance activities covered by these WDRs in order to either:
 - a. Determine that the channel clearing activities have avoided and minimized where possible vegetation clearing; and appropriately mitigated for effects of vegetation clearing on the beneficial uses of the affected reaches where avoidance is not possible; or
 - b. Support modifications to channel clearing activities to achieve the appropriate and necessary levels of avoidance and minimization; and mitigation where avoidance is not possible.
- 17. As part of the on-going assessment of channel conditions and hydraulic capacity, LACFCD shall perform a study of the hydraulic capacity and existing conditions of all reaches covered by these WDRs to determine where the potential may exist for native vegetation to remain within the soft-bottom portion of the channel or if additional hydraulic capacity is needed. In addition, any channels which may potentially provide restoration opportunities for riparian habitat/vegetation growth shall be identified based on these assessments and a consideration of restoration plans by other agencies.

- 18. LACFCD shall continue the Feasibility Study process with a schedule of one or more watersheds per year. The Regional Board Executive Officer may extend the final deadline by up to 6 months for good cause. LACFCD shall continue to solicit stakeholder input during the remaining Feasibility Study Workplan development and prior to the finalization of the Technical Assessment Report and recommendations.
- 19. The watershed study areas shall include any channels directly or indirectly affected by proposed maintenance.
- 20. For each watershed, the Feasibility Study shall include (but not be limited to) the following components:
 - a. Study Workplan
 - b. Technical Assessment Report
 - c. Recommendations

Feasibility Study Workplans

21. The remaining Feasibility Study Workplans shall continue to be submitted to the Regional Board Executive Officer for approval. The only pending Feasibility Study Workplan is for the Santa Clara River Watershed. The plan will include: a detailed plan for a hydrologic and hydraulic analysis of each earth-bottom segment in relation to the conveyance capacity of the upstream and downstream channels, in addition to the Water Quality Monitoring. The hydraulic analysis shall include, but not be limited to, the height and density of vegetation in the earthen channel bottom and its effect on the conveyance capacity of flood flow in the channel and shall include discussion of changes in expected stream flow in response to requirements of the Los Angeles County Municipal Separate Storm Sewer System (MS4) NPDES Permit, Standard Urban Stormwater Mitigation Plans (SUSMPs), Total Maximum Daily Loads (TMDLs) and other pertinent local plans including, but not limited to the Integrated Regional Water Management Plan (IRWMP) (including implementation of, and plans for, increased stormwater infiltration), the City of Los Angeles' Integrated Resources Plan, the relevant watershed master plan and LACFCD's Drought Management Plan. Several reasonable Manning's n should be used in the hydraulic analysis to evaluate the representative height of the channel for flood control and natural habitat purposes and should be in accordance with "Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains," United States Geological Survey Water-Supply Paper 2339 or other appropriate guidance.

The assessment of biological functions and values of these reaches should be made such that comparisons of habitat type, maturity and extent of native or invasive plants can be made between reaches.

Water Quality Monitoring

- 22. The objectives of the water quality monitoring are to assess BMP effectiveness and to ensure that water quality is not impacted as a result of the proposed maintenance activities, or surface water diversion. BMPs are to be implemented in association with maintenance activities to avoid impacts to water quality that would result in exceedances of water quality standards. As part of the Feasibility Study, water quality assessments within each reach will be required on a one-time basis before, after, and during maintenance clearing activities. Each project reach will require three (3) sampling stations: upstream of the project reach; within the project reach; and downstream of the project reach. The testing parameters required will be the same as for Surface Water Diversion.
 - pH
 - temperature
 - dissolved oxygen
 - turbidity
 - total suspended solids (TSS)

In addition, in some circumstances, more than one sampling event prior to the start of work may be advisable to establish baseline conditions when baseline conditions are variable. Or, in some circumstances, more than one monitoring location, upstream, within the project reach, or downstream, may be advisable due to the length of the reach and/or to distinguish other influences on water quality. For example, water quality may also vary due to discharges into the project area from storm drains, salt/fresh mixing zones or changes in waterbody characteristics (e.g., a change from a hard to soft, vegetated, bottom). LACFCD shall consider and document if additional sampling events, locations or parameters are needed or useful.

Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Analyses must be performed using approved US Environmental Protection Agency methods, where applicable.

These constituents shall be measured at least once prior to the maintenance activity and then monitored on a daily basis during the first week of maintenance activities, and then on a weekly basis, thereafter, until the work is complete. When reaches are within the watershed designated for a Feasibility Study in a particular year, water quality monitoring should be conducted for those reaches as part of the Feasibility Study and reported with the Technical Assessment Report.

Any exceedance of water quality standards may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

Technical Assessment Report - Hydraulic, and Water Quality Assessment

23. Within 6 months of Workplan approval, a Technical Assessment Report (Report) shall be submitted and will include a reach-by-reach list of all the reaches included in the subject watershed with a hydraulic analysis of each reach.

For each reach, the Report shall address capacity requirements for flood control; design criteria and anticipated limitations; and an analysis of potential areas where vegetation may remain; areas with the potential for restoration of native vegetation; and/or where justification exists to clear additional vegetated area. For those areas where vegetation may remain, the Report should specify the amount(s) and type(s) of native vegetation that could remain in the channel.

A comprehensive hydraulic analysis for the existing vegetation conditions will be developed for each channel reach listed in these WDRs using HEC-RAS. The data needed to perform the hydraulic computations consists of geometric data, flow data, and roughness coefficients. Sources of channel geometry will consist of as-built plans, field measurements, LiDAR (Light Detection and Ranging), and recent topographic surveys.

The design flow rates will be obtained from various sources, including existing channel design plans, hydraulic reports, and hydrologic studies. For undeveloped areas, design flow rates will account for the effects of a burned watershed and the inclusion of sediment (bulking).

Estimating the roughness coefficients through calibration using HEC-RAS will be done when two stream gaging stations, one upstream and one downstream of a channel reach, are available. For channel reaches with no gaging stations, roughness coefficients will be determined following the procedures specified in references "Open-Channel Hydraulics" by Ven T. Chow and "Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains," United States Geological Survey Water-supply Paper 2339. These references describe the use of Cowan's formula, which starts with selecting a base roughness coefficient for native bed material in a straight, uniform, and smooth channel. Based on field site observations and sound engineering judgment, adjustments will be made to the base roughness coefficient to account for surface irregularities, channel cross-section variation in shape and size, obstructions, vegetation, and meandering. Field site investigations will be conducted for all soft-bottom reaches to note vegetation type, density and size, and obstructions within the channel. The information gathered from these site investigations will be used to determine appropriate adjustments and estimate roughness coefficients.

After the hydraulic analyses of the existing vegetation conditions had been completed, the results will be reviewed to determine which reaches have additional capacity and insufficient capacity. For reaches that are found to have additional channel capacity, the amount and type of additional vegetation that might be allowed to remain in the channel reach will be determined in consultation with qualified biologist. A hydraulic model will then be developed using roughness coefficients adjusted to represent the recommended vegetation levels. Results of these models will be checked to ensure that sufficient capacity is maintained along the reach. For reaches with insufficient capacity, the amount of vegetation that needs to be removed to restore flood capacity will be determined.

This Report will also include an assessment of the biological functions and values for each reach and an assessment of water quality as required. These evaluations shall consider whether the vegetation in the channels is native or an exotic and/or invasive species. This will be useful when determining the value or priority of leaving the vegetation in the channel. The documentation shall also distinguish between sections of invasive/exotic species.

Requirements for Feasibility Study Recommendations

- 24. Within 6 months of Workplan approval, LACFCD shall submit recommendations to the Regional Board Executive Officer and shall include options for reaches where vegetation may be allowed to remain or where native vegetation could be re-established. Recommendations shall also include suggested schedules of vegetation removal frequency in order to ensure the maximum habitat preservation is achieved, consistent with necessary flood control. For recommendations approved by the Executive Officer and by other appropriate regulatory agencies including the ACOE and CDFW, LACFCD shall make the necessary changes to the Maintenance Plan, including proposals for additional BMPs as may be appropriate, and shall submit such changes to the Executive Officer 21 days prior to any clearing activities.
- 25. By March 31, 2016, LACFCD will submit to the Regional Board, a draft Feasibility Report for the Malibu Creek and Dominguez Channel.
- 26. By February 28, 2017, LACFCD will submit to the Regional Board, a final Feasibility Report for the Malibu Creek and Dominguez Channel, including recommendations.
- 27. By August 31, 2017, LACFCD will submit to the Regional Board, a draft Feasibility Report for the Santa Clara River.
- 28. By February 28, 2018, LACFCD will submit to the Regional Board, a final Feasibility Report for the Santa Clara River including recommendations as described in item 24, "Requirements for Feasibility Study Recommendations."
- 29. LACFCD shall conduct Risk and Uncertainty analyses or other appropriate analyses, working with the ACOE, as warranted in order to identify those reaches with federally required maintenance requirements that may be candidates for revised maintenance procedures that would allow more vegetation to remain in the channel, or that would allow alternative channel clearing approaches/methods potentially more protective of beneficial uses. LACFCD, with assistance from ACOE and guidance from the WDR Working Group, will work to determine the number of reaches on which to perform Risk and Uncertainty analyses. LACFCD may apply under section 14 of the Rivers and Harbors Act of 1899 and codified in 33 USC section 408 (commonly referred to as

"Section 408") or may pursue alternative approaches as determined by the ACOE for modification of federally required maintenance requirements with the ACOE, if appropriate.

30. LACFCD shall continue to facilitate and host WDR Working Group meetings once per month or less often with concurrence from the WDR Working Group Meeting participants during calendar year 2016, and other outreach activities, as appropriate, to involve stakeholders in review of feasibility reports and decision making concerning priorities for Risk and Uncertainty analyses, Section 408 applications, the location, type and scope of pilot projects to evaluate alternative channel clearing approaches/methods, and potential additional water quality monitoring locations and timing.

Pilot Projects

- 31. Continuing LACFCD's efforts begun in 2015, LACFCD shall identify pilot projects to investigate alternative vegetation management methods that may be more protective of beneficial uses, especially wildlife and habitat uses. Examples of pilot projects may include but are not limited to: mowing as opposed to scraping for vegetation clearing; clearing just one bank of a particular reach each year; replacing an invasive plant species such as *Arundo donax* with slower-growing native species; exploring different combinations of plant species in a given reach; or study and review of land use in the vicinity of a reach to determine if a level of infrequent flooding could be tolerated.
- 32. LACFCD shall provide to the Regional Board Executive Officer, and shall make available to stakeholders, potential pilot projects for the upcoming maintenance season (July 1 to June 30). Additional pilot projects may be identified during the maintenance season.
- 33. LACFCD shall investigate improved maintenance methods by conducting two or more pilot projects each year (July 1 to June 30) after consultation with the Regional Board Executive Officer, ACOE, and stakeholders. If the ACOE prohibits the proposed pilot project, the LACFCD shall identify alternative locations and/or pilot maintenance methods that are acceptable to the ACOE for implementation on a pilot basis. Alternatively, the LACFCD shall identify reaches that are not subject to federal maintenance requirements and, thus, are not subject to ACOE review.
- 34. LACFCD shall evaluate pilot projects in terms of: a) ecological impact, impact to beneficial uses, and impact to local communities; b) positive or negative effects on downstream water quality; c) identification of conditions in permits or other requirements that would need to be modified for the pilot project to be required as routine maintenance; and d) impacts to LACFCD operations in terms of costs, schedule, resources, etc. LACFCD shall consider the recommendations of the WDR Working Group when determining additional evaluation criteria. LACFCD shall provide a technical report evaluating the pilot project within four months of completion of the pilot project with interim recommendations or, when possible, final recommendations.

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- 35. With Regional Board Executive Officer approval, and subject to approval by other agencies including ACOE and CDFW, as necessary, LACFCD shall implement new channel maintenance practices based on the outcomes of the pilot projects during term of this Order, as feasible.
- 36. A technical report containing an evaluation of the Reach 25 and Compton Creek pilot project discussed in Findings 68 and 69 with interim recommendations or, if possible, final recommendations shall be submitted to the Regional Board Executive Officer by March 31, 2016.

Prohibitions

- 33. Fueling, lubrication, maintenance, operation, and storage of vehicles and equipment shall not result in a discharge or a threatened discharge to waters of the State. At no time shall LACFCD use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
- 34. No construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards, shall be located in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.
- 35. The discharge shall not: a) degrade surface water communities and populations including vertebrate, invertebrate, and plant species beyond the permitted vegetation removal; b) promote the breeding of mosquitoes, gnats, black flies, midges, or other pests; c) alter the color, create visual contrast with the natural appearance, nor cause aesthetically undesirable discoloration of the receiving waters; d) cause formation of sludge deposits; or e) adversely affect any designated beneficial uses.

Other Requirements

- 36. LACFCD shall submit copies of any other final permits and agreements required for this project, including, but not limited to, the ACOE CWA Section 404 Permit and the CDFW's Streambed Alteration Agreement to the Regional Board 401 Certification Unit. These documents shall be submitted prior to any discharge to waters of the State.
- 37. LACFCD shall comply with the specifications of its Mitigation Monitoring Program, and the Maintenance Plan, or any subsequently approved plans that follow.
- 38. Prior to any maintenance activities within the subject reaches, LACFCD shall develop and publish watershed maps which indicate areas of maintenance (impact acreages and types of vegetation impacted) and approximate schedules (including baseline biological

surveys, post-surveys and maintenance activity descriptions). This information shall be made publicly available on the LACFCD internet website and be noticed via email notification or other direct notification to watershed councils and other interested persons prior to any routine maintenance activities. For each reach, the information shall include: (a) the proposed schedule; (b) a description of the reach's existing condition; (c) the area of proposed impact; and (d) a description of any existing aquatic resources (e.g., wetland/riparian vegetation based on readily available information and pre-clearing biological surveys). After submission to the Regional Board Executive Officer, LACFCD will post the Annual Project and Mitigation Monitoring Reports as required to the LACFCD website.

- 39. LACFCD shall implement the Plan for Hazard Analysis and Critical Control Points dated April 1, 2010 (HACCP) or any subsequently Executive Officer-approved HACCP to limit the spread of invasive species.
- 40. LACFCD shall comply with all water quality objectives, prohibitions, and policies set forth in the Basin Plan, as amended.
- 41. LACFCD shall implement all Best Management Practices as outlined in the Maintenance Plan, including, but not limited to, the following:

Prior to start of any annual maintenance clearing, qualified biologists shall perform preclearing biological resource surveys and photo documentation including sensitive/endangered species focused surveys on specific reaches. No work shall commence without confirmation of findings or no findings of sensitive/endangered species from the biologists. These surveys are also meant to minimize impact on any resources that may potentially use or benefit from the channel.

During construction, biologists shall be available for consultation for any issues that may arise.

- 42. LACFCD and all contractors employed by LACFCD shall have copies of this Order, the approved Maintenance Plan, and all other regulatory approvals for this project on site at all times and shall be familiar with all conditions set forth therein.
- 43. All excavation, construction, or maintenance activities shall follow best management practices to minimize impacts to water quality and beneficial uses. Dust control activities shall be conducted in such a manner that will not produce downstream runoff.
- 44. All waste and/or dredged material removed shall be relocated to a legal point of disposal if applicable. A legal point of disposal is defined as one for which WDRs have been established by a California Regional Water Quality Control Board, and is in full compliance therewith. Please contact the Land Disposal Unit, at (213) 620-6600 for further information.

- 45. LACFCD shall implement all necessary control measures to prevent the degradation of water quality from the proposed project in order to maintain compliance with the Basin Plan. The discharge shall meet all effluent limitations and toxic and effluent standards established to comply with the applicable water quality standards and other appropriate requirements, including the provisions of sections 301, 302, 303, 306, and 307 of the CWA. This Order does not authorize the discharge by LACFCD for any other activity than specifically described in the current CWA Section 404 Permit for this project.
- 46. LACFCD shall allow the Regional Board and its authorized representative entry to the premises, including all mitigation sites, to inspect and undertake any activity to determine compliance with this Order, or as otherwise authorized by the CWC.
- 47. Application of pesticides must be supervised by a certified applicator and be in conformance with manufacturer's specifications for use. Compounds used must be appropriate to the target species and habitat. Pesticide utilization shall be in accordance with State Water Resources Control Board pesticide permits including Water Quality Order Nos. 2011-0003-DWQ, for Aquatic Animal Invasive Species Control; 2011-0004-DWQ, for Spray Applications; 2011-0002-DWQ, for Vector Control; and 2013-0002-DWQ, for Weed Control.
- 48. LACFCD shall not conduct any routine maintenance activities within waters of the State during a rainfall event. LACFCD shall maintain a one-day (1-day) clear weather forecast before conducting any operations within waters of the State. If rain is predicted within 12 hours after operations have begun, activities shall cease temporarily, and protective measures to prevent siltation/erosion shall be implemented and maintained.
- 49. LACFCD shall utilize the services of a qualified biologist with expertise in riparian assessments during all construction activities where clearing involves areas to be partially cleared (i.e., some vegetation is to remain in the same reach or in an adjacent reach). The biologist shall be available if necessary during maintenance activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.
- 50. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, LACFCD shall file a Report of Waste Discharge to this Regional Board and obtain any necessary NPDES permits/WDRs prior to discharging waste. Sufficient time should be allowed to obtain any such permits (generally 180 days). If groundwater is encountered without the benefit of appropriate permits, LACFCD shall cease all activities in the areas where groundwater is present, file a Report of Waste Discharge to this Regional Board, and obtain any necessary permits prior to discharging waste.

- 51. All maintenance activities not included in this Order, and which may require a permit, must be reported to the Regional Board for appropriate permitting. Bank stabilization and grading, as well as any other ground disturbances, are subject to restoration and revegetation requirements, and may require additional WDR action.
- 52. Maintenance activities in the Santa Clara River area shall comply with the provisions of the Natural Rivers Management Plan (NRMP). The following provisions apply to soft-bottom channel reaches that are within the jurisdiction of the approved NRMP: a) Periodic clearing of vegetation immediately upstream and downstream of certain existing bridges which were not designed in accordance with the NRMP; b) Periodic removal of woody vegetation from riprap to protect its structural integrity; c) Periodic clearing of storm drain outlets to ensure proper drainage; d) Periodic removal of ponded water that causes odor problems; e) As-needed repairs of bridges; f) As-needed repairs of bank protection; and g) As-needed clearing of vegetation from water quality filters and treatment basins.
- 53. All surface waters, including ponded waters, shall 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.
- 54. LACFCD shall develop and submit a Surface Water Diversion Plan (plan) to the Executive Officer. The Surface Water Diversion Plan shall include the proposed method and duration of diversion activities, structure configuration, construction materials, equipment, erosion and sediment controls, and a map or drawing indicating the locations of diversion and discharge points. Contingency measures to address the need for regulation of flow discharge rates and/or direction of flows to protect beneficial uses downstream of the diversion shall be included as part of the Surface Water Diversion Plan. The Surface Water Diversion Plan shall be submitted prior to any surface water diversions.
- 55. LACFCD shall implement the Surface Water Diversion Plan for all water diversions or, for circumstances which require a deviation from the Surface Water Diversion Plan, may submit to the Regional Board an individual plan for the surface water diversion prior to the surface water diversion.
- 56. If surface flows are present, then upstream and downstream monitoring for the following shall be implemented:
 - pH
 - temperature
 - dissolved oxygen
 - turbidity
 - total suspended solids (TSS)

In addition, in some circumstances, more than one sampling event prior to the start of work may be advisable to establish baseline conditions when baseline conditions are variable. Or, in some circumstances, more than one monitoring location, upstream, within the project reach, or downstream, may be advisable due to the length of the reach and/or to distinguish other influences on water quality. For example, water quality may also vary due to discharges into the project area from storm drains, salt/fresh mixing zones or changes in waterbody characteristics (e.g., a change from a hard to soft, vegetated, bottom). LACFCD shall consider and document if additional sampling events, locations or parameters are needed or useful.

Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Analyses must be performed using approved US Environmental Protection Agency methods, where applicable. These constituents shall be measured at least once prior to diversion and then monitored for on a daily basis during the first week of diversion and/or dewatering activities, and then on a weekly basis, thereafter, until the in-stream work is complete.

LACFCD shall submit results of the analyses as part of the Annual Monitoring Report to the Regional Board, to the attention of the 401 Program Unit, in a tabular format containing results of each parameter for each channel reach. Diversion activities shall not result in the degradation of beneficial uses or exceedance of water quality objectives of the receiving waters. Any such violations may result in corrective and/or enforcement actions, including increased monitoring and sample collection.

- 57. LACFCD shall restore all areas of TEMPORARY IMPACTS to waters of the United States and all other areas of temporary disturbance outside of areas of maintenance which could result in a discharge or a threatened discharge to waters of the State. Restoration shall include returning areas to pre-project contours and planting with native vegetation, if feasible. Restored areas shall be monitored and maintained with native species as necessary for five years. LACFCD shall implement all necessary Best Management Practices to control erosion and runoff from areas associated with this project.
- 58. If ongoing maintenance activities on a new channel reach were covered by previous certifications with mitigation, additional mitigation will not be required. Prior to clearing of the new reaches, or where additional clearing has been authorized by the Regional Board, LACFCD will document and provide to the Regional Board the amount of riparian vegetation to be removed for maintenance in these reaches.
- 59. LACFCD shall provide COMPENSATORY MITIGATION for the new impacts based on a ranking system which evaluates functions and values within each reach. Mitigation ratios will be determined on a case-by-case basis in compliance with the USEPA and ACOE 2008 Final Rule for Compensatory Mitigation for Losses of Aquatic Resources. Mitigation proposed by LACFCD will require approval by the Regional Board Executive Officer.

- 60. LACFCD shall submit a draft Mitigation Plan for approval by the Regional Board Executive Officer for the new permanent impacts on a timeline as agreed collectively and for approval by all regulatory agencies, including the ACOE and CDFW. The Draft Mitigation Plan will specify the proposed types of mitigation types, third party conservancies, or in lieu fee programs as determined by LACFCD, the Regional Board, ACOE, and CDFW. The Draft Mitigation Plan shall also include location, methods, monitoring, performance criteria, reporting and any other pertinent information. The Regional Board Executive Officer will approve the plan, require changes and resubmission, or will make modifications to the plan, as appropriate to achieve the no-net-loss policy of Executive Order W-59-93.
- 61. Mitigation shall take place in the vicinity of the impacted reach or off-site. If not feasible, within the same watershed. If LACFCD can demonstrate that there are no mitigation areas in the same watershed, mitigation may occur through in-lieu funding with an approved Mitigation Bank or via a Conservancy Group, as approved by all regulatory agencies including the ACOE and CDFW.
- 62. All mitigation areas shall be preserved and maintained as habitat in perpetuity.
- 63. To determine compliance with this Order, pursuant to CWC section 13267, LACFCD shall submit to the Regional Board Executive Officer an Annual Project and Mitigation Monitoring Report (Annual Report) by May 1st of each year for each year this Order is in effect. Any revisions to the previous Annual Reporting outline and/or technical or field checklists shall be submitted to the Regional Board Executive Officer for approval within 60 days of the issuance of this amended Order.
- 64. The Annual Report shall describe in detail all of the project/maintenance activities performed during the previous year and all restoration and mitigation efforts until success targets are met. The Annual Reports shall describe the status of other agreements (e.g., mitigation banking) or any delays in the mitigation process. At a minimum the Annual Reports shall include the following documentation, as set forth in the Annual Report Outline dated April 5, 2010:

Annual Report Summary

- a. List of attached documentation;
- b. Description of all project/maintenance activities performed during the previous year;
- c. Discussion of all restoration and mitigation efforts;
- d. Status of other agreements (e.g., mitigation banking) or any delays in the mitigation process;
- e. Summary of compliance with all requirements of these WDRs; and
- f. A certified statement (Declaration) from LACFCD that all information reported in the annual report is complete and accurate.

Documentation/Attachments

- a. Mitigation site: color photo documentation (pre-, during, and post-project and mitigation site conditions);
- b. Narrative and photo documentation of any BMP installations during and postproject maintenance activities;
- c. Evaluation of the effectiveness of BMPs utilized based on field observations and water quality monitoring data required;
- d. Photo documentation of any vegetation left within maintenance areas immediately following maintenance clearing (including acreage);
- e. Documentation of estimates of volumes of vegetation removed from the project areas including an analysis of inter-annual trends in vegetation loads;
- f. Documentation of estimates of volumes of trash removed from the project areas including an analysis of inter-annual trends in trash loads;
- g. Documentation of estimates of volumes of sediment removed from the project areas including an analysis of inter-annual trends in sediment loads;
- h. Biological information including baseline biological surveys and post-surveys;
- i. Geographical positioning system (GPS) coordinates in decimal-degrees format outlining the boundary of actual project and new mitigation areas (one time submittal);
- j. The overall status of project including a detailed schedule of work;
- k. Copies of all revised permits related to this project;
- 1. Water quality monitoring results for each reach;
- m. A certified statement of "No Net Loss" of Wetlands Associated with this project;
- n. Discussion of any monitoring activities and exotic plant control efforts; and
- o. Description of all outreach activities in the previous year.
- 65. All applications, reports, or information submitted to the Regional Board shall be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.
- 66. Each and any report submitted in accordance with this Order shall contain the following completed declaration;

"I declare under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who managed the system or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on the _____ day of _____ at ____.

_____ (Signature)
Los Angeles County Flood Control District Earth-Bottom Flood Control Channels Waste Discharge Requirements Order No. R4-2015-0032-A1

(Title)"

- 67. All communications regarding this project and submitted to this Regional Board shall identify the Project File Number 99-011 2015 Amended WDR. Submittals shall be sent to the Executive Officer where identified and to the 401 Certification Unit, Attention: Valerie Carrillo Zara.
- 68. Any modifications of the proposed project may require submittal of a new CWA Section 401 Water Quality Certification application or Report of Waste Discharge and appropriate filing fee.

Compliance and Enforcement

- 69. LACFCD or their agents shall report any noncompliance with this Order. Any such information shall be provided verbally to the Executive Officer within 24 hours from the time LACFCD becomes aware of the circumstances. A written submission shall also be provided within five days of the time LACFCD becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- 70. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law.
- 71. In response to a suspected violation of any condition of this Order, the State Board or Regional Board may require the holder of any permit or license subject to this Order to furnish, under penalty of perjury, any technical or monitoring reports the State Board or Regional Board deems appropriate, provided that the burden, including costs, of the reports shall be a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
- 72. In response to any violation of the conditions of this Order, the State Board or Regional Board may add to or modify the conditions of this Order as appropriate to ensure compliance.
- 73. After notice and opportunity for a hearing, this Order may be modified, revoked and reissued, or terminated or modified for cause, including, but not limited to:
 - a. Violation of any term or condition contained in this Order;
 - b. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts;

- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized reuse;
- d. Endangerment to public health or environment that can only be regulated to acceptable levels by Order modification or termination.
- 74. Additional Reports: The Dischargers shall furnish any information the Regional Board may request to determine whether or not cause exists for modifying, revoking and reissuing, or terminating this Order. The Dischargers shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.

Effective Date and Term

- 75. This amended Order takes effect upon its adoption by the Regional Board.
- 76. Term: This Order expires on July 20, 2018 or upon such time it is replaced coincident with a renewed ACOE CWA Section 404 permit, whichever is sooner. If an ACOE CWA Section 404 permit is renewed, LACFCD must file a Report of Waste Discharge with the Regional Board no later than 120 days before of the expected date of the renewed ACOE CWA Section 404 permit for consideration of issuance of new or revised requirements. If no such ACOE CWA Section 404 Permit is renewed and LACFCD wishes to continue maintenance activities after this Order expires, LACFCD must file a Report of Waste Discharge with the Regional Board no later than 120 days before the expiration date of this Order for consideration of issuance of new or revised requirements. Any discharge of waste after the expiration date of this Order is a violation of Water Code section 13264. The Regional Board is authorized to take appropriate enforcement action for any noncompliance with this provision including assessment of penalties.
- 77. Regional Board Order No. R4-2010-0021, adopted by the Regional Board on February 4, 2010, is hereby terminated, except for enforcement purposes.

I, Samuel Unger, Executive Officer, do hereby certify that this Order with all attachments is a full, true and correct copy of the Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on February 12, 2015, and amended on February 11, 2016.

Samuel Unger, P.E.

Executive Officer

Attachment 1. Reaches 1-110 LACFCD soft-bottom channel WDR Attachment 2. Reaches 1-110 permitting summary LACFCD soft-bottom channel WDR

					η		Upstream			Downstream	1
Waters Name	Hydrological Code	Beneficial Uses	Area (acres)	Length (feet)	Latitude	Longitude	Cross streets	Latitude	Longitude	Cross Streets	Local Waterway
1 - Bell Creek- MTD 963 M.C.I.	180701050210	MUN, GWR, REC-1, REC-2, WARM, WILD	0.9	197	34.20267	-118.65899	9 962' u/s of Highlander Rd	34,20242	-118 65843	766' u/s of Highlander Rd	Boll Crock
2 - Dry Canyon Creek (Calabasas) PD T1845	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD	1.24	1549	34.14711	-118.63044	4 676' u/s Park Ora	34.15177	-118.63181	870' d/s Park Ora	Dar Capyon
3 - Santa Susana Creek tributary to Browns Canyon Creek M.C.I.	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD	0.06	99	34.27091	-118.60975	5 5560' N of Devonshire St	34.27096	-118.60990	5635' N or Devonshire St	Santa Susana Creek
4 - Browns Canyon Creek	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD.	3	1303	34.271614	-118.59077	6 1895' u/s of Rinaldi St	34.27502	-118.59174	556' u/s of Rinaldi St	Browns Creek
5 - Caballero Creek M.C.I. (West Fork)	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD	1.3	654	34.14974	-118.53684	5 890' u/s of Reseda Blvd	34.15061	-118.53665	238' u/s of Reseda Blvd	Caballero Creek
6 - Caballero Creek M.C.I. (East Fork)	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD	0.35	164	34.14991	-118.53641	6 588' u/s of Reseda Bivd	34.15027	-118.53674	428' u/s of Reseda Blvd	Caballero Creek
7 - Bull Creek M.C.O.	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD	5.61	2704	34.17875	-118.4978	165' d/s of c/l of Victory Blvd	34.18617	-118.49778	Confluence w/ Los Angeles River	Bull Creek
8 - Hayvenhurst Drain, tributary to the Sepulveda Flood Control Basin Project - Proje	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD, WET	0.3	218	34.16421	-118.49152	5 Havenhurst	34.16472	-118.49105	Ventura Fwy	Tributary of LA River
9 -Tributary to the Sepulveda Flood Control Basin, Project 106 Outlet	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD, WET	0.12	120	34.18557	-118.47502	2 400' d/s of Victory Blvd	34.18524	-118.47502	520' d/s of Victory Blvd	Sepulveda Basin
10 - Tributary to the Sepulveda Flood Control Basin, Project No 469	180701050208	MUN, GWR, REC-1, REC-2, WARM, WILD, WET.	7.12	4084	34.18843	-118.47365	5 751' d/s of Victory Blvd	34.18477	-118.48406	LA River (4945' d/s of Victory Bivd)	Tributary of LA River
12 - Haines Canyon Creek M.C.O.	180701050105	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	0.4	400	34.2684	-118.32128	791' d/s of Wentworth St	34.26843	-118.32194	1228' d/s of Wentworth St	Haines Canyon
13 - Tributary to Hansen Lake, Project No 5215 unit 1	180701050205	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	0.55	591	34.27146	-118.3591	1030' d/s of Foothill Blvd	34.26999	-118.35995	1535' d/s of Foothill Blvd	Tributary of Tujunga Wash
14 - May Channel (M.C.O. into Pacoima Cyn)	180701050206	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	0.63	588	34.31194	-118.41056	3038' d/s of Hubbard St	34.31058	-118.40975	3728' d/s of Hubbard St/Conf. W/ Pacoima Cyn	May Channel
15 - Pacoima Wash	180701050204	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	5.25	4656	34.22734	-118.45947	159' d/s of Parthenia	34.21471	-118.45828	1187' d/s of Lanark St	Pacoima Wash
16 - Verdugo Wash-Las Barras Cyn (chnl inlet)	180701050207	MUN, GWR, REC-1, REC-2, WARM, WILD.	0.07	131	34.23318	-118.27123	157' u/s of conf. w/Las Barras Cyn Chnl	34.23310	-118.27142	27' u/s of conf. w/Las Barras Cyn Channel	Verdugo Wash
18 - Engleheard Channel, tributary to Verdugo Wash	180701050207	MUN, GWR, REC-1, REC-2, WARM, WILD	1.1	744	34.20773	-118.24328	800' u/s of conf. w/ Verdugo Wash	34.20707	-118.24096	Conf. w/ Verdugo Wash	Verdugo Wash
19 - Pickens Canyon, tributary to Verdugo Wash	180701050207	MUN, GWR, REC-1, REC-2, WARM, WILD	3.42	2461	34.22852	-118.22765	Críb dam No.7	34.22224	-118.22892	Pickens Debris Basin	Picken's Canyon
20 - Webber Channel, tributary to Halls Canyon Channel (strm @ private bridge)	180701050207	MUN, IND, PROC, GWR, REC-1, REC-2, WARM, WILD	0.13	123	34.22804	-118.21786	861' u/s of Los Amigos St	34.22792	-118.21801	746' u/s of Los Amigos St	Webber Channel
21 - Webber Channel, tributary to Halls Canyon Channel (main chnl inlet d/s bridge)	180701050207	MUN, IND, PROC, GWR, REC-1, REC-2, WARM, WILD	0.03	25	34.22753	-118.21875	496' u/s of Los Amigos St	34.22750	-118.21879	471' u/s of Los Amigos St	Webber Channel
22 - Halls Canyon Channel	180701050207	MUN, IND, PROC, GWR, REC-1, REC-2, WARM, WILD	2.63	2465	34.22228	-118.22217	1370' u/s of Jessen Dr	34.22315	-118.22090	Halls Cyn Debris Basin	Halls Canyon
24 - Compton Creek	180701060606	MUN, GWR, REC-1, REC-2, WARM, WILD, WET	30.3	13495	33.87585	-118.21981	COE Station 199+31.00	33.84239	-118.20489	Los Angeles River	Los Angeles River
25a - Los Angeles River - Willow to PCH (East/Left bank)	180701060606	MON, IND, PROC, GWR, NAV, REC-1, REC-2, COMM,	56.7	5127	33.80427	-118.20471	Willow St	33.79722	-118.20466	Pacific Coast Hwy	Los Angeles River
25b - Los Angeles River - Willow to PCH (West/Right bank)	100/01000000	WET	50.2	5127	33.79166	-118.21419	Willow St	33.79019	-118.20622	Pacific Coast Hwy	Los Angeles River
26 - Tributary to Dominguez Channel, Project 740	180701060606	MUN, NAV, REC-1, REC-2, COMM, WARM, EST, MAR, WILD, RARE, MIGR, SPWN.	0.35	947	33.87151	-118.29046	500' u/s of Artesia Blvd	33.87407	-118.29061	400' d/s Artesia Blvd	Unnamed Tributary of Dominguez
27 - Wilmington Drain	180701060606	MUN, REC-1, REC-2, WARM, WILD, RARE, WET	7.87	3045	33.79928	-118.28843	110 Fwy	33.79114	-118.28580	Pacific Coast Hwy	Wilmington Drain
28 - Triunfo Ck (PD T2200)	180701050402	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	23	431	34.11493	-118.77973	384' u/s of Mulholland Hwy	34.11439	-118.77941	D/s edge of Mulholland Hwy	Triunfo Creek
29 - Las Virgenes Creek (PD T1684) M.C.I.	180701050205	MUN, REC-1, REC-2, WARM, COLD, WILD, RARE, MIGR, SPWN, WET	1.16	357	34.16862	-118.70269	Los Angeles/Ventura County Boundary	34.16796	-118.70183	3006' u/s of Thousand Oaks Blvd	Las Virgenes Creek
32 - Stokes Cyn Channel (PD T043)	180701050205	MUN, REC-1, REC-2, WARM, COLD, WILD, RARE, MIGR, SPWN, WET	1.4	2178	34.10891	-118.696319	Int. of Quad Sheet blue line w/east bdy Sec 6	34.11058	-118.69363	1600' u/s Mulholland Hwy & Stokes Cyn Rd	Stokes Canyon
33 - Medea Creek (PD T1378 u.2)	180701060606	MUN, GWR, REC-1, REC-2, WARM, COLD, WILD, RARE, WET.	0.69	818	34.15525	-118.75899	731' u/s of Thousand Oaks Blvd.	34.15420	-118.75953	215' d/s of Thousand Oaks Blvd	Medea Creek
34 - Medea Creek (PD T1005) Main Channel Outlet (Chumasa Park)	180701060606	MUN, ND, PROC, AGR, GWR, REC-1, REC-2, WARM, COLD; WILD, RARE	0.19	413	34.14589	-118.75564	535' d/s of Kanan	34.14863	-118.75040	940' d/s of Kanan	Medea Creek
35 - Medea Creek M.C.Iunder Route 101	180701060606	MUN, GWR, REC-1, REC-2, WARM, COLD, WILD, RARE, WET	0.14	99	34.14384	-118.76184	98' u/s of u/s side of Roadside Dr	34.14530	-118.75767	13' u/s of u/s side of Roadside Dr	Medea Creek
36 - Cheseboro Main Channel Inlet	180701060606	MUN, GWR, REC-1, REC-2, WARM, COLD, WILD, RARE, WET	0.08	61	34.14262	-118.74363	100' u/s of Driver Ave	34.14579	-118.73993	44' u/s of Driver Ave	Cheseboro Main Channel inlet
37 - Medea Ck/Cheseboro Ck Outlet	180701060606	MUN, GWR, REC-1, REC-2, WARM, COLD, WILD, RARE, WET	0.47	228	34.14199	-118.75937	614' d/s of Agoura Road	34.14202	-118.75899	784' d/s Agoura Road	Medea Creek
38 - Lindero Creek M.C.O.	180701060606	MUN, REC-1, REC-2, WARM, WILD	0.19	205	34.14301	-118.76405	83' d/s of Agoura Rd	34.14271	-118.76403	270' d/s of Agoura Road	Lindero Main Channel Outlet
39 - San Gabriel River, Beatty Channel Outlet @ SGR 25+99.00	180701060601	MUN, IND, PROC, AGR, GWR, REC-1, REC-2, WARM, COLD, WILD, RARE	0.26	406	34.14388	-117.93313	2323' d/s of Todd Ave	34.14404	-117.93377	2415' d/s of Todd Ave	Beatty Channel Outlet
40a - San Gabriel River - Santa Fe Dam to I-10 Freeway	180701060601	COLD, WILD, RARE	0.32	20996	34.06229	-117.97878	Santa Fe Dam	34.06452	-118.00442	l-10 Freeway	San Gabriel River
40b - San Gabriel River - I-10 Freeway to Thienes Ave	180701060601	MUN, GWR, REC-1, REC-2, WARM, WILD, RARE	254.22	12374	34.05158	-118.0157	El Monte	34.03859	-118.02697	Thienes Ave	San Gabriel River
41 - Walnut Creek	180701060601	MUN, GWR, REC-1, REC-2, WARM, WILD, WET	40.9	6090	34.06058	-117.99677	N Baldwin Park Blvd	34.05866	-118.00638	San Gabriel River	San Gabriel River
42 - San Jose Creek d/s 1000' from end of concrete channel	180701060601	MUN, GWR, REC1, REC2, WILD, WET	2.75	801	34.03257	-118.00566	COE Station 87+25.00	34.03237	-118.00829	COE Station 79+25.00	San Jose Creek
43a - San Gabriel River - Upper	180701060601	COLD; WILD, RARE	74.61	3586	34.017319	-118.05875	Whittier Narrows Dam	34.01355	-118.06256	San Gabriel River Parkway	San Gabriel River
43b- San Gabriel River- Lower	180701060601	COLD; WILD, RARE		3068	34.00759	-118.06985	San Gabriel River Parkway	34.00678	-118.06849	Beverly Blvd	San Gabriel River
44 - San Gabriel River- Rubber Dams	180701060601	COLD; WILD, RARE	175.76	30895	33.96892	-118.08779	Beverly Blvd	33.93116	-118.10702	Firestone Blvd	San Gabriel River
45 - Sand Canyon (PD T1307) Main Channel Inlet	180701020201	WARM, WILD, RARE, WET	0.05	102	34.43108	-118.4207	2018' u/s of Soledad Cyn Rd	34.43096	-118.42079	1916' u/s of Soledad Cyn Rd	Sand Canyon
46 - Sand Canyon (PD T1307) Main Channel Outlet	180701020201	WARM, WILD, RARE, WET	0.03	84	34.42971	-118.42267	1100' u/s of Soledad Cyn Rd	34.42959	-118.42270	1020' u/s of Soledad Cyn Rd	Sand Canyon

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47 - Santa Clara Ríver Main Chnl. (PD 1733 unit 1)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	0.76	1658	34.41467	-118.44702	D/s edge of State Route 14	34.41431	-118.44973	1875' d/s of State Route 14	Santa Clara River
48 - Mint Cyn Channel b/w Sierra Hwy & Adon Ave	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD.	3.1	2501	34.43035	-118.4432	Sierra Hwy	34.42489	-118.44797	1800' d/s of Sierra Hwy	Mint Cyn Channel
49 - Mint Cyn Channel b/w Adon Ave & Scherzinger	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD	0.68	385	34.4244	-118.44846	Under Adon Ave	34.42398	-118.44884	382' d/s of Adon Ave	Mint Cyn Channel
50 - Mint Cyn Channel b/w Solomint & Soledad	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	1.54	735	34.41442	-118.44903	768' u/s of Soledad Cyn Rd	34.41683	-118.45382	99' u/s of Soledad Cyn Rd	Mint Cyn Channel
51 - Mint Cyn M.C.O. (PD 1894)/Santa Clara River - Main Channel	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD	6.4	931	34.41358	-118.45596	1044' d/s of Soledad Cyn Rd	34.41323	-118.45743	SCR on d/s side of Sierra Hwy	Mint Cyn Channel
52 - Sierra Hwy Rd Drainage (CDR 523.203)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD.	0.4	772	34.41792	-118.45414	253' s/w of Dolan & east edge of Sierra Hwy	34.41688	-118.45393	Confluence w/ Mint Cyn Channel	Sierra Hwy Rd Drainage
53 - Santa Clara River Non-main Chnl. (PD 832) M.C.I.	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	0.03	35	34.40727	-118.46415	25' d/s of Sierra Hwy	34.40936	-118.46013	70' d/s of Sierra Hwy	Santa Clara River
54 - Santa Clara River Non-main Chnl. (PD 832) M.C.I.	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	0.31	316	34.41148	-118.4592	821' d/s of Sierra Hwy	34.41186	-118.45946	1098' d/s of Sierra Hwy	Santa Clara River
55 - Santa Clara River Main Chnl. Right Bank Reach (PD's 910, 832, 1758, 1562 unit 2	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	1.63	3518	34.41111	-118.46885	Sierra Hwy	34.41323	-118.45743	3049' d/s Sierra Hwy	Santa Clara River
56 - Santa Clara River Main Chnl - Left Bank Reach (PD 832)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	0.47	2346	34.42946	-118.4642	3049' d/s Sierra Hwy	34.42413	-118.46525	3501' d/s of Sierra Hwy (Hidaway Ave, produced)	Santa Clara River
57 - Whites Cyn (PD T704 M.C.I.)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	2.64	695	34.40849	-118.46774	1449' u/s of Foxiane	34.41080	-118.46724	753' u/s of Foxlane	Whites Cyn
58 - Santa Clara River Main Channel - Right Bank (PD 374)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, BARE, WET	1.21	2644	34.41431	-118.47283	2114' u/s of old Soledad Cyn Rd bridge	34.41587	-118.47667	U/s of old Soledad Cyn Rd bridge	Santa Clara River
60 - Santa Clara River Main Channel - Right Bank Reach (PD's 1339 & 374)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, BARE, WET,	1.5	3166	34.41587	-118.47667	D/s side of new Soledad Cyn Rd bridge	34.42340	-118.48182	Conf. w/PD 313 (d/s Newhouse St, produced)	Santa Clara Ríver
61 - Santa Clara River Main Channel (PD 659 & 754)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM WILD BARE WET	4.3	4715	34.4205	-118.48385	D/s side of new Soledad Cyn Rd bridge	34.42665	-118.49406	1634' d/s of new Soledad Cyn Rd bridge	Santa Clara River
63 - Oak Ave Rd Drainage (CDR 523.081)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, BARE, WET,	2.8	914	34.42502	-118.502918	1400' N of Soledad Cyn Rd @ SCE lines	34.42379	-118.50258	2300' N of Soledad Cyn Rd @ SCE lines	Oak Ave Rd Drainage
64 - Soledad Cyn Rd Drain (CDR 523.071 D outlet)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, BARE, WET,	0.85	574	34.42052	-118.51215	(E side of) LA Aqueduct N of Soledad Cyn Rd	34.42129	-118.50404	1250' NW/o Soledad Cyn Rd & LA Aqueduct	Soledad Cyn Rd Drain
66 - Santa Clara River Main Channel (PD 1538)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET,	1.04	710	34.423209	-118.538688	1417' u/s of Bouquet Cyn Rd	34.42278	-118.53647	706' u/s of Bouquet Cyn Rd	Santa Clara River
67 - Bouquet Cyn Upper (PD's 1201, 802, 700B, & 625)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, COLD, WILD, SPWN, WFT	16.3	6344	34.45979	-118.4929	63' d/s of Hob Ave, produced	34.44897	-118.50654	153' u/s of Urbandale Ave	Bouquet Cyn Upper
69 - Bouquet Cyn Middle (PD's 722, 773, 1365, 1065, & 451)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, COLD, WILD, SPWN WET	12.51	7326	34.44828	-118.50748	122' d/s of Urbandale Ave	34.43441	-118.52395	54' d/s of middle crossing, Bouquet Cyn Rd	Bouquet Cyn Mid
70 - Bouquet Cyn Lower (PD's 544 & 345)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, COLD, WILD, SPWN, WFT	8.54	3503	34.43429	-118.52399	2866' u/s lower crossing. Bouquet Cyn Rd	34.43081	-118.53445	D/s side of lower cfossing. Bouquet Cyn Rd	Bouquet Cyn Lower
71 - Santa Clara River Main Channel (PD 1946)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	1.01	242	34.424	-118.56181	276' u/s of McBean Pkwy (conf w/ SF-SCR)	34.42401	-118.56221	D/s edge of McBean Parkway	Santa Clara River
72 - South Fork- SCR (Smizer Ranch M.C.I.)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	0.14	101	34.36955	-118.55678	1150' u/s of Wiley Canyon Road	34.36937	-118.55653	1050' u/s Wiley Canyon Road	Santa Clara River
73 - Wildwood Cyn Chni (PD T361) M.C.I.	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	0.05	83	34.3715	-118.53922	109' u/s of Cedartown St	34.37128	-118.53921	U/s side of Cedartown St	Wildwood Canyon
74 - Wildwood Cyn Chnl (PD T361)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	0.02	365	34.37166	-118.53925	161' d/s of Cedartown St	34.37242	-118.53968	277' d/s of Cedartown St	Wildwood Canyon
75 - South Fork-SCR (PD's 725, 916, 1041, &1300)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	18.92	14075	34.37972	-118.5522	255' d/s of Lyons Ave	34.41453	-118.54418	D/s edge of Magic Mtn Parkway	Santa Clara River
76 - Pico Cyn (PD 813)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	4.26	4116	34.38939	-118.552514	Vista Valencia Golf Course	34.38833	-118.54656	South Fork Santa Clara River	Pico Canyon
77 - Newhall Ck Outlet	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	6.29	2092	34.39038	-118.54311	1040' d/s of 15th St	34.39505	-118.54038	Confluence w/SCR-South Fork	Newhall Creek Outlet
78 - Placerita Creek	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD	1.16	376	34.39077	-118.54067	D/s edge of San Fernando Rd	34.39169	-118.53634	Confluence w/ Newhall Creek	Placerita Creek
79 - South Fork- SCR (Valencia Blvd Bridge Stabilizer)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2,	1.17	168	34.41909	-118.54878	D/s edge of Valencia Blvd	34.41916	-118.54933	167' d/s of Valencia Blvd	Santa Clara River
80 - South Fork-SCR (PD's 1947 & 1946)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD	8.18	2686	34.42035	-118.55385	3080'u/s of McBean Parkway	34.42399	-118.56141	276' u/s of McBean Pkwy (conf.w/SCR)	Santa Clara River
32 - Santa Clara River Main Chnl (PD 2278)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET,	4.8	849	34.42547	-118.57382	740' s/e of Ave. Hopkins & Ave. Rockefeller	34.42836	-118.57059	5/o Avenue Hopkins & Avenue Rockefeller	Santa Clara River
36 - Violin cyn M.C.O.	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET,	1.3	1006	34.49086	-118.61224	1021' d/s Ridge Route Rd	34.49005	-118.61100 (Conf w/ Castaic Creek	Violin Canyon
37 - Castaic- Old Road Drainage (CDR 525.021D) Outlet	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET,	0.19	225	34.45146	-118.61599	610' d/s of Hasley Cyn rd, w/o The Old Rd	34.45122	-118.61621	Conf w/ Castaic Creek	Castaic Creek
38 - Hasley Cyn Upper (PD T1496)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET,	0.42	1051	34.47089	-118.66325	755' u/s of Sharp Rd	34.46816	-118.66237 3	330' d/s of Sharp Rd	Hasley Canyon Upper
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89 - Hasley Cyn South Fork (PD T1496)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.28	341	34.46612	-118.66224	331' u/s of Romero Cyn Rd along South Fork	34.46543	-118.66150	160'u/s of Romero Cyn Rd	Hasley Canyon South Fork
90 - Hasley Cyn Lower (North Fork PD T1496)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.68	1051	34.46408	-118.66563	1089' u/s of Romero Cyn Rd along Main Líne	34.46496	-118.66093	100' d/s of Romero Cyn Rd	Hasley Canyon Lower
91 - San Martinez Chiquito Cyn u/s Keningston Rd	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.31	599	34.44857	-118.67272	530' u/s of San Martinez Rd (w/o Borton St)	34.44764	-118.67108	Keningston Rd	San Martinez Chiquito Canyon
92 - San Martinez Chiquito Cyn (N. Fork) unnamed	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.29	768	34.45066	-118.67356	920' u/s of c/l of San Martinez Rd	34.44872	-118.67297	Conf. w/ San Martinez Chiquito Cyn Chnl	San Martinez Chiquito Canyon
93 - S.M.C.C. b/w Keningston/Val Verde Park	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.56	1072	34.44767	-118.67097	400' d/s of Keningston Rd	34.44693	-118.66757	1054' d/s of Keningston Rd	San Martinez Chiquito Canyon
94 - S.M.C.C. b/w Val Verde Park/ d/s of Madison St	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	1.57	2446	34.44093	-118.66301	1092' u/s of Chiquito Cyn Rd	34.44193	-118.65604	268' d/s of Madison St	San Martínez Chiquito Canyon
95 - Project No 1224	180701020201	MUN, AGR, GWR, REC1, REC2, WARM, WILD.	7.95	1823	34.54303	-117.98298	Ave T	34.54691	-117.98446	Confluence of Little rock Creek	Unnamed Tributary of Little Rock Wash
96 - PD 1591, Calabassas	180701020201	MUN, AGR, GWR, REC1, REC2, WARM, WILD.	0.92	532	34.14607	-118.63025	85' u/s of culvert under Vicasa Drive	34.14675	-118.63043	360' d/s of culvert under Vicasa Drive	Dry Canyon
97 - PD 1982, Castaic Creek	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	2.3	2002	34.45126	-118.61622	300' d/s of The Old Road	34.44625	-118.61822	2300' d/s of The Old Road	Castaic Creek
98 - Walnut Creek - Channel Inlet	180701020201	MUN, ND, PROC, AGR, GWR, REC-1, REC-2, WARM, COLD; WILD, RARE	0.14	51	34.07981	-117.86027	30' u/s of perpendicular ext. of Chaparro Rd	34.07983	-117.86020	Perpendicular extension of Chaparro Road	Walnut Creek
99 - Kagel Canyon - Tujunga Wash	180701020201	MUN, GWR, REC-1, REC- 2, WARM, WILD	1.67	4844	34.29612	-118.3778	Blue Sage Drive	34.28418	-118.37417	City of Los Angeles Boundary	Kagel Canvon
100 - Dry Canyon Calabasas Creek inlet	180701020201	MUN, GWR, REC-1, REC- 2, WARM, WILD	0.05	114	34.1556	-118.6328	1835' u/s of Ave San Luis	34.15534	-118.63259	1775' u/s of Ave San Luis	Dry Canyon
101 - Violin Cyn (PD 2312)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE	5.04	1818	34.50334	-118.62599	2637' u/s of Lake Hughes Road	34.49918	-118.62264	820' u/s of Lake Hughes Road	Violin Canyon
102 - Violin Cyn (PD 2275)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE	1.76	975	34.50809	-118.63997	1072' u/s of d/s face of Sierra Oak Trail RCB	34.50814	-118.63678	94' u/s of d/s face of Sierra Oak Trail RCB	Violin Canyon
103 - Bouquet Cyn Channel (PD 2225)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, COLD, WILD, SPWN,WET	7.31	1348	34.42678	-118.54201	173' d/s of centerline of Newhall Ranch Road (Beginning of Grouted Stone Toe)	34.42554	-118.54366	MWD Fee R/W on the Right Bank. Embankment turn at the Santa Clara River on Left Bank	Bouquet Canyon Channel
104 - Castaic Creek (PD 2441 Unit 2)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	38.12	2223	34.44217	-118.61282	669' u/s of Muirfield Lane Centerline	34.44582	-118.61466	478' d/s of Turnberry Lane Centerline	Castaic Creek
105 - San Francisquito Cyn Channel (PD 2456)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET	13.8	833	34.44554	-118.55743	417' u/s of Decoro Drive Centerline	34.44328	-118.55789	416' d/s of Decoro Drive Centerline	San Francisquito Canyon Channel
106 - Castic Drain Outlet	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	1.46	751	34.48337	-118.61439	Toe of Grouted Riprap Apron	34.48531	-118.61523	147' D/S of Grouted Rip Rap Apron	Castic Drain Outlet
107 - The Old Road Channel	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD, RARE, WET.	0.51	1028	34.35549	-118.55286	230' US Driveway into 24136 the Old Road	34.35775	-118.55456	U/S of Concrete Lined Channel	Unnamed Tributary Upstream of South Fork of Santa Clara River
108 - Pico Canyon (PD 2528)	180701020201	MUN, IND, PROC, AGR, GWR, FRSH, REC-1, REC-2, WARM, WILD	1.38	3100	34.38166	-118.58176	Stevenson Ranch DB	34.38624	-118.5731	The Old Road	Pico Canyon
109 - Santa Clara River - S. Bank W. of Mcbean Pkwy (MTD1510)	180701020201	MUN, AGR, GWR, FRSH, REC1, REC2, WARM, WILD, WET	5.34	372	34.42412	-118.5643	371' U/S Mcbean Pkwy centerline	34.424008	-118.56308	PD 1946	Santa Clara River
110 - Hasley Canyon Channel(PD2262)	180701020201	MUN, AGR, GWR, FRSH, REC1, REC2, WARM, WILD, WET	7.79	3737	34.45157	-118.63377	PD 2508	34.4455	-118.62423	Castic Creek	Hasley Canyon Channel
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The second s			EFDEDALW	P	LANT		FISH		WILDLIFE	······						(Last updated 10/22/14)
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITA	POTENTIAL AFFECT ON CRITICAL HABITA	LAST FOCUSEI SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
1	Bell Creek- MTD 963 M.C.I.	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve hand cutting a 15-foot wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the reach inlet.	No change. The hydrological studies identify that this reach as able to contain more vegetation. The Biological Technical Report (BTR) for the Feasibility Study (FS) recommends allowing the willow canopy to spread outside the channel on the left bank and to allow native shrubs such as coyote brush and mulk fat to become established in this area. Furthermore, the BTR recommends that the existing chain-link fence be relocated to protect the native vegetation in this area (approximately 0.06 acre).
2	Dry Canyon (Calabasas) PD T1845	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve maintaining and clearing a 20-foot-wide path along the centerline of the reach. Trees within and on the channel banks will not be allowed to mature. Hand clearing will be performed annually to keep the center portion of the reach clear and vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.	The new language ("trees within and on the channel banks will not be allowed to mature") is required because the banks are vertical crib walls which large trees damage. Most, if not all of the trees on the crib walls are ornamental species. Hydrological studies identified this reach as hydraulically deficient and requiring an additional 0.39 acre of vegetation to be removed.
3	Santa Susana Creek M.C.I.	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75- foot long area at the inlet to the reach. Oak trees will be left in place.	No change. The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The existing maintenance plan has been fully implemented and there are no outstanding issues.
4	Browns Creek	Approved	Non-sensitive								N/A	CAGN	Not likely to destroy or adversely modify; the upper 200 feet of this reach is in CH, but is not cleared and contains riparian woodlands habitats lacking the constituent elements necessary for suitable CAGN habitat	N/A	Mechanical equipment will be used to keep clear all vegetation from bank to bank within the rail and timber revetment.	No change. The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues.
5	Caballero Creek M.C.I. (West Fork)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the reach.	No change. The hydrological studies identified these two reaches as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there
6	Caballero Creek M.C.I. (East Fork)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The vegetation clearing work will involve hand clearing a 20-foot-wide path along the centerline of the reach.	are no outstanding issues. No change. The hydrological studies identified these two reaches as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues.
7	Bull Creek M.C.O.	Pending	Sensitive					Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	NA	N/A	2007 - least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The work will involve hand clearing of vegetation and debris from the invert to ensure unimpeded flow within the reach. This work will be done only in the first 275 feet (between the outlet and the pedestrian bridge) of the reach downstream from the concrete reach outlet to ensure that flow does not back up into the concrete reach upstream of Victory Boulevard.	The overall character of this reach has changed due to the USACE restoration project in Balboa Park that covered the earthen banks of this reach with riprap. Note that the area and length of the work are has been reduced to 275 feet due to the installation of the restoration project. The vegetation on the invert was not allowed to remain prior to the restoration project, so the updated maintenance activities do not represent a change. This reach has nuisance flows on a continuous basis (making it a "wet reach"), and additional vegetation on the bank may interfere with mosquito abatement activities of the Los Angeles County Vector Control District. Note that the ACOE USACE Bull Creek Channel Ecosystem Restoration Project initiated in 2008 removed the 1.45 acres of "protected" vegetation in this reach. Focused surveys not conducted since 2007 as Bull Creek including the Reach 7 segment became a riparian restoration site managed by the Army Corps of Engineers. The LACFCD also suspended clearing activities at that time. The pre-clearing habitat assessments conducted in 2014 indicated potentially suitable habitat for the LBV is once again present at Reach 7 and a resumption of these focused surveys is warranted. The hydrological studies identified this reach as able to contain more vegetation. The BTR recommended allowing willows to grow at the toe of both levees.

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REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	FEDERALLY SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITAT	LAST FOCUSED SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE / REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INC
8	Hayvenhurst Drain - Project 470 Outlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	All vegetation in this reach will be cleared annually using mechanical or m
9	Project 106 Outlet	Approved	Non-sensitive								N/A	NA	N/A	N/A	Brush and tree trimming will be performed where needed to keep growth that were left in November 1997. Brush and tree trimming will be performed annually to keep the invert fre

								Attac	hment 2. Ad	ditional pe	rmitting info	rmation WDR r	eaches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110	
			FEDERALLY	P	LANT		FISH		WILDLIFE	1			1			(Last updated 10/22/14)
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITA	POTENTIAL T AFFECT ON CRITICAL HABITA	LAST FOCUSEI SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
8	Hayvenhurst Drain - Project 470 Outlet	Approved	Non-sensitive	in the set of the set of the set of							N/A	N/A	N/A	N/A	All vegetation in this reach will be cleared annually using mechanical or manual methods.	No change.
	Project 470 Outlet															The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues. Since the dry season in southern California overlaps the breeding season for birds the phrase "cleared annually" is preferred.
9	Project 106 Outlet	Approved	Non-sensitive								N/A	NA	N/A	N/A	Brush and tree trimming will be performed where needed to keep growth at the levels	The hydrological studies identified this reach as able to contain more native vegetation. The BTR
															that were left in November 1997. Brush and tree trimming will be performed annually to keep the invert free of vegetation.	recommended replacing the non-native ash trees with native trees on both banks of this channel reach. Based on the physical parameters of this channel reach and its location, the BTR recommended that native sycamore trees be planted on both banks instead of willows. This recommendation would result in a net gain of native vegetation in this channel reach (approx. 0.12 acre).
10	Project No. 469	Approved	Non-sensitive								N/A	NA	N/A	N/A	Vegetation will be cleared annually to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require mechanical clearing of vegetation in the reach for approximately 4,000 feet downstream of Victory Boulevard. Reach work will also include mechanical grading to train flows to centerline of reach.	The vegetation in this reach consists almost entirely of non-native ruderal (weedy) vegetation. The maintenance plan has not been fully implemented for this reach because of a conflict between the maintenance plan and the permits. Issuance of the 1997 CDFW permit coincided with a toxic spill in this reach and resulted in the incorrect conclusion that "no work was done in 1997." Since that time, the monitoring biologist has worked with LACFCD personnel to implement partial clearing strategies designed to meet flood-control concerns and to retain as much vegetation to remain on one bank each year. As a result, the ruderal vegetation cleared each year was two years old. After several years, however, the monitoring biologist found that the bank of mowed ruderal vegetation responded favorably to the mowing and provided more "biological value" than the older (two year old) ruderal vegetation. Therefore, the monitoring biologist discontinued the rotating clearing pattern at this reach and full clearing was resumed.
13		Dearthur														The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The BTR identified less than 0.06 acre of native cattail wetland in this channel reach.
12	nanies canyon w.c.o.	renung	Sensitive			Santa Ana sucker (FT)		Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A (near SAS but not within)	N/A	2013 - Santa Ana sucker (negative), least Bell's vireo (negative), and southwestern willow flycatcher (negative)	Hand clearing of all vegetation will be used to keep the reach clear of vegetation, except for the vegetation that was allowed to remain in 1997. This process will be repeated annually to prevent growth from restricting flows at the outlet to the reach.	No change. Hydrological studies identified this reach as hydraulically deficient and requiring an additional 0.14 acre of vegetation to be removed. The additional vegetation to be removed has not been identified, but most of the additional vegetation within this reach would be native and require mitigation.
13	Project No. 5215 Unit 1	Approved	Non-sensitive			2013 USACE lists potential for Santa Ana sucker (FT)					N/A	N/A	N/A	N/A	The reach clearing work involves mechanically clearing the earthen outlet reach with a backhoe and hand cutting all vegetation from the first 250 feet of the reach bottom (12- feet wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of the reach will not be cleared.	Identified as a potential SAS reach during initial informal consultation with the USFWS, but surveys by Dr. Baskin and Dr. Haglund determined that this reach has no potentially suitable habitat for SAS.
															the channel clearing work involves mechanical (backhoe) and hand clearing of a 12-foot wide path throughout its length (537 ft).	Hydrological studies identified this reach as hydraulically deficient and requiring an additional 0.29 acre of vegetation to be removed. The additional vegetation to be removed has not been identified, but most of the addititional vegetation within this reach would be native and require mitigation.
14	May Channel (M.C.O. Into Pacoima Canyon)	Pending	Sensitive					Known occupation by least Bell's vireo (FE/SE); potential for	Known occupation by least Bell's vireo (FE/SE); potential for		May affect not ikely to adversely affect	N/A	N/A	2013- least Bell's vireo (positive) and southwestern willow	Hand clearing work will be performed to keep the reach invert clear of all vegetation.	This updated language reflects the actual maintenance activities that have been conducted at this reach, which have always been confined to the invert. The riparian vegetation that was allowed to remain on the banks had been the "protected" vegetation in this reach. The surveys then determined that this vegetation is occupied by the least Bell's vireo.
-								willow flycatcher (FE/SE)	willow flycatcher (FE/SE)					(negative)		Hydrological studies identified this reach as hydraulically deficient and requiring an additional 0.44 acre of vegetation to be removed.
15 F	Pacoima Wash	Approved	Non-sensitive							1	N/A	N/A	N/A	N/A i	Nechanical equipment and hand cutting will be used to keep the reach cleared of all egetation.	No change. The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues. The 0.01 acre of vegetation allowed to remain in the channel was upstream of the pedestrian bridge. This 0.01 acre consisted of cattails that was taken over by invasive species (e.g., ornamental trees and Washingtonia palms) and was relocated, at the direction of the monitoring biologist, to the downstream terminus of the channel reach.
16 V	Verdugo Wash - Las Barras Canyon (channel	Approved	Non-sensitive							N	I/A	N/A	N/A	N/A I	and clearing work will be used to keep the reach clear of all vegetation.	No change.
ii	nlet}															The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues.

								Attac	chment 2. Add	ditional pe	rmitting infor	mation WDR re	eaches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110	
South and Articles of the		ta secone secone detailed and	FEDEDALLY	PL	ANT	F	ISH		WILDLIFE	1				· · · · · · · · · · · · · · · · · · ·	e en	(Last updated 10/22/14)
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITAT	LAST FOCUSED SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
18	Engleheard Channel	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Hand clearing work will only involve dead vegetation and tree branches from the area between the pipe and wire revetments. All vegetation will be cleared by manual methods during the dry season.	The hydrological studies identified this reach as hydraulically deficient and additional vegetation needs to be removed. No vegetation, however, within the LACFCD's right-of-way is allowed to
19	Pickens Canyon	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV (FE/SE)	2013 USACE NWP lists potential for LBV (FE/SE)		N/A	N/A	N/A	N/A	Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted. The hydrological studies identified this reach as able to contain more native vegetation. The BTR recommended allowing native shrubs to grow on the invert of the reach from the upstream end to the pedestrian bridge at Mountain Avenue. Furthermore, the BTR recommended protecting the native shrubs by removing non-natives species. No native trees would be allowed to grow on the
20	Webber Channel (Storm @ Private Bridge)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical equipment will be used to keep the reach clear of all vegetation. Mechanical equipment will be used to keep the channel clear of all vegetation except for the native species on the right bank (looking downstream). Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the right bank and non-	invert. The maintenance plan has been fully implemented and there are no outstanding issues. Hydrological studies identified this reach as able to contain more native vegetation. The new maintenance plan allows for additional native vegetation to grow on the right bank (looking downstream).
21	Webber Channel (Main Channel Inlet d/s Bridge)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	native species will be selectively removed. Hand clearing work will be performed to keep the reach clear of all vegetation. Mechanical equipment will be used to keep the channel clear of all vegetation except for the native species on the left bank (looking downstream). Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the left bank and non-native species will be selectively removed.	Identified as a potential LBV reach; results of focused surveys have been negative to date. The hydrological studies identified this reach as able to contain more native vegetation. The BTR recommended allowing native herbaceous and shrub species to grown on the left bank looking downstream and to selectively protect the native species by removing non-native species. No native trees would be allowed to grown on the right bank. The maintenance plan has been fully implemented and there are no outstanding issues.
22	Halls Canyon	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Manual removal of all vegetation adjacent to or growing out of the crib structures will be serformed.	No change. The hydrological studies identified this reach as able to contain more native vegetation. The BTR recommended allowing native shrubs (but not trees) to grow on the invert of the entire reach except for on the crib structures. The native species would be protected by selective removal of non-native species. The maintenance plan has been fully implemented and there are no outstanding issues.
24	Compton Creek	Approved	Non-sensitive								N/A	N/A	N/A	N/A I	Removal of all vegetation from reach and/or restore hydraulic conveyance capacity of thannel by driving tracked equipment over vegetated areas.	No change. Years of scraping the vegetation has resulted in small amounts of the soil on the invert being removed. As this minor removal happened year after year, it resulted in the invert being lower than intended and beginning to expose the toe of the grouted rip rap slopes. To compensate for this, the proposed maintenance activity will leave the "tracked" vegetation in place (which will eventually break down naturally and turn into soil). The slight roughness of the vegetation and root systems allow some sediment flowing downstream to be trapped. All invasive plants are removed before tracking to reduce them from spreading. The hydrological studies identified this reach as hydraulically sufficient, but without the capacity for any additional vegetation. The maintenance plan has been fully implemented and there are no outstanding issues.
25	(a) Los Angeles River - Willow to PCH (East/Left Bank)	Approved	Non-sensitive								N/A	N/A	N/A	N/A L	Ising mechanical equipment, all exotic vegetation will be removed throughout this reach. iparian vegetation will be kept in place at the level that was left in November 1997.	No change. Reach has been split into (a) and (b) components.
25	(b) Los Angeles River - Willow to PCH (West/Right Bank)	Approved	Non-sensitive								N/A	N/A I	N/A I	N/A L	sing mechanical equipment, all exotic vegetation will be removed throughout this reach. iparian vegetation will be kept in place at the level that was left in November 1997.	No change. Reach has been split into (a) and (b) components. Hydrological studies identified this reach as able to contain more native vegetation. The new maintenance plan allows for additional native vegetation to grow on the left bank (looking downstream).
26	Project 740	Approved	Non-sensitive								N/A	N/A I	N/A I	V/A T	ne reach will be cleared using hand clearing only. Hand labor will be used to trim the agetation which has been allowed to remain since 1997. New growth will not be allowed become established and will be removed annually by manual methods.	No change.

Attachment 2. Additional permitting information WDR reaches 1-110 Soft-Bottom Channels Permitting Summary Table Reaches 1-1

				P	LANT		FISH		WILDLIFE						-
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	FEDERALLY SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITAT	LAST FOCUSEE SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANC REACH; PERMIT CONDITIONS FROM AGENCIES TO BE I
27	Wilmington Drain	Pending	Sensitive					Known territory, for least Bell's vireo (FE/SE); potential for southwestern willow flycatcher (FE/SE)	 Known territory for least Bell's vireo (FE/SE); potential for southwestern willow flycatche (FE/SE) 	r	May affect not likely to adversely affect	N/A	N/A	2013- least Bell's vireo (positive) and southwestern willow flycatcher (negative)	All vegetation from the reach in the area upstream of Lomita Bouleva Cleared. Between Lomita Boulevard and Pacific Coast Highway, veget clear from the two channels on either side of the island, but vegetatio on the reach banks will remain. Clearing work in the reach invert will t mechanical equipment; vegetation on the banks will be trimmed with does not impede flow on the invert.
28	Triunfo Creek (PD T2200)	Pending	Sensitive					Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)	Potential for western pond turtle	May affect not likely to adversely affect	N/A	N/A	2013-least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The reach clearing work will involve removing all vegetation from the and hand clearing of all vegetation along the levee from the base to ar of 20 feet.
29	Las Virgenes Creek (PD T1684) M.C.I.	Approved	Non-sensitive							Potential for western pond turtle	N/A	N/A (near SAS but not within)	N/A	N/A	The reach clearing work will involve hand clearing a 30-foot-wide strip watercourse low flow reach from the debris posts to the right-of-way i
32	Stokes Canyon Channel (PD T043)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The work will involve hand clearing of all vegetation between the pipe Embankment vegetation outside the pipe and wire channel will be left
33	Medea Creek (PD T1378 U.2)	Approved	Non-sensitive							Potential for western pond turtle	N/A	N/A	N/A	N/A	The work will involve mechanical or manual clearing of all vegetation in part of the reach.
34	Medea Creek (PD T1005) Main Channel Outlet (Chumasa Park)	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV (FE/SE)	2013 USACE NWP lists potential for LBV (FE/SE)		N/A	N/A I	N/A	N/A	Hand clearing work will be performed to keep the reach clear of all vege
35	Medea Creek M.C.I Under Route 101	Approved	Non-sensitive								N/A	N/A I	N/A I	N/A I	Hand clearing will be performed to keep the reach clear of all vegetation

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(Last updated 10/22/14) EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES CE ACTIVITIES BY SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER INCLUDED FEASIBILITY STUDY rd will be kept Construction for the City of Los Angeles's Wilmington Drain Multi-Use Project (Proposition O Clean ation will be kept Water Bond) began in spring 2013. Construction included the removal of sediment and non-native on on the island and vegetation throughout the length of this reach. The channel reach provides potential habitat for the be done with least Bell's vireo and southwestern willow flycatcher and surveys have determined that it is occupied hand tools so that it by the vireo. The City of Los Angeles obtained the necessary "take" permits under FESA and CESA. A solitary male vireo was present during the 2013 breeding season. Construction activities were allowed to continue under the terms and conditions of the permits. Prior to this year, the maintenance plan had been fully implemented and the vireo was protected by terms and conditions under permits held by the LACFCD. ungrouted rock levee No change. outward distance vious CDFW comments have indicated a concern for the western pond turtle (Emys marmorata) at this reach. The monitoring biologist has not yet detected any western pond turtles during annual pre-clearing visits to this reach; however, these pre-clearing visits are not performed in conjunction with the actual clearing activities. Identified as a potential LBV reach; results of focused surveys have been negative to date. The maintenance plan has been fully implemented. along the No change. oundary. Previous CDFW comments have indicated a concern for the western pond turtle at this reach. The monitoring biologist has not yet detected any western pond turtles during annual pre-clearing visits to this reach; however, these pre-clearing visits are not performed in conjunction with the actual clearing activities. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed. The maintenance plan has been fully implemented. and wire. No change. in place. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be onducted in the reaches of the Malibu Creek Watershed. The maintenance plan has been fully implemented. the concrete-lined The maintenance plan has not been implemented in this reach since 1999 due to sensitive resources and expected mitigation requirements. The western pond turtle potentially occurs at this reach. The cattails in this reach were cleared in 1998 and were included in the overall mitigation under the agreement signed in 1997. As a result, the cattails and other vegetation in the concrete-lined part of this reach can be cleared without any additional mitigation. However, the willow dominated riparian vegetation upstream has not been cleared post-1997. A one-time vegetation clearing and repair project is in the process of approval under CDFW Streambed Alteration Agreement Number 1600-2012-0193-R5. A special condition of this agreement includes a qualified biologist conducting trapping surveys for the western pond turtle, a California special species of concern potentially present in the reach, prior to the commencement of maintenance activities in the reach. Blocking nets shall be utilized upstream to prevent wildlife from entering the project site. etation. No change. Identified as a potential LBV reach during initial informal consultation with the USFWS. Focused surveys conducted with negative results in 2002 and 2003. Private development outside the reach eliminated upland habitats necessary at this location to provide potential habitat for LBV. BonTerra biologist Brian E. Daniels therefore determined potential habitat for LBV no longer existed at this reach and further focused LBV surveys were not warranted. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be onducted in the reaches of the Malibu Creek Watershed. Maintenance plan has been fully implemented. No change. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed. Maintenance plan has been fully implemented.

				DI	ANIT	1	cieù	Attac	ment 2. Add	ditional pe	rmitting infor	mation WDR re	eaches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110	
			FEDERALLY	FL					WILDLIFE							(Last updated 10/22/14)
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITA	LAST FOCUSED SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
36	Cheseboro Main Channel Inlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The clearing work will involve clearing dead vegetation and trimming riparian vegetation that would obstruct flows. Tree canopy will remain, but with a clear "tunnel" path to convey flows. New vegetation will be cleared annually to prevent blockage of the inlet.	Language changed to reflect current on-site conditions. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
37	Medea Creek/Cheseboro Creek Outlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Hand clearing work will be performed to keep the reach clear of all vegetation.	Maintenance plan has been fully implemented. No change. In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the MAC
38	Lindero M.C.O.	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Hand clearing work will be performed to keep the reach clear of all vegetation.	In order to comply with the HACCP plan developed by the LACFCD for the WDR and adopted on February 4, 2010, by the Los Angeles RWQCB, pre-clearing aquatic invasive species surveys will be conducted in the reaches of the Malibu Creek Watershed.
39	Beatty Channel Outlet @ SGR 25+99.00	Pending	Sensitive	-		Potential for Santa Ana sucker (FT)		Known territory for least Bell's vireo (FE/SE); , potential for southwestern willow flycatcher (FE/SE)	Known territory for least Bell's vireo (FE/SE), potential for southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	SWFL	Not likely to destroy or adversely modify	2013- Santa Ana sucker (negative), least Bell's viroe (positive) and southwestern willow flycatcher (negative)	Mechanical equipment will be used to keep the reach outlet clear of all vegetation.	Maintenance plan has been fully implemented. No change. Maintenance plan has been fully implemented. This reach provides potential habitat for the Santa Ana sucker, but it has not been found in annual pre-clearing surveys conducted since 2002. This reach also provides potential habitat for the least Bell's vireo and southwestern willow flycatcher and the surveys have determined that it is occupied by the vireo.
40	(a) San Gabriel River – Santa Fe Dam to I-10 Freeway	Approved	Non-sensitive								N/A	N/A	N/A	N/A	From Santa Fe Dam to the San Bernardino Freeway (Reach 40a), most of the vegetation consists of mule fat interspersed with various exotic species. In this reach, 10-foot-wide strips were hand cleared along the toe of each levee to provide room to maintain and inspect the levee. The 10-foot-wide strips along the levee toes will be kept clear of all vegetation annually using a combination of mechanical equipment and hand labor. In the center of the reach, the mule fat was mowed using various types of mowing equipment. The root structures of the plants were not disturbed. Two strips of vegetation, 50 and 75 feet in width, were allowed to remain along each side of the reach invert. In subsequent years, mowing will be accomplished in alternate cycles between the center portion of the reach and the two strips of vegetation. Grading to reestablish baseline conditions will be performed on an as-needed basis to maintain access ramps and low-flow reaches from side outlets.	No change. Reach is split into (a) and (b) components. 40a does not contain potential habitat for LBV. The maintenance plan has been fully implemented.
40	(b) San Gabriel River – I-10 Freeway to Thienes Avenue	Pending	Sensitive					Known territory for least Bell's vireo (FE/SE); southwestern willow ilycatcher (FE/SE)	Known territory for least Bell's vireo (FE/SE), potential for southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- least Bell's vireo (positive) and southwestern willow flycatcher (negative)	From San Bernardino Freeway to Thienes Avenue (Reach 40b), this portion of the reach will be kept clear of all vegetation using mechanical equipment and hand labor, except for the riparian vegetation allowed to remain in place in November 1997. This process will be repeated annually and will be monitored by a biologist familiar with least Bell's vireo habitat requirements. Grading to reestablish baseline conditions will be performed on an as-needed basis to maintain access ramps and low-flow reaches from side outlets.	No change. Reach is split into (a) and (b) components. The maintenance plan has been fully implemented. The riparian habitats downstream of Valley Boulevard (Reach 40b) have been occupied by the least Bell's vireo since the 2002 focused bird surveys were completed. The vireo is protected by terms and conditions contained in the permits held by the LACFCD that require flagging of "seasonally occupied habitat" to protect it and that a qualified biological monitor be present during clearing activities.
41	Walnut Creek	Approved	Non-sensitive								N/A	N/A I	N/A	N/A I e r s t	Mechanical clearing of vegetation will be used to keep the channel clear of all vegetation, except for the riparian habitat allowed to remain in November 1997. Hand work will be necessary to remove some of the vegetation growing in the rock riprap along the reach ides and on the riprap at the downstream end of the concrete reach. Some trimming of he riparian vegetation may be necessary to reduce the impact on flow in the reach as uture growth occurs.	No change. The maintenance plan has been fully implemented. Some of the riparian vegetation allowed to remain in place in November 1997 has been lost due to natural causes. Due to drought conditions, several willow trees were stressed and became suscentible to a wood borer infectation.
42	San Jose Creek d/s 1000' from end of concrete channel	Approved	Non-sensitive								N/A	N/A f	I/A	N/A T a r	he vegetation will be cleared using mechanical equipment, except for riparian vegetation llowed to remain in November 1997. Trimming of the riparian vegetation may be lecessary in the future as growth occurs. This process will be repeated annually.	No change. The maintenance plan has been fully implemented. Some of the riparian vegetation allowed to remain in place in November 1997 has been lost due to natural causes. Willow trees were lost due to high storm flows during the 2004–2005 rainy season. The monitoring biologist in conjunction with LACFCD personnel identified young willow trees within the same "line" for protection. However, the sediment islands had been scoured and these young willow trees did not survive subsequent rainy seasons.

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			FEDERALLY	Pl	ANT	e staatskale A tanuaria	FISH		WILDLIFE	L			1		n na an	(Last updated 10/22/14)
REACH NO	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY	STATE LISTED	FEDERALLY	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITA	LAST FOCUSEE SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BÉ INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
43	(a) San Gabriel River- Upper	Pending	Sensitive					Known territon, for least Bell's vireo (FE/SE); potential for southwestern willow flycatcher (FE/SE)	v Known territory for least Bell's vireo (FE/SE), potential for southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- least Bell's vireo (positive) and southwestern willow flycatcher (negative)	Mechanical equipment will be used to keep the reach clear of all vegetation, except riparian vegetation allowed to remain in November 1997. Trimming of the riparian vegetation may be necessary in the future as growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biological monitor will be present during clearing activities.	No change. Reach has been split into (a) and (b) components. Maintenance plan has been fully implemented. The riparian habitat in this reach has been occupied by the least Bell's vireo. It is a migratory species that is not present during the fall/winter when the LACFCD's annual clearing activities occur. The vireo is protected by terms and conditions contained in the permits held by the LACFCD that require flagging of "seasonally occupied habitat" to protect it and that a qualified biological monitor be present during clearing activities.
43	(b) San Gabriel River- Lower	Pending	Sensitive					Known territory for least Bell's vireo (FE/SE) and potential for southwestern willow flycatcher (FE/SE)	Known territory for least Bell's vireo (FE/SE) and potential for southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- least Bell's vireo (negative) and southwestern willow flycatcher (negative)	Mechanical equipment will be used to keep the reach clear of all vegetation, except riparian vegetation allowed to remain in November 1997. Trimming of the riparian vegetation may be necessary in the future as growth occurs. The vegetation that is seasonally occupied by the least Bell's vireo will be flagged and a qualified biological monitor will be present during clearing activities.	No change. Reach has been split into (a) and (b) components. Maintenance plan has been fully implemented. The riparian habitat in this reach has been occupied by the least Bell's vireo. It is a migratory species that is not present during the fall/winter when the LACFCD's annual clearing activities occur. The vireo is protected by terms and conditions contained in the permits held by the LACFCD that require flagging of "seasonally occupied habitat" to protect it and that a qualified biological monitor be openent during clearing activities.
44	San Gabriel River - Rubber Dams	r Approved	Non-sensitive	÷				2013 USACE NWP lists potential for LBV (FE/SE)	2013 USACE NWP lists potential for LBV (FE/SE)		N/A	N/A	N/A	N/A	Mechanical equipment will be used to keep the reach clear of all vegetation, except for the riparian vegetation allowed to remain in November 1997. Trimming of the riparian vegetation may be necessary in the future as growth occurs.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels have found a lack of suitable nesting habitat (except for large trees, all vegetation is mowed which removes the dense layer of understory shrubs necessary for nesting LBV); it was therefore determined that focused LBV surveys were not warranted at this reach.
45	Sand Canyon (PD T1307) Main Channel Inlet	Approved	Non-sensitive					2013 USACE NWP lists potential habitat for LBV (FE/SE)	2013 USACE NWP lists potential habitat for LBV (FE/SE)		N/A	N/A	N/A	N/A	Mechanical clearing will be performed to keep reach clear of all vegetation.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused IBV surveys were not warranted.
46	Sand Canyon (PD T1307) Main Channel Outlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical clearing will be performed to keep reach clear of all vegetation.	No change.
47	Santa Clara River Main Channel (PD T1733 Unit 1)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (pegative)	The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change.
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change.
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	Approved	Non-sensitive								N/A	N/A	N/A	N/A	All vegetation in this reach will be cleared annually using mechanical and manual methods.	No change.
50	Mint Canyon Channel between Solamint Road & Soledad Canyon Road	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change.
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River — Main Channel	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative)	The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change.
52	Sierra Highway Road Drainage (CDR 523.203)	Approved	Non-sensitive								N/A	N/A	N/A	N/A I	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change.
53	Santa Clara River Non- Main Channel (PD 832) Main Channel Inlet	Approved	Non-sensitive			2013 USACE NWP lists potential for UTS, as well as the CDFW (FE/SE)	2013 USACE NWP lists potential for UTS, as well as the CDFW (FE/SE)				N/A	N/A I	N/A	N/A I	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change. Identified as a potential UTS reach during initial informal consultation with the USFWS, but surveys by Dr. Baskin and Dr. Haglund determined that this reach has no potentially suitable habitat for UTS.
54	Santa Clara River Non- Main Channel (PD 832) Main Channel Outlet	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A I	I/A	2013- N unarmored threespine stickleback (negative)	Vechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change.
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A M	I/A	2013- T unarmored fi threespine stickleback (negative)	The reach clearing work will involve mechanical removal of all vegetation within 20 feet rom the levee slope lining along the entire reach.	No change. Reaches 60, 59, and 58 are no longer combined with 55.

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								Attac	hment 2. Add	ditional pe	rmitting infor	mation WDR re	eaches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110			
1	PLANT FISH					NT FISH WILDLIFE										(Last updated 10/22/14)		
REACH NO	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	FEDERALLY SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITA	LAST FOCUSED SURVEY T COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY		
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative)	The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change.		
57	Whites Canyon (PD T704 M.C.I.)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical or hand clearing work will be performed to keep reach clear of all vegetation.	No change.		
58	Santa Clara River Main Channel – Right Bank Reach (PD 374) Santa Clara River Main Channel – Right Bank	Pending Pending	Sensitive Sensitive			Potential for unarmored threespine stickleback (FE/SE) Potential for unarmored	Potential for unarmored threespine stickleback (FE/SE) Potential for unarmored				May affect not likely to adversely affect May affect not likely to adversely	N/A	N/A N/A	2013- unarmored threespine stickleback (negative) 2013- unarmored	The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach. The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change. Reaches 60, 59, and 58 are no longer combined with 55. Reach 59 is now combined with Reach 58. No change.		
61	Reach (PD's 1339 and 374)	Pending	Sensitive			threespine stickleback (FE/SE)	threespine stickleback (FE/SE)				affect		N/A	threespine stickleback (negative)		Reaches 60, 59, and 58 are no longer combined with 55.		
01	Channel (PD 659 & 754)					unarmored threespine stickleback (FE/SE)	unarmored threespine stickleback (FE/SE)				likely to adversely affect	IN/A	NYA	unarmored threespine stickleback (negative)	fine reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change. Reach 62 is now combined with 61.		
63	Oak Ave Road Drainage (CDR 523.081)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative)	The reach clearing work will involve mechanized removal of all vegetation bank to bank.	No change.		
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	Pending	Sensitive		2	Potential for unarmored threespine stickleback (FF /SF)	Potential for unarmored threespine stickleback (SE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback	The reach clearing work will involve mechanical (rubber-tire equipment) and manual methods to clear an 8-foot-wide path along the centerline of the channel.	The use of rubber-tire equipment will be implemented. Maintenance activities revised to allow for additional removal techniques. Maintenance plan has been fully implemented.		
66	Santa Clara River Main Channel (PD 1538)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative)	The reach clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.	No change.		
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	(negative) 2013- unarmored threespine stickleback (negative)	The reach clearing work will involve an alternating pattern of mechanical clearing of vegetation. Only one-half of the reach will be cleared each year. The other one-half of the reach will be cleared the following year. Reach clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach. Outlet structures will be graded to drain each year. The preferred methodology would be to clear the vegetation on the left bank on even years and the right bank on odd years. If water is present on the scheduled bank, however, the work will proceed with the opposite bank.	Reach 67 and 69 are no longer combined. Additional scheduling language added. The 2002 focused surveys did not find the unarmored threespine stickleback in this reach; however, it was determined that this reach could support the stickleback in subsequent years. Therefore, if suitable habitat is present (i.e. water), stickleback surveys are required prior to clearing activities. The stickleback was found during pre-clearing surveys conducted in 2005, 2006, and 2007, and no clearing activities occurred. After the October 2007 Buckweed Wildfire in the Bouquet Canyon Watershed, the LACFCD applied for a Regional General Permit (RGP) 63 permit with the USACE to authorize emergency vegetation and sediment clearing in the Bouquet Canyon flood-control reaches. The USACE issued the RGP 63 on January 22, 2008, following consultations with the U.S. Fish and Wildlife Service (USFWS), the CDFW, and the RWQCB. The pre-clearing survey conducted in January 2008 found just one stickleback. This fish was left in the reach during clearing activities, but protected with a buffer of at least 10 feet around the pool that contained it. These survey results show that without annual clearing activities, the habitat in the flood-control reach becomes less suitable for the stickleback. In particular, the annual clearing activities maintain a well-defined low flow reach that provides suitable habitat for the stickleback. Since 2008, the LACFCD has performed annual clearing activities that use a rotational pattern where half the reach is cleared one year and the other half is clearing pattern will produce a dense growth of riparian herb vegetation that is two years old. This clearing pattern will produce a dense growth of riparian herb vegetation and not allow the tall growt that can become a liability under		

Attachment 2. Additional permitting information WDR reaches 1-110 Soft-Bottom Channels Permitting Summary Table Reaches 1-110

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REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTE	D FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITA	POTENTIAL T AFFECT ON CRITICAL HABITA	LAST FOCUSE SURVEY COMPLETED	D PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
	Bouquet Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	Pending	Sensitive			Known occurance for unarmored threespine stickleback (FE/SE)	Known occurance for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (positive)	The reach clearing work will involve an alternating pattern of mechanical clearing of vegetation. Only one-half of the reach will be cleared each year. The other one-half of the reach will be cleared the following year. Reach clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach. Outlet structures will be graded to drain each year. The preferred methodology would be to clear the vegetation on the left bank on even years and the right bank on odd years. If water is present on the scheduled bank, howeve the work will proceed with the opposite bank.	Reach 67 and 69 are no longer combined. Additional scheduling language added. The 2002 focused surveys did not find the unarmored threespine stickleback in this channel reach; however, it was determined that this channel reach could support the stickleback in subsequent years. Therefore, if suitable habitat is present (i.e.b water), stickleback surveys are required prior to r; clearing activities. The stickleback was found during pre-clearing surveys conducted in 2005, 2006, and 2007, and no clearing activities occurred. After the October 2007 Buckweed Wildfire in the Bouquet Canyon Watershed, the LACFCD applied for a Regional General Permit (RGP) 63 permit with the USACE to authorize emergency vegetation and sediment clearing in the Bouquet Canyon flood-control reaches. The USACE issued the RGP 63 on January 22, 2008, following consultations with the USFWS, CDFW, and the RWQCB. The pre-clearing survey conducted in January 2008 found just one stickleback. This fish was left in reach 67 during clearing activities, but protected with a buffer of at least 10 feet around the pool that contained it. These survey results show that without annual clearing activities, the habitat in the flood-control reach becomes less suitable for the stickleback. In particular, the annual clearing activities maintain a well-defined low flow reach that provides suitable habitat for the stickleback. Since 2008, the LACFCD has performed annual clearing activities that use a rotational pattern where half the reach is cleared one year and the other half is cleared the following year. This clearing pattern will consequently clear vegetation that is two years old. This clearing pattern will produce a dense growth of riparian herb vegetation and not allow the tall growth that can become a liability under high flow conditions. This maintenance pattern appears to be optimal for stickleback in this man- made flood-control reach.
70	Bouquet Canyon Lower (PD's 544 & 345)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)				May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative)	The reach clearing work will involve an alternating pattern of mechanical clearing of vegetation. Only one-half of the reach will be cleared each year. The other one-half of the reach will be cleared the following year. Reach clearing work will also include mechanical grading of sediment to train flows to the centerline of the reach. Outlet structures will be graded to drain each year. The preferred methodology would be to clear the vegetation on the left bank on even years and the right bank on odd years. If water is present on the scheduled bank, however, the work will proceed with the opposite bank.	Maintenance language revised to account for current conditions post-emergency clearing. Additional scheduling language added. Reach 70 and 68 are no longer combined, as 68 was removed. Note that Reach 70 is not concrete-lined but is soft-bottomed. Maintenance plan has been fully implemented. The 2002 focused surveys did not find the unarmored threespine stickleback in this reach; however, it was determined that the upper end of this channel reach could support the unarmored threespine stickleback in subsequent years (this is a mostly dry channel). Therefore, if suitable habitat is present (i.e. water), unarmored threespine stickleback surveys are required prior to any clearing activities. The upper end of this reach was occupied in 2005, 2006, and 2007 as the water is continuous with Reaches 67 and 69. See those two reaches for further background information.
71	Santa Clara River Main Channel (PD 1946)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative), arroyo toad (negative), least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The reach clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.	No change. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys found a transitory male in 2013, but no breeding has yet been documented in this reach. The 2003 focused surveys found the arroyo toad within one kilometer of this reach. Since the USFWS defines occupied habitat for this species as any suitable habitat within one kilometer of an arroyo toad sighting, this reach was considered to be occupied by the toad. Maintenance plan has been fully implemented. After the arroyo toad detection in 2003, the USACE did not authorize clearing activities in Reaches 71 and 82 in the permit dated December 9, 2003, because these reaches are considered occupied by the arroyo toad. A formal Biological Opinion dated October 21, 2004, was rendered by the USFWS for the channel clearing activities in Reaches 71 and 82. This Biological Opinion provided "take" to the USACE in order to permit the LACFCD to conduct these clearing activities as long as they were in compliance with the terms and conditions of the incidental take statement. The 2004 BO has since expired, and consultation will be reinitiated to determine if maintenance will require a new formal BO.
72	South Fork- SCR (Smizer Ranch M.C.I.)	Approved	Non-sensitive		; r t	2013 USACE NWP lists potential for UTS, as well as the CDFW (FE/SE)	2013 USACE NWP lists potential for UTS, as well as the CDFW (FE/SE)				N/A	N/A	N/A	N/A	The reach clearing work will involve hand clearing dead vegetation and cutting invasive and trimming riparian vegetation that would obstruct flows. Tree canopy will be retained, yet a clear "tunnel" path will be provided to convey flows.	No change. Identified as a potential UTS reach during initial informal consultation with the USFWS, but surveys by Dr. Baskin and Dr. Haglund determined that this reach has no potentially suitable habitat for UTS (the drop structure under the Valencia Bridge prevents UTS from migrating upstream in the South Fork Santa Clara River).
73	Vuidwood Canyon Channel (PD T361) Main Channel Inlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.	No change.
74	Wildwood Canyon Channel (PD T361)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Mechanical or hand clearing work will be performed to keep reach clear of all vegetation.	No change.

Attachment 2.	
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Attachment 2. Additional permitting information WDR reaches 1-110 Soft-Bottom Channels Permitting Summary Table Reaches 1-1

				PI	LANT		FISH		WILDLIFE						
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	FEDERALLY SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITAT	LAST FOCUSEI SURVEY COMPLETED	D PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANC REACH; PERMIT CONDITIONS FROM AGENCIES TO BE I
	South Fork - Santa Clara River (PD's 725, 916, 1041, & 1300)	Pending	Sensitive			2013 USACE NWP lists potential for UTS (FE/SE)	2013 USACE NWP lists potential for UT: (FE/SE)	Potential for arroyo toad 5 (FE), least Bell': vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- arroyo toad (negative) least Bell's virec (negative), and southwestern willow flycatcher (negative)	The reach clearing work will involve mechanical clearing and grading of to bank from Lyons Avenue to Orchard Village Road. Mechanical gradi onvasive vegetation from bank to bank will be performed from Orchara confluence with Newhall Creek. Mechanical clearing of all vegetation of the base of the concrete levee from the confluence with Newhall Cree Mountain Parkway. A 20-foot-wide strip will be maintained clear along the levee and 45 degree grading of low flow channels from side outlet the watercourse will be maintained clear of all vegetation to minimize blockage of side outlet flows. A centerline watercourse low flow 12-fer maintained clear of all vegetation and will be graded along the entire I Two island areas supporting mature trees will be left in place as well as vegetation. Tree pruning of dead branches and limbs that could obstru- removed by hand labor.
76	Pico Canyon (PD 813)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve bank-to-bank removal of vegetation
77	Newhall Creek Outlet	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV to occur	2013 USACE NWP lists potential for LBV to occur (FE/SE)		N/A	N/A	N/A	N/A	equipment. Mechanical equipment will be used to maintain the reach clear of all ve
78	Placerita Creek	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV to occur	2013 USACE NWP lists potential for LBV to occur (FE/SE)		N/A	N/A	N/A	N/A	Mechanical equipment will be used to maintain the reach clear of all ve
79	South Fork - Santa Clara River (Valencia Boulevard Bridge Stabilizer)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative), arroyo toad (negative), least Bell's vireo (negative) and southwestern willow flycatcher (negative)	Mechanical equipment will be used to maintain the reach clear of all ve
80	South Fork - Santa Clara River (PD's 1947 & 1946)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative), arroyo toad arroyo toad negative), least Bell's vireo (negative) and southwestern willow filycatcher (negative)	The reach clearing work will involve mechanical removal of all vegetatic from the toe of the concrete levee along the entire length.

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(Last updated 10/22/14) EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES CE ACTIVITIES BY SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER INCLUDED FEASIBILITY STUDY of all vegetation bank No change. ing and clearing of d Village Road to the Identified as a potential UTS reach during initial informal consultation with the USFWS, but surveys by will be done along Dr. Baskin and Dr. Haglund determined that this reach has no potentially suitable habitat for UTS (the ek to Magic drop structure under the Valencia Bridge prevents UTS from migrating upstream in the South Fork g the entire length of Santa Clara River). ts to the center of e ponding and eet wide will be length in this reach. s the riparian uct flow will be on using mechanical No change. egetation. No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted. egetation. No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted. egetation. No change. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013. The unarmored threespine stickleback cannot move upstream past the stabilizer under the Valencia Blvd. bridge. All waters upstream are unoccupied by the stickleback; all of the fish that have been observed occur only up to the base of the stabilizer. on within 20 feet No change. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013.

								Atta	chment 2. Add	ditional pe	rmitting infor	mation WDR re	aches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110	
			FEDERATLY	PL	ANT		FISH		WILDLIFE	I						(Last updated 10/22/14)
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTEI	D FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITA	LAST FOCUSEE SURVEY T COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
82	Santa Clara River Main Channel (PD 2278)	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013- unarmored threespine stickleback (negative), arroyo toad (negative), least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The reach clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.	No change. Maintenance plan has been fully implemented. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013. The 2003 focused surveys found the arroyo toad within one kilometer of this reach. Since the USFWS defines occupied habitat for this species as any suitable habitat within one kilometer of an arroyo toad sighting, this reach was considered to be occupied by the toad. After the arroyo toad detection in 2003, the USACE did not authorize clearing activities in Reaches 71 and 82 in the permit dated December 9, 2003, because these reaches are considered occupied by the arroyo toad. A formal Biological Opinion dated October 21, 2004, was rendered by the USFWS for the channel clearing activities in Reaches 71 and 82. This Biological Opinion provided "take" to the ACOE USACE in order to permit the LACFCD to conduct these clearing activities as long as they were in compliance with the terms and conditions of the incidental take statement. The 2004 BO has since expired, and consultation will be reinitiated to determine if maintenance will require a new formal BO.
86	Violin Canyon Main Channel Outlet	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	N/A	N/A	2013 - unarmored threespine stickleback (negative) and arroyo toad (negative)	Mechanical equipment will be used to maintain the reach clear of all vegetation.	No change. Maintenance plan has been fully implemented. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013. The 2002 focused surveys did not find the unarmored threespine stickleback in this reach; however, it was determined that this reach could support the unarmored threespine stickleback in subsequent years. Therefore, if suitable habitat is present (i.e. water), unarmored threespine stickleback surveys are required prior to any clearing activities.
87	Castaic - Old Road Drainage (CDR 525.021D) Outlet	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	ARTO, SWFL	Not likely to destroy or adversely modify.	2013 - unarmored threespine stickleback (negative), arroyo toad (negative), least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The reach clearing work will involve hand cutting and clearing a 20-foot path from the riprap outlet to the main watercourse, Castaic Creek.	No change. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013.
88	Hasley Canyon Upper (PD T1496)	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV to occur (FE/SE)	2013 USACE NWP lists potential for LBV to occur (FE/SE)		N/A	N/A	N/A	N/A	The reach clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted.
89	Hasley Canyon South Fork (PD T1496)	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV to occur (FE/SE)	2013 USACE NWP lists potential for LBV to occur (FE/SE)		N/A	N/A	N/A	N/A	The reach clearing work will involve hand labor clearing of alluvial sage scrub.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted.
90	Hasley Canyon Lower (North Fork PD T1496)	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the reach bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the reach bottom will remain to the level it was left in November 1997.	No change.
74	Canyon Channel u/s of	Approved	won-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve removal of all the vegetation within the pipe and wire reach using hand labor, but the embankment vegetation will be left in place.	No change.
92	Neningston Koad San Martinez Chiquito Canyon (North Fork) unnamed	Approved	Non-sensitive					2013 USACE NWP lists potential for LBV to occur (FE/SE)	2013 USACE NWP lists potential for LBV to occur (FE/SE)		N/A	N/A	V/A	N/A	The reach clearing work will involve removal of all the vegetation within the pipe and wire reach using hand labor, but the embankment vegetation will be left in place.	No change. Identified as a potential LBV reach during initial informal consultation with the USFWS, but surveys by BonTerra biologist Brian E. Daniels determined no potential habitat for this species existed at the reach and focused LBV surveys were not warranted.

101

Violin Canyon (PD 2312) Pending

Sensitive

Potential for

spineflower (CRPR List 1B.1/FE/SE)

Potential for

spineflower

(CRPR List 1B.1/FE/SE), and

San Fernando

Valley spineflower (CRPR List

1B.1/SE)

slender-horned slender-horned

								Attac	hment 2. Ad	ditional pe	rmitting infor	mation WDR re	eaches 1-110	Soft-Bottom	Channels Permitting Summary Table Reaches 1-110
		<u>la transforma de la</u>	<u>a al a statul de servir</u>	PI	ANT	T	ISH		WITDLIFF		1				
REACH NO.	REACH NAME	PERMIT SUBMITTED/ APPROVED/ PENDING	FEDERALLY SENSITIVE/NON- SENSITIVE REACH (MAY REQUIRE USFWS CONSULTATION)	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	FEDERALLY LISTED	STATE LISTED	OTHER	POTENTIAL AFFECT TO SPECIES	CRITICAL HABITAT	POTENTIAL AFFECT ON CRITICAL HABITAT	LAST FOCUSED SURVEY COMPLETED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVI REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED
93	San Martinez Chiquito Canyon between Keningston Road and Val Verde Park	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve removal of all the vegetation within the pip reach using hand labor, but the embankment vegetation will be left in place.
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve removal of all the vegetation within the pip reach using hand labor, but the embankment vegetation will be left in place.
95	Project No. 1224	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve removal of all the vegetation within the pip reach using mechanical equipment, but the embankment vegetation will be left
96	PD 1591, Calabasas	Approved	Non-sensitive	Ŧ							N/A	N/A	N/A	N/A	The reach clearing will involve removing all the vegetation from the inlet and ou approaches to the box culvert under Vicasa Drive. Clearing work will be done by labor and only within the dedicated right of way.
97	PD T1982, Castaic Creek	Pending	Sensitive			Potential for unarmored threespine stickleback (FE/SE)	Potential for unarmored threespine stickleback (FE/SE)	Potential for arroyo toad (FE), least Bell's vireo (FE/SE), and southwestern willow flycatcher (FE/SE)	Potential for least Bell's vireo (FE/SE) and southwestern willow flycatcher (FE/SE)		May affect not likely to adversely affect	ARTO, SWFL	Not likely to destroy or adversely modify	2013- unarmored threespine stickleback (negative), arroyo toad (negative), least Bell's vireo (negative) and southwestern willow flycatcher (negative)	The reach clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet ar and grading 45-degree, 12-foot-wide low flows from the side outlets to the cent main watercourse.
98	Walnut Creek – Channel Inlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	To the extent that storm flows do not keep the inlet free of vegetation, mechani equipment will be used to keep the inlet clear of all vegetation. No regrowth wil allowed to remain.
99	Kagel Canyon – Tujunga Wash	Approved	Non-sensitive								N/A	N/A	N/A	N/A	Hand clearing work will be performed to keep all the vegetation clear in this reac
100	Dry Canyon, Calabasas Creek Inlet	Approved	Non-sensitive								N/A	N/A	N/A	N/A	The reach clearing work will involve hand clearing all the vegetation at the reach Bank vegetation will be left in place.

May affect not

likely to adversely affect

N/A

N/A

2003 - plant

surveys

(negative)

2007 - arroyo toad (negative)

2014- Santa

Clara River feasibilty Study plant surveys

(negative)

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273		(Last updated 10/22/14)
SED ED	PREVIOUSLY AUTHORIZED OR PROPOSED 2015 MAINTENANCE ACTIVITIES BY REACH; PERMIT CONDITIONS FROM AGENCIES TO BE INCLUDED	EXPLANATION OF CHANGES TO PROPOSED 2015 ACTIVITY AND/OR BIOLOGICAL RESOURCES SINCE LAST APPROVED MAINTENANCE PLAN AND RESULTS OF LOS ANGELES RIVER FEASIBILITY STUDY
	The reach clearing work will involve removal of all the vegetation within the pipe and wire reach using hand labor, but the embankment vegetation will be left in place.	No change.
	The reach clearing work will involve removal of all the vegetation within the pipe and wire reach using hand labor, but the embankment vegetation will be left in place.	No change.
	The reach clearing work will involve removal of all the vegetation within the pipe and wire reach using mechanical equipment, but the embankment vegetation will be left in place.	No change.
	The reach clearing will involve removing all the vegetation from the inlet and outlet approaches to the box culvert under Vicasa Drive. Clearing work will be done by hand labor and only within the dedicated right of way.	No change.
	The reach clearing work will involve hand cutting and mechanized removal of all vegetation and trees along the entire length of the levee at a width of 20 feet and clearing and grading 45-degree, 12-foot-wide low flows from the side outlets to the center of the main watercourse.	No change. Identified as a potential LBV reach by BonTerra Psomas biologists Brian Daniels and focused surveys for this species are conducted biannually. Focused surveys have been negative through 2013.
ast d		
	To the extent that storm flows do not keep the inlet free of vegetation, mechanical equipment will be used to keep the inlet clear of all vegetation. No regrowth will be allowed to remain	No change.
Ī	hand clearing work will be performed to keep all the vegetation clear in this reach.	No change.
	The reach clearing work will involve hand clearing all the vegetation at the reach inlet. Jank vegetation will be left in place.	No change.
t	ACFCD will mechanically remove vegetation along a 12-foot wide path along the toe of he reach slope lining and clear a 12-foot training channel at 45 degree angles from the sutlet to the centerline of the reach.	The proposed 2015 maintenance activities affect less area than the proposed 2005 maintenance activities. All of the reach was proposed for clearing in 2005, in alternating halves, but in 2015 the clearing is limited to 12-foot wide path at toe of the reach slope lining on both banks.
•) v		



Apping & Property Management Division, Mapping & GIS Services Se

-	RFIII ($RFFK$ - N/II
2	DRY CANYON (CA
3	SANTA SUSANA (
4	BROWNS CREEK
5	CABALLERO CREI
6	CABALLERO CREI
7	BULL CREEK M.C
8	PROJECT 470 OU
9 10	PROJECT 106 OU
10 12	PROJECT NO 469
12	PROJECT NO 52
14	MAY CHANNEL (I
15	PACOIMA WASH
16	VERDUGO WASH
18	ENGLEHEARD CH
19	PICKENS CANYO
20	WEBBER CHANN
21	WEBBER CHANN
22	HALLS CANYON
24	COMPTON CREE
25	LOS ANGELES RIV
26	PROJECT 74
27	WILMINGTON DI
28	
29 27	LAS VIRGEINES CI
22	MEDEA CREEK (P
33	MEDEA CREEK (P
35	MEDEA CREEK (
36	CHESEBORO MA
37	MEDEA CK/CHES
38	LINDERO M.C.O.
39	BEATTY CHANNE
40	SAN GABRIEL RIV
41	WALNUT CREEK
42	SAN JOSE CREEK
43	SAN GABRIEL RIV
44	SAN GABRIEL RIV
45	SAND CANYON (
46	SAND CANYON (I
47 10	
40 70	
50	MINK CANYON
51	MINT CANYON M
52	SIERRA HWY RD
53	SANTA CLARA RI
54	SANTA CLARA RI
55	SANTA CLARA RI
56	SANTA CLARA RI
57	WHITES CANYON
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OUTLET (RMD CHANNEL) CHANNEL (RMD CHANNEL) PD 2528) IVER - S. BANK W. OF MCBEAN PKWY MTD 1510 N CHANNEL (PD 2262)

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Los Angeles Regional Water Quality Control Board

CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER

Effective Date:	June 6, 2022	Reg. Meas. ID:	401455					
Program Type:	Fill/Excavation	Place ID: WDID:	815800 4WOC40115038					
r rogram rype.		NWP:	31					
		USACOE#:	2013-00723-BLR					
			2014-00707-BLR					
		R4 File No:	15-038					
Project Type:	Channel Construction and Main	tenance						
Project:	Annual Maintenance of Soft Bot	tom Channel Rea	ches (SBC) Reach					
	115 (Lower San Gabriel River).	and Reaches 118	and 119 (Rustic and					
	Rivas Canyons) (Project)							
Applicant:	Los Angeles County Flood Cont	rol District						
Applicanti								
Applicant Contact:	Steven Sheridan							
	Assistant Deputy Director							
	Los Angeles County Flood Cont	rol District Iding 2nd Elect						
	Albambra California 91802							
	Phone: (626) 458-4145; Email: \$	Ssherida@dpw.la	county.gov					
• • • • •								
Applicant's Agent:	Nandini Moran	mal District						
	200 S Fremont Ave Annex Bui	roi District Iding 2nd Floor						
	Alhambra. California 91802							
	Phone: (626) 458-7810; Email: I	Ntmoran@dpw.lao	county.gov					
Water Board Staff:	Valorio Carrillo Zara, P.G.							
Water Duard Starr.	320 W 4th Street Suite 200							
	Los Angeles, CA 90013							
	Phone: 213-576-6759; Email:							
	Valerie.CarrilloZara@waterboar	ds.ca.gov						
tor Board Contact Bor								

Water Board Contact Person:

If you have any questions, please call the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Staff listed above or (213) 576-6600 and ask to speak with the Water Quality Certification and Wetlands Unit Program Manager.

LAWRENCE YEE, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

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I. Order

This Clean Water Act (CWA) section 401 Water Quality Certification action and Order (Order) is issued at the request of the Los Angeles County Flood Control District (hereinafter Permittee) for the Project. This Order is for the purpose described in the application and supplemental information submitted by the Permittee. The application was received on March 23, 2018. The application was deemed complete on July 25, 2020.

II. Public Notice

The Los Angeles Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from May 8, 2018 to the effective date of the Order. The Los Angeles Water Board did not receive any comments during the comment period.

III. Project Purpose

The Project purpose is to conduct annual maintenance in five Soft Bottom Channel reaches to diminish the significant risk of flooding to the adjacent communities, and to address any deficiencies from the U.S. Army Corps of Engineers (USACE) Periodic Inspections for the Levee Safety Program.

IV. Project Description

These reaches are not included in the Permittees' larger, Earth Bottom Channel Maintenance Waste Discharge Requirements and CWA section 401 Water Quality Certification, Order No. R4-2018-0099 (File No. 99-011). In addition, this Order combines the renewal for four CWA section 401 Water Quality Certifications: Maintenance of Reach 112, originally certified in 2015, under File No. 14-125; Maintenance of Reach 114, originally certified in 2015, under File No. 15-038; Maintenance of Reach 115, originally certified in 2015, under File No. 14-132; and Maintenance of Reaches 118 and 119, originally certified in 2015, under File No. 15-038.

In addition, in the fall of 2013, the Permittee obtained a USACE CWA section 404 Regional General Permit (RGP) No. 41 to authorize removal of the invasive giant reed (*Arundo donax*) along a portion of SBC Reach 114, including the Los Angeles River from Pacific Coast Highway to Anaheim Street, in the City of Long Beach. The invasive vegetation removal activities were issued CWA section 401 Water Quality Certification, File No.13-110.

Reach 112: The Permittee will restore Soft-Bottom Channel (SBC) Reach 112 in Ballona Creek to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the riprap and concrete levees and maintenance of outlet structures) throughout the channel reach as necessary. Weeds and grasses may be controlled by mowing or hand labor, and the channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of 2.6 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Reach 114: The Permittee will restore SBC Reach 114 in the Los Angeles River to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the flap gates, riprap, and concrete levees) throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, the Permittee must provide maintenance and repair activities, including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Areas mapped as Coastal Salt Marsh (disturbed or not, generally, areas with pickleweed) will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Specifically, work in Reach 114 will include:

- Non-native woody vegetation on the riverside levee slopes will be removed down to the roots annually per the original baseline condition.
- Weeds and grasses may be controlled by mowing or hand labor.
- Vegetation, trash, and debris on the reach right-of-way and in the riprap will be cleared.
- When root removal creates a cavity in the riprap, the cavity will be filled in and the soil compacted.
- The freshwater wetlands (formerly Arundo areas) in the upstream portion between Pacific Coast Highway and Anaheim Street will be maintained annually through mowing and trash removal. The sediment benches will not be removed.

Reach 115: The Permittee will restore SBC Reach 115 in the San Gabriel River Estuary to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of removal of 0.6 acres of giant reed (*Arundo donax*) and 5.0 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species.

Specifically, work in Reach 115 will include:

- All invasive vegetation with roots greater than ½ inch will be removed per the USACE Levee Certification Vegetation Removal Project.
- Vegetation will be removed by mechanical and manual methods on both banks annually until all non-compliant vegetation is removed.
- Strips of riprap will be removed in strategic locations from the access road down to no more than halfway down the levee face. Steel track equipment will be driven on it. Riprap will be replaced before the end of the work day after work in that location is completed.
- Voids left by extracting the woody vegetation's root mass will be filled with native soil or nonnative fill from other large excavation projects nearby. The soil will be tested before leaving its origin to ensure it is safe for usage within the levee material. The imported fill will be compacted with sheepsfoot attachment and the riprap replaced.
- Weeds and grasses may be controlled by mowing or hand labor.
- Annual clearing of all woody vegetation will occur along the entire reach on both banks below the access roads using mechanical equipment placed on the access road.
- Vegetation, debris, and brush growing on the reach right-of-way and in the riprap will be cleared.
- Non-native trees and shrubs will be trimmed in order to reduce the impact on flow in the reach as future growth occurs.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

Reaches 118 and 119: The Permittee will restore SBC Reaches 118 and 119 in Rustic Canyon and Rivas Canyon Channels to design capacities, and then will be maintained annually. Rivas Canyon Channel is tributary to Rustic Canyon Channel. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

The site will be accessed through a private property, located at 14470 Rustic Creek Lane, Pacific Palisades, California 90272, that is also to be used as a staging area.

Specifically, work in Reaches 118 and 119 will include:

- All vegetation within the reach will be removed using hand tools.
- Mapped wetlands will be cleared by hand only and machinery will not enter these areas.
- New non-native vegetation will be removed by hand using hand tools, such as weedeaters, hedge trimmers, chainsaws, hoes, pitch forks, loppers, machetes, and using a rubber-tracked skidsteer loader as necessary.
- Sediment benches will be mechanically mowed annually.
- Minor repair work to the wooden wall structures and eroded banks will be conducted on an asneeded basis.
- These structural repairs may include filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structures, and other miscellaneous items encountered.

- To move a skidsteer loader from one section of the channel to the next, temporary earthen ramps will be constructed at the drop structures with available onsite soils. The earthen ramps will be removed after vegetation is removed and earthen material will be redistributed evenly throughout the site.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

V. Project Location

The Project is located in multiple locations in Los Angeles County.

Reach 112:

<u>Latitude</u>	<u>Longitude</u>
33.986970	-118.415848
33.986630	-118.415579
33.980722	-118.424186
33.980655	-118.423362
33.964644	-118.451612
33.963839	-118.451054
33.979642	-118.424490
33.978993	-118.425350

Reach 114:

<u>Latitude</u>	<u>Longitude</u>
33.790017	-118.206244
33.790205	-118.204770
33.783967	-118.204714
33.773990	-118.204669
33.767159	-118.204661
33.767083	-118.206268
33.773942	-118.206243
33.783912	-118.206222

Reach 115:

<u>Latitude</u>	<u>Longitude</u>
33.790701	-118.091318
33.778072	-118.097137
33.775056	-118.098192
33.782067	-118.096517
33.781784	-118.095645
33.775061	-118.097249
33.778168	-118.098083
33.791020	-118.092197

Reaches 118 and 119:

<u>Longitude</u>
-118.513778
-118.513307
-118.514181
-118.516645

34.045400	-118.513429
34.043159	-118.513300
34.040217	-118.515775
34.035450	-118.517726

Maps showing the Project location are found in Attachment A of this Order.

VI. Project Impact and Receiving Waters Information

The Project is located within the jurisdiction of Los Angeles Water Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: <u>http://www.waterboards.ca.gov/plans_policies/</u>. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet contaminant levels designed to protect human health and ensure that water is safe for domestic use.

Reach 112	
Receiving Water:	Ballona Creek Reach 2 (Hydrologic Unit Code: 180701040200)
Designated Beneficial Uses:	MUN*, REC-1, REC-2, WARM, WILD
	*Conditional beneficial use
Reach 114 Receiving Water:	Los Angeles River
Ū	(Hydrologic Unit Code: 180701050402)
Designated Beneficial Uses:	IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL, WET
Reach 115	
Receiving Water:	San Gabriel River Estuary (Hydrologic Unit Code: 180701060606)
Designated Beneficial Uses:	IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL
Reach 118 and 119 Receiving Water:	Rustic Canyon Channel (Hydrologic Unit Code: 180701040402)

Designated Beneficial MUN*, REC-1, REC-2, WARM, WILD Uses:

*Conditional beneficial use

VII. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Project Fill/Excavation Quantity									
Aquatic Resource	Tempo	orary Impa	lct ¹	Permanent Impact					
Туре	-			Physical Loss of Area					
	Acres	CY ²	LF	Acres	CY	LF			
Stream Channel Reach 112	77.83			2.6					
Stream Channel Reach 114	100.40								
Stream Channel Reach 115	109.42			5.6					
Stream Channel Reach 118 and 119	1.54								
TOTAL	289.19			8.20					

VIII. Compensatory Mitigation

The Permittee has agreed to provide the compensatory mitigation described in section XII. H. for temporary impacts that include temporal loss and/or degradation of ecological condition.

The Permittee has agreed to provide the compensatory mitigation described in section XIII. I. for permanent impacts.

IX. California Environmental Quality Act (CEQA)

The Los Angeles Water Board has determined that the Project is exempt from review under CEQA pursuant to California Water Code of Regulations, title 14, section 15061. Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations title 14, section(s) 15301 Existing Facilities. Additionally, the Los Angeles Water Board concludes that no exceptions to the CEQA exemption apply to the activities approved by this Order.

¹ Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

² Cubic Yards (CY); Linear Feet (LF)

X. Petitions for Reconsideration

Any person aggrieved by this action may petition the State Water Board to reconsider this Order in accordance with California Code of Regulations, title 23, section 3867. A petition for reconsideration must be submitted in writing and received within 30 calendar days of the issuance of this Order.

XI. Fees Received

The fee amount for the proposed project has been determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as Fill and Excavation Discharges with the dredge and fill fee calculator.

Table 2: Record of Fees Received						
Date Received	Check No.	Amount				
March 23, 2018	0026220756	\$720				
March 23, 2018	0026220758	\$720				
March 23, 2018	0026220755	\$720				
March 23, 2018	0026220757	\$720				
October 18, 2019	0028491393	\$139,200				
	Total	\$142,100				

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, the Permittee may proceed with the Project under the following terms and conditions:

A. Authorization

Impacts to waters of the state shall not exceed quantities shown in Table 1.

B. Reporting and Notification Requirements

Requirements for the content of these reporting and notification types are detailed in Attachment C, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by the Permittee or an authorized representative.

1. Project Reporting

a. Annual Reporting: The Permittee shall submit an Annual Report each year on the anniversary of Project effective date. Annual Reporting requirements are detailed in Attachment C. Annual reporting shall continue until a Notice of Project Complete Letter is issued to the Permittee.

2. Project Status Notifications

- a. Request for Notice of Completion of Discharges Letter: The Permittee shall submit a Request for Notice of Completion of Discharges Letter following completion of active Project construction activities, including any required restoration and permittee-responsible mitigation. This request shall be submitted to the Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities. Upon acceptance of the request, Los Angeles Water Board staff shall issue a Notice of Completion of Discharges Letter to the Permittee, which will end the active discharge period and associated annual fees.
- **b.** Request for Notice of Project Complete Letter: The Permittee shall submit a Request for Notice of Project Complete Letter when construction and/or any post-construction monitoring is complete,³ and no further Project activities will occur. This request shall be submitted to Los Angeles Water Board staff within thirty (30) days following completion of all Project activities. Upon approval of the request, the Los Angeles Water Board staff shall issue a Notice of Project Complete Letter to the Permittee which will end the post discharge monitoring period and associated annual fees.
- **3. Conditional Notifications and Reports:** The following notifications and reports are required as appropriate.

a. Accidental Discharges of Hazardous Materials⁴

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- i. As soon as (A) Permittee has knowledge of the discharge or noncompliance, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures then:
 - first call 911 (to notify local response agency)
 - then call Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - Lastly, follow the required OES procedures as set forth in: <u>http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014 FINAL BW Acc.pdf</u>
- **ii.** Following notification to OES, the Permittee shall notify the Los Angeles Water Board, as soon as practicable (ideally within 24 hours). Notification may be via telephone, e-mail, or delivered written notice.

³ Completion of post-construction monitoring shall be determined by Los Angeles Water Board staff and shall be contingent on successful attainment of restoration and mitigation performance criteria.

⁴ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- **iii.** Within five (5) working days of notification to the Los Angeles Water Board, the Permittee must submit an Accidental Discharge of Hazardous Material Report.
- **b.** Violation of Compliance with Water Quality Standards: The Permittee shall notify the Los Angeles Water Board of any event causing a violation of compliance with water quality standards. Notification may be via telephone, e-mail, or delivered written notice.
 - i. Examples of noncompliance events include: lack of any reporting in a timely manner, lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the state, water contact with uncured concrete, and exceedances of limits for the analytes for *In-Water Work or Diversions* listed below.
 - **ii.** This notification must be followed within three (3) working days by submission of a Violation of Compliance with Water Quality Standards Report.

c. In-Water Work or Diversion

- i. If stream diversion will be necessary, the Permittee shall submit to the Los Angeles Water Board staff a Stream Diversion Plan, with a diagram and a narrative description of the method to divert the stream and associated BMPs for acceptance, at least 30 days in advance of any stream diversion.
- ii. During stream diversion, water quality monitoring shall be conducted. Requirements for water quality monitoring are below.
- iii. The Permittee shall notify the Los Angeles Water Board at least forty-eight (48) hours prior to initiating work in water or stream diversions. Notification may be via telephone, e-mail, or delivered written notice.
- iv. Within three (3) working days following completion of work in water or stream diversions, an In-Water Work/Diversions Water Quality Monitoring Report must be submitted to Los Angeles Water Board staff.

d. Modifications to Project

Project modifications may require an amendment of this Order. The Permittee shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. The Permittee shall inform Los Angeles Water Board staff of any Project modifications that will interfere with the Permittee's compliance with this Order.

- e. Transfer of Property Ownership: This Order is not transferable in its entirety or in part to any person or organization except after notice to the Los Angeles Water Board in accordance with the following terms:
 - i. The Permittee must notify the Los Angeles Water Board of any change in ownership or interest in ownership of the Project area by submitting a Transfer of Property Ownership Report. The Permittee and purchaser must sign and date the notification and provide such notification to the Los Angeles Water Board at least 10 days prior to the transfer of ownership.

ii. Until such time as this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order.

C. Water Quality Monitoring

- **1. General:** If surface water is present, continuous visual surface water monitoring shall be conducted to detect accidental discharge of construction related pollutants (e.g. oil and grease, turbidity plume, or uncured concrete).
- 2. Accidental Discharges/Noncompliance: Upon occurrence of an accidental discharge of hazardous materials or a violation of compliance with a water quality standard, Los Angeles Water Board staff may require water quality monitoring based on the discharge constituents and/or related water quality objectives and beneficial uses.

3. In-Water Work or Diversions:

During planned work in water or stream diversions any discharge(s) to waters of the state shall conform to the following water quality standards:

- **a.** Oil and Grease. Waters shall not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.
- b. Dissolved Oxygen. At a minimum, the mean annual dissolved oxygen concentration of all waters shall be greater than 7 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations. The dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharges.
- **c.** pH. The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.
- **d.** Turbidity. Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Sampling shall be conducted in accordance with Table 3 sampling parameters.⁵

⁵ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Los Angeles Water Board staff. Grab samples shall be taken between the surface and mid-depth and not be collected at the same time each day to get a complete representation of variations in the receiving water. A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring shall be maintained onsite.

Table 3: Sample Type and Frequency Requirements							
Parameter	Unit of Measurement	Type of Sample	Minimum Frequency				
Oil and Grease	N/A	Visual	Continuous				
Dissolved Oxygen	mg/L & % saturation	Grab	Daily for the first week, weekly, thereafter				
рН	Standard Units	Grab	Daily for the first week, weekly, thereafter				
Turbidity	NTU	Grab	Daily for the first week, weekly, thereafter				
Temperature	°F (or as °C)	Grab	Daily for the first week, weekly, thereafter				

Baseline sampling shall be conducted at a minimum of one location within the project boundary for each phase. All other sampling shall take place at a minimum of two locations. In streams or flowing water, the sample locations shall be upstream and downstream of the Project. Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal. A summary of results shall discuss the analysis. Every measurement not meeting the compliance limits shall be accompanied by an explanation, the actions taken to correct the degradation to waters, and addressed in *Violation of Compliance with Water Quality Standards* report described above.

D. Standard

- 1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, Article 6 commencing with sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Permittee, if the Los Angeles Water Board determines that: the Project fails to comply with any of the conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
- 2. This Order is not intended and shall not be construed to apply to 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 subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- 3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Permittee.
- 4. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the

applicability of any state law authorizing remedies, penalties, processes, 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 Order.

E. General Compliance

- Failure to comply with any condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. The Permittee and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
- 2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Los Angeles Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
- 3. In response to a suspected violation of any condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
- **4.** The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order; and all subsequent submittals required as part of this Order. The conditions within this Order and Attachments supersede conflicting provisions within Permittee submittals.
- 5. This Order and all of its conditions contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
- 6. Construction General Permit Requirement: If enrolled, the Permittee shall maintain compliance with conditions described in, and required by, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ and NPDES No. CAS 000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit).

F. Administrative

- **1.** Signatory requirements for all document submittals required by this Order are presented in Attachment B of this Order.
- 2. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act

authorized under this Order held by the Permittee, the Permittee must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Permittee is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.

- **3.** The Permittee shall grant Los Angeles Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - **a.** Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - **b.** Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - **c.** Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - **d.** Sample or monitor for the purposes of assuring Order compliance.
- **4.** A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
- **5.** A copy of this Order must be available at the Project site(s) during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its posted location at the Project site.
- **6.** Lake and Streambed Alteration Agreement The Permittee shall submit a signed copy of the Department of Fish and Wildlife's lake and streambed alteration agreement to the Los Angeles Water Board immediately upon execution and prior to any discharge to waters of the state.
- 7. This Order shall expire **five (5) years** from date of this Order. The Applicant shall submit a complete application at least 90 days prior to termination of this Order if renewal is requested.

G. Best Management Practices

- **1.** The Permittee shall follow best management practices for all excavation, construction, or maintenance activities to minimize impacts to water quality and beneficial uses.
- 2. The Permittee shall install a debris fence at the base of the slopes and sand bags or stop logs along the base of the work site to prohibit dust/debris from leaving the site that could later find its way into the watercourse.
- 3. The Permittee shall have a qualified biological monitor available on-site if necessary.
- **4.** The Permittee shall schedule all work to occur outside of bird nesting season. If work needs to be conducted within nesting bird season (March 15 August 31), vegetation that provides potentially suitable habitat for nesting shall be surveyed weekly by a biologist within 48 hours of the start of work. Work shall only proceed once the biologist has confirmed that no nesting

birds are present. If a nest is discovered, an appropriate buffer determined by the biologist shall be designated and demarked with flagging for crews to avoid.

- 5. The Permittee shall ensure that fueling, lubrication, maintenance, operation, and storage of vehicles and equipment does not result in a discharge or a threatened discharge to waters of the State. At no time shall the Permittee use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
- 6. The Permittee shall not locate construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.
- 7. The Permittee shall relocate all waste or dredged material removed to a legal point of disposal.
- 8. The Permittee shall ensure that the application of pesticides is supervised by a certified applicator and in conformance with manufacturer's specifications for use. Compounds used shall be appropriate to target species and habitat. Pesticide use shall be in accordance with State Water Resources Control Board Water Quality Orders for pesticide usage.
- **9.** The Permittee shall not conduct any construction activities within waters of the State during a rainfall event. The Permittee shall maintain a five-day (5-day) clear weather forecast before conducting any operations within waters of the State.
- **10.** If rain is predicted after operations have begun, the Permittee shall cease activities immediately and the site shall be stabilized to prevent impacts to water quality and minimize erosion and runoff from the site.
- 11. The Permittee shall utilize the services of a qualified biologist with expertise in riparian assessments during any vegetation clearing activities. The biologist shall be available on site during construction activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.
- 12. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, the Permittee shall file a Report of Waste Discharge (ROWD) to the Los Angeles Water Board and obtain any necessary NPDES permits/Waste Discharge Requirements prior to discharging waste.
- **13.** The monitoring biologist will identify locations with a New Zealand mudsnail population before work begins. If equipment comes into contact near the four 78-inch flapgate location, the Permittee will follow the practices listed in the 2010 Hazard Analysis and Critical Control Point

(HACCP) Soft-Bottom Channel Maintenance Activities Within the Malibu and Santa Monica Canyon Watersheds.

14. The project shall comply with the local regulations associated with the Los Angeles Water Board's Municipal Stormwater Permit issued to Discharges within the Coastal Watersheds of Los Angeles and Ventura Counties under NPDES No. CAS004004 and Waste Discharge Requirements Order No. R4-2021-0105 or subsequent order.

H. On-site Mitigation for Temporary Impacts

- 1. The Permittee shall restore all areas of temporary impacts to waters of the state and all Project site upland areas of temporary disturbance which could result in a discharge of waters of the state.
- 2. Restoration shall include grading of disturbed areas to pre-project contours. Areas of temporary impacts will revegetate naturally until the next annual maintenance.

Table 4: Required Project Mitigation Quantity for Temporary Impacts								
Aquatic Mit						Method ⁷		
Resource Type	Type ⁶	Units	Est. Re-est. Reh. Enh. Pres. Unknown					
Stream Channel	PR	Acres			289.19			

I. Compensatory Mitigation for Permanent Impacts⁸

1. Total Required Compensatory Mitigation

- **a.** The Permittee is required to provide compensatory mitigation for the authorized permanent impact to stream channel by enhancement at a minimum 1:1 area replacement ratio (8.2 acres). Mitigation will consist of enhancement in the area by allowing native vegetation to reestablish itself after non-natives have been removed. Mitigation requirements have been set based the understanding of the strict USACE flood levee requirements. Additional compensatory mitigation will be assessed in future renewals of this certification if impacts exceed the original footprint.
- **b.** Total required Project compensatory mitigation information for permanent physical loss of area, ecological degradation and temporal loss is summarized in Table 5.

⁶ Mitigation type for onsite restoration of temporary impacts is Permittee Responsible (PR).

⁷ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

⁸ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

Table 5: Required Project Compensatory Mitigation Quantity										
				Method ¹⁰						
Aquatic Resource Type	Comp Mit. Type ⁹	Units	Est.	Re-est.	Reh.	Enh.	Pres.	Unknown		
Stream Channel	PR	Acres				8.2				

XIII. Water Quality Certification

I hereby issue the Order for the Annual Maintenance of Soft Bottom Channel Reaches (SBC) Reach 112 (Ballona Creek), Reach 114 (Lower Los Angeles River), Reach 115 (Lower San Gabriel River), and Reaches 118 and 119 (Rivas and Rustic Canyons), 4WQC40115038, certifying that as long as all of the conditions listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act 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).

This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Order to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding conditions, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Order and the attachments to this Order; and, (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies, the Regional Water Boards' Water Quality Control Plans and Policies.

June 6, 2022

Date

Renee Purdy Executive Officer Los Angeles Water Quality Control Board

⁹ Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

¹⁰ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.


























































SIGNATORY REQUIREMENTS

All Documents Submitted In Compliance With This Order Shall Meet The Following Signatory Requirements:

- 1. All applications, reports, or information submitted to the Los Angeles Water Quality Control Board (Los Angeles Water 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.
- 2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:
 - a) The authorization is made in writing by a person described in items 1.a through 1.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 Los Angeles Water Board Staff Contact prior to submitting any documents listed in item 1 above.
- 3. Any person signing a document under this section shall make the following certification:

"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."

Copies of this Form

Include a copy of the Project specific Cover Sheet below with your report: please retain a copy for your records.

Report Submittal Instructions

- **1.** Check the box on the Report and Notification Cover Sheet next to the report or notification you are submitting.
 - **Part A (Annual Report):** This report will be submitted annually from the anniversary of Project effective date until a Notice of Project Complete Letter is issued.
 - **Part B (Project Status Notifications):** Used to notify the Los Angeles Water Board of the status of the Project schedule that may affect Project billing.
 - **Part C (Conditional Notifications and Reports):** Required on a case by case basis for accidental discharges of hazardous materials, violation of compliance with water quality standards, notification of in-water work, or other reports.
- 2. Sign the Report and Notification Cover Sheet and attach all information requested for the Report Type.
- 3. Electronic Report Submittal Instructions:
 - Submit signed Report and Notification Cover Sheet and required information via email to: <u>Valerie.CarrilloZara@waterboards.ca.gov</u>
 - Include in the subject line of the email: Subject: ATTN: Valerie CarrilloZara; File No: 15-038, Reg. Measure ID: 401455 Report

Definition of Reporting Terms

- 1. <u>Active Discharge Period</u>: The active discharge period begins with the effective date of this Order and ends on the date that the Permittee receives a Notice of Completion of Discharges Letter or, if no post-construction monitoring is required, a Notice of Project Complete Letter. The Active Discharge Period includes all elements of the Project including site construction and restoration, and any Permittee responsible compensatory mitigation construction.
- 2. <u>Request for Notice of Completion of Discharges Letter:</u> This request by the Permittee to the Los Angeles Water Board staff pertains to projects that have post construction monitoring requirements, e.g. if site restoration was required to be monitored for 5 years following construction. Los Angeles Water Board staff will review the request and send a Completion of Discharges Letter to the Permittee upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee.

- 3. <u>Request for Notice of Project Complete Letter:</u> This request by the Permittee to the Los Angeles Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements, and no further Project activities are planned. Los Angeles Water Board staff will review the request and send a Project Complete Letter to the Permittee upon approval. Termination of annual invoicing of fees will correspond with the date of this letter.
- 4. <u>Post-Discharge Monitoring Period</u>: The post-discharge monitoring period begins on the date of the Notice of Completion of Discharges Letter and ends on the date of the Notice of Project Complete Letter issued by the Los Angeles Water Board staff. The Post-Discharge Monitoring Period includes continued water quality monitoring or compensatory mitigation monitoring.
- 5. <u>Effective Date:</u> Date of Order issuance.

Map/Photo Documentation Information

When submitting maps or photos, please use the following formats.

1. Map Format Information:

Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference):

- GIS shapefiles: The shapefiles must depict the boundaries of all project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and if possible, provide map with a North American Datum of 1983 (NAD38) in the California Teale Albers projection in feet.
- **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- Other electronic format (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- Aquatic resource maps marked on paper USGS 7.5 minute topographic maps or Digital Orthophoto Quarter Quads (DOQQ) printouts. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
- 2. <u>Photo-Documentation:</u> Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post construction conditions.

REPORT AND NOTIFICATION COVER SHEET				
Project:	Soft-Bottom Channel Reach 114 Annual Maintenance			
Permittee:	Los Angeles County Flood Control District			
Reg. Meas. ID:	401455	Place ID: 401455	File No: 15-038	

Report Type Submitted			
Part A – Project Reporting			
Report Type	Annual Report		
Part B - Project Status Notifications			
Report Type	Commencement of Construction		
Report Type	□ Request for Notice of Completion of Discharges Letter		
Report Type	Request for Notice of Project Complete Letter		
	Part C - Conditional Notifications and Reports		
Report Type	Accidental Discharge of Hazardous Material Report		
Report Type	Violation of Compliance with Water Quality Standards Report		
Report Type	In-Water Work/Diversions Water Quality Monitoring Report		
Report Type	Modifications to Project Report		
Report Type	Transfer of Property Ownership Report		
"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."			
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Print	Name	1
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Affiliation and Job Title

Signature

Date

¹STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize ______ to act in my behalf as my representative in the submittal of this report, and to furnish upon request, supplemental information in support of this submittal.

Permittee's Signature

Date

*This Report and Notification Cover Sheet must be signed by the Permittee or a duly authorized representative and included with all written submittals.

Part A – Project Reporting

Report Type	Annual Report
Report Purpose	Notify the Los Angeles Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit	Annual reports shall be submitted each year on the anniversary of Project effective date. Annual reports shall continue until a Notice of Project Complete Letter is issued to the Permittee.
Report Contents	The contents of the annual report shall include the topics indicated below for each project period. Report contents are outlined in Annual Report Topics below.
	 <u>During the Active Discharge Period</u> Topic 1: Construction Summary Topic 2: Mitigation for Temporary Impacts Status Topic 3: Compensatory Mitigation for Permanent Impacts Status <u>During the Post-Discharge Monitoring Period</u> Topic 2: Mitigation for Temporary Impacts Status Topic 3: Compensatory Mitigation for Permanent Impacts Status
Annual Report Topics (1-3)	
Annual Report Topic 1	Construction Summary
When to Submit	With the annual report during the Active Discharge Period.
Report Contents	 Project progress and schedule including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water best management practices (BMPs). If construction has not started, provide estimated start date and reasons for delay. Color photos, pre-project and current. Map showing general Project progress. If applicable: Summary of any conditional reports sent during the year such as "Accidental Discharge of Hazardous Material Report" or "Accidental Discharge of Hazardous Material Report" Copies of revised permits from other agencies Compilation of all water quality monitoring results for the year in a spreadsheet format.
Annual Report Topic 2	Mitigation for Temporary Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post- Discharge Monitoring Period.

Report Contents	*If not applicable report N/A.
	 Planned date of initiation and map showing locations of mitigation for temporary impacts to waters of the state and all upland areas of temporary disturbance which could result in a discharge to waters of the state. If mitigation for temporary impacts has already commenced, provide a map and information concerning attainment of mitigation success.
Annual Report Topic 3	Compensatory Mitigation for Permanent Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post- Discharge Monitoring Period.
Report Contents	*If not applicable report N/A.
	 Part A. Permittee Responsible Planned date of initiation of compensatory mitigation site installation. If installation is in progress, a map of what has been completed to date. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan.
	 Part B. Mitigation Bank or In-Lieu Fee 1. Status or proof of purchase of credit types and quantities. 2. Include the name of bank/ILF Program and contact information. 3. If ILF, location of project and type if known.

Part B – Project Status Notifications

Report Type	Request for Notice of Completion of Discharges Letter
Report Purpose	Notify Los Angeles Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and permittee responsible compensatory mitigation, is complete.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities.
Report Contents	 Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. An updated monitoring schedule for mitigation for temporary impacts to waters of the state and permittee responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type	Request for Notice of Project Complete Letter
Report Purpose	Notify Los Angeles Water Board staff that construction and/or any post- construction monitoring is complete, or is not required, and no further Project activity is planned.

When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents	 Part A: Mitigation for Temporary Impacts 1. A report establishing that areas of temporary impacts to waters of the state, and upland areas of temporary disturbance which could result in a discharge to waters of the state, have been successfully restored and all identified success criteria have been met. Pre- and post-photo documentation of all restoration sites.
	 Part B: Permittee Responsible Compensatory Mitigation A report establishing that the performance standards outlined in the compensatory mitigation plan have been met. Status on the implementation of the long-term maintenance and management plan and funding of endowment. Pre- and post-photo documentation of all compensatory mitigation sites. Final maps of all compensatory mitigation areas (including buffers).
	 Part C: Post-Construction Storm Water BMPs 6. Date of storm water permit Notice of Termination(s), if applicable. 7. Report status and functionality of all post-construction BMPs.

Part C – Conditional Notifications and Reports

Report Type	Accidental Discharge of Hazardous Material Report
Report Purpose	Notifies Los Angeles Water Board staff that an accidental discharge of hazardous material has occurred.
When to Submit	Within five (5) working days following the date of an accidental discharge. Continue reporting as required by Los Angeles Water Board staff.
Report Contents	 The report shall include the OES Incident/Assessment Form, a full description and map of the accidental discharge incident (i.e. location, time and date, source, discharge constituent and quantity, aerial extent, and photo documentation). If applicable, the OES Written Follow-Up Report may be substituted. If applicable, any required sampling data, a full description of the sampling methods including frequency/dates and times of sampling, equipment, locations of sampling sites. Locations and construction specifications of any barriers, including silt curtains or diverting structures, and any associated trenching or anchoring.

Report Type	Violation of Compliance with Water Quality Standards Report
Report Purpose	Notifies Los Angeles Water Board staff that a violation of compliance with water quality standards has occurred.

When to Submit	The Permittee shall report any event that causes a violation of water quality standards within three (3) working days of the noncompliance event notification to Los Angeles Water Board staff.
Report Contents	The report shall include: the cause; the location shown on a map; and the period of the noncompliance including exact dates and times. If the noncompliance has not been corrected, include: the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and any monitoring results if required by Los Angeles Water Board staff.

Report Type	In-Water Work and Diversions Water Quality Monitoring Report
Report Purpose	Notifies Los Angeles Water Board staff of the completion of in-water work.
When to Submit	Within three (3) working days following the completion of in-water work. Continue reporting in accordance with the approved water quality monitoring plan.
Report Contents	As required by the approved water quality monitoring plan.

Report Type	Modifications to Project Report
Report Purpose	Notifies Los Angeles Water Board staff if the Project, as described in the application materials, is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
When to Submit	Prior to any alteration or modification of Project activities.
Report Contents	A description and location of any alterations of Project activities. Identify any Project modifications that will interfere with the Permittee's compliance with the Order. Any alteration may require an Amendment, to be determined by Los Angeles Water Board staff.

Report Type	Transfer of Property Ownership Report
Report Purpose	Notifies Los Angeles Water Board staff of change in ownership of the Project or Permittee-responsible mitigation area.
When to Submit	At least 10 working days prior to the transfer of ownership.
Report Contents	 A statement that the Permittee has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: a. the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and b. responsibility for compliance with any long-term BMP¹ maintenance plan requirements in this Order. A statement that the Permittee has informed the purchaser to submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.

¹ Best Management Practices (BMPs) is a term used to describe a type of water pollution or environmental control.

Compliance with Code of Federal Regulations, title 40, section 121.7, subdivision (d).

The purpose of this attachment is to comply with Title 40, Code of Federal Regulations (CFR) Part 121.7(d)(1), which requires an explanation of why a condition is necessary to assure that the authorized discharge will comply with water quality requirements, and a citation to federal, state, or tribal law that authorizes the condition.

This Attachment uses the same organizational structure as the *Conditions* Section, and the statements below correspond with the conditions set forth in the *Conditions* Section. The Sections preceding the *Conditions* Section are not "conditions" as used in 40 CFR section 121.7.(A).

The following three sources of authority are applicable to almost all conditions. Because these authorities are relevant to so many conditions, they are described in greater detail here and then cross-referenced below.

The state's Statement of Policy with respect to Maintaining High Quality of Waters in California ("Antidegradation Policy", State Board Resolution No. 68-16), requires that any "activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the state will be maintained." All Regional Board Water Quality Control Plans incorporate the state's Antidegradation Policy (40 CFR Part 131.12), which requires "[e]xisting instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected." According to U.S. EPA, for dischargers of dredged or fill material comply with the federal Antidegradation Policy by complying with U.S. EPA's section 404(b)(1) Guidelines. The State Water Board adopted a modified version of U.S. EPA's section 404(b)(1) Guidelines in the Dredge or Fill Procedures (also referred as State Supplemental Guidelines).

The State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Dredge or Fill Procedures) were adopted on April 2, 2019 and went into effect on May 28, 2020. The Dredge or Fill Procedures were adopted pursuant to the State Water Board's authority under Water Code section 13140 (state policy for water quality control) and 13170 (water quality control plan), and accordingly have regulatory effect. Consistent with Government Code, section 11353, a clear and concise summary of the Dredge or Fill Procedures is available in California Code of Regulations, section 3013. Per the Dredge or Fill Procedures, the permitting authority may only approve a project if the demonstrations set forth in Section IV.B.1 have been made. The information required by Section IV.A is necessary to ensure compliance with Section IV.B.1.

In addition, the conditions within the Order are generally required pursuant to the Los Angeles Water Board's Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan). The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. For instance, the Basin Plan

includes water quality objectives for chemical constituents, oil and grease, pH, dissolved oxygen, temperature, , toxicity, pesticides, solid, suspended or settleable materials, floating material, turbidity, exotic vegetation, color, and taste and odor which ensure protection of beneficial uses.

Furthermore, the conditions within the Order are also required, where applicable, pursuant to statewide water quality control plans and policies which were adopted and are periodically revised pursuant to Water Code section 13240, including, but not limited to, the following:

- Inland Surface Waters, Enclosed Bays, and Estuaries (ISWEBE) Plan,
- Plan for California's Nonpoint Source (NPS) Pollution Control Program,
- Policy for the Implementation and Enforcement of the Nonpoint Source (NPS) Pollution Control Program, and
- State of California Executive Order W-59-93 (Wetlands "No Net Loss" Policy).

Furthermore, California Code of Regulations, title 23, Chapter 28 also sets forth regulations pertaining to water quality certifications. Section 3856 sets forth information that must be included in water quality certification requests, includes a description of steps that have or will be taken to avoid, minimize, and compensate for impacts to waters of the state.

Conditions

Authorization

Authorization under this Order is granted based on the application information submitted. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Reporting and Notification Requirements

The reports confirm that the best management practices required under this Order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges also ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonably relationship to the benefits to be obtained from the reports. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities). The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Authorization under this Order is granted based on the application information submitted, including identification of the legally responsible party. Conditions regarding transfers are necessary to confirm whether the new owner wishes to assume legal responsibility for compliance with this Order. If not, the original discharger remains responsible for compliance with this Order. Confirmation is also necessary to confirm whether liability for long-term best

management practices maintenance is accepted by another entity. If not, the original discharger remains responsible for compliance with this Order. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Water Quality Monitoring

General

This monitoring condition is authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of monitoring, including costs, bears a reasonable relationship to the need for the monitoring, and the benefits to be obtained from the monitoring. The anticipated costs are minimal as only visual monitoring and in-field measurements are required. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Accidental Discharges/Noncompliance

See explanation for the Reporting and Notification Requirements Section

In-Water Work or Diversions

Consistent with the Dredge or Fill Procedures, section IV.A.2.c, water quality monitoring plans are required for any in-water work, including temporary dewatering or diversions. These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water quality is maintained. A water quality monitoring plan is necessary to conform to water quality standards for oil and grease, dissolved oxygen, pH, turbidity, and temperature. The Regional Water Board's Basin Plan and/or applicable statewide plans and policies contains provisions related to all these constituents.

These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need for, and benefits of, the reports. The anticipated costs are minimal as the sampling requirements are either visual or only require a grab sample on a daily and/or weekly basis. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Post-Construction

The reports confirm that the best management practices required under this order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need

for, and benefits of, the reports. The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Standard Conditions

"This Order is subject to modification or revocation ..." "This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility ..."

"This Order is conditioned upon total payment of any fee ..." These Conditions are standard conditions that "shall be included as conditions of all water quality certification actions." (Cal. Code of Regs., section 3860.)

General Compliance

"Permitted actions must not cause a violation of any applicable water quality standards ..."

By the plain language of section 401 of the Clean Water Act, permitted actions may not cause a violation of applicable water quality standards. This condition related to compliance with water quality objectives and designated beneficial uses is required pursuant to the Los Angeles Water Board's Basin Plan and/or other applicable statewide plans and policies. The Basin Plan's water guality standards consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. The Antidegradation Policy requires that the quality of existing high-quality water be maintained unless any change will be consistent with the maximum benefit to the people of the state, will not unreasonably affect present or anticipated future beneficial uses of such water, and will not result in water quality less than that prescribed in water quality control plans or policies. The Antidegradation Policy further requires best practicable treatment or control of the discharge necessary to assure that pollution or nuisance will not occur and the highest water quality consistent with maximum benefit to the people of the state will be maintained. Applicable beneficial uses and water quality objectives to protect those uses include the designated beneficial uses (Basin Plan, Chapter 2, Tables 2-1, 2-1a, 2-3, 2-3a, 2-4, and 2-4a, and water quality objectives for chemical constituents (Basin Plan, page 3-29), color (Basin Plan, page 3-32), exotic vegetation (Basin Plan, page 3-32), floating material (Basin Plan, page 3-33), oil and grease (Basin Plan, page 3-34), dissolved oxygen (Basin Plan, page 3-39), pesticides (Basin Plan, page 3-40), pH (Basin Plan, page 3-40), solid, suspended and settleable material (Basin Plan, page 3-44), taste and odor (Basin Plan, page 3-44), temperature (Basin Plan, page 3-44), toxicity (Basin Plan, page 3-45), and turbidity (Basin Plan, page 3-46).

"The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports..."

Authorization under this Order is granted based on the application information submitted, including engineering plans, specifications, and technical reports. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Administrative

"Signatory requirements for all document submittals..."

Conditions related to signatory requirements are also authorized by Water Code sections 13383 and 13267, which requires any person discharging waste that could affects the quality of waters to provide to the Water Boards, under penalty of perjury, any technical or monitoring program reports as required by the Water Boards. The signatory requirements are consistent with 40 C.F.R. section 122.22.

"The Permittee shall grant Los Angeles Water Board staff ..."

Conditions related to site access requirements are authorized pursuant to the Water Boards' authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. Water Code section 13267(c) provides that "the regional board may inspect the facilities of any person to ascertain whether the purposes of this division are being met and waste discharge requirements are being complied with."

"A copy of this Order shall be provided to any consultants, contractors, and subcontractors \ldots "

"A copy of this Order must be available at the Project site(s) during construction..."

These conditions require site personnel (agents of the applicant) and agencies to be familiar with the content of the Order and mandate availability of the document at the project site. These conditions are required to assure that any authorized discharge will comply with the terms and conditions of the Order and is inherently tied to the signature requirements required by Water Code section 13267.

"Lake or Streambed Alteration Agreement"

This condition is required pursuant to California Code of Regulations section 3856(e), which requires that copies be provided to the Water Boards of "any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included."

Best Management Practices

All the conditions related to best management practices are consistent with the Water Board's authority to establish, "[w]ater quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area" pursuant to Water Code section 13241(c). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The activities authorized under this Order have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263. As required by Water Code section 13369, all Water Quality Control Plans incentivize the use of best management practices to prevent prohibited discharges into waters of the state.

Dewatering and/or Stream Diversion

These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water guality is maintained. Accordingly, these conditions require implementation of best practicable treatments and controls to prevent pollution and nuisance, and to maintain water quality. If surface waters or ponded waters are not appropriately diverted from areas undergoing grading, construction, excavation, and/or vegetation removal, the waters will be susceptible to erosion and increased sediment loads, contamination and pollution from construction equipment, temperature fluctuations, etc. Dewatered/ diverted areas must also be stabilized prior to a rainfall event to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Dewatering and stream diversions have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Site Management

This condition is necessary to prevent violation of state discharge prohibitions that protect water quality objectives. For instance, fuels and lubricants associated with the use of mechanized equipment have the potential to result in toxic discharges to waters of the state in violation of water quality standards, including the floating material and toxicity and floating material water quality objectives (Basin Plan, pages 3-33 & 3-45). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Failure to appropriately manage site conditions has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263.

Hazardous Materials

These conditions are required pursuant to the Los Angeles Basin Plan (toxicity objective, page 3-40), and the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP), which prohibit the discharge of substances in concentrations toxic to human, plant, animal, or aquatic life. Toxic compounds can impair the beneficial uses of cold freshwater habitat, estuarine habitat, marine habitat, preservation of rare and endangered species, fish migration, fish spawning, warm freshwater habitat, and wildlife habitat. Conditions related to toxic and hazardous materials are necessary to assure that discharges comply with any water quality objectives adopted or approved under sections 13170 or 13245 of the Water Code.

Conditions related to concrete/cement are required pursuant to the Los Angeles Basin Plan, which require discharges to waters do not adversely raise or lower pH levels (Basin Plan, page 3-40). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The release of hazardous materials has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the

Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Sediment Control and Stabilization/Erosion Control

Conditions related to erosion and sediment control design requirements are required to sustain fluvial geomorphic equilibrium. Improperly designed and installed BMPs result in excess sediment, which impairs surface waters, adversely affect beneficial uses, and results in exceedance of water quality objectives.

Conditions on projects that result in a hydromodification to a water of the state are necessary to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Hydromodification is a general term that encompasses effects of projects on the natural hydrologic, geochemical, and physical functions of streams and wetlands that maintain or enhance water quality. Improper project design and installation of any project that results in a hydromodification to a water of the state may trigger bank failure and channel incision which results in excess sediment impacts to downstream beneficial uses. Water Code section 13264 prohibits any discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Wildlife and Special Status Species

Pursuant to the California Endangered Species Act (Fish & Wildlife Code, sections 2050 et seq.) and federal Endangered Species Act (16 U.S.C. sections 1531 et set.), the Order does not authorize any act which results in the taking of a threatened, endangered, or candidate species. In the event a Permittee requires authorization from the state or federal authorities, California Code of Regulations, title 23, section 3856(e), requires that copies be provided to the Los Angeles Water Board of "any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included."

Stormwater

Conditions related to stormwater management are required to comply with the Los Angeles Region's Basin Plan and the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 20090009-DWQ; NPDES No. CAS000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit). Post-rain erosion and sedimentation problems can contribute to significant degradation of the waters of the state; therefore, it is necessary to take corrective action to eliminate such discharges to avoid or minimize such degradation. Implementation of control measures and best management practices (BMPs) described in the condition will assure compliance with water quality objectives including floating material, temperature, suspended and settleable material, and turbidity. (Basin Plan, pages 3-33, 3-44, 3-44, 3-46) Water Code section 13264 prohibits any discharge that is not specifically

authorized in this Order. Stormwater has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

On-site Mitigation for Temporary Impacts

Conditions in this section related to restoration and/or mitigation of temporary impacts are required by the Dredge or Fill Procedures, which requires "in all cases where temporary impacts are proposed, a draft restoration plan that outlines design, implementation, assessment, and maintenance for restoring areas of temporary impacts to pre-project conditions." (Dredge or Fill Procedures section IV. A.2(d) & B.4.)

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Water Code section 13263 (discharges must implement water quality control plans and water quality objectives)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.10 (a) (no discharge permitted if there is a practicable alternative with less impacts)
- 40 CFR 230.10 (b) (discharges may not cause or contribute to violations of water quality standards)
- 40 CFR 230.10 (c) (discharges may not cause degradation)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

• Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)

Compensatory Mitigation for Permanent Impacts

Conditions related to mitigation requirements are required by the Dredged or Fill Procedures, section IV.A.2.b. In addition, section IV.B.1.a of the Procedures require that the Water Boards will approve a project only after it has been determined that a sequence of actions has been taken to first avoid, then to minimize, and lastly compensate for adverse impacts that cannot be practicably avoided or minimized. (See also State Supplemental Guidelines, section 230.10, restrictions on discharge & Cal. Code of Regs., section 3856(h) (requiring submittal of proposed mitigation and description of steps taken to avoid, minimize, or compensate).) Accordingly, compensatory mitigation may be required for projects that would result in permanent impacts. Conditions regarding compensatory mitigation are necessary to ensure compliance with state and federal anti-degradation policies. Compensatory mitigation conditions are consistent with Executive Order W-59-93 commonly referred to as California's "no net loss" policy for wetlands. Compensatory mitigation requirements are also authorized by Water Code, section 13263, which requires the imposition of requirements that implement water quality control plans, takes into consideration the beneficial uses to be protected, and the need to prevent nuisance.

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

Soft Bottom Channel Reaches Annual Maintenance (Project) Attachment D

- Dredge or Fill Procedures section IV. A.2(d) (restoration plan for temporary impacts).
 Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)