

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://pw.lacounty.gov

July 26, 2022

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1460 ALHAMBRA, CALIFORNIA 91802-1460 IN REPLY PLEASE REFER TO FILE: SWM-0

Ms. Celine Gallon 401 Water Quality Certification Section California Regional Water Quality Control Board 320 West 4th Street, Suite 200 Los Angeles, CA 90013

Dear Ms. Gallon:

2019-20 ANNUAL MAINTENANCE AND MONITORING REPORT FOR SOFT-BOTTOM CHANNEL MAINTENANCE CLEARING FOR REACHES 1-110 WASTE DISCHARGE REQUIREMENTS AND CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION ORDER NO. R4-2018-0099, FILE NO. 99-011

The Los Angeles County Flood Control District (LACFCD) is pleased to submit the enclosed 2019-20 Annual Maintenance and Monitoring Report for the soft-bottom channel (SBC) maintenance clearing for reaches 1-110, per the Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certifications, Order No. R4-2018-0099, File No. 99-011.

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/2019-</u> <u>20 SBC Annual Maintenance and Monitoring Report/RWQCB Submittal/</u>

- 1. Attachment No. 1 Final 2019-20 SBC Maintenance Schedule
- 2. Attachment No. 2 Pre- and Post-Clearing Mitigation Forms
- 3. Attachment No. 3 Pre- and Post-Clearing Biological Resources Monitoring Form
- 4. Attachment No. 4 Pre-Clearing Surveys and Reports
- 5. Attachment No. 5 2019-20 SBC Pre- and Post-Maintenance Photos
- 6. Attachment No. 6 Water Quality Monitoring Summary Reports
- Attachment No. 7 Current Waste Discharge Requirements and Clean Water Act Section 401 Water Quality Certifications, Order No. R4-2018-0099, File No. 99-011
- 8. Attachment No. 8 2019 Maintenance Methodology Pilot Projects

Ms. Celine Gallon July 26, 2022 Page 2

SUMMARY OF 2019-20 MAINTENANCE ACTIVITIES

LACFCD was responsible for maintenance of 109 SBC reaches during the 2019-20 SBC maintenance year. Of these 109 SBC reaches, LACFCD maintained a total of 88 reaches during the 2019-20 maintenance clearing period.

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.

LACFCD conducted additional hydraulic analyses on Reaches 28, 67, 69, 70, 75, 90, 100, and 110. Based on the results, LACFCD will make no changes to the approved maintenance plan for these reaches at this time.

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 19th day of July, 2022 in Alhambra, California.

Ms. Celine Gallon July 26, 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

Olene Humano

JOLENE GUERRERO, PE Assistant Deputy Director Stormwater Maintenance Division

JR:sl

P:\\pw01\pwpublic\fldpub\General\Jessica Rojas\2019-2020 SBC Annual Maintenance and Monitor Reporting\3.RWQCB Submitttal\2019-20 Annual Report Cover Letter RWQCB.docx

Enc.

cc: Regional Water Quality Control Board (Valerie Carrillo Zara, Snejana Toneva)

ATTACHMENT NO. 1 FINAL 2019-20 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

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FINAL 2019-2020 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

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	11/22/2019	11/23/2019		
2	Dry Canyon (Calabasas) PD T1845	West	Non-sensitive	9/3/2019	9/19/2019		
3	Santa Susana Ck M.C.I.	West	Non-sensitive	9/3/2019	9/3/2019		
4	Brown Creek	West	Non-sensitive	3/4/2020	4/1/2020		
5	Caballero Creek M.C.I. (West Fork)	West	Non-sensitive	10/17/2019	10/26/2019		
6	Caballero Creek M.C.I. (East Fork)	West	Non-sensitive	10/29/2019	11/1/2019		
7	Bull Creek M.C.	West	Sensitive	10/16/2019	11/7/2019	MMPP Reach	
8	Hayvenhurst Drain - Project 470 Outlet	West	Non-sensitive	11/2/2019	11/21/2019		
9	Project 106 Outlet	West	Non-sensitive	9/25/2019	10/1/2019	MMPP Reach	
10	Project No. 469	West	Non-sensitive	9/4/2019	9/25/2019		
12	Haines Canyon M.C.O.	West	Sensitive	1/31/2020	2/4/2020		
13	Project No. 5215 Unit 1	West	Non-sensitive	10/8/2019	10/8/2019		
14	May Channel M.C.O. (into Pacoima Canyon)	West	Sensitive	10/9/2019	10/10/2019		
15	Pacoima Wash	West	Non-sensitive	9/27/2019	10/7/2019		
16	Verdugo Wash - Las Barras Canyon	West	Non-sensitive	1/28/2020	1/28/2020		
18	Engleheard Channel	West	Non-sensitive	1/28/2020	1/28/2020		
19	Pickens Canyon	West	Non-sensitive	1/23/2020	1/24/2020		
20	Webber Channel (@ private bridge)	West	Non-sensitive	1/27/2020	1/27/2020	MMPP Reach	
21	Webber Channel (@ downstream of bridge)	West	Non-sensitive	1/27/2020	1/27/2020	MMPP Reach	
22	Halls Canyon	West	Non-sensitive	1/24/2020	1/27/2020		
24	Compton Creek	South	Non-sensitive	9/16/2019	12/18/2019	MMPP Reach	
25a	Los Angeles River - Willow to PCH (East/Left Bank)	South	Non-sensitive	10/24/2019	11/14/2019	MMPP Reach	
25b	Los Angeles River - Willow to PCH (West/Right Bank)	South	Non-sensitive	10/24/2019	11/14/2019	MMPP Reach	
26	Project 740	South	Non-sensitive	9/13/2019	9/23/2019		
27	Wilmington Drain	South	Sensitive	9/16/2019	11/27/2019		
28	Triunfo Creek (PD T2200)	West	Sensitive	12/20/2019	1/8/2020		
29	Las Virgines Creek (PD T1684) M.C.I.	West	Non-sensitive	12/13/2019	12/18/2019		
32	Stokes Channel (PDT043)	West	Non-sensitive	9/27/2019	10/10/2019	<u> </u>	
33	Medea Creek (PD T1378)	West	Non-sensitive	1/11/2020	1/25/2020	1	
35	Medea Creek (PD 11376) Medea Creek - Main	West	Non-sensitive	12/10/2019	12/11/2019		
36	Cheseboro Inlet (PDT043)	West	Non-sensitive	12/6/2019	12/7/2019	1	
37	Medea - Cheseboro Outlet	West	Non-sensitive	12/12/2019	12/12/2019	1	
38	Lindero M.C.O.	West	Non-sensitive	10/12/2019	10/16/2019		
39	Beatty Channel Outlet @ SGR	East	Sensitive	10/1/2019	10/1/2019	<u> </u>	
40a	(a) San Gabriel River – Santa Fe Dam to I-10 Freeway	East	Non-sensitive	9/30/2019	12/2/2019	1	
40a 40b	(b) San Gabriel River – I-10 Freeway to Thienes Avenue	East	Sensitive	11/25/2019	12/16/2019		
41	Walnut Creek	East	Non-sensitive	9/27/2019	10/27/2019		
41	San Jose Creek d/s 1000' from end of concrete channel	East	Non-sensitive	1/7/2020	1/15/2020		
42 43a	(a) San Gabriel River- Upper	South	Sensitive	9/16/2019	11/22/2019		
43a 43b	(b) San Gabriel River- Lower	South	Sensitive	9/16/2019	11/22/2019	1	

FINAL 2019-2020 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations	
				Start	Completion		
44	San Gabriel River - Rubber Dams	South	Non-sensitive	9/23/2019	1/31/2020		
45	Sand Canyon (PD T1307) Main Channel Inlet	West	Non-sensitive	10/7/2019	10/7/2019		
46	Sand Canyon (PD T1307) Main Channel Outlet	West	Non-sensitive	10/7/2019	10/7/2019		
47	Santa Clara River Main Channel (PD T1733-Unit 1)	West	Sensitive	10/4/2019	10/4/2019		
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	West	Non-sensitive	11/7/2019	11/8/2019		
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	West	Non-sensitive	11/7/2019	11/8/2019		
50	Mint Canyon Channel between Solamint & Soledad	West	Non-sensitive	No maintenance	e done - Due to City o Read	f Santa Clarita construction in the ch	
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River – Main Channel	West	Sensitive	10/2/2019	10/15/2019		
52	Sierra Hwy Rd Drainage (CDR 523.203)	West	Non-sensitive	No maintenace do	ne - Due to City of Sa	inta Clarita construction in the Reac	
53	Santa Clara River Non-main Chnl. (PD 832) M.C.I.	West	Non-sensitive	10/2/2019	10/2/2019		
54	Santa Clara River Non-Main Channel (PD 832) Main Channel Outlet	West	Sensitive	10/3/2019	10/3/2019		
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	West	Sensitive	10/2/2019	10/2/2019		
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	West	Sensitive	10/3/2019	10/3/2019		
57	Whites Canyon (PD T704 M.C.I.)	West	Non-sensitive	10/10/2019	10/10/2019		
58	Santa Clara River Main Channel – Right Bank Reach (PD 374)	West	Sensitive	10/1/2019	10/2/2019		
60	Santa Clara River Main Channel – Right Bank Reach (PD's 1339 and 374)	West	Sensitive	10/1/2019	10/2/2019		
61	Santa Clara River Main Channel (PD 659 & 754)	West	Sensitive	9/30/2019	10/15/2019		
63	Oak Ave Rd Drainage (CDR 523.081)	West	Sensitive	10/16/2019	10/22/2019		
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	West	Sensitive	10/16/2019	10/23/2019		
66	Santa Clara River Main Channel (PD 1538)	West	Sensitive	10/9/2019	10/9/2019		
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	West	Sensitive	9/3/2019	9/9/2019		
69	Bouquet Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	West	Sensitive	9/3/2019	9/12/2019		
70	Bouquet Canyon Lower (PD's 544 & 345)	West	Sensitive	9/10/2019	9/12/2019		
71	Santa Clara River Main Channel (PD 1946)	West	Sensitive	9/27/2019	9/27/2019		
72	South Fork- SCR (Smizer Ranch M.C.I.)	West	Non-sensitive	9/30/2019	9/30/2019		
73	Wildwood Cyn Chnl (PD T361) M.C.I.	West	Non-sensitive		No Maintena	nce Done	
75	South Fork-Santa Clara River (PD's 725, 916, 1041, &1300)	West	Sensitive	9/12/2019	9/27/2019		
76	Pico Canyon (PD 813)	West	Sensitive	9/16/2019	9/19/2019		
77	Newhall Creek Outlet	West	Sensitive	9/20/2019	9/20/2019		
78	Placerita Creek	Wes	Sensitive	9/20/2019	9/20/2019		
79	South Fork- Santa Clara River (Valencia Boulevard Bridge Stabilizer)	West	Sensitive	9/26/2019	9/27/2019		
80	South Fork-Santa Clara River (PD's 1947 & 1946)	West	Sensitive	9/26/2019	9/27/2019		
82	Santa Clara River Main Channel (PD 2278)	West	Sensitive	11/6/2019	11/6/2019		
86	Violin Canyon Main Channel Outlet	West	Sensitive	9/26/2019	9/27/2019		
87	Castaic- Old Road Drainage (CDR 525.021D) Outlet	West	Sensitive	10/10/2019	10/15/2019		
88	Hasley Canyon Upper (PD T1496)	West	Non-sensitive	10/29/2019	10/29/2019		
89	Hasley Canyon South Fork (PD T1496)	West	Non-sensitive	10/29/2019	10/29/2019		
90	Hasley Canyon Lower (North Fork PD T1496)	West	Non-sensitive	10/29/2019	10/29/2019		
91	San Martinez Chiquito Canyon Channel u/s of Keningston Road	West	Non-sensitive	11/4/2019	11/4/2019		

FINAL 2019-2020 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Mainten	ance Date	Comments/ Recommendations				
				Start	Completion					
92	San Martinez Chiquito Canyon (North Fork) unnamed	West	Non-sensitive	11/4/2019	11/4/2019					
93	San Martinez Chiquito Canyon between Keningston Road and Val Verde Park	West	Non-sensitive	11/4/2019	11/4/2019					
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	West	Non-sensitive	11/4/2019	11/4/2019					
95	Project No. 1224	West	Non-sensitive	11/12/2019	11/12/2019					
96	PD 1591, Calabasas	West	Non-sensitive	9/20/2019	9/26/2019					
97	PD T1982, Castaic Creek	West	Sensitive	10/17/2019	10/21/2019					
98	Walnut Creek – Channel Inlet	East	Non-sensitive	10/10/2019	10/10/2019					
99	Kagel Canyon – Tujunga Wash	West	Non-sensitive	9/6/2019	10/25/2019					
100	Dry Canyon, Calabasas Creek Inlet	West	Non-sensitive	11/26/2019	11/26/2019					
101	Violin Canyon (PD 2312)	West	Non-sensitive		No maintena	ance done				
102	Violin Canyon (PD 2275)	West	Non-sensitive		No maintena	ance done				
103	Bouquet Canyon Channel (PD 2225)	West	Sensitive		No maintenance done					
104	Castaic Creek (PD 2441 Unit 2)	West	Sensitive		No maintena	ance done				
105	San Francisquito Canyon Channel (PD 2456)	West		No maintenance done						
108	Pico Canyon (PD 2528)	West	Non-sensitive	10/28/2019	11/13/2019					
109	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	West	Sensitive		No maintena	ance done				
110	Hasley Canyon Channel (PD2262)	West	Sensitive		No maintena	ance done				
112 Upper	Ballona Creek	South	Non-sensitive	12/9/2019	12/20/2019	Vegetation clearing only above Ordinary High Water Mark (OHWM)				
112 Lower	Ballona Creek	South	Non-sensitive		No maintena	ance done				
113	Dominguez Channel	South	Non-sensitive		No maintena	ance done				
114	Los Angeles River	South	Non-sensitive	11/15/2019	12/31/2019					
115	San Gabriel River	South	Sensitive	10/1/2019	12/9/2019	Vegetation clearing only above Ordinary High Water Mark (OHWM)				
116	Los Cerritos Channel	South	Non-sensitive		No maintena	ance done				
117	Centinela Creek	South	Non-sensitive		No maintena					
118	Rustic Canyon	South	Non-sensitive	Hand clearing ver 11/12/2019 12/31/2019 only above Ordina		Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)				
119	Rivas Canyon	South	Non-sensitive	11/12/2019 12/31/2019		Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)				
120	Jake's Way (PD 2496)	West	TBD		No maintena					
121	San Francisquito Creek (PD 2271)	West	TBD		No maintena	ance done				

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ATTACHMENT NO. 2 PRE- AND POST-CLEARING MITIGATION FORMS

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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. 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 power tools used to REMORE VEGETHTIAN from Soft BOTTOM ARE FITTED WITH ADDROVED EXTAINST SO AS NOT TO APPECT All gradity

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: 11/22/19	Project end date: 11/23/19
Completed by: Name: <u>RyAN Murallo</u> Approved by: Name: <u>Baltazar Moenu</u>	Title:

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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 HOWER TOOLS SUCH AS WEED ENTERS, HEDGE TRIMMERS, POLE SAWS ETC. ARE FITTED WITH ADDROVED MURCHERS. WORK WAS NOT STARTED BEFORE 8:00 AM 30 AS NOT DISTURD NEIGHDORS,

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:	Rypp Mile	,//6
Approved by: Name:	Baltazar	Moranu

 Title:
 <u>IZEW (EHDEP</u> Date: <u>II 22/19</u>

 Title:
 <u>FCC5</u> Date: <u>II 24/19</u>

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

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 Cre	ek 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	F ESC2 Preservation of Existing Vegetation
FESC21 Dust Control	FESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	FESC50 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.)

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Comments/Revisions:

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Biologist	on site:	☐ Yes	T-No	Date:	
Biologist	Commer	nts/Instruct	tions:		

 Completed by: Name:
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 Title:
 Completed by: Name:
 II/22/19

 Approved by: Name:
 Balfazar Morene
 Title:
 FCC5
 Date:
 II/22/19

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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 POWER TOOLS (WEED EATERS, HEDGE TRIMMERS; CHAN SAWS, ETC.) ARE FITED WITH CERTIFIED EXHAUST TO MEET STATE STANDARDS.

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: —	9/3/19	Project end date:	9/19/19
Completed by: Name:	RYANS MURILO	Title: CREW LEMPER Date:	9/19/19
Approved by: Name:	Baltazar Morzinu	Title: <u>CREW LEMPER</u> Date: Title: <u>FCC5</u> Date	: 9/20/19

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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:

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Disposition: Mitigatio	on measure has bee	en implemented. N	lo further action is requir	ed.
	on measure is not f explain below.)	ully implemented.	Further action is requi	red.
	on measure is not explain below.)	in compliance.	Further action is requi	red.
Comments/Revisions:				
Completed by: Name:	m Muello	-	W LEADER Date: 9/19	1/19
Approved by: Name: Balfaz	ar Norend	Title: FC	5 Date:	2/19
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Los Angeles County Channel Maintenance Project Reach Name DRY Convos 2D 1845 Reach Number #2 Mitigation Monitoring Program

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2019-2020

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:

Soft Bottom Clearing Work Was Performed USING Hand tools, (weed whiles & Hedgers)

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 PERFORMED BEFORE THE WACK STD	RTED.
NO BADS OR NESTING LOCATED. NO EXOTIC PLA.	
Project start date: 9-3-18	Project end date: 9-3-19
Completed by: Name: Jorge Jaramillo Title:	Crew Leader Date: 9-3-19
Approved by: Name: <u>Mickae(A. Olimpio</u> Title)	: <u>FCC5</u> Date: <u>09-3-2019</u>
Mat	

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

2019-2020

Compliance Verification Form

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

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) NONE

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	XESC2 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: SofT Bottom IS DRY, NO	WATER PRESENT.	
Biologist on site: TYes XNo	Date:	
Biologist Comments/Instructions:		
Completed by: Name: Jorge Jaranillo	Title: Crew Leader. Date:	9-3-19
Approved by: Name: Michael Mingis	Title: FCC5 Date:	9-3-19

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2019-2020

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:

NOISE WAS MINIMAL.

Disposition: A 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 duking AND AFTOR	PHOTO'S TOKEN AN	D SUBMITED INTO	£ 54
Completed by: Name: Jaca	Jacon the	Title: Crew Leader	Date: 9-3-16
Completed by: Name: <u>Jorge</u> Approved by: Name: <u>Machae</u>	1. Mysis	Title: $FCC5$	

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2019-2020

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:

WEED TRIMMERS, HEDGE TRIMMERS RAKES AND PITCH FORKS USED.	
BRUSH WAS LOADED ONTO DUMP TRIKKS	

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:

BIRD SURVEY PERFORMED BEFORE TH	E WORK STARTED.
NO BIRDS OR NESTING OR EXOTIC	PLANTS LOCATED.
Project start date: ———	Project end date:
Completed by: Name: Jorge JARAMI 110	
Approved by: Name: Michaela. Nimpio	Title: <u>Fcc5</u> Date: <u>3-2/-2020</u>

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2019-2020

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 Due to hydrological conditions in the reach dur following Best Management Practice were deeme	ing the vegetation clearing operations, the

X 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:	X	Mitigation	measure	has	been	implemented.	No	further	action	is r	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:	B, RDS OR NESTING	in AREA.	
Biologist on site: TY	∕es ⊠No	Date:	
Biologist Comments/In	structions:		
Completed by: Name: J			Date: <u>3-7-2</u> °
Approved by: Name:	Michael a. Alimpio	Title: Fccs	Date:21 - 20

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2019-2020

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.

Description of Activity/Method of Implementation:

Ation	NO	MECHAM.	e4(E	AUTPLENT	USÉ	78 (04D	DUMP	TRUCK.	NAND
LOADING	6 177	H PitcH	FORKS.	LigHT	NUISE	WITH	WEED	TRIMM EX	15 AND
HEDGER	25.								
	``								

Disposition: Λ 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: J	ORGE TARAMILLO
Approved by: Name:	Michael A. Minsto

Title:	P.W. C.L	Date:	3-7-20
Title:	FCCS	Date:	3-2120

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	o 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:

ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	☐ ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swale	es 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:

HAV BOOMS	ARE IN	J DIACE	DOWN STREAM.	NO RUNNING
100000		1		
WATER'				

Biologist on site: TYes TrNo

Date:

Biologist Comments/Instructions:

Completed by: Name: Ryth Nurillo	
Approved by: Name: Baltazar Maznu	
P: fldpub West Hansen Mitigation Monitoring Forms Reach 5 doc	

Title: <u>CREW LEADER</u> Date: <u>10/17/19</u> Title: <u>FULS</u> Date: <u>10/18/19</u>

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 VEGITATION WAS REMOVED BY HAND: LIMITED USE of POWER TOOLS THAT ARE FITTED WITH APPROVED EXHAUST. 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: an management of the second TO 17 Project end date: 10 Project start date: Completed by: Name: RYAN HURILO Title: CREW LEADER Date: 10/17/19 Approved by: Name: Baltgzar MOTENU Title: FLCS Date: 10/18/19

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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 DOWER TOOLS FITTED WITH APPROVED MUFFLERS, ALL VEGITATION REMOVED AND LOAD by HAND DUMD 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:** Title: <u>CREW (EADER</u> Date: <u>10/17/19</u> Title: <u>FCC5</u> Date: <u>10/18/19</u> Completed by: Name: RVAN MURI Approved by: Name: BataZat

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Caballero Creek (West) Reach Number #5

sonace de posace espanace spanace posace posace espanace	N CI	N	Y.W.	PIN	A	Z	K K				
Comment	HAV BOOM AT END OF REACH						WEST SIDE Convoletes				
Noise	7										
11:0		,	7				7		· · · · · · · · · · · · · · · · · · ·	The second s	HARVES ON CONSIGNATION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO
•						<u>`</u>	<u>\</u>				and the second s
Date	10/17/19	10/18/19	10/19/19	10/22/19	10/23/19	10/24/19	10 2619				

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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. 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 POWER TOOLS SICH AS WEED EATERS, HEDGE TRIMMERS AND POLE SAWS ARE 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:
 10/29/19 Project end date:
 11/1/19

 Completed by: Name:
 R_{AD} M_{VR1}/I_{D} Title:
 Ceew Cee

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. 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:

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						
	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 IS PLACED AT	,						
Biologist on site: I™No	Date:						
Biologist Comments/Instructions:							
Completed by: Name: Ryan Munillo Billing Morray	Title: <u>CREW (EMPER</u> Date: 10/29/19 Title: <u>FUS</u> Date: 10/30/19						
Approved by: Name: Da 4 Zar Noren	Title: <u>145</u> Date: <u>16 20 19</u>						

Approved	by:	Name:	Balta	Zal	Moren	1
						/

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Compliance Verification Form

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 REMOVED USING SMALL POWER TOOLS FILLED 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:**
 Completed by: Name: Rugar Marcho
 Title: Crew Center
 Date: 10/29/19

 Approved by: Name: Baltazar Marcho
 Title: FCC5
 Date: 10/30/16

		e parait spanie	Y.M.	A N			-			7 m0/1 % различать у различать с
Jos Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Calor/lece Creek (E45.7)</u> Reach Number <u>#-C</u>	Comment	STRAW REW AT END OF REACH	Cempleter							
ounty Ch	ation Moni <u>Caba/lee</u> 17 #-C	Noise		7						
ungeles Co	Mitigati ch Name (ch Number	H20								
LOS /	Reach Reach	All								
		Date	10/29/14	6111		-			-	

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

2019-2020

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:

SMUL POWER TOOLS WERE USED T Loppers & Machetes were also	· O CUT + VEBRUSH VEBETH TION.
Disposition: \checkmark Mitigation measure has been im	plemented. No further action is required.
Mitigation measure is not fully in (Please explain below.)	mplemented. Further action is required.
Mitigation measure is not in c (Please explain below.)	ompliance. Further action is required.
Comments/Revisions:	
PHOTOS WERE TAKEN - BEFORE - PURING	S& AFTER.
Project start date: 10-16-19	Project end date: <u>//-7-/9</u>
Completed by: Name: Jorge Java-milleTitle:	P.W. CL. Date: 10-16-19
Approved by: Name: <u>Methical Minifics</u> Title:	FC c5 Date: 10-07-19

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

2019	9-2020
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mpact Issue	: Hydrology and Water Quality	y Trash/Debris Remove	d (Tons)) 1 ton.
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Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) MINIMAL

11-07-19

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:

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
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:

BMP WAS USED.		
Biologist on site: No Xes	Date: 10-16-19	
Biologist Comments/Instructions:		
Completed by: Name: Jorge Javamille	Title: P.W. C.L.	Date:/0-16-19
Approved by: Name: Michael 9. Mensio	Title: FCC5	Date: M-07=/9

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

2019-2020

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:

Noise was Mu	nimal,	We	used sr	nall	Sower	100/5
for a limited a					,	,
Was out using						-

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:

Completed by: Name: Jorge Jaramillo	Title: $\int W \cdot C \cdot L$	JJ. 11-7-19 Date:
Approved by: Name: Michael a. Minger	Title: FC CS	_Date: <u>//-07-/9</u>

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name BULL CREEK

Reach Number #7

Initial	, to to	, t, t,	1-11,	.++		· É			
Comment									
Noise	Z	, L	X	X		<u> </u>			
H20						<u></u>			
Air	X		X	- +	\mathbf{X}	X			
Date	10-10-19	61-17-01	61-52-01	61-62-91	61-02-01	51-2-11			

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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. 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 VEGIHATION WAS REMOVED WITH HAND TOOLS AND POWER TOOLS THAT ARE FITTED WITH APPROVED EXHAUST.

Disposition:	 Mitigation measure has been implemented. N	lo further a	ction is requ	uired.
	 Mitigation measure is not fully implemented. (Please explain below.)	Further a	ction is req	uired.

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

Project start date: 11/2/19	Project end date: 1/2/19
Completed by: Name: <u>RyAN Muer</u> Approved by: Name: <u>Baltazar M</u>	O Title: <u>(REW (EADER</u> Date: <u>11/21/19</u>) Title: FCLS Date: <u>11/22/19</u>

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. 8 Pro	oject 470 Outlet T.G.: 561-E3
Permit Requirements: All vegetation in the channel will be kept clear du	uring the dry season using hand-clearing methods.
Description of Activity/Method of Implem Due to hydrological conditions in the reach following Best Management Practice were d	entation: h during the vegetation clearing operations, the eemed 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 n (Please explain below.)	been implemented. No further action is required. not fully implemented. Further action is required. not in compliance. Further action is required.
Biologist on site: TNO TYES Biologist Comments/Instructions: ADDED ANOTHER GRAW BAU Completed by: Name: Ryan Murch	Date: 11/2/19 <u>LE BEERE EXISTING ONE</u> . Title: <u>CREWLEADER</u> Date: 11/21/19 Title: FLCS Date: 11/22/19
Approved by: Name: Baltazar Maam	

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

Impact Issue: Noise

Mitigation Measure #: 3

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

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:

Completed by: Name: RIAL Murillo Title: CREW LEADER Date: 11/21/19 Approved by: Name: Batazar Moreno Title: Fees Date: 11/22/19

T.G.: 561-E3

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name HAVEHURST DEPIN 478 Reach Number

junical 9 years 9 years 9 years 9 years 9 years 9 years 1 year	EW	Å	EN.	RN.	P.W.	C.N.	P.N.	S.N.	Z.N.		-
Comment	PLACED BOOM AT END OF REACH								CONDETED THU RENGED Brown		
Noise									2		
H20											
Â.		<u>\</u>		2						The second	
Date	11/2/12	======================================	11 6/19	11 [7] [9]	11 00 119	1919	1111	11/19/19	11/21/19		10

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

2019-2020

Impact Issue: Air Quality

Mitigation Measure #: 1

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:

HAND CLEARING WITH TOOLS SUCH AS HAND TRIMMERS, MACHETES AND
LOPPERS. GAS POWER 4- STROKE WEED TRIMMERS AND HODGERS USE TO
CLEAR 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:

THE work AREA	Air QUALITY WAS	NOT IMPACTED	DUE TO	HAND
C (KARING.	/			

Project start date: 29-25-2620

Project	end	date:	10-61-2	2019
Project	ena	uale:		

Completed by: Name: Jokge JARAM. (10	Title: PwcL	Date: 10-01-2019
Approved by: Name: Mechal a. Ally fi	Title: <u>Fcc5</u>	Date: 10-01-2019

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

2019-2020

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>1, 5</u>	,
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	

T.G.: 531-G7

9

Location/Channel Reach#: Reach No. 9 Project 106 Outlet

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	ESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swal	es ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: Mitigation measure	e has been implemented. No further action is required.
Mitigation measur (Please explain be	e is not fully implemented. Further action is required. elow.)
(Please explain be	re is not in compliance. Further action is required. elow.)
Comments/Revisions: BMP	INFIALIED.
Biologist on site: No TYes	Date:
Biologist Comments/Instructions:	
Completed by: Name: Jarge Jarg M.	Title: $p_{\omega} \subset L$ Date: $10^{-61-201}$

Approved by: Name: muchal allow Date: /0-0/-2019 C:\Users\molimpio\Documents\SOFT BOTTOM MITIGATION FORM AREA #2\Reach 9 PROJECT-106-HASKEL DRAIN OUTLET DS VICTORY .doc

Facs

Title:

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

2019-2020

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:

NO EXEMPIVE NOISE	CLEATED DUG T	2 HAAND CLEAR	Ing only.
All Priver tools Ant			
EX HAUSET MUTTLERS A			
Dump Truck UNS PAR			

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.)

BEFORE DIRING AND AFTER PHOTOS WE	RE TAKEN.	
X.	1	
Completed by: Name: <u>Jour Janamillo</u> Approved by: Name: <u>Muchael A. Aufin</u>	Title: <i>Γω ⊂</i> (Date: <u>/0-6/- 20/9</u>
Approved by: Name: Approved by: Name:	Title: Fcc 9	Date: /0-01-2019

WOODLEY DRAIN F200 2067 TASK – AF 22 WO# 6293061 LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

MITIGATION MONITORING PROGRAM

2019-2020

Compliance Verification Form

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:

Bruch was Cleared with Hand TOOLS, weed whips, Hedgers, Pitch Forks. Power tools were fueled over absorbant Pads. 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 Before Work started. Project start date: 9-5-19Project end date: <u>9-25-19</u> Completed by: Name: <u>Jorge Javamille</u> Title: <u>BPW.C.L.</u> Date: <u>9-25-19</u> Approved by: Name: <u>Michaelle Mayles</u> Title: <u>FCC5</u> Date: <u>9-25-19</u>

2019-2020 WOODLEY DRAIN F200 2067 TASK – AF 22 WO# 6293061 LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT

2019-2020

MITIGATION MONITORING PROGRAM Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) <u>2.5</u>	
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Mitigation Measure #: 2

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
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:

NO BMP Needed.

Biologist on site: TYes 🛛 🏹 No

Date:

Biologist Comments/Instructions:

Completed by: Name: Jorge Jaramille	Title: P.W. C.L.	Date: <u>9-25-19</u>
Approved by: Name: Mechalli, Olyces	Title: FCC5	Date: 9-25 -19

WOODLEY DRAIN F200 2067 TASK – AF 22 WO# 6293061 LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT **MITIGATION MONITORING PROGRAM**

2019-2020

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:

Small Power tools were used to cut All Brush At Bottom of ROCK Section.

- 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.)

PHOTOS were taken Before During & After work Was Performed.

 Completed by: Name: Jorg-e Javamillo
 Title: <u>fWCL</u>
 Date: <u>9-25-19</u>

 Approved by: Name: <u>Machael Allergen</u>
 Title: <u>FCCS</u>
 Date: <u>9-25-19</u>

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1Location/Channel Reach #: Reach No. 12 Haines Cyn M.C.OT.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 Act	vity/Method of Implementation:
Mowed by	hand using small tools weed-eators, and
hedgers. We	hand using small tools Liged-eaters, and Cut and remove invasive plants and vegetation.
Air quality	15 good
/	
Disposition:	Mitigation measure has been implemented. No further action is required.
N/A	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
N/A	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisio	ins:
None	
<u> </u>	
Project start date:	1/31/20 Project end date: $2/4/20$
Completed by: Nam	e: Mauricio Canta Title: P.W.C.L Date: 1/31/20 : Dantiago Vagoz Title: FCCS Date: 1/31/20
Approved by: Name	: Jantiago Vazour Title: FCCS Date: 1/31/20
D 1/71 1:117	

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Compliance Verification Form

Impact Issue: Hydrology and Water Qua	lity Trash/Debris Removed (Tons)						
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) <u>300</u>						
Location/Channel Reach #: Reach No. 12	Haines Cyn M.C.O T.G.: 503-F2						
	keep the reach clear of vegetation, except for vegetation I be repeated annually to prevent growth from restricting						
	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	F ESC50 Silt Fence						
└ ESC51 Straw Bale Barriers	⊢ ESC52 Sand Bag Barriers						
Mitigation measure is (Please explain below	s not in compliance. Further action is required.						
· · · · · · · · · · · · · · · · · · ·							
Biologist on site: ᠠᢆ∕Yes ┌ No	Date: $\frac{1}{3}(20)$						
Biologist Comments/Instructions:							
Completed by: Name: Maricia Car Approved by: Name: Janticgo Varp P:\fldpub\West\Hansen\Mitigation Monitoring Forms\B	Title: $\underline{P, W, C, L}$ Date: $\underline{1/31/30}$ Title: \underline{FCS} Date: $\underline{1/31/30}$						

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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:

remara Vegotiation 15 Dertorme Soft. Sma USINA nan

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.)

MAD Title: L.W.C.L Date: Completed by: Name: Mauli (11) Title: FCC5 _____ Date: 1/3 Approved by: Name:

Los Angeles County Channel Maintenance Project Reach Name Haines Canyon Channe Mitigation Monitoring Program Reach Number

	- HARACER				-			and the second
Comment								1 0.000 million
Noise	95 DB							
	None			Ţ			·	
Air	Good							
Date	1/31/20							

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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:

ALL CLEARING DONE BY HAND, USED STIHL TWO CYCLE ENGINE TRIMMERS, AND HAND TOOLS

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.)

VEGETATION CLEANING DONE BY HANN

Project start date: 10/8/2019

Project end date: <u>/0/8/201</u>9

Completed by: Name: <i>Rictions</i>	ALMAZA	Title:	PWMW	Date: <u>/º/8/201</u> 9
Approved by: Name: <u>Mauailia</u>	TORRES	Title: _	FCCS	Date: 10/8/2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>3 YARDS</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach #: Reach No.13 Projec	t 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:

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:

KESC1 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:	_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: ГYes

Date: 10/8/2019

Biologist Comments/Instructions:

Completed by: Name: <u>Richano Almanza</u>	Title: _ p w M W	Date: 10/8/2019
Approved by: Name: MAUGLEO TORRES	Title: <u>FCCS</u>	Date: 19/8/2019

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XNo

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:

NO MECHANICAL OSED TOOLS, AU CLEANING WAS DONE BY HAND YOULS RACKING / CLEANING

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:

NONE

Completed by: Name: <u>Richans Almanza</u> Title: <u>PWMW</u> Date: <u>10/8/2019</u> Approved by: Name: <u>MANRILIO TORRES</u> Title: <u>FCCS</u> Date: <u>10/8/2019</u>

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:

VEGETATION REMOVED AND CUT USING SMALL J-CICLEENGINE TRIMMERS AND 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:

VEGETATION CLEMING COM	OlETEN	USING	HAND TOOLS
۲ _۹ ۷			
Project start date: <u>10/8/3019</u>		Project end	date: 10/8/2019
JOSE MUNILLO Completed by: Name: UNder ground (rew	_Title: _	PNCL	Date: /0/8/2019
Approved by: Name: MAVRINO Torres	Title: _	FCCS	Date: 10/8/2019

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Compliance Verification Form

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Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons)	
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)0 ′	
Location/Channel Reach#: Reach No.14 Ma	y Chan. (M.C.O. into Pacoima Cyn.) T.G.: 482-E3	
Permit Requirements: Hand clearing work will be performed to kee	ep 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	

ESC31 Temporary Drains and Swales ESC50 Silt Fence

ESC51 Straw Bale Barriers

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

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:

TRIM AND REMOVE VEGETATION, CUT AND REMOVE DEAD VEGETATION, TRIM TREES (LIGHT TRIMMING) Date: 10/7/20/9 Biologist on site: XYes ⊡ No **Biologist Comments/Instructions:**

 Completed by: Name: UG(REW JOSEM
 Title: PWCL
 Date: 10/8/2019

 Approved by: Name: MAURILIO FORRES
 Title: FCCS
 Date: 20/8/2019

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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:

ALL VEGETATION AND THEE TRIMMINS WAS PERFORMED USING STHILL 2-SICLE ENGINE TRIMMERS AND HAND TOOLS

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.)

VEGETATION AND TREMMING WAS DONE BY USING HAND TOOLS AND 2-CYCLE ENGINE TRIMMERS

Approved by: Name: MAURILIO TORRES Title: FCCS Date: 10/8/2019

Completed by: Name: UG CIEW JOSE MURILO Title: 10/8/2019 Date: 10/8/2019

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:

VEGEMMON HU	ILY CUT AND R	EMOVED BY HAM	0 TOOLS
USING D- CYCL	E ENSINE TRIMA	NERS AND TARPS	S TO REMOVE
TRASH	· · ·		
/			

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:

VEGETATION, 7 MAND TOOL	RASH, BULKY ITEMS	CUT/REMAURO BY USING
Project start date:	9/27/2019	Project end date: 10/7/2019

Completed by: Name: <u>A planse kommin</u>	Title:	Date: 10/7/2019
Approved by: Name: MMMAilio TBADES	Title: $FCCS$	_Date: /0/1/2019

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) —	35
	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:

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: 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:		
CUT AND REMOVE	ED LIVE VEGETATI	ON
CUT AND REMOVED TRASH AND BULKY ITEMS	DUMPPED BY "PE	H" TRANSIENTS
Biologist on site: XYes	Date: 2/24/20	19
Biologist Comments/Instructions: <u>PERFORMED</u> PRE-WORK BASELINE MONITORT	NG KND SAMPLENS A	TUPSTREAM.
PERFORMED PRE-WORK BASELINE MONITORT INTERNAL, AND LOWSTREAM POINTS AT 1	PACOTMA WASH	
Completed by: Name: ALPHONSE ROMATN	Title: <u>plucl</u>	Date:/0/7/2019
Approved by: Name: <u>MM/ pilio To p. RES</u>	Title: <u>FCCS</u>	

 $C:\label{eq:linear} C:\label{eq:linear} C:\l$

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:

ALL VEGETATION WAS COT BY USING 2-CYCLE TRIMMERS AND HAND TODLS, REMOVED TRASH AND BULKY ITEMS FROM WATER

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.)

VEGETATION AND TREMMING	DONE BY	057NS	HAND YOULS
AND 2-CYCLE TRIMMERS,			
LARGE BAGS		•••••	

 Completed by: Name: Alphonse Romain
 Title: P.W.CL
 Date: 10/7/2019

 Approved by: Name: MAURILIO Torres
 Title: F.C.C.S
 Date: (0/7/2019)

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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:

Moved by hedgers. vie Air quality	hand using small tools, weed eaters, and cut and remove invasive plants and vegetation. is good.
Disposition: V/A	Mitigation measure has been implemented. No further action is required. Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
N/A	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revision	ons:
Project start date:	1/28/20 Project end date: 1/28/20
Completed by: Nam Approved by: Name	e: Marricio Canta Title: P.W.C.L Date: 1/28/20 : Jantiago Vargue Title: FCCS Date: 1/28/20

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Compliance 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. 16 V (Channel Inlet)	/erdugo Wash-Las Barras Cyn T.G.: 504-C7	
Permit Requirements: Hand clearing work will be used to keep the	e reach clear of all vegetation.	
Impacts shall not exceed 0.07 acre.		
	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:	
VESC1 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		
Disposition: \checkmark Mitigation measure has been implemented. No further action is required. N/A Mitigation measure is not fully implemented. Further action is required. (Please explain below.) N/A Mitigation measure is not in compliance. Further action is required. (Please explain below.)		
Comments/Revisions:		
Biologist on site: ┌ Yes ✔ No Biologist Comments/Instructions:	Date:	
Completed by: Name: Martico Cantu Approved by: Name: Jantice Vagu P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 16.doc	Title: $P.W.C.L.$ Date: $1/28/10$ Title: $1/28/20$ Title: $1/28/20$	

Compliance Verification Form

Impact Issue: Noise

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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:

Vegetation in and around Soft bottom channel inlet. We remove vegetation using small hand tools	
Disposition: Mitigation measure has been implemented. No further action is required 	
Mitigation measure is not in compliance. Further action is required (Please explain below.)	J.
Comments/Revisions:	
Completed by: Name: Marrico Canty Title: P.W.C.L Date: 1/18/2 Approved by: Name: Jawhing Varger Title: FCCS Date: 1/28/2	0

- Set		MC	a							
Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Verduge Jush - Las Bartas</u> Reach Number <u>16</u>	Comment									
county C gation M <u>Verd</u> er	Noise	AS DB								
Angeles C Mitig ch Name ch Numb	H20	None			,			•	×	onitoring Program.doc
Los / Rea	Air	Good					•			 P:\fldpub\WEST\HANSEN\FORMS\Mitigation Monitoring Program.doc
	Date	1/28/20								P:\fldpub\WEST\HANS;

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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:

Mowed by hedgers. We Air quality	hand using small tools, weed eaters and cut and remove invasive plants and vegetation. is good.
Disposition:	Mitigation measure has been implemented. No further action is required.
NA	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
NA	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revision	ons: M€
Project start date:	1/28/20 Project end date: $1/28/20$
Completed by: Nam Approved by: Name	ne: <u>Mauricio Cantu</u> Title: <u>P.W.C.L</u> Date: <u>1/28/20</u> e: <u>Jonn Mago Vazur</u> Title: <u>FCC S</u> Date: <u>1/28/20</u>

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Compliance Verification Form

Compliance venin									
Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)								
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)								
Location/Channel Reach#: Reach No. 18 Engleh	eard Channel T.G.: 534- F3 To G3								
Permit Requirements: Hand clearing work will only involve dead vegetation wire revetments. All vegetation will be cleared by mar									
Description of Activity/Method of Implementat Due to hydrological conditions in the reach dur following Best Management Practice were deeme	ing the vegetation clearing operations, the								
▼ESC1 Scheduling ΓES	C2 Preservation of Existing Vegetation								
□ ESC21 Dust Control □ □ ES	C22 Temporary Stream Crossing								
□ F ESC31 Temporary Drains and Swales □ F ES	C50 Silt Fence								
□ ESC51 Straw Bale Barriers □ □ ES	C52 Sand Bag Barriers								
Disposition: Mitigation measure has been implemented. No further action is required. N/A Mitigation measure is not fully implemented. Further action is required. (Please explain below.) N/A Mitigation measure is not in compliance. Further action is required. (Please explain below.)									
Comments/Revisions:									
Biologist on site: ┌ Yes ा√ No Biologist Comments/Instructions:	Date:								
Completed by: Name: Mauricie Cantu Approved by: Name: Antrep Unques	Title: <u>P.W.C.L</u> Date: <u>1/28/20</u> Title: <u>FCCS</u> Date: <u>1/28/20</u>								

Compliance Verification Form

Impact Issue: Noise

4

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:

The removal of vegetation is performed by cutting out vegetation in and around soft bottom invert. We remove vegetation using small 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: None
Completed by: Name: Mauricio Contin Title: P.W.C.L Date: 1/28/20 Approved by: Name: Jantizgo Vargues Title: FCC S Date: 1/28/20

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program	Reach Name Englehearch Channel	8	Comment								
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			Date	1/28/20							:\fldpub\WEST\HANSE

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: **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: Date: Approved by: Name: Title: Date: H

, *****

Compliance Verification Form

Impact Issue: Hydrology and Water Qualit	ty Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No.19 Pi	ckens 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.
	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	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
////Mitigation measure is r (Please explain below.)	not in compliance. Further action is required.
Biologist on site: 🗆 Yes 🏼 P No	Date:
Biologist Comments/Instructions:	
Completed by: Name: All Mars	

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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:

Comments/Revisions

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

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.)

Completed by: Name: Att Mabs

Title:/ Date: Title: Date: //23/

	Initial				
Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Manuel Manuel Control Manuel Control C	Noise Comment	Dalbert			
os Angeles Cou Mitigati Reach Name / Reach Number	H20 UONE	UOND &			المالية Program.doc
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	Date 1/3/m	el sel			[[dpub/WEST/HANSE

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

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

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:

Moved by h we cut and is good.	removed invosive plants and vegetation. Air quality
Disposition:	Mitigation measure has been implemented. No further action is required.
NA	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
N/A	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisio	ons:
None	
	· · · · · · · · · · · · · · · · · · ·
Project start date:	$\frac{1/27/20}{Project end date: \frac{1/27/20}{20}}$
Completed by: Nam	Dampino Canta Title: P.W.C.L Date: 1/27/20 Damping Varger Title: ECC 5 Date: 1/27/20
Approved by: Nam∈	Jampiyo lague Title: <u>FCC S</u> Date: 1/27/20

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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 Webbe (strm @ private bridg	

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:

n

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

N/A

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/Re	visions:
X	one

Biologist on site: ┌ Yes
√No

Date: _____

Biologist Comments/Instructions:

Completed by: Name:	Jauricio C.
Approved by: Name	antigo Varger
P:\fldpub\West\Hansen\Mitigation Mo	onitoring Forms\Reach 20.doc

Title: P.W.C.L	Date: 1/27/20
Title: <u>KCS</u>	Date: 1/27/20

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:

The	removal	of	vegetation of and the structure	ìs.	Perfor	med	by cuti	1 Fina
out 1	vegetation	intront	of and b	ehind	Crib	structu	res also	Ĵ
in s	aces of th	e actual	Structure	. We	remove	these	Using	
Small	hand	tools.	· · ·					brandonia

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.)

None.

Completed by: Name: Approved by: Name: (

Title: P.W.C.L Date: 1/27/2Title: FCCS Date: 1/27/2

	3 5	W							
Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Webber Channel</u> Reach Number 20	Comment								
ounty Ch sation Mc er <u>20</u>	Noise	Soll							
Angeles C Mitig Ich Name Ich Numb	王20	None					-		ionitoring Program.doc
Los 1 Rea Rea	Aînº	Cood							$\ref{eq: constraint} \label{eq: constraint} \label{constraint} $
	Date	1/27/20							fldpub/WESTVHANSEI

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 21 Webber Channel T.G.: 5 (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 Ac Mowed by heagers. We Air quality	tivity/Method of Implementation: hand using Small tools, weed eaters, and cut and remove invasive plants and Vegetation. is good.
Disposition: V N/A N/A	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/Revision	ons:
Project start date:	$\frac{1/27/20}{\text{Project end date: }\frac{1/27/20}{1/27/20}$
Approved by: Name	e: Mauricio Canta Title: P.W.C.L. Date: 1/27/20 e: Janpigo Chara Title: FCCS Date: 1/27/20

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality		ity Trash/Debris Re	Trash/Debris Removed (Tons)		
Mitigation Measure	#: 2	Exotic Veg. Ren	noved (Sq. Ft.)		
Location/Channel R	Reach#: Reach No. 21 V (Main channel	Vebber Channel inlet D/S Bridge)	T.G.: 505- J7		
Permit Requireme Hand clearing work w		he reach clear of all veget	ation.		
Impacts shall not exc	eed 0.03 acre.				
Due to hydrologica following Best Mana	agement Practice were	ch during the vegetatio	n clearing operations, the e and were implemented:		
ESC1 Schedulin	g	□ ESC2 Preservation	of Existing Vegetation		
□ ESC21 Dust Cor	ntrol	□ ESC22 Temporary Stream Crossing			
□ ESC31 Tempora	ary Drains and Swales	厂 ESC50 Silt Fence			
□ ESC51 Straw Ba	ale Barriers	□ ESC52 Sand Bag Barriers			
Disposition: $\sqrt{\frac{N/A}{A}}$	Mitigation measure is (Please explain below.	not fully implemented.) not in compliance. F	o further action is required. Further action is required. Further action is required.		
Comments/Revisio	ons:				
Biologist on site: Biologist Commer		Date:			

Completed by: Name:	Mauricio	Cantu
Approved by: Name:		Vocior
P:\fldpub\West\Hansen\Mitigation M	0	X

Title: $P, W. C, L$	_ Date: 1/27/20
Title: <u>FLCS</u>	Date:/27/20

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:

The removal	of vegetation is performed by cutting
out vegetation	A in and around Soff bettom invert.
We remove	These using small hand tools.
Disposition: <u>N/A</u> N/A	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	
Completed by: Nam	e: Marricio Caritu Title: P.W.C.L Date: 1/27/20
Approved by: Name	: Jan 1/27/20 Title: Fac 3 Date//27/20

	A A	Initial	M						
Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Webber Channel		Comment							
County Cl gation Ma	er 21	Noise	95 DB						
Mittigeles (Mittig	Keach Number	EI20	None					•	
	K C3	Air	Good						
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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

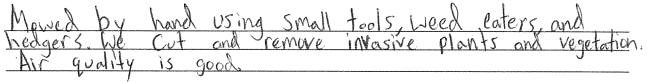
Location/Channel Reach #: Reach No. 22 Halls Canyon

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:



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.)

None		
Project start date: $\frac{1/24/20}{1}$	Project end date	1/27/20
Completed by: Name: Maricio Canta T Approved by: Name: Jan hogo Chyce	Гitle: <u>Р. Ш. С. L</u> с	Date: $\frac{1/27/2}{0}$
Approved by: Name: Jan hogo (hyve)	Title: <u>FCCS</u>	Date://27/70

Compliance Verification Form

Impact Issue: Hydro	ology and Water Quali	ity Trash/Debris	Removed (Tons)		
Mitigation Measure	#: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel R	each#: Reach No. 22 F	alls Canyon	T.G.: 534- J1		
Permit Requireme Manual removal of a performed.	nts: all vegetation adjacent t	to or growing out of th	e crib structures will be		
Due to hydrologica		ch during the vegeta	tion clearing operations, the ble and were implemented:		
ESC1 Schedulin	g	ESC2 Preservation of Existing Vegetation			
ESC21 Dust Cor	ntrol	ESC22 Temporary Stream Crossing			
ESC31 Tempora	ary Drains and Swales	ESC50 Silt Fence			
ESC51 Straw Ba	ale Barriers	ESC52 Sand Bag Barriers			
Disposition: $\sqrt{\frac{N/A}{N/A}}$	Mitigation measure is (Please explain below.	not fully implemented) not in compliance.	No further action is required. d. Further action is required. Further action is required.		
Comments/Revision	ons:				

Biologist on site: 🗆 Yes

Date:_____

Biologist Comments/Instructions:

Completed by: Name:	Marticio	Cantu	Title: $\underline{P}, \underline{W}, \underline{C}, \underline{L}$	
Approved by: Name:			Title: <u>HCS</u>	_Date: //27/20
		The second secon	/ -	

No

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Compliance Verification Form

Impact Issue: Noise

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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:

The <u>removal</u> <u>vegetation</u> , bot <u>well</u> as on <u>vegetation</u>	of vegetation is performed by cutting out h in tront of and behind crib structure, as the actual structure itself. We remove using small hand tools.
Disposition:	Mitigation measure has been implemented. No further action is required.
N/A	Mitigation measure is not fully implemented. Further action is required. (Please explain below.)
N/A	Mitigation measure is not in compliance. Further action is required. (Please explain below.)
Comments/Revisio	ns:
Completed by: Nam Approved by: Name	

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 conducted. Minimal amount of dust was generated. Water trucks were used for dust suppression when needed.

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: 9/16/19

Project End Date: <u>11/18/19</u>

	Completed by:	Jac	Approved by:
Name:	Drom M Jon	Name:	Kon Lacayo
Title:	Construction Superintendent	Title:	AAE
Date:	7/01/2020	Date:	7/28/2020

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris	119.10	
Removed		

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 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: 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: Ann Mann Title: Construction Superintendent Date: 7/01/2020

NAC.		Approved by:
		O
	Name:	KM Lacay.
	Title:	AAE
	Date:	7/28/2020

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:

✓	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)

	Completed by:	TOC	Approved by:
Name:	Xim A Sun	Name:	Km Lacay.
Title:	Construction Supérintendent	Title:	AAE
Date:	7/01/2020	Date:	7/28/2020

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

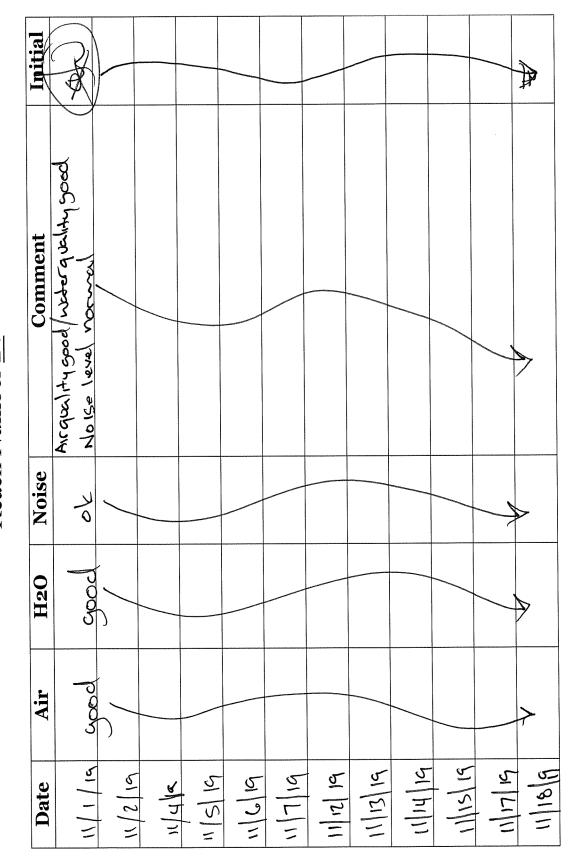
Initial	H	EX.	Z	3	R	X	R	X	A	B	K	K K
Comment	Air quelity was good/wheter quality after testines was good/Noise was minimal.		~ ~ ~ / /)				¢			4
Noise	ok	ok	ok	ok	3	06	0	2	0	ماد	ملا	
H20	وروط	(Jood)	Coort Loort	0000	0000	amp	Cood	Creach	Spool	9000g	and	boog
Air	and	2000	Control of		0	2000	6000	5	9000y	(1000)	0000	9000
Date	9/16/19	9/17/19	9/18/19	9/19/19	9/20/19	9/21/19	0/23/19	9/24/10	9 2319	9/26/19	9 27 19	9/22/19

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Compton Creek Reach Number <u>24</u> Initial AI randity uncessace / water quality good Comment Notse Lies minime 11 5 5 6 6 5 d, ? 1 \mathcal{I} 6 Noise 50 20 20 ل 0 0K 6 لا۔ 0 لا 2 کلا ک $\frac{1}{2}$ Good 2000 H20 Coool Gard 1 Doct pad Lact 600 Carol Good (Jool) Good ypod Clodel 9000 500 Air Gard Spool لمحمل 5000 [JOSO] Cool Soci 0819 S 93019 10/2/19 10/5/19/ 010119 10/15/19 101619 0419 1/1/19 107/19 10/3/19 Date

Uos Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Compton Creek Reach Number 24

Initial	Z	X	R	C S S	X	R	X	Z	Z	E.		R R
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Noise		2	0/2	05	لا 0	() ()	0	0	OK	2		210
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Air		(Joine)		Dood Dood			- Comp			7		ر رومور ار را
Date	10/17/19	1018 19	10/15/19	1021115	10/22/19	102319	10/24/19	117419	10/29/19	10/29/19	10130119	10/31/19

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Compton Creek Reach Number 24



Compliance Verification Form

Location/Channel Reach	Reach No. 25 (Los Angeles River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Los Angeles River - Willow Street to Pacific Coast Highway, Using mechanical equipment, all exotic/invasive vegetation will be removed throughout this reach. Weeds and grasses may be controlled by mowing or hand labor. The reach will be cleared annually to the same baseline condition as that of November 1997.

Description of Activity/Method of Implementation:

Vegetation was mowed and all exotic/invasive vegetation were removed by mechanical and hand tools. Minimal dust was generated. Water trucks were used for dust suppression when needed.

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: <u>10/21/19</u>

Project End Date: 12/17/19

	Completed by:	J6C	Approved by:
Name:	I mm M mm	Name:	Kon Lacay.
Title:	Construction Superintendent	Title:	AAE
Date:	7/01/2020	Date:	7/28/2020

Compliance Verification Form

Location/Channel Reach	Reach No. 25 (Los Angeles River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris	37.72
Removed	

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 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: 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:	Ann Som
Title:	Construction Superintendent
Date:	7/01/2020

Approved by: 16C/ Name: Title: Date:

Compliance Verification Form

Location/Channel Reach	Reach No. 25 (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:

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)

Completed by:					
Name:	Organ A Som				
Title:	Construction Superintendent				
Date:	7/01/2020				

5	5	Approved by:
	Name:	Kon Lacay.
	Title:	AAE
	Date:	7/28/2020

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Los Angeles County Channel Maintenance Project Reach Name Los Angeles River 2079-20 Mitigation Monitoring Program Reach Number <u>25</u>

[mitia] \bigcirc Air and wheter quality are good, Noise levels are minimal. Tool and equipmentare Rueled A469 F6057919 Comment と しい 5 8 2 2 1 5 11 2 2 m/mma/ Noise 7 good H20 Air spool Willow > PCH 10/12/01 11/11/12 101/02/01 10/24/19 10/20/19 19/25/19/ 1/2/20/19/01 11/2/19 10/22/01 10/28/19 10/22/19 51/12/01 Date

10/21/19-11/4

Los Angeles County Channel Maintenance Project Reach Name Los Angeles River 2019-20 Mitigation Monitoring Program Reach Number <u>25</u>

[nitia] F6057919 A488 MINIMAL Norse is Minimal Comment Noise H20 Good Good Air Willow > PCH 11/4/10 Date

L1/21 - 6/21

Los Angeles County Channel Maintenance Project

Initial A488 Airand water quality are good F6057919 Comment Reach Name Los Angeles River 2019-20 Mitigation Monitoring Program Noise minual ~ 2 Reach Number 25 min Ima Noise H20 Cood Good Air Willow > PCH 12/16/19 12/17/19 12/9/19 12/10/15 12/11/21 12/12/19 Date

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: 09/13/19

Project End Date: 09/24/19

	Completed by:					
Name:	Mike Stephenson					
Title:	le: Construction Superintendent					
Date:	6-23-20					

76	b.C	Apprøved by:
	Name:	Km Lacay.
	Title:	AAE
	Date:	7/28/2020

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris	43.45	
Removed		

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.						
There	2 was no flowing 1	wate	r three	ugh the	Reach	
				5	s moones are commented and compare the Architecture of the	
	Completed by:	ya		App	roved by:	
Nomo:	Mike Stephenson		Name:	Ra	Lacay.	
Name:	winke Stephenson /		vame.	1.00	unay.	
Title:	Construction Superintendent		Title:		AAE'	
Date:	6-23-20		Date:	7	128/2020	
					,	

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.
	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)

	Completed by: /	, KC	Approved by:
Name:	Mike Stephenson	Name:	Kon Lacay.
Title:	Construction Superintendent	Title:	AAE
Date:	6-23-20	Date:	7/28/2020

Los Angeles County Channel Maintenance Project 2019 - 20 Mitigation Monitoring Program Reach Name <u>Project 74</u> Reach Number <u>26</u>

Initial	NI	Y	M	M	Me	M	MC	MC	N	A/G	
Comment	Medorate Prain cutting variation	Hedarde Centinue cutting vagetation	Moderate Continues cutting vegetation	Moderate Cartinue cutting vegetation	Mudgratu Contine cutting Jeggtestion	" Curting cotting Vergelation		١ (11	tone with Project 74	
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H20	Good	Good	Loos	Seed	11	7	11	11	1 (Sood	
Air	Cood	7.14.19 Moderate	Good	9-17-19 Mederate	Cocod	Scod	Cood	Good	Cood	254	
Date	9-13-14, Cood	9-14-19	9-16-14 Good	151-1-6	2-18-14 5	9-19-19	9-02.6	9.21-19	9-28-14 Cood	9-24-19	

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:

\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: 09/16/19
 Project End Date: 12/05/19

 Completed by:
 Approved by:

 Name:
 Image: Imag

Compliance Verification Form

Location/Channel Reach	Reach No. 27 (Wilmington Drain)	
Impact Issue:	Hydrology and Water Quality	
Mitigation Measure No:	2	
Tons Trash/Debris Removed	60.00	

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:

	0
Name:	Som 1 Jan
Title:	Construction Superintendent
Date:	7/01/2020

Approved by: 1QC Name: Title: Date:

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:

\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)

	Completed by;	SOC	Approved by:
Name:	Ann Arang	Name:	Kon Lacay.
Title:	Construction Superintendent	Title:	AAE
Date:	7/01/2020	Date:	7/28/2020

Los Angeles County Channel Maintenance Project Reach Name Wilmington Drain 2019-20 Mitigation Monitoring Program Reach Number <u>27</u> Initial SC SC S S S N 3 X S S 5 S S Rubber track Skip steep, 10 yard Rump Hruck, 5 weed eaters, 3 Headgers, chainson Ĭ ~ > 2 1 -----1 > 1 \geq 11 Comment 7 0 7 7 7 ----7 2 4 7 Medium Medium MEdium Noise Medium Medium Medium Medium Nedium Medium Medium Nedium Medium H20 N/A 女 2 N/A N/A N/A A/N A/N N/A N/A N/A A/N N/A G00D Air 600D Goob 9/24 GOOD 2/23 Good 9000 0000 6000 GOOD 0000 8000 Goers 07/20 9/21 9/27 9/30 c1/19 9/26 97/6 Date 91/25 91/b L1/10

Los Angeles County Channel Maintenance Project Reach Name Wilmington Drain 20/9-20 Mitigation Monitoring Program Reach Number <u>27</u> Initial A Ć A.C. A C. A ,C Ċ Þ 4, C. A.C. A,C. A.C. 7 4 A-C ک بر CHAINSAW, HEDRETVINNERS, WEEDWACKED Skidsteer nower animulexcavator 1, ` () 11 , ر 11 1 11) / ~ Comment 1 // 1 '> , '/ ____ -/ 1 1, Noise MED NEO Sign NEV MED MED NBN NED NEV MEN Mey MED H20 J/J V/A NA N/A NA N/D 4 7 7 \mathbb{N}/\mathbb{A} N/A N/A N/A ひ/タ Good Good (200 L) GOOD 6000 COOD Air GUOD COOR G00 1 900G G00D 5000 Date 10/15 81/01 10/4 0/10 10/16 6/01 3 (1/0) 10/8 11/01 10/3 10/1 10/

Los Angeles County Channel Maintenance Project Reach Name Wilmington Drain 20/9-20 Mitigation Monitoring Program Reach Number 27 Initial 20 SC Š S Ň 3 27 S 3 3 3 K > 2 -----ر / ~ 2 ~ 5 > ____ Rubber truck Skip Steers, 10 yours annotruck, 5 weep eater, 3 Hedgers, Comment 1 1 ____ 5 1 --1 1 Noise NED MED MED NED MED NED NED MED MED Med MED Neo H20 K I N をし NWA NA 5012 生 2 ろ (や とぼ 412 かい オン NIA 900D G 00 5 GeoD Air 0005 0000 6005 GOOD 5000 6.000 6000 GOOD Good 10/28 92/01 10/22 10 7.1 01 10/25 10/23 10/24 Date 10/19 12/01 15/01 11/2 11/1

Los Angeles County Channel Maintenance Project Reach Name Wilmington Drain 2019-20 Mitigation Monitoring Program Reach Number <u>27</u> Initial 3 35 22 Y 2 R 2 Rubber track Skid steer, 10 Yard Rund truck, 5 weers eaters, 3 Hedgers, chain ~ 1 2 1 \geq \geq Comment 5 7 -5 --Noise Med MeD Meo MED Mer MeD MeD H20 N/Ŋ N (A N (B <u>খ</u> 2 4/2 を え ₩/ N Air. 5000 11/12 Green 11/16 GOON 600D GOUD 6000 1/23 GOOD ut /13 Date 11/3 11/6 11 /4

Los Angeles County Channel Maintenance Project Reach Name Wilmington Drain 2019-20 Mitigation Monitoring Program Reach Number <u>27</u> Initial ¥.C. Ý.Ć Ą.C. ز لا A-C Å Ĉ ý Ý CHAINSAW, HENGTWINNERS, WEEDWARKED / / ~ `` 11 11 11 skidsterre newere, minni Excavator Comment ر 1 4 5 1 1 Noise 202 VED NEN MED NED Ner NEN H_{20} N/A N/A N/A N/A N/A N/A N/A Air (100 S 6000 G00 D 6000 Goop (100S 6000 11/22 Date 11/15 11/5-12/1111-114 11/18 12

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Los Angeles County Channel Maintenance Project	Nitigation Monitoring Program			Comment							
ounty Ch	ation Mo He IIs	IC IC	();()	DSTON	\$203						
Angeles C	Reach Name H. N. Canvar	ch Numb			None						
T OS T	Rea	R A G	A in Ho		Good		 				
			Date		1/24/20						

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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:

all work was started after 8:00 m so not to disturb our nei Degetation was removed with Hand tools and Power tools # are fitted with noise suppressors.

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: (Gu) for Date: 1-8-2020 Title: Fces Date:

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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 (Ton	s)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. F	t.)
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:

FESC1 Scheduling	☐ ESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	└─ ESC22 Temporary Stream Crossing
☐ ESC31 Temporary Drains and Swales	└ ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

Ory Creek Bed

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: 12-20-19

Biologist Comments/Instructions:

Completed by: Name	Pay Lemos /	
Approved by: Name:	Baltozar Mo	PINS

Title: $\underline{G} \in \underline{W} \xrightarrow{f} d \in \underline{G} = \underline{W} \xrightarrow{f} d \in \underline{W}$ Date: $\underline{W} = \underline{W} \xrightarrow{f} \underline{W} \xrightarrow{g} \underline{W}$

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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. 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 as = Bananana trimmers, all	in was removed with a Saws, Prunners, Pi I trucks where hand	th Hand and F tch Forks, Weed Ed loaded	buer tools such ters and Hedge
Disposition:	Mitigation measure has b Mitigation measure is no (Please explain below.)		further action is required. Further action is required.
\checkmark	Mitigation measure is n (Please explain below.)	ot in compliance. Fu	rther action is required.
Comments/Revisio	ons:		
Project start date:	12-20-19	Project end d	ate: 1-8-2020
Completed by: Nam Approved by: Name	e: Any Xempsh Baltazar Morénce	Title: Crawbrader Title: FCCS	Date: $1 - 8 - 2020$ Date: $1/9/20$
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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name $\frac{Trivn fo}{266} C_{REE} RD 230D$ Reach Number $\neq 28$

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Comment									
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071	7	7	7		2				
Aù.	2	7	7	7	2				
Date	13/30/19	1/3/20	1/3/30	1/1/30	V/3/30				

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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:

MOST VEGETATION REMOVED by HAND WITH LITTLE USE OF POWER TOOS THAT ARE FITTED WITH ADDROVED EXHAUST AND AIR FILTERS, ALL VEGETATIAN 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 CREEK - NO BOOM NEE	DED
Project start date: 12/13/19	Project end date: 12/18/19
Completed by: Name: <u>Ryan</u> Muzillo Approved by: Name: <u>BaHazar</u> Morzno	
Approved by: Name: BaHazar Morzno	Title: FCCS Date: 12/17/19

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:

ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
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 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 writer IN CREEK, NO BOOM	NEEDEN
Biologist on site: TYes TNo	Date: 12/13/19
Biologist Comments/Instructions:	
Completed by: Name: RIAN MURILO	Title: CREW (EADER_ Date: 12/13/19
Approved by: Name: Balfazar Morand	Title: <u>CCCS</u> Date: <u>12/13/19</u> Title: <u>FCCS</u> Date: <u>12/17/1</u> 4

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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 POWER TOO'S USED SUCH AS WEED EATERS AND HEDGE TRIMMERS ARE FITTED 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:

DRY CREEK, NO BOOM NECESSARY Completed by: Name: RIAN MURINO Title: CREW GADER Date: 12/13/19 Approved by: Name: Baltazar Motena Title: Fees Date: 12/17/19

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Las Virbenes Creek Reach Number # 29

R.M. NO BOOM NEEDED, DAY CREEK R.M. Initial Riv NN Completed Saft Bottom Comment Noise Lanna H20 Alle 12/10/19 12/14/19 12/17/19 Date 12/16/19

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 32 Stokes Canyon 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 POWER TOOLS SUCH AS, POLESAWS, WEED EATERS AND HEDGE TRIMMERS 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.)

T.G.: 588- J4 TO H4

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

Comments/Revisions:

THERE IS NO NEED FOR BOOM DUE TO DRY SOFT BOTTOM.

9/27/19 Project end date: 10/10/19 Project start date: Completed by: Name: Ryan Mazillo Title: Quew Leader Date: 10/10/19 Approved by: Name: Baltazar Marens Title: FCES Date: 10/11/19

Compliance Verification Form

Impact Issue: Hydrology an	nd Water Quality	Trash/Debris Re	moved (Tons)
Mitigation Measure #: 2		Exotic Veg. Ren	noved (Sq. Ft.)
Location/Channel Reach#: F	Reach No. 32 Stokes Channel. PD T043	Canyon	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:

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
☐ ESC31 Temporary Drains and Swales	FESC50 Silt Fence
F 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.)

SOFT BOTTOM 15 DRY.	
Biologist on site: TYes TNO	Date:
Biologist Comments/Instructions:	
Completed by: Name: Ryan Muello Approved by: Name: Balazar Morena	Title: <u>CREW LEADER</u> Date: <u>9/27/19</u> Title: <u>FCCS</u> Date: <u>16/W/19</u>

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

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 POWER TOOLS ARE FITTED WITH MUCHERS AND WORK DOESN'T START TILL AFTER SLOOPEN SO OUR 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:

Completed by: Name: Ryan Mury (Lo Title: CREW LEADER Date: 9/ Approved by: Name: Baltuzar Morenu Title: FCCS Date: 10

	Reach Numbe	Keach Number	An and a second second	A 32 HANNEL	
Date	A. T. S.	071	Noise	Comment	spined s parit ponet ponet becone
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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 DOWER TOOLS WERE USED TO A MINIMUM AND FITTED WITH
ALL power tools were used to A MINIMUM AND FITTED with Approved EXHAUST POWER TOOLS USED (CHAINSAW; HEDGERS AND WEED FATERS) TO CLEAR ALL BRUSHALONG WITH PITCHFORKS, RAKES,
WEED FATERS) TO CLEAR ALL BRUSHALONG WITH DITCH FORKS, RAKES
PRUNNERS AND TARPS.

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:

		59422222 - San and an
Project start date:	Project end date	e: 1/25/10
Completed by: Name: <u>Ryan Murillo</u> Approved by: Name: <u>Balazar Motenc</u>	Title: CREW LEADER I	Date: 1/11/20
Approved by: Name: Baltazar Motano	Title: FCCS	Date: 1/14/20

Compliance Verification Form

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

F ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
ESC21 Dust Control	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	FESC50 Silt Fence
ESC51 Straw Bale Barriers	FESC52 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 explain below.)

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

Comments/Revisions: HAY BOOM PLACED U/S AND	D/S of Job SITE.
Biologist on site: I⊄Yes □ No	Date: 1/11/20
Biologist Comments/Instructions:	O PRUNING TREES About 7'
Completed by: Name: RYAN MUEIL	D PRUNING TREES Above 7'. Title: CREW LEADER Date: 1/11/20
Approved by: Name: Daltazar NOTEM	Title: FCC5 Date: 1/14/20
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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:

POWER TOOLS SUCH AS WEEDFATERS, HEDGERS AND CHAINSAMUS THAT ARE FITTED WITH APPROVED MUFFLERS, WERE USED TO A
THAT ARE FITTED WITH APPROVED MUFFLERS, WERE USED TO A
MINIMUM.

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 STARTED AFTER 8:00 M SO NOT TO DISTURD NEIGHBORS -

Completed by: Name: KYAN MURILO Approved by: Name:

Title: <u>REW EADER</u> Date: <u>i</u> Title: <u>FCCS</u> Date: <u>1</u>

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Los Angeles County Channel Maintenance Project Reach Name MEDEA CREEK - PD 1378 U2 Mitigation Monitoring Program Reach Number #33

	WC	Z	P.M.	Ň	Z.W.	N, G	ZW	-	- - -		-
Comment	BMP'S PLACED AT END OF WORL AREA AND AT FIRST DROP						COMPLETED SAT BOTTON MANNE R. M				
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Date	111/20	1/11/20	1/16/20	1/21/20	1/22/20	123/20	1/25/20		 The second		

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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:

Priver tools used = weed eaters, pole sow an 1 cimmers ith approved tation was remared by Hand GNC) FOWE

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: 12-10-19

Project end date: 12-11-19

Lemos JR Title: Crewheader Date: 12-11-19 Completed by: Name! How Title: Res Approved by: Name: Date:

Compliance Verification Form

Trash/Debris Removed (Tons) -----

Impact Issue: Hydrology and Water Quality

Mitigation Measure #: 2	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 re	each 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 Imple Due to hydrological conditions in the rea following Best Management Practice were	ementation: ach during the vegetation clearing operations, th e deemed to be applicable and were implemented:	е							
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	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 Boom at End of C	Channel Custlet								
Biologist on site: TYes TNo	Date: 12-10-19								
Biologist Comments/Instructions:									

Completed by: Name: Roy Lemos Je Approved by: Name: Baltazar Motenul

Title: Gen header	Date:	12-11-19
Title: FCC5	Date:	12/12/19

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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:

power tools used on job site are fitted with FORKS

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: (ven) cade(Date: 12-11-19 Title: FCCS Date:

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name Medeo Creek Inlet Reach Number #35

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Date	13/10/19	11/14		······································					

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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:

MOST CLEARING DONE by HAND. MINIMAL USE OF POWER TOOLS SUCH AS WEED EATER, HEDGE TRIMMED AND CHAIN SAW FILAT ALE FIMED 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:

NO BOOM NECESSARY, NO	WATER.
Project start date: 12/6/19	Project end date: 12/7/19
Completed by: Name: <u>Ryan Mueillo</u> Approved by: Name: <u>Baltqzar Morenv</u>	Title: <u>PCCS</u> Date: <u>12/7/19</u> Title: <u>FCCS</u> Date: <u>12/10/19</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. 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
ESC21 Dust Control	ESC22 Temporary Stream Crossing
FESC31 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:

NO BOOM NECESS	ARY, NO W	ATER,	
Biologist on site: 🗆 Yes	No	Date:	
Biologist Comments/Instru	ctions:		

١Ń

Completed by: Name:	RIAN MURILO	
Approved by: Name: _	Baltazar Moreno	

Title:	CREW LEADER	Date:	12/7/19
Title:	Feel	Date:	12/10/19

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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:

MOST CLEARING DONE by HAND. MINIMAL USE OF PRIER TOOLS SUCH AS WEED CATER, HEDGE TRIMMER AND CHAINSON THAT ARE FITTED WHH 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:

BOOM NECESSARY, NO WATER, Completed by: Name: RIAN MURILLO Title: CHEWLEADER Date: 12/7 Approved by: Name: Ratazar Moteno Title: Feeh Date: 12/10

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Cthesebool Gun Channel Inlet</u> Reach Number <u>I 36</u>

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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:

approved Ext	cols on Job site coust's on them	are fitted with	th
Disposition:	Mitigation measure has		o further action is required.
			Further action is required.
	Mitigation measure is (Please explain below.)	not in compliance. I	Further action is required.
Comments/Revisi	ons:		
Project start date:	12-12-19	Project end	date: 12-12-19
Completed by: Nan Approved by: Name	e: Baltazar Motor	Title: <u>Crewbeader</u> 10 Title: FCCS	Date: 12-12-19

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	FESC22 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: Hay Boom in place at End of Soft Bottom atlet Date: 12-12-19 Biologist on site: TYes TNO. **Biologist Comments/Instructions:** Title: Crew Leader Date: 19-12-1 Completed by: Name Yau hemos Title: FCCS Date: 12 Approved by: Name:

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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	er to	th approved multier	nd Hedge Trimmers s.
Disposition:	\checkmark		implemented. No further action is required. ly implemented. Further action is required.
	biblichianine vannammen	Mitigation measure is not in (Please explain below.)	n compliance. Further action is required.
Comments/	Revisi	ons:	
Completed b	oy: Nan :: Name	ne: Pay Lemos Jr Baltazar Mozanci	Title: $Crew Feeder$ Date: 12-12-19 Title: FCC5 Date: 12/13/14

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name $\frac{medec}{medec} \frac{Creek}{Creek} \frac{Outlet}{et}$ Reach Number $\frac{\pm 37}{2}$

Littel	K.L.						
Comment	Removed boom on 12-13-19						
Noise	7						
H20	2						
ÂÎR	2		(Marking on Andrease Perturbation Statements of Angel			· · · · · · · · · · · · · · · · · · ·	
Date	13/13/19		- The Transmission (1997) - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1				

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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:

ALL PAUER TON	IS SUCH AS, CHAIN SAW	S, WEED EATERS, TRIMMERS, ETC.
ARE FITTED WI	HH APPROVED EXHAUST.	S, WEED EATERS, TRIMMERS, ETC.
Disposition:	_ Mitigation measure has be	een implemented. No further action is required
	_ Mitigation measure is not (Please explain below.)	fully implemented. Further action is require
	_ Mitigation measure is not (Please explain below.)	t in compliance. Further action is require
Comments/Revis	sions:	
Project start date	: 10/12/19	Project end date: 10/16/19
Completed by: Na	ime: Rypr Murillo	Title: <u>CREW LEADER</u> Date: <u>10/16/19</u> Title: <u>FCCS</u> Date: <u>10/17/09</u>
Approved by: Nam	ne: Baltazar Notenu	Title: Fees Date: 10/17/19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
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Mitigation Measure #: 2

Exotic Veg. Removed (Sg. Ft.)

1.9

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
F ESC21 Dust Control	☐ ESC22 Temporary Stream Crossing
FESC31 Temporary Drains and Swales	FESC50 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:			
HAY BOOM IN PLACE	5 DOWN STR	EAM. WATER TENDE	RON
SITE TO WASH OFF	= Tools AT i	EAM. WATER TENDER END OF DAY.	10010000000011
Biologist on site: Tryes		Date: 10/12/19	
Biologist Comments/Instru ADD EKTRA HAY Boc	ctions: om AT 14:11,	F WAY OF Soft BOTTO	<u>m</u>
Completed by: Name: <u>Ryan</u> Approved by: Name: But	Murillo	Title: CREW LEADER	
Approved by: Name:	T-Moens	Title: FCC5	Date: 10/17

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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 DOWER T	COLS FITTED WITH APP HAND LOADED.	DROVED MUFFLERS AND All
Disposition:	Mitigation measure has been	implemented. No further action is required.
	Mitigation measure is not ful (Please explain below.)	ly implemented. Further action is required.
	Mitigation measure is not in (Please explain below.)	n compliance. Further action is required.
Comments/Revisi	ons:	

Completed by: Nar Approved by: Nam	ne: RYAN MURIllo e: Baltazar Morensi	Title: <u>(IZEW LEMDER</u> Date: <u>10/12/19</u> Title: <u>FCES</u> Date: <u>10/12/19</u>

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 efforts were undertaken

- 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: 10-1-2019

Completed by: Name: <u>Nik Reppuhn</u> Approved by: Name: Project end date: 10-1-2019

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: <u>3-12-2020</u>

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)	21
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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:	Nik Reppuhn
	64
Approved by: Name: _	645

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

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 were undertaken

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:

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

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: 09/30/2019

Project end date: 12/2/2019

Completed by: Name:		: Name: _	Nik Reppuhn	
			6-1	

Approved by: Name: _____

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

T.G.: 597-H5

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, however 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>

d I

Approved by: Name:

Title: Assoc. Civil Engr. Date: 3-12-2020

T.G.: 597-H5

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 281.75
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 130
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

Title:	Assoc.	Civil Engr.	Date:	<u>3-12-2020</u>

Approved by: Name: ______ Z____ Title: Principal Engr___ Date: 3-12-2020

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 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: 11/25/2019

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

Approved by: Name:

Project end date: 12/16/2019

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

T.G.: 637-F4

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>109.63</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 80

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: <u>Nik Reppuhn</u> Title: <u>As</u>

Approved by: Name:

Title: Assoc. Civil Engr. Date: 3-12-2020

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 efforts were undertaken, however 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: _____

Title: Assoc. Civil Engr. Date: 3-12-2020

T.G.: 637-F4

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 efforts was undertaken. 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: 09/27/2019

Project end date: 10/27/2019

Completed by: Name: _	Nik Reppuhn
,	\bigcirc

Approved by: Name:

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: <u>3-12-2020</u>

T.G.: 637-H2

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 efforts were undertaken, however 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:

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

T.G.: 637-H2

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) _9	0
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)_4	.0
Location/Channel Reach#: Reach No. 41 Walnu	t 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. 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:
--------------------	------	-------	-------

Biologist Comments/Instructions:

Completed by: Name:	Nik Reppuhn
	h) s
Approved by: Name: _	(9)

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: <u>3-12-2020</u>

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 efforts were undertaken

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>1-7-2020</u>

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

Approved by: Name:

Project end date: 1-15-2020

Title: Assoc. Civil Engr. Date: 3-12-2020

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)	18	
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	12	
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. Straw Wattle was placed across the downstream portion of the channel to contain all flows.

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: ______

Title: Assoc. Civil Engr. Date: 3-12-2020

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 efforts were undertaken, however 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: ______

Title: Assoc. Civil Engr. Date: 3-12-2020

Los Angeles County Channel Maintenance Project Reach Name LINDERD CANYON CHANNEL OUTLET Mitigation Monitoring Program Reach Number # 38

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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	218.08	
Removed		

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:

Completed by:	JAC	Approved by:
Name: MAAME	Name:	Km Lacay.
Title: Marner Supt	Title:	AAE
Date: 06/24/2000	Date:	7/28/2020

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
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:

\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: 09/09/19

Project End Date: 11/21/19

	1 1
	Completed by:
Name:	SAATAN 10
Title:	Claustanim Supt
Date:	16/74/2020

Spe	Approved by:
Name:	Kon Lacay.
Title:	AAE
Date:	7/28/2020

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:

\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:

	n _ 1
	Completed by: /-
Name:	20/MD/ME
Title:	Construction Supt
Date:	26/24/2020

JOC	Approved by:
Name:	Kon Lalay.
Title:	AAE
Date:	7/28/2020

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name San Gabriel River Whittier Narrows Reach Number <u>43</u>

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name San Gabriel River Whittier Narrows Reach Number 43

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Los Angeles County Channel Maintenance Project Reach Name San Gabriel River Whittier Narrows Reach Number <u>43</u> Mitigation Monitoring Program

Date	Air	H20	Noise	Comment	Initial
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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name San Gabriel River Whittier Narrows Reach Number <u>43</u>

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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: 09/23/19

Project End Date: 01/31/20

	-Completed by://
Name:	306 TINC
Title:	1 Construction SuDA
Date:	06/24/2020

Hel	Approved by:
Name:	KM Lacay.
Title:	AAE
Date:	7/28/2020

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	95.48	

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 by
Name;/	ght the
Title:	Clengmuctin, Suist
Date:	Da/ 74/2020

Approved by: 100 Name: Title: Date:

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:

\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:	Soft Anc
Title:	/ KIMEMICHN SUPT
Date:	26/24/2020

Jec	Approved by:
Name:	Kon Lalans.
Title:	AAE
Date:	7/28/2020

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River Rubber Dams, SD, 4</u> Reach Number <u>44</u>

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River Rubber Dams, SD, 4</u> Reach Number 44

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>San Gabriel River Rubber Dams, SD, 4</u> Reach Number <u>44</u>

Initial		0.0	6 N	77,		, Xi		U U iTC	×,			101 1013
Comment	191/MIL merekaning Parlo . 1.7.	madual car - 2 ar 2 by for allow and the	RU5 to 517W/ROG Completed	Rest of marins to Barelov-is 11. Her	2 érens L'Erres Barech-Whither Corn & ROG		Fintheres up contra of the search	Slope mouver at theman - ent		MOUN MECHANICARY ISOUS PUNICARY POILS	Store manel a) Eleveren - ed 7	Heliday
Noise	70-90 dBA Occeptable	11 //	// - //	1	II //	1	H 1/	II //	11 11	11 11	11 //	// //
H20	Ø	Ŕ	D	Ø	D	Ż	D	Ì	Ø	B	þ	
Air	seed	good	zvoch	gaved	9000	50001	500d	sooch	souch	5 oud	souch	
Date	10/25/19	12/28/19	10/29/19	10/30/19	14/31/19	11/01/19	11/04/19	11/05/19	11/06/19	1/02/19	11/08/19	11/11/19

Reach Name San Gabriel River Rubber Dams, SD, 4 Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Number 44

Initial	i,	17. 17.	174 176	<i>JĈ</i>		-			
Comment	WIKING D ANTANI TO RNZ	Slad moved have willing have man	Slope mouse 12 parised to wellow	Equiched Florence NOF dave. Constant					
Noise	70-70 13.1 9000000000000000000000000000000000000	(1 1)	11	11 11					
H20	Ø	Ø	Ø	B					
Air	5000	90001	2000	9000					
Date	"//2/19	11/13/15	1/11/12	11/15/19					

WORK # 629 2903

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:

HAND (LEADING OF ALL VECETATION WITHIN PERMITTED LIMITS PERFORMED, NO MICHANICAL WORK REQUIRED TO COMPLETE PROJECT.

Disposition: $\underline{\checkmark}$ 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:

LOW WIND CONDITIONS 25 MPH.	
NO DUST LEFT PROJECT SITE.	
Project start date: 10.7.19	Project end date: 10.7.19
Completed by: Name: LUIS MONTES DE 0 CATITLE:	PWCL Date: 10.719
Approved by: Name: MARTY LEMUS Title:	FCCS Date: 10-7-19

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. 45 Sand Ca Main Channel Inlet	inyon (PD T1307) T.G.: 4552-C1

Permit Requirements:

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

Impacts shall not exceed 0.05 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:

ESC1 Scheduling	ESC2 Preservation of Existing Vegetation				
r ESC21 Dust Control	ESC22 Temporary Stream Crossing				
ESC31 Temporary Drains and Swales					
	ESC52 Sand Bag Barriers				
4	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:					
Biologist on site:	Date:				
Biologist Comments/Instructions:					
Completed by: Name: LUIS MONTES I	DEOCA Title: PWCL Date: 10-7-19				
Approved by: Name: <u>MARTY</u> <u>UEMUS</u> P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 45.doc	DEOCA Title: PuxL Date: 10.7.19 S Title: Fcc.S Date: 10.7.19				

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 WAS CONDUCTED JURINE JAYLIEHT HOURS IN COMPLIANCE WITH LOGAL NOISE ORDINANCE NO POWER TOOLS WERE STARTED PRIOR TO 7:00AM.

Disposition: $\sqrt{}$ 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 M	ONTES	DE OGA	Т
Approved by: Name: _	MARTU	1 LEN	us	Т

Title:	PWCL	Date:	10.7.19
= Title:	Fecs	Date:	10-7-19

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Reach Name SAND CANYON INLET

Reach Number 45

Initial		-					
Commont	FOUND ON REACH					2	
Noise	7		23				
H20	7						
Air	7	2					
Date	10.7.2019						

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Wo#6292903

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:

	OF VEGETATION WITHIN PERMITTED LIMITS O EQUIPMENT REQUIRED TO COMPLETE WORK OFDER.
	o thought for the state of the
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:
LOW WIND CON	NDITIONS, NO DUST LEFT PROJECT SITE.
Project start date:	10.7.19 Project end date: 10.7.19
Completed by: Nam	e: LUIS MONTES DECCA Title: PWCL Date: 10-7-19
Approved by: Name	: MARTY LEMUS Title: FCCS Date: 10-8-19

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)5 BAES
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:

F 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 ha	s been implemented. No further action is required.				
Mitigation measure is (Please explain below)	not fully implemented. Further action is required.				
(Please explain below) Comments/Revisions:	NECETATION FOUND ON REACH.				
Biologist on site: ┌ Yes	Date:				
Biologist Comments/Instructions:					
Completed by: Name: WIS MONTES DE	$\frac{\partial c_A}{\Delta c_A} \text{Title:} \frac{\partial w_{LL}}{\partial c_A} \text{Date:} \frac{10 \cdot 7 \cdot 19}{19}$ $\frac{S}{\Delta c_A} \text{Title:} \frac{F_{CCS}}{F_{CCS}} \text{Date:} \frac{10 - 8 - 19}{19}$				
Approved by: Name: <u>MARTY</u> UEMU P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 46 doc	S Title: FCCS Date: $10-8-19$				

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 WAS COMPLETED DUFINE DAYLIE	HT HOURS IN
COMPLIANCE WITH LOCAL NOISE OFDINANCE NO POL	JERTOUL WAS
STARTED PRIOF TO TODAM.	

Disposition: $\underline{\checkmark}$ 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:

Completed by: Name	LUISMONTES DEOLA	Title: PWCL	_Date: 10-7-10
Approved by: Name:	MARTY LEMUS	Title: <u>FCS</u>	_Date: <u>10-8-1</u>

Los Angeles County Channel Maintenance Project SAND CANVON OUTCH Mitigation Monitoring Program Reach Name Reach Number

77

Initial	LN						
Comment	NO NUNSIVE VECETATION ON PEACH				*		
Noise							
H20							
Air	>						
Date	61.7.01						

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W0 # 6292507

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

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:

MECTANICAL AND HAND LABOR PERFORMED TO REMOVE ALL VECETATION WITHIN REACH LIMITS. WATER TRUCK ON SITE AT ALL TIMES TO SPRAY WATER AS NEEDED FOR DUST CONTROL PURPOSES.

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:

Disposition:

LOW WIND CONDITIONS 5 MPH	÷.	
Project start date: 11.07.2019	Project end	date: 11.08.2019
Completed by: Name: L.MONTES DE OM	Title: PwcL	Date: 11.08.2019
Approved by: Name: MARTY LEMUS	Title: Fcc S	Date: 11-13-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>3 でい</u> ら					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 40 SF					
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 Impleme Due to hydrological conditions in the reach following Best Management Practice were de	entation: during the vegetation clearing operations, the semed 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 no (Please explain below.)	ot fully implemented. Further action is required.					
Mitigation measure is n (Please explain below.)	ot in compliance. Further action is required.					
Comments/Revisions: <u>4059.Ft. OF INVASIVE VELETATION LEMOVED</u> . (TOBALLO)						
Biologist on site: □Yes √No	Date:					
Biologist Comments/Instructions:						
Completed by: Name: LINONTES DE C						
Approved by: Name: MARTY LEMUS	Title: <u>FCCS</u> Date: <u>11-13-19</u>					

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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 WAS CONDUCTED NITHIN DAYLIGHT HOURS AND WITHIN COMPLIANCE OF 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.)

Comments/Revisions:

NO WORK WAS COMMENCED PRIOR TO	7:00AM.	
i		
Completed by: Name: L. MONTES DE0 95	Title: <u>PwcL</u>	Date: 11.08.2019
Approved by: Name: MARTY LEMUS	Title: Fccs	Date: 11-13-19

WO# 6292507

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 & 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:

MECHANICAL AND HAND CLEARING WORK TO REMOVE VECETATION WITHIN REACH LIMITS PERFORMED. WATERTRUCK ON SITE AT ALL TIMES TO SPRAY WATER AS NEEDED FOR DUST CONTROL PURPOSES.

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 5 MPH.

Project start date: 11.07. 2019

Project	end	date:	11-0	18	2019
Project	ena	date:	11.1	0	001-1

Completed by: Name: L MONTES DE 0 40	Title: PwcL	Date: <u>11.08.2</u> 019
Approved by: Name: MARTY LEMUS	Title: Fcc S	Date: <u>11-13-</u> 19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>1.32 て</u> いま Exotic Veg. Removed (Sq. Ft. <u>) 10 ร</u> q Ft・
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10 59 Ft-
Location/Channel Reach#: Reach No. 49 Mint Between Adon Ave	Cyn. Channel T.G.: 4551- J2 e & <u>Scherzinger Ln</u>
Permit Requirements: Mechanical and hand clearing work will be per This process will be repeated annually during th	rformed to keep reach clear of all vegetation. ne dry season.
Description of Activity/Method of Implement Due to hydrological conditions in the reach d following Best Management Practice were deen	uring the vegetation clearing operations, the
ESC1 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 □ □ E	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.)	in compliance. Further action is required.
Comments/Revisions: 10 59 Ft of ftmoved (TOBALLO)	F INVASIUE VEGETATION
Biologist on site: Yes No Biologist Comments/Instructions:	Date:
Completed by: Name: LINONTES DE O CA	Title: 2010L Date: 11.08.19
Approved by: Name: MARTY LEMUS	Title: <u>Fccs</u> Date: <u>11-13-19</u>

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 49 Mint Cyn. Channel Between Adon Ave & Scherzinger Ln

T.G.: 4551-J2

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:

ALL WORK WAS COMPLETED JURINE DAYLIEHT HOURS AND WITHIN COMPLIANCE OF LOCAL 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:

NO WORK WAS COMMENCED TRIOF TO 7:00 AM. Completed by: Name: L'MONTES DE O GO Title: PWCL Date: 11.08.19 Approved by: Name: MARTY LEMUS Title: Fcc S Date: 11-13-19

Wo # 6292507

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name MINT CANYON CHANNEL Reach Number 24-8-49

Initial	لح	F							
Comment	50 SF OF INVASIVE VECTATION					3.			
Noise	>	>							
H20	>								
Air	>	1							
Date	11-7-2019	11 8.2019	1	A 1					

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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 AND HAN	DD CLEARING OF A	LL VEGETATION	COMPLETED.
WATER TRUCK ON SITE	TO SPRAU 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:

EXCEEDED 25 MPH. NO DUST LEFT WORKSITE.

Project start date: 10. 2. 2019

Project end date: 10.15.19

Completed by: Name: LUIS	MONTES DE OCA TITLE: I	Dukl Di	ate: <u>10 · 15 · 1</u> 9
Approved by: Name: MAR	TY LEMUS Title:	FCCS D	ate: <u>10-16-19</u>

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Compliance Verification Form

Impact Issue: Hydrology and Water Quali	ty Trash/Debris Removed (Tons) -7 01							
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 0							
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.								
	feet by 20 feet wide along each levee). Clearing shall e of the levee. The vegetation (0.01 acre) that was d 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	CESC22 Temporary Stream Crossing							
ESC31 Temporary Drains and Swales	ESC50 Silt Fence							
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers							

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:

LEPAIRED	LAFEE	EROSIO	IN AT	END	ĊF	HBC	CHANNELTO	PREVENT
STRUCTUR	AL DAN	WEE.	10 SF	OF	TOB	ACCO	REMOVED	

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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:

ALL WORK WAS CONDUCTED DUFINE DAYLIEHT HOURSAND WITHIN COMPLIANCE WITH LUCAL NOISE OFDINANCE

Disposition:		Mitigation measure has been ir	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.)	compliance. Further a	action is required.
Comments/	Revisi	ons:		
NO EQUIPI	NEN	T STAFTED WORK PRIOR	10 7:00 Am.	
NO WEEKE	END 1	WRK.		
Completed b	y: Nan	ne: LUIS MONTES DE OCA	Title: PUCL	Date: 10 - 15-19
Approved by	: Nam	e: MARTY LEMUS	Title: <u>FCCS</u>	Date: <u>10 - 15 - 19</u> Date: <u>10 - 16 - 19</u>

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name MCO MINT CYN CH Reach Number 51

Initial	LA	LP L	LAN	2	LY -	1	2	LA			
Comment	10 SF OF INVASIVE VECETRATION	REMOVED. TOBACCO									
Noise	\mathbf{i}	\geq				\sim	$\overline{}$	$\overline{\ }$			
H20	>	$\overline{\ }$		$\overline{\ }$	\sim				>		
Air	$\overline{}$							~	>		
Date	10.2.19	10.3.19	10.4.19	61.7.01	61.8.01	61.6.01	10.10.19	61-11-01	61.21.01		

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WOH6292268

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 53 Santa Clara River (PD 832) T.G.: 4551-H4 Main Channel Inlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEAFING OF VEGETATION AND DEBRIS PERFORMED WITHIN ALLOWABLE LIMITS. MOST OF THE WORK WAS PERFORMED BY HAND CREW BACKHOE WAS USED TO LOAD DEBRIS/VEGETATION INTO HEAVY TRUCK.

Disposition: $\sqrt{}$ 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 TRUCK DUMP BOX TARPED DUPINE TRANSPORTATION OF DEBRIS AND VEGETATION TO LANDFILL.

Project start date: 10 - 2019

Project end date: $10 \cdot 2 \cdot 2019$

Completed by: Name: LUIS MONTES DE OCA	Title: <u>PWCL</u>	Date: 10.3.2-019
Approved by: Name: MARTY LEMUS	Title: <u>FCCS</u>	Date: 10-4-2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)		
Location/Channel Reach#: Reach No. 53 Santa Main Channel Inlet	a Clara River (PD 832) T.G.: 4551-H4		
Permit Requirements: Mechanical and hand clearing work will be performe	d to keep reach clear of all vegetation.		
Impacts shall not exceed 0.03 acre.			
Description of Activity/Method of Implementa Due to hydrological conditions in the reach du following Best Management Practice were deem	uring the vegetation clearing operations, the		
FESC1 Scheduling	SC2 Preservation of Existing Vegetation		
ESC21 Dust Control	SC22 Temporary Stream Crossing		
ESC31 Temporary Drains and Swales E	SC50 Silt Fence		
□ ESC51 Straw Bale Barriers □ □ E	C52 Sand Bag Barriers		
Disposition: Mitigation measure has bee Mitigation measure is not fi	en implemented. No further action is required.		
(Please explain below.)	any implemented. I drifter action is required.		
Mitigation measure is not (Please explain below.) Comments/Revisions:	in compliance. Further action is required.		
Biologist on site:	Date:		
Biologist Comments/Instructions:			
Completed by: Name: LUIS MONTES DEDU	Title: <u>FCC S</u> Date: <u>10-4-2019</u> Date: <u>10-4-2019</u>		
Approved by: Name: MARTY LEMUS	Title: FCC S Date: 10-4-2019		

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 53 Santa Clara River (PD 832) T.G.: 4551-H4 Main Channel Inlet

Permit Requirements:

Mechanical and hand clearing work will be performed to keep reach clear of all vegetation.

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

NITHIN COMPLIANCE OF 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.)

Comments/Revisions:

ALL HEAVY FOURPMENT / TRUCKS IN COMPLIANCE WITH NOISE OFDINANCE RECULATIONS. NO AFTERMARKET EXHAUST. NO EQUIPMENT STARTED BEFORE TOOPM.

Completed by: Name: LUIS MONTES DE ORA	Title: <u>Pulce</u>	_Date: <u>10-3-19</u>
Approved by: Name: MARTY LEMUS	Title: Fcc_S	_Date: 10-4-2019

Initial 5 Reach Name NAW CHANNEL WLET PD832 NO INVIASIVE VECETATION FOUND Los Angeles County Channel Maintenance Project LEVETH OF REACH. Comment Mitigation Monitoring Program 2 Reach Number 53 Noise H2O Air 61 L. MI Date

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NO# 6292268

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 CLEARINE PERFORMED TO REMOVE
HEGETATION HEAVY EQUIPMENT GRADED DIFT TO ELIMINATE
WATER FROM PONDINE AT OUTLET. WATER TRUCKS SPRAYED
WATER AS NEEDED TO MINIMIZE DUST.

Disposition: $\sqrt{}$ 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 TRUCKS DUMP BOX TAPPED DUPING TRANSPORTATION OF DEBRIS AND VEGETATION TO LANDFILL.

Project start date: 10.3.2019

Project er	nd date:	10.	3	2019
	-			

Completed by: Name: WISMONTES DE DCA	Title: <u>PWCL</u>	Date: 10-3-19
Approved by: Name: MARTY LEMUS	Title: FccS	_Date: <u>10-4-2019</u>

Compliance Verification Form

Impact Issue: Hydrology and Water Qua	-			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel Reach#: Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4 Main Channel Outlet				
Permit Requirements: <i>Mechanical and hand clearing work will be</i>	performed to keep reach clear of all vegetation.			
Impacts shall not exceed 0.31 acre.				
Description of Activity/Method of Implet Due to hydrological conditions in the rea following Best Management Practice were	mentation: ich during the vegetation clearing operations, the deemed to be applicable and were implemented:			
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation			
K∕ESC21 Dust Control	ESC22 Temporary Stream Crossing			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence			
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers			
	s been implemented. No further action is required. not fully implemented. Further action is required.			
Mitigation measure is (Please explain below Comments/Revisions:	NE VECETATION FOUND ON			
Biologist on site: 🗆 Yes 📝 No	Date:			
Biologist Comments/Instructions:				
Completed by: Name: JUIS MONTES DE	EOGA Title: fulch Date: 10. 3.19			
Approved by: Name: MARTY LEMUS				

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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. 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:

ALL WORK WAS CONDUCTED JUPINE DAYLIEHT HOURS AND IN COMPLIANCE WITH LOCAL 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:

ALL WORK ACTIVITIES WERE COMMENCED AFTER 7:00 AM. NO WEEKEND WORK .

Completed by: Name: LUIS NONTES DE OGA	Title: Pulch	Date: <u>10.3.1</u> 9
Approved by: Name: MARTY LEMUS	Title: Fccs	Date: <u>/0-4-19</u>

Los Angeles County Channel Maintenance Project Reach Name MAIN CHANNEL OUT LET Reach Number 54 Mitigation Monitoring Program

Initial	L							
Comment	NO INVASIVE VELETATION ONLEACH LAN							
Noise	$\overline{}$		1	-				
H2O	$\overline{\ }$							
Air	$\sum_{i=1}^{n}$,			6			
Date	61.2.01							

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Wott 6292268

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:

MECHANICAL AND HAND CLEARING OF VEGETATION WITHIN
20 FEET FROM THE OF LEVEE SLOPE PERFORMED, ALL DIRT
WITHIN ZUFEET ERADED TO ELIMINATE UPDERMINING OF
CONCRETE LININE.

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 & SMPH. WATER TRUCKS ON SITE AND SPRANED WATER AS NEEDED TO MINIMIZE DUST.

Project start date: <u>10.2.2019</u>	Project end	date: 10. 2. 2019
Completed by: Name: LUIS MUNTESDE	OCATITLE: DWCL	Date: <u>10: 3:1</u> 9
Approved by: Name: MARTY LEMUS	Title: Fee S	Date: 10-4-2019

Compliance Verification Form

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

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)

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:

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:

IV 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:

20'SF-TAMARISK INVASIVE PLANT REMOVED FROM RELACH.

Biologist on site: □Yes

T/N

Date:

Biologist Comments/Instructions:

Completed by: Name: LUIS MONTES DE 0 94.	Title: Pulce	Date: 10.3.19
Approved by: Name: MARTY LEMUS	Title: Fcc S	Date: <u>16-4-2019</u>

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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. 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:

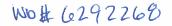
ALL WORK WAS	CONDUCTED	WITHIN D	AVLIGHT	HOURS	IN
COMPLIANCE WIT	H LOCAL NOISE	OFDINANC	5 NO E	NEINE	WAS
STARTED BEFOR	E 7:00 AM				

Disposition:	/	Mitigation measure has been imp	plemented. No further a	ction is required.
		Mitigation measure is not fully ir (Please explain below.)	nplemented. Further a	ction is required.
		Mitigation measure is not in co (Please explain below.)	ompliance. Further ac	tion is required.
Comments/	Revisio	ons:		
1				
				0
Completed b	y: Nam	NO: LUIS MONTES DE OCA	Title: Pulce	_Date: <u>10-3-2</u> 010
Approved by	: Name	MARTY LEMUS	Title: <u>Proc</u>	_Date: <u>10-4-201</u> 9

Los Angeles County Channel Maintenance Project Reach Name Start CLAPAPINES MAIN Mitigation Monitoring Program P.00 Reach Number

Initial	LW						
Comment	UTLETATION	REMOVED.					
Noise	\checkmark						
H20	\mathbf{i}						
Air		3					
Date	10.2.19						

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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:

MECHANICAL AND HAND (LEAKING OF VEGETATION WITHIN PERMIT LIMITS CONDUCTED. WATER TRUCK ON SITE AT ALL TIMES TO SPRAY WATER AS NEEDED.

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:

HEAVY TRUCK DUMP BOX TAPPED DURINE TRANSPORTATION NE VEGETATION AND BEBRIS TO LANDFILL.

Project start date: $\frac{10.32019}{10.32019}$

Project end date: 10. 3. 2019

Completed by: Name: MARTY LEMUS	_ Title: _	FCCS	Date: _	10-4-2019
Approved by: Name: JOHN Rice	Title:	C.S	Date: _	10-4-2019

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. 56 San (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 toe of the levee.	shall not extend more than 20 feet beyond the					
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	ESC2 Preservation of Existing Vegetation					
I ESC21 Dust Control I	C22 Temporary Stream Crossing					
ESC31 Temporary Drains and Swales	ESC50 Silt Fence					
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers					
Disposition: Mitigation measure has be	een implemented. No further action is required.					
Mitigation measure is not (Please explain below.)	fully implemented. Further action is required.					
(Please explain below.)	t in compliance. Further action is required.					
NO INVASIVE VE	EEETATION FOUND ON REACH.					
Biologist on site:						
Biologist Comments/Instructions:						
Completed by: Name: LUIS MONTES DE O	CA Title: <u>PWCL</u> Date: <u>10.3.1</u> 9					
Approved by: Name: MARTY LEMUS	Title: FCCS Date: 10-4-2019					

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

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:

ALL WORK OPERATIONS COMPLETED DURINE DAULIENT HOURS AND WITHIN COMPLIANCE OF 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:

NO WORK WAS COMMENCED UNTIL AFTER 7:00AM. NO WEEKEND WORK PERFORMED.

Completed by: Name:	WIS MONTES DE O GA	Title: PWCL	Date: 10.3.19
Approved by: Name: _	MARTY LEMUS	Title: Fecs	Date: <u>10-4-2019</u>

Reach Name <u>S-NTA CLAPANER MAIN</u> Reach Number Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Initial	L							
Comment	NO INVASIVE RECEIPTION ON	REACH						
Noise	>							
H2O	>							
Air	>	2						
Date	10.3.19						8	

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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:

MECHANICAL AND HAND CLEAPINE OF AL	LVEGETATION
PERFORMED WATER TRUCK ON SITE TO	SPRAY WATER AS
NEEDED TO PERFORM DUST CONTROL.	3

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:

HIEH WIND CONDITIONS Y 20 MPH. NO DUST LEFT PROJECT SITE, AS WORKING AREA WAS PRE, DUKING AND POST SPRAYED WITH WATER.

Project start date: 10 · 10 · 19	Project end	date: 10 · 10 · 19
Completed by: Name: WIS MONTES DE04	Title: PNCL	Date: <u>10 • 10 • 1</u> °1
Approved by: Name: MARTY LEMUS	Title: Fccs	Date: <u>10-11-1</u> 9

Compliance Verification Form

Impact Issue: Hydrology and Water Qual								
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)							
Location/Channel Reach#: Reach No. 57	Location/Channel Reach#: Reach No. 57 Whites Cyn (PD T 704 M.C.I.) T.G.: 4551-G1							
Permit Requirements: <i>Mechanical or hand clearing work will be p</i>	erformed to keep reach clear of all vegetation.							
The vegetation that was allowed to rem maintenance activities.	The vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.							
	mentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:							
ESC1 Scheduling	ESC2 Preservation of Existing Vegetation							
VESC21 Dust Control	STREAM STREAM Crossing							
ESC31 Temporary Drains and Swales	ESC50 Silt Fence							
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers							
Mitigation measure is (Please explain below)	s been implemented. No further action is required. not fully implemented. Further action is required.) not in compliance. Further action is required.							
(Please explain below. Comments/Revisions: NO INVASIVE VECETATION	, ,							
Biologist on site:	Date:							
Biologist Comments/Instructions:								
Completed by: Name: <u>LUIS MONTES</u> Approved by: Name: <u>MARTY LEMUS</u>	DE04A Title: \underline{PUCL} Date: $\underline{10 \cdot 10 \cdot 1}^{\circ}$ Title: \underline{FCCS} Date: $\underline{10 - 11 - 19}$							
Approved by. Marile. <u>Jetrik (-(arrows</u>)								

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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. 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:

NOFK WAS CONDUCTED DUFINE DAYLIEHT HOURS AND NITHIN COMPLIANCE OF LOCAL NOISE (RDINANCE)

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 WAS COMMENCED PR	IOR TO TOOAN	1
Completed by: Name: LUIS MONTES DEOGA	Title: <u>PWCL</u>	Date: 10.10.19
Approved by: Name: MARTY LEMUS	Title: <u>Fcc S</u>	Date: <u>//////</u> 5

WO#6292268

Compliance Verification Form

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 VEGETATION WITHIN
20 FEFT FROM THE OF LEVEE PERFORMED. INATER TRUCKS
ON SITE AT ALL TIMES TO SPRAY 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:

LOW WIND CONDITIONS & 5MPH. HEAVY TRUCK DUMP BOX TAPPED DUPINE TRANSPORTATION OF NECETATION AND DEBRIS.

Project start date: –	10.1.2019	Project end	date: <u>10 · 2 · 20</u> 1	9
Completed by: Name:	LUIS MONTES DEUC	Aitle: <u>fulcl</u>	Date: <u>10 · 3 · 1</u> 9	
Approved by: Name:	MARTY LEMUS	Title: FCCS	Date: 10-4-2	619

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>25 BAES</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 58 Santa C U/S side old Soledad	Clara River (PD374) T.G.: 4551-G3 TO F3
Permit Requirements: The channel clearing vegetation within 20 feet from the levee slope line	
Impacts shall not exceed 0.95 acre. Clearing sh toe of the levee.	all 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	ring the vegetation clearing operations, the
	SC2 Preservation of Existing Vegetation
I ESC21 Dust Control I ES	SC22 Temporary Stream Crossing
\Box ESC31 Temporary Drains and Swales \Box 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.)	lly implemented. Further action is required.
Mitigation measure is not i (Please explain below.) Comments/Revisions:	n compliance. Further action is required.
NO INVASIVE PLANTS FOUND ON H NO WATER CROSSING.	ENETH OF REACH.
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by: Name: LUIS MONTES DE OCH	
Approved by: Name: MARTY LEMUS	Title: <u>FCC S</u> Date: <u>10-4-19</u>

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Compliance Verification Form

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:

IN COMPLIANCE WITH LOCAL 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:

ALL HEAVY EQUIPMENT AND TRUCKS IN COMPLIANCE WITH LUCAL NOISE OF DINANCE NO EQUIPMENT WAS STARTED BEFORE 7:00 AM

Completed by: Name: LUIS MONTES DE 0 CA	Title: PWCC	_Date: <u>10-3-19</u>
Approved by: Name: MARTY LEMUS	Title: FccS	_Date: 10-4-19

Los Angeles County Channel Maintenance Project Reach Name U' Swith are tived solehas Mitigation Monitoring Program Reach Number 58

Initial	J J	43						
Comment	NO INVASIVES FOUND	11						
Noise								
H20	>	>						
Air								
Date	61-1-01	10.2.19					-	

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Compliance Verification Form

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:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION PERFORMED WITHIN PERMITTED LIMITS. WATER TRUCKS ON SITE AT ALL TIMES TO SPRAY WATER AS NEEDED TO MINIMIZE DUST.

Disposition: $\sqrt{}$ 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 <5 MPH. HEAVY TRUCKS TARPED DURING TRANSPORTATION OF DEBRIS AND VEGETATION TO LANDFILL.

Project start date: 10 1 2019	Project end date: 10 - 2 - H) <u> 9</u>
Completed by: Name: JUIS NONTES- DE	ATitle: <u>Pulci</u> Date: <u>10.3.2</u>	019
Approved by: Name: MARTY LEMUS	S Title: FCCS Date: 10-4-	2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>10 BAES</u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 60 Santa (PD's 1339 & 374)	Clara River T.G.: 4551- F3 TO E2
Permit Requirements: The channel clearing w vegetation within 20 feet from the levee slope linit	

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:

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	I ⊂ ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: <u>/</u> 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:	
Biologist on site: √No □ Yes	Date:
Biologist Comments/Instructions:	
Completed by: Name: LUIS MONTES DE	Que Title: fulce Date: 10.3.19
Approved by: Name: MARTY LEMUS	

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Compliance Verification Form

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:

COMPLIANCE OF LUCAL NOISE OF DINANCE

Disposition: $\sqrt{}$ 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 EQUIPMENT IN COMPLIANCE WITH NOISE OF DINANCE, NO EQUIPMENT WAS STARTED BEFORE 7:00AM.

Completed by: Name: WIS MONTES DE OCA	Title: Pulce	Date: <u>10.3.19</u>
Approved by: Name: MARTY LEMUS	Title: FCCS	Date: 10-4-2019

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name JANTA CLAPA PINEA 09 Reach Number

	Initial	L	L K						
-	Comment	NO INVASIVE VECETATION FOUND	ON LENETH OF REACH.						
	Noise			Ľ					
	H20		>						
	Air	>	· /			6 1	2		
	Date	101-19	61.6.01						

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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:

MECHANICAL AND HAND CLEAKING OF ALL VEGETATION WITHIN 20'LIMIT COMPLETED. WATER TRUCK ON SITE TO SPRAY 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:

DURING PROJECT SCHEDULE, NO WOKKING DAY	
WIND CONDITIONS EXCEEDED 25MPH.	
NO DUST LEFT PROJECTSITE.	

Project start date: <u>9.30.2019</u>	Project en	d date: 10 15 19
Completed by: Name: LUIS MONTES DE)CATitle: <u>PWCL</u>	Date: <u>10-15-</u> 19
Approved by: Name: MARTY LEMUS	_ Title: Fees	Date: 10-16-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)4.94
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Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100

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:

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
SC21 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.
(Please explain below. Comments/Revisions: 100 SF INVASIVE	VEGETATION REMOVED
Biologist on site: No TYes Biologist Comments/Instructions:	товассо. Date:
Completed by: Name: LUIS MONTES DE	T Title: P_{μ} P_{μ} Date: 10:15:19
	Description Date: 101519
Approved by: Name: MARTY LEMUS	Title: $10-76-19$

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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 WAS COMPLETED DURINE DAYLIEHT HOURSAND WITHIN COMPLIANCE OF LUCIAL NOISE OF DINANCE.

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:

NO HEAVY EQUIPMENT COMMENCED WORK PRID 7:00 AM, NO WEEKEND WORK CONDUCTED.	R TO
Completed by: Name: LUIS MONTES DEDIA Title: PUICL	Date: 10.15.19

Approved by: Name: _	MARTY	LEMUS	
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Title:	FECS	Date:	10-16-19

Reach Name 50 PIJER HON BY AVE Los Angeles County Channel Maintenance Project Mitigation Monitoring Program 9 Reach Number

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- H -----

WD # 6292668

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

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:

MECHANICAL AND HAND CLEAPING OF ADL VEGETATION 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:

WIND SPEED NEVER EXCEEDED 25 MPH.

Project start date: 10 · 10 · 2019

Project end date: 10.23.19

Completed by: Name	: WIS MO	NTEF DE OCA	Title:	Pwcl	Date: _	10.22.19
Approved by: Name:	MARTY	LEMUS	Title:	FCC S	Date:	10-24-19

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. 63 Oak A (CDR 523.081)	ve Rd Drainage T.G.: 4551-C2
Permit Requirements: The channel clearing work will involve mechanize	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:

/	
FESC1 Scheduling	ESC2 Preservation of Existing Vegetation
SC21 Dust Control	✓ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	FESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers
Disposition: <u> </u> 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:	
NO INVASIVE VEGETATION FOU	•
	STRUGURAL DAMAGE TO CONCRETE
CHANNEL INVERT: Biologist on site: No TYes	Date:
Biologist Comments/Instructions:	
Completed by: Name: LUIS MONTES DE	Title: PWCL Date: 10. 2.2. 19
Approved by: Name: MARTY LEMUS	Title: \underline{FCCS} Date: $\underline{10-24-19}$

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Compliance Verification Form

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:

ALL WORK CONDUCTED WITHIN COMPLIANCE OF LOCAL NOISE ORDINANCE. HEANY EQUIPMENT COMMENCED WORK AFTER 7:00 AM.

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:

Completed by: Name:LUIS MONTES DE OLATitle:PWCLDate:10:9-2:19Approved by: Name:MARTY LEMUSTitle:FCCSDate:10-24-19 Approved by: Name: MARTY LEMUS

Wo # 6292668

Los Angeles County Channel Maintenance Project Reach Name UPK NE RD DRAINALE Mitigation Monitoring Program Reach Number U3

Initial	L	5	ł	Ş	F				
Comment	NO INVASIVE VEGETATION	found an concert of React	11	11 11	11	· · ·			
Noise		4		>					
H20									
Air									
Date	61.21.01	61.4.01	10.18.19	61.10.01	61.ee.01				

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Compliance Verification Form

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 LABOR TO FEMORE VELETATION COMPLETED. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED TO MINIMIZE DUST ON TRUCK HAUL FOUTE.

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)5 MPH.

Project start date: 10-18-2019

Project end date	: 10.23.2019
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Completed by: Name	LUISMON	JTES DE OCA	Title:	PWCL	Date:	10.23.2019
Approved by: Name:	MARTY	LEMUS	Title:	FCCS	Date:	10-24-2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u>70.87</u>					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 20 SF					
Location/Channel Reach#: Reach No. 64 Soled (CDR523.071 D Outle						
Permit Requirements: The channel clearing work will involve clearing ar channel. All vegetation will be removed by hand						
Impacts shall not exceed 0.10 acre (8 feet wide b	y 577 linear feet).					
Description of Activity/Method of Implementat Due to hydrological conditions in the reach dur following Best Management Practice were deeme	ing the vegetation clearing operations, the					
ESC1 Scheduling □ ES	C2 Preservation of Existing Vegetation					
✓ESC21 Dust Control	C22 Temporary Stream Crossing					
ESC31 Temporary Drains and Swales ES	C50 Silt Fence					
ESC51 Straw Bale Barriers	C52 Sand Bag Barriers					
Disposition: <u> </u>						
Mitigation measure is not ful (Please explain below.)	ly implemented. Further action is required.					
(Please explain below.)	n compliance. Further action is required.					
20 SF OF INVASIVE VECETATI	ON REMOVED. (TAMARISK)					
Biologist on site: ⊠No □Yes	Date:					
Biologist Comments/Instructions:						
Completed by: Name: LUIS MONTES DEOCA	Title: PWCL Date: 10.23.2019					
Approved by: Name: <u>MARTY LEMUS</u>	Title: \underline{PWCL} Date: $\underline{10 \cdot 33 \cdot 3019}$ Title: \underline{FCCS} Date: $\underline{10 - 34 - 2019}$					

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Compliance Verification Form

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 WORK COMPLETED DUPINE DAVLIENT HOURS IN	
COMPLIANCE WITH LOCAL NOISE OF DINANCE.	
1	

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:

NO WORK COMMENCED PRIOR TO 7:00 AM.

Completed by: Name: LUIS MONTES DE OLA	Title: <u>PWCL</u>	Date: 10.23.2019
Approved by: Name: MARTY LEMUS	Title: Fecs	Date: 10-24-2019

WO # 6292547

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name CDP 573.071C 64 Reach Number

	Initial	L	LA	2	2					
	Comment	JOSF OF INVASIVE VERTION	REMOVED (TEMARISK)							
	INOISE			\searrow	\rightarrow			-	anna an	
Con	070	$\overline{}$			$\overline{}$					
A ::-	III				>					
Dato	Aare	10.18.19	61.16.01	61.22.01	61.22.01					

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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 ALL VEGETATION WITHIN 20'LIMIT PERFORMED. WATER TRUCK SPRAVED 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:

NIND CONDITIONS >10 MPH. HEANYTRUCK DUMPBOR TARPED DURING TRANSPORTATION OF DEBRIS/ VEGETATION TO LANDFILL.

Project start date: 10.9.2019

Project end date:	10.9.	2019
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Completed by: Name	:LUIS MONTES DEOL	ATitle: PWCL	Date: <u>10.9.2019</u>
Approved by: Name:	MARTY LEMUS	Title: FCCS	Date: 10-10-2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality							
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)						
Location/Channel Reach#: Reach No. 66 San							
Permit Requirements: The channel clearing will involve mechanized r slope lining along the entire reach.	emoval of all vegetation within 20 feet from the						
Clearing shall not extend more than 20 feet be	yond the toe of the levee.						
Description of Activity/Method of Implemen Due to hydrological conditions in the reach of following Best Management Practice were dee	during the vegetation clearing operations, the						
K ESC1 Scheduling □	ESC2 Preservation of Existing Vegetation						
I ESC21 Dust Control III III IIII IIII IIII IIII IIII III	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	en implemented. No further action is required.						
Mitigation measure is not (Please explain below.)	fully implemented. Further action is required.						
Mitigation measure is not (Please explain below.)	t in compliance. Further action is required.						
NO INVASIVE VECETATION F	ound on reach						
Biologist on site: No res	Date:						
Biologist Comments/Instructions:							
Completed by: Name: LUIS MONTES DE DO	Title: \underline{PUCL} Date: $\underline{10.9.19}$ Title: \underline{FCCS} Date: $\underline{10.9.19}$						
Approved by: Name: MARTY LEMUS	Title: <u>FCCS</u> Date: 10-10-2019						

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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. 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:

WORK PERFORMED DURING DAYLIGHT HOURS AND WITHIN COMPLIANCE OF LOCAL NOISE OR 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:

ALL WORK WAS COMMENCES AFTER 7	COAM.	
Completed by: Name: <u>JUIS MONTES DE O</u> R	Title: PwCL	Date: 10.9.19
Approved by: Name: MARTY LEMUS	Title: FCS	Date: 10-10-2019

Los Angeles County Channel Maintenance Project SANTA CLARA RIVER Mitigation Monitoring Program

9 9 Reach Name Reach Number

Initial	2						
Comment	7. UL TONS OF VECETATION AND	DEBRIS HANLED TO LANDFILL.					
Noise	$\overline{}$						
H20	7						
Air	7	7					
Date	606.6.01						

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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. 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:

MECHANICAL	AND HAN	ND CLEARINE	OF ALL	VEEE	TATION	
COMPLETED	WITHIN	PERMISSIB	LE LIM	ITS. V	NATER	TRUCK
		FORE, DURINE				
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:

MILD WIND CONDITIONS. ALL HEAVY TRUCKS TARPED DURING TRANSPORTATION OF VEGETATION AND DERFIS.

Project start date: $\frac{9-3-2019}{2019}$		Project er	nd date:	9.19
Completed by: Name: MARTY LEMUS	_Title: _	FCCS	Date: _	9-13-79
Approved by: Name: John Rice	Title:	CS	Date:	9-13-19

W0#6292592

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

Impact Issue: Hydrology and Water Quality

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100

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:

SC1 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: \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:

EXOTIC VEGETATION REMOVED WAS TAMARISK

Biologist on site: XNo □ Yes	Date:	
Biologist Comments/Instructions:		
Completed by: Name: JUIS NONTES DE OCA	Title: Pulci	Date:9_9_19
Approved by: Name: MARTY LEMUS	Title: Fcc S	

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WO # 6292592

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM 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:

WORK DONE DUPINE DAVLIGHT HOURS IN COMPLIANCE WITH	F
LOCAL NOISE OFDENANCE. ALL EQUIPMENT AND VEHICLES	
EQUIPPED WITH PROPER EXHAUST DEVICES. NO WEEKEND	
WORK CONDUCTED.	

Disposition: $\sqrt{}$ 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 MO	NTES DE OGA	Title:	PWCL	Date: 9 2019
Approved by: Name: _	MARTY	LEMUS	Title: _	FCCS	Date: <u>9-13-19</u>

WORF 6292592

Los Angeles County Channel Maintenance Project Reach Name FOUNUET CANYON UPPER Mitigation Monitoring Program 101 Reach Number

Initial	2	ML	14	ML				
Comment	100 SF OF INVASIVES REMOVED	(TAMARISK)	NO CIMMOES	No Critans GES				
Noise	>	7	7	7				
H20	>	7	7	7				
Air	$\overline{}$	<u>`</u>	7	7				
Date	9-4-19	9-5-19	61-7-6	6-9-19				

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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 ALL VEGETATION COMPLETED WITHIN PERMISSIBLE LIMITS. WATER TRUCKS SPRAVED WATER BEFORE, DURING AND AFTER PROCEDURE 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:
MILD WIND CONDITIONS. ALL HEAVY TRUCKS TRUCKS TARPED DURING THE TRANSPORTATION OF VEGETATION AND DEBRIS.
Project start date: 9-3-2019 Project end date: 912-19
Completed by: Name: MARTY LEMUS Title: FCCS Date: 9-16-19 Approved by: Name: John RICE Title: CS Date: 9-16-19
Approved by: Name: JOHN RICE Title: CS Date: 9-16-19

Compliance Verification Form

Impact Issue	Hydrology	and Water	Quality	
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Trash/Debris Removed (Tons) 214.97

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50

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:

r ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
I ESC21 Dust Control	IV ESC22 Temporary Stream Crossing
FESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	└─ ESC52 Sand Bag Barriers

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:

EXOTIC VEGETATION REMOVED WA	S TAMARISK	
Biologist on site: XNo Yes	Date:	
Completed by: Name: LUIS MONTES DE OCA	THE R. 101	D-t (1) -1 (1)
Approved by: Name: <u>MARTY LEMUS</u>	Title: <u>PWCL</u> Title: <u>PccS</u>	_ Date: <u>9 12 1</u> 9 _ Date: <u>9 - 16 - 1</u> 9

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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. 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:

	NOISE OKDENANCE. 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.)
Comments/Rev	(Please explain below.)
Comments/Rev	(Please explain below.)
Comments/Rev	(Please explain below.)
	(Please explain below.)

Wo#6292592

Los Angeles County Channel Maintenance Project Reach Name BUUGUET CANYON MIDDLE Mitigation Monitoring Program Reach Number P- U9

Initial くう ML 50 SF OF INVASIVES REMOVED Comment (JSHAMALISK) NO CHANGES Noise H20 7 7 7 7 5 7 7 7 Air 9-4-19 9-5-19 61-9-6 9-12-19 Date 61-6-6 61-11-6 6-10-19

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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. 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 CLEARING OF ALL VECETATIONS
WITHIN PERMISSIBLE LIMITS COMPLETED. WATER TRUCKS
SPEAVED AT ALL TIMES DURING PROCEDURE 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/Revisio	ons:
MILD WIND	CONDITIONS. HEAVY TRUCK TAPPED DUP INC
THE TFANSPO	RTATION OF VECETATION AND DEBRIS.
Project start date:	9 10 · 19 Project end date: 9 12 · 19
Completed by: Nam	e: LUIS MONTES DEDCATITLE: PULCL Date: 9-13-19 : MARTY LEMUS Title: FCCS Date: 9-16-19
Approved by: Name	: <u>MARTY LEMUS</u> Title: FCCS Date: 9-16-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)37
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)

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	ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	ESC50 Silt Fence
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers

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:

Biologist on site: KNo Yes	Date:				
Biologist Comments/Instructions:					
Completed by: Name: LUIS MONTES DE OCA	Title: <u>PUCL</u>	Date: 91719			
Approved by: Name: MARTY LEMUS	Title: Fcc.s	Date:16-19			

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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. 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:

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d.
d.
<u>19</u> -19
-19

WO # 6292592

Los Angeles County Channel Maintenance Project Reach Name BURUET CANYON LOWER Mitigation Monitoring Program R = 70Reach Number

Initial	LN	M						
Comment	-NO INVASIVE PLANTS -							
Noise	\mathbf{r}	7						
H20	$\overline{}$	7						
Air		7						
Date	61-11-6	9-12-19					-	

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Compliance Verification Form

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 CLEARING OF VEGETATION WITHIN ALLOWABLE LIMITS CONDUCTED. MECHANICAL EQUIPMENT WAS USED AT DOWN STREAM HBC TO LOAD OUT VEGETATION AND DEBRIS.

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 TAKPED DURING NEGETATION. LOW WIND CO	ETRANSPORTATION OF JUITIONS SMPH.
Project start date: 9.30.2019	Project end date: 9 30 2019
Completed by: Name: 1015 footes ACO	Title: <u>RUCL</u> Date: <u>9:30</u> .2019
Approved by: Name: MARTY LEMUS	Title: FCL S Date: 10-2-2019

Compliance Verification Form

Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons)							
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)							
Location/Channel Reach#: Reach No. 72 South Fork - Santa Clara River T.G.: 4640-F2 (Smizer Ranch M.C.I.)								
vegetation and cutting invasive and trimm	clearing work will involve hand clearing dead ing riparian vegetation that would obstruct flows. Innel" path will be provided to convey flows.							
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:							
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>	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:	ES REMOVED FROM REACH							
Biologist on site: 🗙 No 🗆 Yes	Date: 9.30.2019							
Biologist Comments/Instructions:	8							
Completed by: Name: LUIS MONTES 3	EOCA Title: <u>PWCL</u> Date: <u>9.30.</u> 2019							
Approved by: Name: MARTY LEMUS								

 $P:\label{eq:linear} P:\label{eq:linear} P:\l$

Compliance Verification 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 WORK WAS CONDUCTED DURING DAYLIEHT HOURS AND WITHIN COMPLIANCE WITH LUCAL NOISE ORDINANCE NOWEEKEND WORK PERFORMED.

Disposition:	\checkmark	Mitigation measure has been in	plemented. No further	action is required.
		Mitigation measure is not fully (Please explain below.)	implemented. Further a	action is required.
		Mitigation measure is not in (Please explain below.)	compliance. Further a	ction is required.
Comments/	Revisi	ons:		
Completed b	y: Nam	NO: LUIS MONTES DE OCA	Title: PULCL	
Approved by	: Name	MARTY LEMUS	Title: <u>FCCS</u>	Date: <u>9.30.2</u> 019 Date: ¹⁰⁻²⁻²⁰¹ 9

Los Angeles County Channel Maintenance Project Reach Name SMIZER RANCH MCI Mitigation Monitoring Program

Reach Number 72 Reach Number 72

Initial	-W N						
Comment	REMOVED.	TAMARISK					
Noise				-			
H20	>						
Air		7					
Date	9-30-19						

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WO# 6292611

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 75 South Fork T.G.: 4640-F1 TO 450-G3 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:

LIMITS PERFORMED. MECHANICAL WORK WAS CONDUCTED TUERADE WATER COURSE LOW FLOW ALONG ENTIRE LENGTH OF REACH.

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: DUR INC PROJECT ACTIVIT	TES WE ENCOUNTER
LOUINIALD CONDITIONS, WATER TRUCKS SPRA	NED WATER TO MINIMIZE
DWT. HEAVY TRUCKS TARPED DURINE TRANS Project start date: Pro 9: 12.2019	SPORTATION OF VEGETATION
9. 12.2019	927:2019
Completed by: Name: JUIS MONTES FEUCA Title: PWC	$Date: \underline{9\cdot 30\cdot }019$
Approved by: Name: MARTY LEMUS Title: FC	CS Date: Date:

Compliance Verification Form

Impact Issue: Hydrology and Water Quality		Trash/Debris Removed (Tons) 4/9.15	
Mitigation Measure #: 2		Exotic Ve	g. Removed (Sq. Ft. <u>) 200</u>
Location/Channel Reach#:	Reach No. 75 South Santa Clara River	Fork	T.G.: 4640-F1 TO 450-G3

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.

(PD's 725, 916, 1041, & 1300)

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:

1

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
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:					
	TAMARISK A	NI) TOBACCO	INVASIVE		
PLANTS REMOVED A	= for reach.				
Biologist on site: 🛛 🗂 No	Yes	Date: 9.17.19			
Biologist Comments/Instructions: MINIMIZE WATER CROSSINE AND					
GRADE OUTLETS AT	A 45 DEEREE	PRIDE TO ME	CHANICALLY		
MOWINE OF VEGETI	ATION.				
Completed by: Name:2015	MONTES DE OCA	Title: PUCL	Date: <u>9·30·</u> 2019		
Approved by: Name: MARTY	Enus Title:	FCC S Date: 1	0-2-2019		

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

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 75 South Fork Santa Clara River (PD's 725, 916, 1041, & 1300)

T.G.: 4640-F1 TO 450-G3

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:

ALL WORK CONDUC	JED JUKINE DAVLIEHT HOUKS AND WITHIN	
COMPLIANCE OF	LOCAL NOISE OFDINANCE.	

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:

Completed by: Name: LUIS NONTES DEDUCA		_Date:9: <u>30:2</u> 019
Approved by: Name: MARTY LEMUS	Title: FCCS	Date: 10-2-2019

Reach Name SANTA CLAPISOUTHFORK) NV Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Number 75

Date	Air	H2O	Noise	Comment	Initial
9.12.19				200 SF OF INVASIVES	2
9.13.19	, ,	$\overline{}$	>	LEMOVED + ROW REACH.	5
9.16.19	>	>		TAMARISK -TOBACCO	LM
61. 61.6	>	>	\	BIDLUEIST BRIAN DANIELS ONSITE	15
9.18.19					CY
9.19.19		~			1
61.09.6		<u>\</u>			51
9.73.19	>	/			5
9.74.19	>	/			L
61.26.6	>	/			5
9. H. 19		>			LP
9.77.19	>	V		placet completed.	L L

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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 HOND CLEAFING OF ALL VEGETATION FROM BANK TO BANK INATER TRUCKS SPRANED WATER PRIOR AND DUFINE PROCEDURE TO

MINIMIZE DUST. WATER TRUCKS ON SITE AT ALL TIMES.

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:

TRANSPORTATION OF VEGETATION TO LANDFILL.

Project start date: 916.2019

Project end date: 9.19.2019

Completed by: Name	LUIS MONTES DEOC	ATitle: PUCL	Date:
Approved by: Name:	MARTY LEMUS	Title: Fecs	Date: 9-20-19

Compliance Verification Form

Impact Issue: Hydrology and Water Qual	-
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 76	Pico Canyon (PD 813) T.G.: 4550-F7 TO G7
Permit Requirements: The channel clea vegetation using mechanical equipment.	ring work will involve bank-to-bank removal of all
Description of Activity/Method of Impler Due to hydrological conditions in the rear following Best Management Practice were	nentation: ch during the vegetation clearing operations, the deemed to be applicable and were implemented:
ESC1 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 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: NO FLOWING	WATER IN REACH
Biologist on site: KNo ┌ Yes Biologist Comments/Instructions:	Date:
Completed by: Name: JUIS NONTES DE O	A Title: Pulch Date: 9-19-2019

Title: <u>Fees</u> Date: <u>9-20-19</u>

Approved by: Name: MARTY LEmus

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

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:

WOFK DONE DURINE DANLIEHT HOURS IN COMPLIANCE WITH LOCAL NOISE OFDINANCE, ALL EQUIPMENT AND VEHICLES EQUIPPED WITH PROPER EXHAUST DEVICES.

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:

Completed by: Name	LUIS MONTES DE QUA	Title: <u>fulc</u>	Date: <u>919 20</u> 19
Approved by: Name:	MARTY LEMUS	Title: Fees	Date: <u>9-20-19</u>

WOR 6292585

Los Angeles County Channel Maintenance Project Reach Name PICO CANYON CHANNEL Mitigation Monitoring Program Reach Number 2 7 Co.

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Wo#6292554

Compliance Verification Form

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:

COMPLETED	WITHIN PE	FMITTED	UMITS. W	ATER TRUCKS
ON SITE AT	ALL TIMES	TO SPRAY	WATEF A	NO 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:

LIGHT WIND CONDITIONS-NE 5MPH - ALL TRUCKS TARPED DUPING TRANSPORTATION OF VEGETATION.

Project start date: $\frac{9 \cdot 20 \cdot 19}{20 \cdot 19}$ Project end date: $\frac{9 \cdot 20 \cdot 19}{20 \cdot 19}$

Completed by: Name:	LUIS MONTES DE OCA	Title: PWCL	_Date: <u>9·20·1</u> 9
Approved by: Name: _	Marty Lemus #269380 Marty In	Title: FCCS	_Date: <u>9-23-1</u> 9

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Compliance Verification Form

Compliante	
Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 77	Newhall Creek Outlet T.G.: 4550-H6
Permit Requirements: <i>Mechanical equipment will be used to main</i>	tain the reach clear of all vegetation.
The vegetation (0.89 acre) that was allowe future maintenance activities.	ed to remain in 1997 shall not be impacted during
	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 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

Date: _____

Biologist Comments/Instructions:

Completed by: Name: LUIS LIONTES DE OCA	Title: PUCL	Date: <u>9 · 20 · 1</u> 9
Approved by: Name: Marty Jem	Title: <u>Fecs</u>	Date: <u>9-23-1</u> 9

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Compliance Verification Form

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:

ALL WORK CONDUCTED DUFINE DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCE. ALL HEAVY EQUIPMENT AND TRUCKS
EQUIPPED WITH PROPER EXHAUST DEVICES TO MINIMIZE NOISE.
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.)

Comments/Revisions:

Completed by: Name: JUIS NONTES DE OCA	Title: PULCL	Date: 9. 10. 19
in the	Title: <u>PCCS</u>	_Date: <u>9-23-19</u>

Wo#6292571

Compliance Verification Form

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:

MECHANICAL AND HAND CLEAPINE OF ALL VECETATION CONDUCTED WITHIN APPROVED LIMITS. WATER TRUCKS ON SITE 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.)

Comm	nents/Rev	isions: LICHT	NIND	CON	OITIONS -	SE 5MPH	
ALL	HEAVY	TRUCKS TAR	PED DO	PINE	TRANS POR.	TATION OF	
VEE	ETATI	ON.					

Project start date: $\frac{9 \cdot 20 \cdot 19}{20 \cdot 19}$ Project end date: $\frac{9 \cdot 20 \cdot 19}{20 \cdot 19}$

Completed by: Name: 1415	MONTES DE OCATITLE	: PULCL	Date:	9.20.19
Approved by: Name: May	Titl	e: FCCS	_ Date:	9-23-19

Compliance Verification Form

Impact Issue: Hydrology and Water Qua	lity Trash/Debris Removed (Tons) <u>10, 33</u> 70
Mitigation Measure #: 2	lity Trash/Debris Removed (Tons) <u>10, 33</u> ⊤0 Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No.78	
Permit Requirements: <i>Mechanical equipment will be used to mai</i>	ntain the reach clear of all vegetation.
The vegetation (0.01 acre) that was allow future maintenance activities.	red to remain in 1997 shall not be impacted during
	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
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	s not in compliance. Further action is required.
Comments/Revisions:	

Date: _____

Biologist Comments/Instructions:

Biologist on site: No

Completed by: Name: JUIS NONTES DE OG	Title: PWCL	Date: 9.20.19
Approved by: Name: Marty Jun	Title: <u>Fcc S</u>	Date:7

⊡ Yes

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Compliance Verification Form

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 WOFK DONE WPINE DAVLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE OF DINANCE NO WEEKEND WORK CONDUCTED.

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:

HEAVN TRUCKS AND EQUIPMENT ENT UPDATED EXAUST SYSTEMS TO MINIMIZE NOISE

	Title: PUCL	Date: 9.20.19
Approved by: Name: Marty Jun	Title: Fccs	Date: <u>9-23-19</u>

WO# 102926/1

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

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:

NECHANICAL AND HAND CLEARINE OF VEGETATION	
PERFORMED. WATER TRUCK ON SITE TO SPRAN 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:

HEAVY TRUCKS TARPED DURINE TRANSPORTATION DEBRIS/VEEETATION TO LANDFILL. 0F

Project start date: 9.27.2019

Project end date: 9272019

Completed by: Name: 1015 Mg	ONTES DEUCA	Aitle: PWCL	Date: <u>9:30.</u> 2-019
Approved by: Name: MARTY	LEMUS	Title: <u>FCCS</u>	Date: 10-2-2019

Compliance Verification Form

Impact Issue:	Hydrology	and	Water	Quality
---------------	-----------	-----	-------	---------

Trash/Debris Removed (Tons) <u>3.08</u>

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.)____

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:

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	TESC50 Silt Fence				
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
Disposition: <u>/</u> 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:

 Biologist on site:
 Image: Provide the second se

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

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:

Disposition: Mitigation measure has been implemented. No further action is required.	
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 PERFORMED.	
Completed by: Name: JUIS MONTES DE OCA Title: PUCL Date: 930.19	
Completed by: Name: <u>JUIS MONTES DE OCA</u> Title: <u>PUCL</u> Date: <u>930.19</u> Approved by: Name: <u>MARTY LEMUS</u> Title: <u>FCCS</u> Date: <u>10-2-20</u>	19

Los Angeles County Channel Maintenance Project Reach Name VALENCIA BLIDEE SHADLIZER Reach Number 79 Mitigation Monitoring Program

Initial	S							
Comment	NU INVASIVES FOUND ON REACH				•			
Noise								
H2O				3				
Air		7						
Date	61.LC.b							

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Compliance Verification Form

Impact Issue: Air Quality

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 CLEARINE OF NEGETATION
PERFORMED WITHIN ALLOWABLE LIMITS. WATER TRUCKS
ON SITE AND SPRANED WATER AS NEEDED TO MINIMIZE
DUST.
Disposition: Mitigation measure has been implemented. No further action is required.
Mitigation measure is not fully implemented. Eurther 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:	ON	WIND	CONDITIONS	25	MPH.	

Project start	date [.]	9.27.2019
i i ojoot otai t		

Project end date: 9.27.2019

Completed by: Name: LUIS MONTES DE OCH	ATitle: PWCL	Date: <u>9:30</u> : 2-019
Approved by: Name: MARTY LEMUS	Title: FccS	Date: 10-2-2019

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. 80 South (PD's 1947 & 1946)	Fork- Santa Clara River T.G.: 4550-F2			
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 that was allowed to remain in 1997 shall not be impact				
Description of Activity/Method of Implementat Due to hydrological conditions in the reach dur following Best Management Practice were deeme	ring the vegetation clearing operations, the			

F 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:

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Compliance Verification Form

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 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:

<u>ALL WOR</u> COMPLI	-K (or ANCE	OF LOCAL NOISE OFT	LIGHT HOURS AND DINIANCE	> WITHIN
Disposition:		Mitigation measure has been in Mitigation measure is not fully (Please explain below.)	implemented. Further	action is required.
Comments/	Revisi	Mitigation measure is not in (Please explain below.) ons:	compliance. Further a	iction is required.
NO WE	EKE	UD WORK PERFORM	IED.	
Completed b	y: Nam	ne: WIS MONTES DE OUS	Title: <u>fulcl</u>	Date: <u>9:30:20</u>]9
Approved by	: Name	MARTY LEMUS	Title: FCC S	Date: <u>1.30.70</u> [9 Date: <u>10-2-201</u> 9

Reach Name SUUTHFORK PU 1947/1940 Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Number 80

Commont	NO INVASIVES FOUND ON REACH.								
Noico			Э		-		-		
H2O				х					
Air		2							
Date	9.77.9							2	

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NO# 6292520

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

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 HANI) LABOK CON	npleted	TO	LEMOVE
VEGETATION	WITHIN	ALLOWABLE	LIMITS.	WAT	ER ON SITE
TO SPRAN WAT	ER FOR DU	ST CONTFOL	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:

LOW WIND CONDITIONS . 54PH . Project start date: 11.06.2019 Project end date: 1.06.2019 Completed by: Name: LIMONTES DE OGA Title: PWCL Date: 11.07.2019

Approved by: Name: M. LEMUS Title: FCCS Date: 11-8-19

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed	I (Tons) <u>4.97</u>		
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 💋		
Location/Channel Reach#: Reach No. 82 Santa Main Channel (PD 2)		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 Implementat				

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:

K ESC1 Scheduling	ESC2 Preservation of Existing Vegetation
Sec 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:

1

1		
Biologist on site: No 🗆 Yes	Date:	
Biologist Comments/Instructions:		
	Title: PwcL	
Completed by: Name:		Date: <u> • 7• 9</u>
Approved by: Name: <u>MARTY LEMUS</u> P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 82.doc	Title: <u>Fees</u>	Date:9

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

Compliance vehication

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 82 Santa Clara River T. 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:

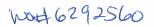
ALL WO WITHIN (fk u Domp	JAS CONDUCTED DURING CLANCE OF LOCAL NOISE	DAVLIGHT HOUGHS ODWINANCE	AND
Disposition:	✓	Mitigation measure has been Mitigation measure is not full (Please explain below.) Mitigation measure is not in (Please explain below.)	y implemented. Furthe	r action is required.
Comments/	Revisi	ions:		
		ne: <u>MONTES DE DE</u>	Title: $PwcL$ Title: $Fcc S$	Date: <u>11- 7-19</u> Date: <u>11- 8-1</u> 9

WO14 6292520

Los Angeles County Channel Maintenance Project Reach Name Short curle fire 1.1. 2278 Mitigation Monitoring Program 69 Reach Number

	Ş						
Initial	3						
Comment	NO INVESTIVE VEGETATION FOUND						
Noise	>						
H2O							
Air	>	2					
Date	61.01.11						

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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 EQUIPMENT USED TO CLEAR ALL VEGETATION ON REACH
WITHIN THE PERMIT LIMITS ALLOWED, WATER TRUCK WAS USED TO
MINIMIZED DUST AT ALL TIMES, DUMP TRUCKS WERE USED FOR REMOVING
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 WEATHER CONDITIONS AND CALM WINDS, FAUDRABLE CONDITIONS
DUPING MOWING WORK !
Project start date: 9-26-19 Project end date: 9-27-19
Completed by: Name: EMILIO NIELES-ORDANEZ: Title: PWCL Date: 9-26-19 Approved by: Name: MARTY LEMUS Title: FCCS Date: 10-7-19
Approved by: Name: MARTY LEMUS Title: FCES Date: 10-7-19

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Compliance Verification Form

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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. 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 romain in 1007 shall not be imported during									

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:

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
F ESC31 Temporary Drains and Swales	
F ESC51 Straw Bale Barriers	□ ESC52 Sand Bag Barriers

Disposition: <u>V</u> 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	Date:	
Biologist Comments/Instructions:		
Completed by: Name: EMILLO NIBLES-OFDONEL:	Title: PWCL	Date: 9-26-19
Approved by: Name: MARTY LEMUS	Title: FCCS	Date:126-7-19

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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:

WORK ACT	TUITIES PERFORM DUPING	DAYLIGHT ONLY	
WORKING I	N COMPLANCE UNDER LC	CAL NOISE OFDING	NCES,
VEHICLES	AND EQUIPMENT . WELL MAN	NTAIN AND NO	AFTERMARKET
EXHAUST.			
Disposition:	Mitigation measure has been in Mitigation measure is not full (Please explain below.)	y implemented. Further	action is required.
_	Mitigation measure is not in (Please explain below.)	compliance. Further a	action is required.
Comments/Re	visions:		
Completed by:	Name: EMILLO NIBES-ORDONEZ-	Title: PWCL	Date: <u>9-26</u> 19 Date: 10-7-19
Approved by: N	ame: MARTY LEMUS	Title: FeeS	Date:9

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

Reach Name VICUN CVN CHANNEL Reach Number 86

Initial	ONA							
Comment	NOINUASIVE PUNTS WERE FOUND.				•			
Noise	7							
H20	7							
Air	7	3						
Date	9-26-19							

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Compliance Verification Form

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 VEGETATION OF A 20-FOOT PATH FROM PUPPAD OUTLET WATER TRUCK WAS USED PRIOR TO VEGETATION REMOVAL TO KEEP THE RUST ROWN. WATER TRUCK REMAIN ON 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:

CLEAR DAY WITH NO WIND, ALL TRUCKS PAPPED DUPING TRANSPORTATION TO DUMP SITE.

Proiect start date:	10-10-19

Project end date: 10-15-19

Completed by: Name: Emilio	NIELES-OPDONEL	Title:	Date: 10-15-19
Approved by: Name: <u> </u>	Morillo		Date: 10/18/19

Compliance Verification Form

Impact Issue: Hydrology and Water Qua	lity Trash/Debris Removed (Tons)5_45									
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 20									
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 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:									
▼ESC1 Scheduling	ESC2 Preservation of Existing Vegetation									
ESC21 Dust Control	ESC22 Temporary Stream Crossing									
ESC31 Temporary Drains and Swales										
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	not fully implemented. Further action is required.									
Mitigation measure is (Please explain below)	s not in compliance. Further action is required.									
Comments/Revisions:										
Biologist on site: 🔽 No 🗆 Yes	Date:									
Biologist Comments/Instructions:										
	2.									
Completed by: Name: BMILLO NIBLES-OPPONE	Title: PWCL Date: 10-15-19									
Approved by: Name: Jose Murillo										

Compliance Verification Form

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:

LOCAL NOISE OPDINANCES ; TRUCK EQUIPPED WITH PROPER EXHAUST

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:

Completed by: Name: EMILIO WIERS-ORDINE	Title: PWCL	_Date: <u>10-1</u>
Approved by: Name: Jor Murillo	Title: <u>F.C.C.S</u>	

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name CDK 525.021 COTLET Reach Number Ferret 87

Initial	ENC							
Comment	20 Sa FT TAVIARISK REMOVED.				•			
Noise	7							
H20	7							
Air	7	2						
Date	10-10-10							 -

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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 HAND CLEARING OF ALL JEGETATION COMPLETED. HEAVY EQUIPMENT WAS UTILIZED TO LOAD TRIMMINES INTO DUMPTRUCK. WATER TRUCK ON SITE TO SPRAY WATER AS NEEDED TO MINIMIZE OUST.

Disposition:	Mitigation measure has b	een implemented. No f	further action is required.	
	Mitigation measure is not (Please explain below.)	t fully implemented. F	urther action is required.	
	Mitigation measure is no (Please explain below.)	ot in compliance. Fu	rther action is required.	
Comments/Revisions:				
LOW WIND CONDITIONS. NO DUST LEFT PROJECT SITE.				
Project start date:	10.29.19	Project end d	late: 10. 29.19	
Completed by: Nam	ne: LUIS MONTES DE D GA	Title: PWCL	Date: 10.29.19	
Approved by: Name	HARTY LEMUS	Title: <u>FCCS</u>	Date: <u>10-30-19</u>	

Compliance Verification Form

Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons) - 20 BAES			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
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 Imple Due to hydrological conditions in the rea following Best Management Practice were	mentation: 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 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)	s not in compliance. Further action is required. .)			
Comments/Revisions: 10 SQUARE FEET OF TOBALCO REMOVED FROM				
LENETH OF REACHT.				
Biologist on site: ☑No □Yes	Date:			
Biologist Comments/Instructions:				
Completed by: Name: LUIS MONTES DE O	Title: Pulce Date: 10-29-19			
Approved by: Name: MARTY LEmus				

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Compliance Verification Form

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:

COMPLIANCE OF LOCAL NOISE OPDINANCE			
Disposition:	, Mitigation measure has been ir Mitigation measure is not fully		
	(Please explain below.)	compliance Further	nation is usually d
	Mitigation measure is not in (Please explain below.)	compliance. Further	action is required.
Comments/Revis	ions:		
NO WORK WAS CON	MMENCED PRIOR TO TODAM		
Completed by: Nar	me: LUIS MONTES DE O CA	Title: <u>PWCL</u>	Date: 10.29.19
Approved by: Nam	e: MARTY LEMUS	Title: <u>PWCL</u> Title: <u>FccS</u>	Date: <u>10-29</u> -19 Date: <u>10-30-</u> 19

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 LABOR TO) REMOVE VEGETATION	COMPLETED.		
WATER TRUCK ON	SITE TO SPRAY WATER	AS NEEDED TO	MINIMIZE	DUST
Disposition:	Mitigation measure has be	en implemented. N	lo further actio	n is required.
	Mitigation measure is not (Please explain below.)	fully implemented.	Further actic	on is required.
	Mitigation measure is not (Please explain below.)	t in compliance.	Further action	n is required.
Comments/Revisi	ons:			
LOW WIND CON	IDITIONS.			
Project start date:	10 29 19	Project en	d date: <u>10- 2</u> '	9.19
Completed by: Nan	ne: LUIS MONTES DE OGA e: MARTY LEMUS	Title: PwcL	Date: <u>10</u>	29.19
Approved by: Name	: MARTY LEMUS	Title: Fecs	Date: <u>/</u> C	1-30-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) 7.76 TONS			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10			
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 lab	bor 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: 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	SC2 Preservation of Existing Vegetation			
ESC21 Dust Control	SC22 Temporary Stream Crossing			
ESC31 Temporary Drains and Swales ESC50 Silt Fence				
ESC51 Straw Bale Barriers				
Disposition: Mitigation measure has been implemented. No further action is required.				
Mitigation measure is not (Please explain below.)	fully implemented. Further action is required.			
Mitigation measure is not in compliance. Further action is required. (Please explain below.)				
Comments/Revisions: 10 SQUAFE FEET OF INVASIVE VEGETATION				
REMOLED FROM REACH (TOBACCO)				
Biologist on site: ☑No □Yes	Date:			
Biologist Comments/Instructions:				
Completed by: Name: LUIS MONTES DEEG	A Title: <u>Pulce</u> Date: <u>10-30-19</u> Title: <u>Fees</u> Date: <u>10-30-19</u>			
Approved by: Name: MARTY LEMUS	Title: <u>Fees</u> Date: <u>10-30-19</u>			

 $P:\label{eq:point} P:\label{eq:point} P:\label{eq$

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	comp	LETED	DUKINE	DAULIEHT	HOURSAND	WITHIN	
COMPL	IANCE	OF	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:

NO SMALL POWER TOOLS	WERE STARTED PRIOR TO TODAM.

Completed by: Name: LUIS MONTES DEOGA	Title: PWCL	_Date:10.29.19
Approved by: Name: MARTY LEMUS	Title: FccS	_ Date: <u>10-30-</u> 19

Woff 6292653

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:

HAND LABOR COMPLETED TO REMOVE NEETATION HEAVY EQUIPMENT
WAS UTILIZED TO LOAD TRIMMINES INTO HEAVY TRUCKS.
WATER TRUCK ON SITE TO SPAY WATER AS NEEDED TO MINIMIZE
JUST. DUMP TRUCK TARPED DURING TRANSPORTATION OF DEBRIS/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:

LOW WIND CONDITIONS. NO DUST LEFT PROJECT SITE.

 Project start date:
 10-29-19

 Project end date:
 10-29-19

 Completed by: Name:
 1015 MONTES DE DOA

 Title:
 FCC S

 Date:
 10-29-19

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Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 10 bacs

Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) <u></u>			
Location/Channel Reach#: Reach No. 90 (North Fork R		T.G.: 4459-C3		
Permit Requirements: The channel clear removal of vegetation. Portions of the channel earthen bank vegetated, clusters of mature g was left in November 1997.	el bottom will be denuded of veg	etation while leaving the		
The vegetation (0.19 acre) that was allowed maintenance activities.	to remain in 1997 shall not be	impacted during future		
Description of Activity/Method of Imple Due to hydrological conditions in the rea following Best Management Practice were	ach during the vegetation cle	earing operations, the were implemented:		
ESC1 Scheduling	ESC2 Preservation of Ex	kisting Vegetation		
ESC21 Dust Control	ESC22 Temporary Strea			
ESC31 Temporary Drains and Swales	ESC50 Silt Fence	-		
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barrie	rs		
(Please explain below Mitigation measure is	not fully implemented. Furth .) s not in compliance. Furthe	ner action is required.		
(Please explain below Comments/Revisions:	,			
(TOBACCO) FROM LENA	ET OF VEGETATION RE	EMONED		
Biologist on site: No Ses	Date:			
Completed by: Name: LUS MONTES DE		Date: 10-29-10		
Approved by: Name: MARTY LEMUS	Title:	Date: <u>10-30-</u> (9		

 $P:\label{eq:point} P:\label{eq:point} P:\label{eq$

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:

COMPLIA	INCE	OF LOCAL NOISE ORDINA	4NCC.	
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	/Revisi	ons:		
Completed	by: Nar	ne: LUIS MONTES DE OGA	Title: Jule L	Date: <u>10:29:19</u>
Approved b	y: Nam	e: MARTY LEMUS	Title: Fec.5	Date: <u>102919</u> Date: <u>10-30-</u> 19

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Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name HASLEN ENN CH Reach Number 88 89 90

Initial	Ľ.							
Comment	40 SOUPPE FEET OF INVASIVE	VECETATION REMOVED (TOBALLO)						
Noise	\mathbf{i}							
H20	>					s		
Air	>	-						
Date	61.96.01							And the second s

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WO # 6292449

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:

ALL VELETATION REMOVED WITHIN PIPE AND WIRE

WATER TRUCK ON SITE TO SPRAY 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:

LIEHT WIND CONDITIONS, NO PROJECT DUST LEFT JOBSITE.

Project start date: 104 2019

Project end date:	1	04	2019
-------------------	---	----	------

Completed by: Name	L MONTES DE OGR	Title: PWCL	Date: 11 04 19
Approved by: Name:	MARTY LEMUS	Title: FCCS	_Date: <u>//-6-1</u> 9

Compliance Verification Form

Impact Issue: Hydrology and Water Qualit	y Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10 SF
Location/Channel Reach#: Reach No. 91 S U/S of Kenings	an Martinez Chiquito T.G.: 4459-A6 TO B6 ston Rd
Permit Requirements: The channel clearing work will involve rem channel using hand labor, but the embankm	oval of all the vegetation within the pipe and wire ent vegetation will be left in place.
Description of Activity/Method of Implem Due to hydrological conditions in the reac following Best Management Practice were d	entation: n during the vegetation clearing operations, the eemed 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.)	ot fully implemented. Further action is required.
Mitigation measure is (Please explain below.)	not in compliance. Further action is required.
Comments/Revisions:	ET OF INVASIVE VEGETATION
REMOVED (TAMARISK)	
Biologist on site:	Date:
Biologist Comments/Instructions:	
Completed by: Name: LIMONTES DE OC	△ Title: <u>Pulce</u> Date: <u>11.04.19</u>
Approved by: Name: MARTY LEMUS	

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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 WAS COMPLETED DUFINE DAYLIGHT HOURS AND WITHIN COMPLIANCE OF LOCAL 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:

NO POWER TOOLS WERE STAFTED PRIOF TO TODAM.

Completed by: Name: L. MONTES DE O 93	Title: Puxcl	Date: 11 04 19
Approved by: Name: MARTY LEMUS	Title: <u>Fcc S</u>	Date: 11-6-19

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:

ALL VEGETATION WITHIN FIPE AND WIRE REMOVED. WATER TRUCK ON SITE TO SPRAY 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:

NO DUST LEFT JOBSITE, AS WATER TRUCK SPRAYED WATER

PRIOR TO STARTINE ANY WORK.

Project start date: 11-04-19 Project end date: 11-04-19

Completed by: Name	L'MONTES DE OGA	Title: PWCL	Date: 11 04 19
Approved by: Name:	MARTY LEMUS	Title: Fccs	Date: 11-6-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.) 10 SF
Location/Channel Reach#: Reach No. 92 San Unnamed tributar	Martinez Chiquito T.G.: 4459-A6 TO B6 y 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:

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.)

Comments/Revisions:	OF VEGETATION ZEAC	DUED.
(TAMARISK		
Biologist on site:	Date:	
Biologist Comments/Instructions:		
		
Completed by: Name: <u>MONTES DE D GA</u>	Title: <u>Pucc</u>	Date: <u>// 04-19</u>
Approved by: Name: MARTY LEMUS	Title: Fccs	Date: <u></u>

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Compliance Verification Form

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 WORL WAS CONDUCTED DUFINE DAYLIEHT HOURS AND WITHIN COMPLIANCE OF LOCAL NOISE OFDINANCE

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:

NO POWER TOOLS WER'E STARTED PRIOF TO 7:00AM.

Completed by: Name: L. MONTES DE O GA	Title: Pwcc	Date: 11-04-19
Approved by: Name: MARTY LEMUS	Title: Fcc_S	Date: 11-6-19



Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

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:

HAND LABOR TO REMOVE VECETATION WITHIN PIPE AND WIFE COMPLETED WATER TRUCK 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:

LOW WIND CONDITIONS 5 MPH

Project start date: 104 19

Project	end	date:	11.05.19
	9119		

Completed by: Name:	L. MONTE	S AEO GA	Title: PWCL	Date: <u>11.05.19</u>
Approved by: Name:	MARTY	LEMUS	Title: FccS	_Date: <u>//-7-/9</u>

Compliance Verification Form

Impact Issue: Hydrology and Water Qual	ity Trash/Debris Removed (Tons) <u>10 BA€S</u>			
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)			
Location/Channel Reach#: Reach No. 93 Keningston F	San Martinez Chiquito T.G.: 4459 - B6 Rd to Val Verde Park			
Permit Requirements: The channel clearing work will involve ren channel using hand labor, but the embank	noval of all the vegetation within the pipe and wire ment vegetation will be left in place.			
	mentation: the during the vegetation clearing operations, the deemed to be applicable and were implemented:			
R√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	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)	s not in compliance. Further action is required.			
Comments/Revisions: NO INVASIVE VEGETATION FOUND ON REACH				
Biologist on site:	Date:			
Biologist Comments/Instructions:				
Completed by: Name: L MONTES & 0 4	Title: PUCL Date: 11-5-19 Title: FCCS Date: 11-7-19			
Approved by: Name: MARTY LEMUS	Title: <u>Fccs</u> Date: <u>11-7-19</u>			

Approved by: Name: MARTY LEMUS

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Compliance Verification Form

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 WAS CONDUCTED DOFINE DANLIGHT HOUKS AND WITHIN COMPLIANCE OF LOCAL 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:

NO POWER TOOLS WERE STAFTED PRIOR TO 7:00AM.

Completed by: Name: L MUNTES DEO GA

Approved by: Name: MARTY LEMUS

Title: PMCL	Date: <u>// 5.19</u>
Title: <u>FCCS</u>	Date: _//7-19

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WOH 6292449

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 94 San Martinez Chiquito T.G.: 4459 - C6 TO D7 Val Verde Park to D/S of Madison St

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 V	ELETAT	ION WI	THIN PIPE	AND WIKE REA	MOVED.
				N WATER AS N	
TOMI	NIMIZE	DUSTFRO	M LEAVING	JOBS ITE	

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 5MPH.

Project start date: 1. 5.19

Project end date: $\frac{d^{1}}{dt}$	5.19
--------------------------------------	------

Completed by: Name: L MONTES	Title: POLCL	Date: <u>11- 5- 19</u>
Approved by: Name: MARTY LE	Title: FCCS	Date: 11-7-19

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons) <u> </u>
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach#: Reach No. 94 San Val Verde Park to	Martinez Chiquito T.G.: 4459 - C6 TO D7 D/S of Madison St
Permit Pequirementer	

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:	🦲 Mitigatio	on measure h	as 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	INVASIVE	VEEETATION	FOUND ON
	LEN	STIT OF RE	EACH	
Biologist on site: KNo	ΓY	es	Date:	
Biologist Comments/Ins	tructior	IS:		
Completed by: Name:	MONT	ES DEOGA	Title: 10CL	Date: 1. 5.19
Approved by: Name: <u>MA</u>	RTY L	EMUS	Title: FccS	Date: 11-7-19

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Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 94 San Martinez Chiquito T.G.: 4459 - C6 TO D7 Val Verde Park to D/S of Madison St

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 WAS COMPLETED DURING DAVLIENT HOURS AND WITHIN COMPLIANCE OF LOCAL NOISE OF DINANCE.

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:

NO POWER TOOLS WERE STARTED PRIOF TO TODAM.

Completed by: Name: L. MONTES DE OGA Title: PUCL Date: 11519

Approved by: Name: MARTY LEmms

litle:	PWCL	Date:	11.5.14
Title:	FCCS	Date:	11-7-19

WULE 6292499

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program 94 Reach Name SAN MAFTINEZ Reach Number 91 92 93 6

		h	-	1	 		 	
To:tion		LY						
Commont	Ferrout) 20 SQUALF FEET	OF VECETATION (TAMARISK)						
Noise	7	7						
H20	7	7						
Air	7	7						
Date	11-04-19	1.05.19						

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3

WO# 6293763

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM 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 LABOR COMPLETED TO REMOVE VECETATION WITHIN PIPE AND WIRE. WATER TRUCK ON SITE TO SPRAN WATER AS NEEDED FOR DUST CONTROL PURPOSES.

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:

LOW WIND CONDITIONS 5 MPH.

Project start date: 11.12.2019

Project end	date:	1.12	2019
I I UJECI EIIU	uale		

Completed by: Name: L. MONTES DE OGA	Title: PWCL	Date: 112 2019
Approved by: Name: MARTY LEMUS	Title: FccS	Date: 11-13-19

Impact Issue: Hydrology and Water Quali	y Trash/Debris Removed (Tons) 20 6AC 5						
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)Ø						
Location/Channel Reach#: Reach No. 95	Project No. 1224 T.G.: 4087 - H5						
	noval of all vegetation within the pipe and wire the embankment vegetation will be left in place.						
	entation: h during the vegetation clearing operations, the eemed 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 (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: NO INVASIVE JEGETATION FOUND ON REACH							
Biologist on site: ₩No □Yes	Date:						
Biologist Comments/Instructions:							
Completed by: Name: L'MONTES DE OCA	Title: PwcL Date: 11 12 2019						
Approved by: Name: MARTY LEMUS	Title: <u>Fccs</u> Date: <u>11-13-19</u>						

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 OPERATIONS COM	PLETED DUPING DAVLIEHT HOURS
AND WITHIN COMPLIANCE OF L	OGAL NOISE OFDINANCE.
Disposition: <a>✓ Mitigation measure	has been implemented. No further action is required.
Mitigation measure (Please explain belo	is not fully implemented. Further action is required.
Mitigation measure (Please explain belo	is not in compliance. Further action is required. ow.)
Comments/Revisions:	
NO WORK WAS COMMENCED PA	LIOR TO TODAM.
Completed by: Name: MONTES DE O	\boldsymbol{M} Title: \boldsymbol{PwcL} Date: $l \cdot \boldsymbol{J} \cdot \boldsymbol{J} \cdot \boldsymbol{J} \cdot \boldsymbol{O}$ Title: \boldsymbol{FccS} Date: $l - 13 - 19$
Approved by: Name: MARTY LEMIS	Title: <u>Fccs</u> Date: <u>11-13-19</u>

Wo# 6293763

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name PROJECT 13-4 90 Reach Number

Initial	LA						
Comment	NO INVASIVE VECETATION FOUND ON PEACH.						
Noise	>						
H20	>						
Air							
Date	11. 13. 19						

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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:

Hand looded all regetation onto Trucks so that we can keep dust to a minimum. 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: _____9-20-2019 Project end date: _____9/26/19 Completed by: Name: Hoy Lumosh Title: Crew Leader Date: 9/26/19 Title: Date: Approved by: Name:

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)1 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:

ESC1 Scheduling	FESC2 Preservation of Existing Vegetation
F ESC21 Dust Control	□ ESC22 Temporary Stream Crossing
ESC31 Temporary Drains and Swales	FESC50 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: Laued down	n Boom at End of Beach
before Job started.	
Biologist on site: ☑No □ Yes	Date:
Biologist Comments/Instructions:	
Completed by: Name: Day Aumos h Approved by: Name: Balazar Norm	Title: <u>Crewheader</u> Date: <u>9/26/19</u> Title: <u>FCC5</u> Date: <u>9/27/19</u>
Approved by: Name: Balance Notani P: fldpub West Hansen Mitigation Monitoring Forms Reach 96.doc	Title: <u>FCC5</u> Date: <u>9/27/19</u>

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:

FONER Took FIHED with MULLERS AND SPARK ARRESTORS. 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 Muizilla
 Title:
 Creation Leader Date: 9

 Approved by: Name:
 Balazar Maran
 Title:
 Fees
 Date: 9

Reach Name Ory Conyon (Colabosos) (PD 1591) = Uicasa Reach Number # QI Los Angeles County Channel Maintenance Project Mitigation Monitoring Program

	prosection prosec	P.L	R A	SZ	R	V UL		· · · · · · · · · · · · · · · · · · ·			•	
		:					-	-			•	
216	Comment	Leyed down Booms at end of freach										
d-	Noise	7					Montemportunity and the analysis and the second secon		nameters of a sector matrix state and the sector state of the	A CANADA A		and the second s
	071	7										 It is a statement of the st
				/	7	/						
	Date	9/20	1/21	9/24	9/25	3/210						

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Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

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:

EQUIPMENT USED ON CLEARING OF ALL VEGETATION WITHIN 20 'LIMIT. WATER TRUCK USED ANOR TO VEGETATION REMOVAL IN OFFICE TO MINIMIZED BUST. WATER TRUCK WAS USED AS NEEDED.

Disposition:	\checkmark	Mitigation measure has b	een implemented. N	o 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. F	Further action is required.
Comments/F	Revisio	ons:		
SUNNY DAY	L, NO	WIND GOOD WORKING	CONDITIONS OUBLALL	La a
Project start	date:	10-17-19	Project end	l date:
Completed by	y: Nam	IC: EMILIO NIELES OFDONES	Title: PWCL	Date: 10-17-19
Approved by:	Name	Marty Lemus #269380	Title: FCCS	Date: 10.22 19

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Compliance Verification Form

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:

WORK PERFORMED DURING PAYLIGHT HOURS ONLY IN COMPLIANCE

WITH LOCAL NOISE OPDINANCES, EQUIPMENT & TRUCKS USED ALL EQUIPPED

Disposition:	\checkmark	Mitigation measure has been	implemented. No further	action is required.
		Mitigation measure is not ful (Please explain below.)	lly implemented. Further	action is required.
	. <u> </u>	Mitigation measure is not i (Please explain below.)	n compliance. Further a	action is required.
Comments/I	Revisi	ons:		
		Marty Lemus #269380	Title: PWCL Title: FCCS	Date: <u>10-17-19</u> Date: <u>11-22-1</u> 0

Compliance Verification Form

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons)

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft) NONE

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:

Completed by: Name: EMILIO MIELES-OPOCIE Marty Lemus #2693 Approved by: Name: P:\fldpub\West\Hansen\Mitigation Monitoring Forms\Reach 97.doc	Title: PWCL Title: FCCS	Date: <u>10-17-1</u> 9 Date: <u>10 - 22-</u> 19			
Biologist Comments/Instructions:					
Biologist on site: ☑No □ Yes	Date:				
Mitigation measure is (Please explain below.) Comments/Revisions:	not in compliance. Further a	action is required.			
Mitigation measure is (Please explain below.)	not fully implemented. Further)	action is required.			
Disposition: <u> </u> Mitigation measure has	been implemented. No further	action is required.			
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers				
ESC31 Temporary Drains and Swales	ESC50 Silt Fence				
FESC21 Dust Control	ESC22 Temporary Stream Crossing				
ESC1 Scheduling	ESC2 Preservation of Existi	ng Vegetation			

Will by more surveyed Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name PD 1982 / USAIC CREEK Reach Number 07

	Initial	ENO							
2	Comment	NO INVASIVE PUNTS IMPREFUCINID.				•			
	Noise	7							
	H20	7							
	Air	7	,						
	Date	61-F1-01							

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Marty Lemus #269380

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: 10-10-19

Project end date: 10-10-19

Completed by: Name:	Nik Reppuhn
	1)4
Approved by: Name:	(42

Title: Assoc. Civil Engr. Date: 3-12-2020

Title: Principal Engr Date: 3-12-2020

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)	10
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)_	10
Location/Channel Reach#: Reach No. 98 Walnu	t Creek - Channel Inlet T.G	і.: 599-Е6

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:
^{IV} No
^{IV} Yes

Date: _____

Biologist Comments/Instructions: None

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

Approved by: Name:

Title: Assoc. Civil Engr. Date: 3-12-2020 Title: Principal Engr Date: 3-12-2020

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 98 Walnut Creek - Channel Inlet

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: Nik Reppuhn

Approved by: Name:

Title: Assoc. Civil Engr. Date: 3-12-2020

T.G.: 599-E6

Title: Principal Engr Date: 3-12-2020

Compliance Verification Form

Impact Issue: Noise

Mitigation Measure #: 3

Location/Channel Reach#: Reach No. 99 Kagel Canyon T.G.: 482- J5 TO J7

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 i	mplemented. No further	action is required.
	Mitigation measure is not fully (Please explain below.)	y implemented. Further	action is required.
	Mitigation measure is not in (Please explain below.)	compliance. Further a	ction is required.
Comments/Revis	ions:		
VEGEN	MON AND TRIMMING	WAS PERFORMED	BY
USTNS HAN	DTOOLS AND 2-CTCLE	SENGINE TRIMA	MERS
VEGEMMENT	WOTTER LIMBS WAS PULLE	OOVT WITH TARP	5
Completed by: Na	me: <u>MICHAEL SEGUIN</u>	Title: <i>PWCL</i>	Date: <u>/0/23/2019</u>
Approved by: Nam	ne: MANAILIO TORRES	Title: \underline{FCCS}	Date:/ <u>0/23/20</u> /9
	HECTOR SANCHEZ	FCCS	10/23/2019

Compliance Verification Form

Impact Issue: Hydrology and Water Quality	Trash/Debris Removed (Tons)6					
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)					
Location/Channel Reach#: Reach No. 99 Kagel	Canyon T.G.: 482- J5 TO J7					
Permit Requirements: Hand clearing work will be performed to keep all vegetation clear in this reach.						
Description of Activity/Method of Implementa Due to hydrological conditions in the reach due following Best Management Practice were deeme	ring the vegetation clearing operations, the					
ESC1 Scheduling	SC2 Preservation of Existing Vegetation					
ESC21 Dust Control	SC22 Temporary Stream Crossing					
	SC50 Silt Fence					
ESC51 Straw Bale Barriers	ESC52 Sand Bag Barriers					
Disposition: Mitigation measure has been						
Mitigation measure is not fu (Please explain below.)	lly implemented. Further action is required.					
Mitigation measure is not (Please explain below.)	in compliance. Further action is required.					
Comments/Revisions:	FAD VEGETATION From					
WATER.						
Biologist on site:	Date: 9/3/2019					
Biologist Comments/Instructions:	O AVOYAN					
EVALUNTED SURFACE WATER Flow, MONITORING AND SAMLING						
Completed by: Name: MAURILIO TORRES	Title: <u>FCCS</u> Date: 9/3/2019					
Approved by: Name: Mauniliso Tennes	Title: <u>FCCS</u> Date: <u>9/3/2019</u>					

Compliance Verification Form

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 99 Kagel Canyon T.G.: 482- J5 TO J7

Permit Requirements:

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

Description of Activity/Method of Implementation:

VEGETATION, TREE LIMBS, VINES AND WEEDS CUT AND TRIMMED, CHOPPED USING HAND TOOLS

Disposition: Kitigation 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:

USED 2-CYCLE TRIM.	MERS AND HAND TOO	15
All VEGETATION WAS	CARRY OUT USING	TARPS

Project start date: 9/6/2019

Project end date: 10/23/2019

UNDER GTOUND CTEW Completed by: Name: <u>Alfflowse Romain</u>	Title:	PWCL	Date: <u>10/23</u> /2019
Approved by: Name: MAURILIO TORRES	Title:	FLES	Date: <u>/0/23/</u> 2019

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:

Most OF THE CHEARING WAS DONE BY HAMD AND FEW POWER TOOLS WERE USED. All DOWER TOOLS SUCHAS WEED ENTERS, HEIGE TRIMMERS HWD CHAINSHUS ARE FITTED WITH ADDRIVED FXHAUST.

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:

Basm WAS PHIEED AT END OF WATER, NO Flow,	ZEACH, JUST SOME STANDING
Project start date: 11/26/19	Project end date: 11/2/6/19
Completed by: Name: <u>RYAN MURILO</u> Approved by: Name: <u>Baltazar Morens</u>	_ Title: <u>[REW LEADER</u> Date: <u>11/26/</u> 19 Title: <u>FCES</u> Date: <u>11/27/</u> 19

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

Compliance Verification Form

Internet lesses likeling in the state of the form	
Impact Issue: Hydrology and Water Qualit	
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)
Location/Channel Reach #: Reach No.100 I	Dry Canyon Calabasas T.G.: 559-G4
Permit Requirements: The channel clearing work will involve hand vegetation will be left in place.	l clearing all vegetation at the channel inlet. Bank
Description of Activity/Method of Implem Due to hydrological conditions in the reac following Best Management Practice were d	entation: the vegetation clearing operations, the eemed 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	FESC50 Silt Fence
ESC51 Straw Bale Barriers	F ESC52 Sand Bag Barriers
Mitigation measure is n (Please explain below.) Mitigation measure is (Please explain below.) Comments/Revisions:	been implemented. No further action is required. ot fully implemented. Further action is required. not in compliance. Further action is required.
No Flow,	7
Biologist on site:	Date:
Completed by: Name: <u>Rythe Murillo</u> Approved by: Name: Baltgzar Mareni	Title: <u>FCCS</u> Date: <u>11/27/19</u> Title: <u>FCCS</u> Date: <u>11/27/19</u>

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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:

MOST CLEHRING WAS DONE BY HAMD, FEW DOWER TOOLS USED, All DOWER TOUS SUCH AS HEDGE TRIMMERS, WEED EATERS AND CHAIN SAWS ALE FITTED WITH APPROVED MILTERS,

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 PLACED AT END OF REACH, WATER, NO FLOW.	JUST SOME STANDING
Completed by: Name: <u>Ryan Murullo</u> Approved by: Name: <u>BaHazar Muteno</u>	Title: <u>CREW LEAPER</u> Date: <u>11/24/9</u> Title: <u>FCCS</u> Date: <u>11/27/1</u>
Approved by: Name: VaHqZaI VIOENO	Title: <u>FCC5</u> Date: <u>1 27</u>

Impact Issue: Air Quality

的每位293780

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	- ANI	D HAND WORK CLEAR	ING OF	ALL VEGETA	TION WITHIN TH	E
CHANNEL 1	NATER	L'TRUCK SPRAYED WP	TER PRI	OR TO VEBE	TATION REMUNE	
AND KEEPED	TF	OR DUST CONTROL OF	JSITE	AND USED	AS NEEDED.	
Disposition:	\checkmark	Mitigation measure has I	been imp	plemented. No	o further action is r	equired.
		Mitigation measure is no (Please explain below.)	ot fully i	mplemented.	Further action is	required.
		Mitigation measure is r (Please explain below.)	not in c	ompliance. F	urther action is	required.
Comments/R	evisio	ns:				
WIND CONT	NOTIC	S WERE MILD RU	PING F	nowing k	ND DUST WAS P	EALLY LOW
·						
Project start	date:	10-30-19		Project end	date: 11-13-19	
Completed by	: Name	EMILO N'ELES-OPDON	₂ Title: _	PWCL	Date: 10-30	2-19
Approved by:	Name:	MARTY LEMUS	Title:	FLCS	Date: 11/14	119

Impact Issue: Hydrology and Wa	ater Quality Trash/Debris Removed (Tons)	0
Mitigation Measure #: 2	Exotic Veg. Removed (Sq. Ft.)	8
Location/Channel Reach #:	Reach No. 108 – Pico Canyon Channel – PD 252 T.G.: 4640-C1 to C7	8

Permit Requirements:

1

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>Mitigation measure has been implemented.</u> 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

Date:

Biologist Comments/Instructions:

Completed by: Name: BAILO NIBLES-OPDONES	Title: _	PWCL	Date: 10-30-19
Approved by: Name: MARTY LEMUS	Title: _	FCCS	Date: 11/14/19

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 PONE DURING DAYLIGHT HOURS ONLY, EQUIPMENT EQUIPPED

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: BMILLO NIELES-OPPONE.	Title: PWCL	Date: 10-30-19
Approved by: Name: MARTY LEMUS	Title: Fres	Date: 11/14/19

WOR 6293780

REACH # 108 PLG CVN CHANNEL Los Angeles County Channel Maintenance Project Mitigation Monitoring Program 201 Reach Name Reach Number

Date	Air	H20	Noise	Comment	Initial
10/30/19	7	7	7		ENO
1013/19	2	7	2		ENO
11/01/19	2	2	2		ENC
11/04/19	7	2	2		ENO
11 loslia	>	7	7		ENO
11/06/19	7	>	2		END
pilrolin	7	7	7		ENO
11 08/19	7	7	7		ER
11/12/19	7	7	7		ENO
11/13/19	7	7	7		ENC

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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:

\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. See Attached Community Flyer

Project Start Date: 12/09/19

Project End Date: 12/16/19

	Completed by: 🖌
Name:	Mike Stephenson
Title:	Construction Superintendent
Date:	6-23-20

2	QC	Approved by:
	Name:	KM Lalag.
	Title:	AAE
	Date:	7/28/2020

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	15.48	

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:

✓ 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.

Completed by:

		_
Name:	Mike Stephenson	
Title:	Construction Superintendent	
Date:	6-23-20	

Val	Approved by:
J	ρ /
Name:	KM LACAY.
Title:	AAE '
Date:	7/28/2020

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:

Name:	Kon Lacay.
tarno.	
Title:	AAE
Date:	7/28/2020
-	Title:

Los Angeles County Channel Maintenance Project Mitigation Monitoring Program Reach Name <u>Ballona Creek Upper</u> Reach Number <u>112</u>

Initial	kit S	25	s d	S di	2		t st			
Comment	MODERNE CENTIMELA AVE HEADING D/S "PICH BAK'PS	Continued the noine DIS Towned	CREW FINISFIED P CLTT H	MURGATE CENTINELA AVE HEADING NE DET 2, 10 S	OPEN CONTUNED CUTTING LEFT BANK		MUDERATE & FICKING UP ALL VEC.			
Noise	MODEPHIE	MODEPHIE	MODERARE	MUDERATE	HUDERATE	N. S. C. M.	MUDERATE			
H20	GUOD	Cont	Cwn	600 D	600.0	a Cuce	600D			
Air	0003	Guop	God	ewo	600D		600 1			
Date	61-6-21	12-10-19 GOOD	61-11-21	12-12-19 6000	12-13-19 600D	- 24	12-16-19 EWD			

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. A boom with a silt curtain will be installed to prevent sediment from entering the water column 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 (Orozco) 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:

\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: 11/05/19

Project End Date: 01/15/20

Completed by:				
Name:	Amm S Day			
Title:	Construction Superintendent			
Date:	7/01/2020			

jac	Approved by:
Name:	Km Lacay.
Title:	AAE '
Date:	7/28/2020

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	10.31	
Removed		

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 (Orozco) was used to do side slope work on the Left Bank. Any floating debris in the water column was collected by hand and disposed of properly. 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:

\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)

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:	6)	Approved by:
Name:	pryn 1 Suy	7	Name:	KM Lacay.
Title:	Construction Superintendent		Title:	AAE '
Date:	7/01/2020		Date:	7/28/2020

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 (Orozco) 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:

\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:	Ann Sun				
Title:	Construction Superintendent				
Date:	7/01/2020				

Jac	Appproved by:
Name:	Km Lalay.
Title:	AAE
Date:	7/28/2020

81/11 - S/11

Los Angeles County Channel Maintenance Project 2019-20 Mitigation Monitoring Program Reach Name <u>Los Angeles River</u> Reach Number <u>114</u>

Initial	R	X	Z	No the second se	R		K	R	X		
Comment	Airand weeter gualityane good Noise was minimal.	~		Ŷ	Ś	~		4	77		
Noise	MIN INTER	>	>	>	>	>	7	Š	\nearrow		
H20	croed			>	7	>	>	7	\ \		
Air	locos		~	>	>	>	2	>	7		
Date	11/5/19	11/6/19	21/2/11	11 12/19	11/13/19	11/11/119	111111	1116/19	11/18/19		

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 2020-21. Generation of dust was kept at a minimum during vegetation removal. Water trucks were used for dust suppression when appropriate.

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. See Attached Community Flyer

Project Start Date: <u>10/01/19</u>	Project End Date: <u>12/05/19</u>				
	BC				
Completed by:	Approved by:				
Name: 7 HAAA	Name: Km Lacay.				
Title: / Ingraciton Supt	Title: AAE				
Date: 06/24/2020	Date: 7/28/2020				

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	69.25	
Removed		

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 2020-21. 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:

V	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)
		<u>Y</u>

Biologist on Site: <u>Yes</u>

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:	Spe	Approved by:
Name: Phitther	Name:	I'm Lacay.
Title: Classifiction SupT.	Title:	AAE '
Date: 16/24/2020	Date:	7/28/2020

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 2020-21. 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:

\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:

	and and
	Completed by:
Name:	Star. Mak
Title:	Constant Supt
Date:	26/24/2020

SAC	Approved by:
Name:	Kon Lalay.
Title:	AAE
Date:	7/28/2020

Los Angeles County Channel Maintenance Project 20/9-20 Mitigation Monitoring Program Reach Name <u>San Gabriel River</u> Reach Number <u>115</u>

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10-1-19GoodMurkyMediumBoom was in place10-2-19MuderateMurkyMedium1110-4-19ModerateMurkyMedium1110-4-19ModerateMurkyMedium1110-7-19ModerateMurkyMedium1110-7-19GoodMurkyMedium1110-7-19GoodMurkyMedium1110-7-19ModerateMurkyMedium1110-7-19ModerateMurkyMedium1110-15-19ModerateMurkyLow5114 Fencing was used (no bound)10-15-19ModerateMurkyLow1110-22-19ModerateMurkyLow5114 Fencing was used (no bound)10-22-19ModerateMurkyLow5114 Fencing was used (no bound)10-22-19ModerateMurkyLow1110-22-19ModerateMurkyLow1110-22-19ModerateMurkyLow1110-22-19ModerateMurkyLow1110-22-19ModerateMurkyLow1110-22-19ModerateMurkyLow11		Air	H20	Noise	Comment	Initial
Murky Medium Murky Medium Murky Medium Murky Medium Murky Louu Murky Louu Murky Louu Murky Louu		Good .	Murky	Medium	Boom was in place	MM
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Murky Medium Murky Medium Murky Medium Murky Medium Murky Louu Murky Louu Murky Louu	>	Mocherante	Murky	Medium		NN
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Murky Medium Murky Medium Murky Low Murky Low Murky Low		Good	Murky	Medium	/ -	MN
Murky Medium Murky Medium Murky Low Murky Low Murky Low		Good	Murky	Wedium	[]	NUN
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Murky Low Murky Low Murky Low		Moderate	Murky	Medium	11	NN
Murky Murky Murky		Good	Murky	Maj	Silt Fencing was used (no boom)	NN
Murky		Moderate	Murky	Low		MM
Murky		moderate	Murky	Low		MM
		Moderate	Murky	Luw	11 .	MM

Los Angeles County Channel Maintenance Project Reach Name San Gabriel River 2019-20 Mitigation Monitoring Program Reach Number 115

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Initial MM NN NW WW NN NN and WM and WW NN MM BOUM WAS in place Comment -----------------------------------Noise Low Low High High High High High Hah High High Hab High WUrky Murky MUrky Murky Murky MANKY MUN 154 Murky Murky MUNKLEY Whurky H20 WUCKY 11-7-19 Moderate 11-5-19 Moderate 11-12-19 Moderate 11-13-19 Moderate Moderate Maderate 10-29-19 | Moderate 11-4-19 | Moderate Geod Air Good Good 11-21-19 600d 0-25-19 61-1-11 11-15-19 6-6-11 61-81-11 Date

Los Angeles County Channel Maintenance Project Reach Name San Gabriel River 2019 - 20 Mitigation Monitoring Program Reach Number <u>115</u>

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Initial うぶつ N. Wedded out bottom & CUT Veg. ore to converte were able to C U Y Weeled out bottom & tu Vogitation PICKAL UP VeriFridon S cleared by of Rivar Comment trees Noise freed Bur Jer IV Fart That had Pair High tide frew High tide Law fide Por to k LOWAD HAPLA Ade H20 11-13-19 Will. 709 11. 14-19 Wib. Fag 11-12-19 win Eag - The P Gen ble Frendle 11-15-19 Fair Air 61.81-11 1-26-19 (-19-19 Date

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Los Angeles County Channel Maintenance Project 2019-20 Mitigation Monitoring Program Reach Name <u>San Gabriel River</u> Reach Number <u>115</u> 0

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Initial	MM	UN	MM					
Comment	- NO BOOM Only removed vegetation from Ripher		//					
Noise	maj	NoJ	Low					
H20	Murky	, Murky	Murky					
Air	(Swd		Good					
Date	12-2-19	12-3-19	12-5-19					

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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 2020-21. Minimal dust was generated during vegetation removal.

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. See Attached Separate Annual Report by Psomas

Project Start Date: <u>11/18/19</u>

Project End Date: <u>12/18/19</u>

	Completed by: ,	Joc	Approved by:
Name:	Mike Stephenson	Name:	Km Lacays
Title:	Construction Superintendent	Title:	AAE
Date:	6-23-20	Date:	7/28/2020

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	13.72
Removed	

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 2020-21. 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.

	Completed by:	yen C	Approved by:
Name:	Mike Stephenson	Name:	KM Lacay.
Title:	Construction Superintendent	Title:	AAE,
Date:	6-23-20	Date:	7/28/2020

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 2020-21. 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:

Γ	✓	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:

	,	you -	
	Completed by: /	J.	Approved by:
Name:	Mike Stephenson	Name:	Kon Lagang.
Title:	Construction Superintendent	Title:	ADE '
Date:	6-23-20	Date:	7/28/2020

Los Angeles County Channel Maintenance Project Reach Name <u>Rustic Rivas Channel</u> Reach Number <u>118-119</u> 2019 - 20 Mitigation Monitoring Program

Initial	RN	RN	RN	RN	RN	RN	RN	RN	RN	RN	RN	RN	RN
Comment	START AT CONFLUENCE, WORKING UPSTRESAM IN RIVAS, 14 WORKERS	WORKING MID POINT RIVAS TO SUNSET, 9 WORKERS, REPORTED MULTIPLE HIVES	START RUSTIC CONFLUENCE, 9 WORKERS, BIOLOGIST CLEARED, STOPED AT 11AM FOR	START CONFLUENCE, 10 WORKERS, BIOLOGIST CLEARED, SPRAYED FOR YELLOW	START RIVAS, 9 WORKERS, ONE TRASH CONTAINER PICKED UP	START SECOND TIER AT RUSTIC, BIOLOGIST CLEARED TO MOVE FORWARD, 12 WORKERS	WORKED TO BROOKTREE BRIDGE IN RUSTIC, 13 WORKERS	STARTED AT BROOKTREE BRIDGE, 13 WORKERS	STARTED AT ACCESS ROAD AT HIGHTREE, UPSTREAM AND DOWNSTREAM, 12 WORKERS	STARTED UPSTREAM OF CUL DE SACS AT HIGHTREE, 12 WORKERS,	STARTED AT THE BOTTOM ON E RUSTIC RD, 10 WORKERS,	CONTINUED AT THE BOTTOM ON E RUSTIC RD, 8 WORKERS,	CONTINUED AT THE BOTTOM ON E RUSTIC RD, 10 WORKERS
Noise	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
H20	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
Air	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
Date	11/18/19	11/19/19	11/20/19	11/25/19	11/26/19	12/9/19	12/10/19	12/11/19	12/12/19	12/13/19	12/16/19	12/17/19	12/18/19

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ATTACHMENT NO. 3 PRE- AND POST-CLEARING BIOLOGICAL RESOURCES MONITORING FORMS

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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):
The operator shall not import the 0.27 acre of i egetation allowed to remain in 1997. All removed shall be by hard operated took only. Observation of Special Status Species: None objerved.
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; Riparla herb and ruderal Vegetator in area maintained</u> <u>duraines not a justifiem:</u>
Name of Biological Monitor: <u>Steve Monte</u> Date: <u>August 26, 2019</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. <i>Hotor</i> 9,10; <i>Willows</i> .
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: A Cure Month Date: Janary 14, 2020

Biological Resources Monitoring Form

Special H	ermit Condition	ıs (list):				
Operat	a shell	nothe	act The O	39 acre of	Vegetation a	loved to
remain.	In 1997. Ha	nd Clear	ingonly, is	ilthe of Co	ailing shall	Inot lices
Nonat	re Trees a	· (7 . 6	har or great	- 10 00	be removed
Observat	on of Special S	tatus Species:	: <u>Nore</u>	cherved.		
PreClea	ring Documen	tation				
estimate.	Attach photogra	aph): List inve <u>Repailen</u> nu Tal Veg	asives present (1 herbard	ation type, heigh Arundo, Castor B under Veg ren C, man	ean, Trash, etc.) <u>etatta Án</u>	area mabit
Name of	Biological Moni	itor:	Stene 1	M. J	Date:	Den T 26, 201
	Jiological Mioli		some l	roun		en coper
	_				/	
	ring Documen		to nomenal are	o (briefly describ	e ottach photo	oranh include
Type of v	egetation remain indicate import	ning adjacent	Estimate amoun	a (briefly describ nt of invasives r <i>moren, brut</i>	emoved.	ograph, include n <u>e O Marza</u>
Type of v arrows to Photo Theor	egetation remain indicate import	ning adjacent ant features). <u>Willows</u> f y ,	Estimate amoun	nt of invasives r	emoved.	
Type of v arrows to <u>Photo</u> Tueen Complian	egetation remain indicate import <u>45,6</u> and shrut ce with Permit	ning adjacent ant features). <u>Willow</u> fn., Conditions:	Estimate amount - and <u>syce</u> n	nt of invasives r <u>monen</u> , buil Partial	emoved.	
Type of v arrows to <u>Photo</u> Tueen Complian	egetation remain indicate import <u>45,6</u> and shrut ce with Permit	ning adjacent ant features). <u>Willow</u> fn., Conditions:	Estimate amount	nt of invasives r <u>monen</u> , buil Partial	emoved.	
Type of v arrows to <u>Photo</u> Tueen Complian	egetation remain indicate import <u>45,6</u> and shrut ce with Permit	ning adjacent ant features). <u>Willow</u> fn., Conditions:	Estimate amount	nt of invasives r <u>monen</u> , buil Partial	emoved.	
Type of v arrows to <u>PhoTo</u> Trees Complian	egetation remain indicate import <u>45,6</u> and shrut ce with Permit	ning adjacent ant features). <u>Willow</u> fn., Conditions:	Estimate amount	nt of invasives r <u>monen</u> , buil Partial	emoved.	
Type of v arrows to <i>PhoTo</i> <i>Tree</i> Complian If partial	egetation remain indicate import - 4, 5, 6 j and shrut ce with Permit of compliance is ap	ning adjacent ant features). <u>Willow</u> fn, Conditions: oparent, descr	Estimate amount	nt of invasives r <u>monen</u> , buil Partial	emoved. <i>also son</i>	ne OMerce.
Type of v arrows to <i>PhoTo</i> <i>Tree</i> Complian If partial	egetation remain indicate import - 4, 5, 6 j and shrut ce with Permit of compliance is ap	ning adjacent ant features). <u>Willow</u> fn, Conditions: oparent, descr	Estimate amount	nt of invasives r <u>more, buil</u> Partial ces:	emoved. <i>also son</i>	ne OMerce.

Biological Resources Monitoring Form

Reach Number: 3
Special Permit Conditions (list):
Hand Cleaningouly.
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 3, 4; Judeual Vegetation in area maintained; Some Casta Bea</u> <u>present</u> .
Name of Biological Monitor: <u>ftere Month</u> Date: august 22, 2019
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 1011, Eucolypten and Court Line Oak.
Compliance with Permit Conditions: Full A 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>flere Mouh</u> Date: <u>October 17, 2019</u>

1

Biological Resources Monitoring Form

Reach Number: <u> </u>
Special Permit Conditions (list):
No special 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.) PhotoL 1, 2; Repainherband underal Vegetation in area maintained; driver mot, a Moblan,
Name of Biological Monitor: flye Month Date: august 22, 2019
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>The for 1, 2, Mix of oncamental and notice Theorem and shrubs</i> <i>Outlide channel; chinoshue not a problem</i>
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: Me Date: Cepul 8, 2020

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Biological Resources Monitoring Form

5	
Reach Number: <u>9</u>	
Special Permit Conditions (list):	
Hand Cleaning only: Exotiens shall be remained during main tenewee activities, The Vegetation allowed to remain miltof shall not	
be imperted 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 & co estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>Photon 18,19,20; Répairenherb-im area maintained; churairen</i> <i>mot a problem</i> .	
Name of Biological Monitor: <u>Score Month</u> Date: <u>August 22, 2</u>	2019
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 11,12,13; Willow Niperlan:	
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>Alere Moril</u> Date: <u>January 14, 2</u>	2020

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): Hand Cleaning Only: Exoting thall be removed. Vegetation allowed To remain the 1997 shall not be imported by facture maintenance activities.
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.) <u>Platon 21,22</u> ; <u>Alparla herb</u> , <u>Willow Brancher and wegetation</u> <u>Marca maintained</u> ; <u>driver not a problem</u> .
Name of Biological Monitor: Stree Month Date: August 22, 2019
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 14, 15; Willows; Coast Line Oaks, and some onswertal</u> <u>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: Stere Month Date: January 14, 2020

Revised 2016

Biological Resources Monitoring Form

Reach Number: Special Permit Conditions (list): cta +005 2008 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.) Scottonwood sad rote ent bar M hanalls. ÌΑ Date: 2019 Name of Biological Monitor: BN **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. FOUT MOUNS 101 200 5 Jus or was 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): Brian Daviels Date: Nov. 19 Name of Biological Monitor:

Revised 2016

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

C C
Reach Number: 8
Special Permit Conditions (list):
Hand Clearing only:
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.) <u>Photos 16, 17; Ripada herb and rederal Vegetation in area</u> <u>Maintained</u> ; <u>and annot a problem</u> .
Deter August 7 22 2019
Name of Biological Monitor: <u>fre Monte</u> Date: August 22, 2019
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 Photon 7,8; No Vegetation allowed to remain in This channel - adjacent ornance tal Trees "overhang" The reach somewhat
Channel - adjacent ornance al Trees Overhang The reach somewhere
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>I Twe Month</u> Date: <u>December 13,2019</u>

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):
Hand Clearing only, duparty thall wet exceed 0:12 acre of
Vegetatlan. I
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.) (hotor 10,11; home underal Vegetation in area maintained;
dervarine not a problem but Track from thecreasing howelen
population prevalent at this reach,
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Kene Month Date: august 22, 2019
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. Thotas 17,18; Non-Matine Osh Treep,
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>Mare Mouh</u> Date: October 17, 2019

Monitoring Form Dialogical D

Biological Resources Monitoring Form
Reach Number: /O
Special Permit Conditions (list):
Otherator shall not impact the 2.11 acres of Vegetation allowed
Operator shell not import the 2.11 across of vegetation allowed To remain in 1997.
Observation of Special Status Species: None obyerved.
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.)
Philos 12,13,14,15; Riparian hard and rescal Vegetation on area
mantained; machington's Palm as well avoldes amountal Trees
mantaned; Wathington's Palm as well another ormanutal Trees growing in repart upper end of reach.
Name of Biological Monitor: <u>Stare March</u> Date: august 72, 2019
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 3, 4, 5, 6; There some protocted Vegetation childer chamel</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): Usually all Vegetation in removed from this channel but a large fortient remain. Many Palme and Tree Tobacco also present.
Name of Biological Monitor: <u>Acue Month</u> Date: <u>February 19, 2020</u>

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 cattal and other herbaceaus steader has been the formed of result has been the distance of the state	Biological Resources Monitoring Form
Mind clearing only special point conditions for Sente Ana critico (SAS) apply to this Acad. Observation of Special Status Species: Pre-Clearing Documentation 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; some cattach and other herbaceans species and for the state of t	Reach Number: 12
The Secte And Andrew (SAS) apply 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.) Photos 1, 2, 3; some cattach and other herbacean specific for the second for the secon	Special Permit Conditions (list):
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; conc (attal) and other herbaceneous steared for the photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1, 2, 3; conc (attal) and other herbaceneous steared for the photograph): List invasives present and the photograph of the photograph of the photograph of the photograph. Name of Biological Monitor: Brian Daniels Date: Aug 16, 2019 Post-Clearing Documentation Date: Aug 16, 2019 Post-Clearing Documentation Date: Aug 16, 2019 Post-Clearing Documentation Date: Aug 16, 2019 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; willows cleary right bank of outlet, plus two large willows and some ornawented frees down stream of variantenance avea. Compliance with Permit Conditions: Ful	Hand clearing only. Special permit conditions for the Senta Ana sucker (SAS) apply to this reach.
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 cattal and other herbaceous steering of result has been that a direct herbaceous estimate. Attach photograph, include arrows to indicate important features). Estimate amount of invasives removed. Photos 1, 2, 3; willows doing right bank of outlet, plus two large willows and some ornowented frees down stream of unaunternance area. Photos 1, 2, 3; willows doing right bank of outlet, plus two large willows inside right frees down stream of unaunternance area. Photos 1, 2, 3; willows doing right bank of outlet, plus two large willows inside right frees down stream of unaunternance area. Photos 1, 2, 3; willows doing right partial area bellipopped; otherwise willows inside right frees down stream of unaunternance area. Photos 1, 2, 3; willows down right partial area bellipopped; otherwise willows inside right frees down stream of unaunternance area. Photos 1, 2, 3; willows down right partial area bellipopped; otherwise willows inside right frees down stream of unaunternance area. Photos 1, 2, 3; willows down right partial area bellipopped; otherwise willows and some ornowerted frees down stream of unaunternance area. Photos 1, 2, 4; willows down right partial area bellipopped; otherwise willows and some ornowerted frees down stream of unaunternance area. Photos 1, 2, 5; willows down right partial area bellipopped; otherwise willows and some ornowerted frees down stream of unaunternance area.	Observation of Special Status Species:
estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photos 1, 2, 3; some cattal and other herbaceous species, but downstream and a read has built the down inpacted by downstream eatity may have been impacted by downstream of the died). Name of Biological Monitor:	Pre-Clearing Documentation
Species But downstream and of reading has built the former about and the prove as that has the hear matrice by drown earting have been matrice by drown by have been by the bank of outlet, plus two large willows and some or any that are bellipopped; otherwise willows and some or any that are bellipopped; otherwise willows and some or any that are bellipopped; otherwise willows and some or any that are bellipopped. If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form):	
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; Willows along right bank of outlet, plus two large willows inside right trees downstream of maintenance area. 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):	species, but downstream and of ready has been cleared (recentiz) by unknown entity (may have been fine abatement activities as that
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; willows along right bank of outlet, plus two</u> large willows inside right vigh of a way that are lollipopped; otherwise willows and some ornamental frees down stream of maintenance area. 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: Brian Danicles Date: Aug 16, 2019
include arrows to indicate important features). Estimate amount of invasives removed.	Post-Clearing Documentation
If partial compliance is apparent, describe circumstances: Problems or Recommendations (if more space is needed continue on the back of this form):	large willow's inside righ-of- way that are lollipopped; otherwise willows and some ornamental prees downstream of maintenance
Problems or Recommendations (if more space is needed continue on the back of this form):	Compliance with Permit Conditions: Full / Partial
	If partial compliance is apparent, describe circumstances:
Name of Biological Monitor: Trevor Brictle Date: March 12 2020	Problems or Recommendations (if more space is needed continue on the back of this form):
$\mathbf{L}_{\mathbf{A}} = \mathbf{L}_{\mathbf{A}} = $	Name of Biological Monitor: Trevor Brístle Date: March 12, 2020

Biological Resources Monitoring Form

Reach Number: 3
Special Permit Conditions (list):
no special permit conditions apply 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.) <u>Photos I, 2; privally unvegetated in area</u> <u>mantained; invasives not a problem</u> .
Name of Biological Monitor: Brian Daniels Date: Arg 16, 2019
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; alwia (sage scrub vegetation Q/s of maintained area
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>Brian Daniels</u> Date: <u>Date:</u> <u>Dat</u>

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Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list):
Operator shall not impact the 0.5 acre of vegetation allowed to remain in 1997. Special permit condition For least Bell's vireo apply 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.) Protos 1, 2, 3; persoceous vegetation in area mantenned (the invert); investives not a problem. The combination of drought and willings has negatively affected the "protected "vegetation on the banks of this reach.
Name of Biological Monitor: Brian Daniels Date: Aug 16, 2019 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 much of the protected resetation bened in the Creek Fine (Dec. 5, 2017 - Jang, 2018) some willows respersed in the conversion of heaven rowsteels some willows respersed in the back.
Compliance with Permit Conditions: Full
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: Brian Daviels Date: Oct. 14, 2019

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Reach Number: / S
Special Permit Conditions (list):
Operator shall not impact the polare Vegetatin allowed
To remain du 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.) <u>Photor 5, 6, 7, 8, 9, Riputa herbal redeval Vegetatter in area</u>
maturained; duriver not a problem but Thack from howeless
plener Car Upper and of read.
Name of Biological Monitor: <u>A Tue Month</u> Date: <u>August 22, 2019</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>Photography 13,14,15,16; No Vegetation allowed to remain in charmed</u> <u>except mall patch (0.01 are) at downsteen Terminus of 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):
Recommend alternating removed of docustican potch to the til doesn't become stagnant with Trach and invarives shullow to previous
protected fatch.
Name of Biological Monitor: <u>None Monte</u> Date: Other 17,2019

Biological Resources Monitoring Form

16 Reach Number: Special Permit Conditions (list): I clearing only. Inpacte shall not seed 0.07 acre. Nove observed. 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.) Photos 7,8; Ruderal Vegetation in area maintained; duvasines not a problem, Date: august 19, 2019 Star Mout 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. ; Oak woodland at iepstreams end of 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): Store Monthe Date: January 16, 2020 Name of Biological Monitor:

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	Diological	Resources monitor	ing rorm	
Reach Number:	/8			
Special Permit Condition	ns (list):			
Hand Cleaning on	ly.			
- F	1			
Observation of Special S	tatus Species:	Nove observ	ed;	
PreClearing Documen	tation			
Pre-Monitoring Condition estimate. Attach photogra Phur Cas 9,10,11; 12 Take Brancher, 11	aph): List invasive	es present (Arundo, Ca	stor Bean, Trash, etc	.) rg omanental
back just ups of Carton Bean als	/	intainal: long bridge to (ong Met STra	up, Some
Name of Biological Mon Post-Clearing Documer		Twe Moria	Date:	ugur 19, 2019
Type of vegetation remain include arrows to indicate <i>Photos</i> 3, 4, 5, <i>Vegetation</i> ,	important feature	emoval area (briefly o es). Estimate amount o <i>Coart Lihe or</i>	of invasives remove	tograph, d. evental
Compliance with Permit	Conditions:	Full Pa	rtial	
If partial compliance is a	pparent, describe	circumstances:		
Problems or Recommend	lations (if more sp	pace is needed continu	e on the back of this	form):
Name of Biological Mon	itor:	Twe Month	Date: J	anary 16,2020

Biological Resources Monitoring Form

Reach Number: <u>/9</u>
Special Permit Conditions (list):
Hand Cleaning only. (Note that the current ACOE permit
Continuen to instude this reach on list for Least Bellippineo and
Santa anafully despite experts determining no potential for either of these Town potential for either of these
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</u> ; <u>Ripartin herb and nuderal Vege teation in area</u> <u>Maintained</u> ; <u>Some Castor Bean present</u> .
Name of Biological Monitor: <u>Itere Maria</u> Date: <u>Augur (19, 2019</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 C, P; Omanue Vegetation and some Chapanal and/of alluded foge fearly,
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):
1-7 m
Name of Biological Monitor: <u>A Tare March</u> Date: <u>January 16, 2020</u>

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County of Los Angeles Department of Public Works

Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

20 Reach Number: Special Permit Conditions (list): anporte that not steed 0.13 acre (115 FT. linear by 50 FT. wide). Nove observed. 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.) hoter 19,20; Ruden Vegetation in area maintained; Some Steve Morin Date: augur (19 20/9 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. Ta 3,4; a well of one tal Vegetation and oat. 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): Sie Mon Date: March 9, 2020 Name of Biological Monitor:

Reach Number: 2
Special Permit Conditions (list): Hand Cleanly only, Imparts shall not exceed 0.03 are.
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>Philos 17,18; Ruberd Vegetation in area maintained</u> ; clinvaring Mot a problem.
Name of Biological Monitor: <u>Stre Monch</u> Date: <u>August 19, 2019</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. PlasTos 1, 2; A Mix of oman of Vegetation and oats.
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: 1 Tan Mar Date: March 9, 2020

Reach Number: 22
Special Permit Conditions (list):
Hand Clearing only.
Observation of Special Status Species: Nove Mererved.
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 14, 15, 16; Spance growth of undawn Wege tatum in area maintained; Castor Bean present.
Name of Biological Monitor: <u>/Twe Monita</u> Date: <u>August 19, 2019</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. <i>Photor</i> 8, 9,10; and of ormanu tal Vegetation from adjacent home with some Chaponal, Sycamore, and oak.
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): Some Conton Bean still present:
Name of Biological Monitor: <u>Itare Korth</u> Date: January 16, 2020

Reach Number: 24
Special Permit Conditions (list): No gooined part Condition pertain to this reach, but the general terms and Conditions of the pensite apply.
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.) <u>Photos 7, 8, 9, 10, 11 ; Reputen herbard weberd Vegetation in area</u> <u>Maintained</u> ; Castor Bean Present,
Name of Biological Monitor: Steve Moule Date: august 17,2019
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>Plotas 1, 2, 3, 4, 5; Some reed beds in middle of low-flow</u> <u>channel</u> , but otherwise all vegetation 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: Kere Moule Date: November 23,2019

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Reach Number: 25
Special Permit Conditions (list):
Operator shall not impact the 9.37 acres of Vigetation ellowed
To remain in 1997, (NOTE; The ACOE remarch much of This
Vegetation in 2000.),
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.) Philor 12, 13, 14, 15, 16 (EAST BANK) & 17, 18, 19, 20, 21 (WEST BANK; Philuanily Malaral growth in and maintained; And End Cartor Bean present.
Name of Biological Monitor: <u>Stre Marile</u> Date: <u>August 17, 2019</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, 3, 4, 5 (East BANK)</u> 6, 7, 8, 9, 10 (West BANK); <u>large Willows on east bank, otherwise all Vegetation Nemorel</u> . <u>fewer mult potches of Quendo on east bank</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>Stene Monin</u> Date: <u>January 7, 2020</u>

County of Los Angeles Department of Public Works Flood Maintenance Division

Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Biological Resources Monitoring Form
Reach Number: 26
Special Permit Conditions (list):
Hard Classing only.
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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.) Philos 1, 2, 3, 4, 5, 6; Ruderel, Negerlanherb, and omameutel Vegetation in area maintained; Castar Bean present.
Name of Biological Monitor: Store Monin Date: august 17, 2019
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>Plotas</i> 1, 2, 3, 4, 5, 6 <i>j Willows and onnamical Trees (mostly ash Trees)</i> .
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
с
Problems or Recommendations (if more space is needed continue on the back of this form):
Name of Biological Monitor: March Date: October 19, 2019

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Biological Resources Monitoring Form

Reach Number: 27
Special Permit Conditions (list):
The connect many enert plan includes full cleaning of invert, trimming of vegetation on backs including trees up to 3 ft. above ground, and island vegetation is protected. Observation of Special Status Species: None observed (tris is LOV reach)
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; the invert supports dense growth of catitads and herbaceous variation; and banks support dense growth of starubs and trees that here at been cleared (except for homeless activities) suce proposition "O" restoration project.
Name of Biological Monitor: <u>Bion Daniels</u> Date: <u>Aug 26, 2019</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, 4, 5; willow dominated in Javan habitat an banks (thinned finned) and on island ("intouched")
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: Brian Daniels Date: Jan. 10, 2020

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Reach Number: 28
Special Permit Conditions (list): Hand Clearly only: aparton shall avoid imports and but Russilan
Pord Tuild. Cleaning shall not extend beyond area cleaned in 1997.
No vitire Trees with a DBH of 2 inches of greater shall be removed.
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.) <u>Photon 14, 15, 16; Primarily underal Vegetation in area matutained but</u> <u>home riparian harb- under Bridge j cluvairen not a preflam.</u>
Name of Biological Monitor: <u>Alene Month</u> Date: <u>August 26, 2019</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>Alm Monh</u> Date: <u>Jameny 13, 2020</u>

County of Los Angeles Department of Public Works

Flood Maintenance Division Earth Bottom Channel Program

	0 3
Reach Number: 29	?
Special Permit Conditions (li	ist):
Hand Cleaning only	1. Operator shall avoid import, to southwater for impact the 0.61 acre allowed to remain in 1997.
Operator shall not	impact the 0.61 acre allowed to remain in 1997.
Vo notire Trees wit	ha DBH of 2 inches or greater shall be removed.
Observation of Special Status	s Species: Nove observed.
PreClearing Documentation	n
estimate. Attach photograph):	- (briefly describe: Vegetation type, height of trees, invasive present & cover : List invasives present (Arundo, Castor Bean, Trash, etc.) [porling herb and underal Vegetation in aca
maintained; duni	aina not a problem.
/	/
· · · · · · · · · · · · · · · · · · ·	
Name of Biological Monitor:	Store Moule Date: august 26, 2019
Post-Clearing Documentation	on
	adjacent to removal area (briefly describe, attach photograph, include features). Estimate amount of invasives removed. <u>Willow and granlers / ruderal field</u> .
Compliance with Permit Cond	ditions: Full Partial
If partial compliance is appare	ent, describe circumstances:
-	
Problems or Recommendation	ns (if more space is needed continue on the back of this form):
Problems or Recommendatior	ns (if more space is needed continue on the back of this form):
Problems or Recommendation	ns (if more space is needed continue on the back of this form):
Problems or Recommendation	ns (if more space is needed continue on the back of this form):

	0
Reach Number: <u>32</u>	
Special Permit Conditions (list):	
Hand Clearing only. No Vegetation Way a	Clowed to remain in 1947
0 0	
)
Observation of Special Status Species: None observed	
Pre-Clearing Documentation	
Pre-Monitoring Conditions – (briefly describe: Vegetation type, estimate. Attach photograph): List invasives present (Arundo, C	astor Bean, Trash, etc.)
Photon 17, 18, 19, 20; Riparian herband unde	ul Vegetation in area
maintained; duraitres not a problam.	-
Name of Biological Monitor:	Date: august 26, 2019
Post-Clearing Documentation	
Type of vegetation remaining adjacent to removal area (briefly arrows to indicate important features). Estimate amount of inva Photos 15,16,17,18; Cymul, Oak, and	sives removed.
	artial
If partial compliance is apparent, describe circumstances:	
Problems or Recommendations (if more space is needed continu	ne on the back of this form):
-	
Name of Biological Monitor: Steve Month	Date: January 13, 2020
Jo Conception	Date: <u>January 13, 2020</u>

Biological Resources Monitoring Form

Reach Number: <u>33</u> Special Permit Conditions (list): <u>The main Tenence attrituen performed for this reach chuclude</u> <u>lollipopping of willow Trees, removed of exotic mon-notive Vegetation,</u> <u>and removal of debric and treach</u> , similar to the one-time permit insurd by CI Observation of Special Status Species: <u>None observed</u> ,
The maintenance activities performed for this reach include Collipopping of willow Trees, removed of water from-notive Vegetation, and removal of debie and trash, similar to the one-time permit issued by CD
The maintenance activities performed for this reach include Collipopping of willow Trees, removed of water from-notive Vegetation, and removal of debie and trash, similar to the one-time permit issued by CD
Collipopping of willow Trees, removed of water mon-notive Vegetation, and removal of debrie and trash, similar to the one-time permit issued by Ci
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 5,6,7; Willow riporian forest and free hwoter marsh
habitat in areas where no cleaning activities have been performed
due to permit restrictione.
· · · · · · · · · · · · · · · · · · ·
Name of Biological Monitor: Stave Moule Date: Curgent 26, 2019
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 12, 13, 14, William and some read Beds:
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>Marce Mont</u> Date: <u>January 13,2020</u>

Biological Resources Monitoring Form 35 Reach Number: Special Permit Conditions (list): Clearing only. dupart, shall not exceed 0.14 acre. 2 ruchen or greater shall be removed. Æli Observation of Special Status Species: None observe **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 12,13; Riportan herb- and ruderal Vegetation in area " durne mot a problem. Stive Mark Date: augent 26, 2019 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. fear scrube and small Trees (olive & sycamore). Ter +,8; Ŭ. Full 1/ Partial 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): Steve Month Date: January 13, Name of Biological Monitor:

21
Reach Number: <u>36</u>
Special Permit Conditions (list):
Hand Clemby only. Operator shall not impact the 0.05 and of Vegetation allowed to remain in 1997.
of Vegita then 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.) <u>Photon 3, 4; Sparse ruderal Vegetation in area maintained;</u> <u>cluvening moto problem</u> ,
Name of Biological Monitor: Stare Monin Date: august 26, 2019
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. Mor Car (2) 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):

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Reach Number: <u>37</u>
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 shall not be imported by
fatere maintenance activitie.
Observation of Special Status Species: None obterved.
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>Photop 10,11; Riparlus herb-and nucleused Vegetation in area maintained;</u> <u>duration not a problem</u> .
Name of Biological Monitor: <u>A Tre Moule</u> Date: <u>Cuguet 26, 201</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. Planten 5/6 j 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):
· · · · · · · · · · · · · · · · · · ·

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Biological Resources Monitoring Form

8
Reach Number: <u>38</u>
Special Permit Conditions (list):
Hand Clearing only, chyparty shall not acced 0.19 acre,
Hand Clearing only, chiparty shall not exceed 0.19 acre, No nativeThese Twittle a DBH of 2 inches or greater shall be removed.
Observation of Special Status Species: None officerved.
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 8,9; Riporter herb and undered begetation in a cas</u> <u>Maintained</u> ; <u>cluvaiver not a problem</u> .
1 B1 : - A 7 2 2 0
Name of Biological Monitor: <u>Neve Monte</u> Date: <u>August 26,2019</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>Alen Month</u> Date: <u>Januar</u> 13, 2020

Biological Resources Monitoring Form

Reach Number: 39
Special Permit Conditions (list):
Special permit conditions for the Senter Ana sucher (SAS) and least Bell's vineo (LBV) apply 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.) Photos 1, 2, 3, 4; few withow sapings in ance
mantanal, but nosty herbaceous regetation;
some analo Dresent.
Name of Biological Monitor: Bhan Daniels Date: Aug 23, 2019
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; willows and note fat on right
bank and coastal says serves next to left
finder and the first for the f
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):
Continue planting at willow sapings on
Fight back (right back only) to establish
overhead shading et invert to reduce another
of herbaceros vegetation growing in waver (privert).
Name of Biological Monitor: Brian Daniels Date: Oct. 7, 2019

Revised 2016

Biological Resources Monitoring Form

Diological Resources fromtoring Form
Reach Number: <u>40a</u> Special Permit Conditions (list): <u>Serta Fe Dam to 2.10 Fwy: herd & nechanical clearing</u> 10Ff. From toe of Levice and 75 Ft will area cleared in alternate years. 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.) Photos 1, 2, 3, 4, 5; two-year old veze tation formated b mult fat, but also cluvial sage scrub species and herbaceou (nen-native weeks) and ornanistal species in and manitand serve castor bean present.
Name of Biological Monitor: <u>Brandance</u> Date: <u>Aug. 23, 2019</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; due to continuing drought, very little vegetation</u> <u>present in area (one-year growth) allowed to remain this year.</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: Cristhian Mace Date: Feb. 18, 2020

Reach Number: 405
Special Permit Conditions (list):
B-10 Fuy to Thieses Ave: protect vegetation allowed to remain in 1997. Special permit conditions for least Bell's
VINCO (LBV) 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.)
Photos 1, 2, 3, 4, 5, 6, 7, 3; nostly herbaceous (non-native weeds)
reservent in wet areas (side ortlets primarly); castor
bear and and present.
Name of Biological Monitor: Bran Danicks Date: Aux, 23, 2019
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; willows and mulefat.
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: Cristhian Mace Date: Feb. 18, 2020

Reach Number: <u> </u>
Special Permit Conditions (list): No specied peril Conditions pertain to the read.
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.) Philos 4,56; Ripain heib and nucleus Vegetation in area Maintoined; Castor Bean present.
Name of Biological Monitor: Store Monite Date: august 16, 2019
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;</u> <u>Willows</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>Atare March</u> Date: December 3,209

Reach Number: <u>1/2</u>
Special Permit Conditions (list):
No-special perit Condition pertain To This reach,
/
Observation of Special Status Species: Vallow Warblan
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>Ibtar 1, 2, 3; Répair herb under Vegetation area</i> <i>Montained; Castor Bean present</i> .
Name of Biological Monitor: <u>Stare Monite</u> Date: <u>Curgurt 16, 2019</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. <i>Photon</i> $1, 2, 3'$, <i>Willows</i> .
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: Mare Month Date: February 6, 2020

Reach Number: 43a
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 shall not be impacted by future manterare activities. Special period condition for least Bells when (LBV) apply to this reach. 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.) Photos 1, 2, 3, 4, 5; mostly herbaceous vegetation (non-native weeks) in means maintained; armlo and castor bean continue to be attained to maraze in this nearly.
Name of Biological Monitor: <u>Brian Daniels</u> Date: <u>Aug. 23, 2019</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; primarily willows and mulefat, but also some</u> <u>ornamental vegetation (ash trees and a couple of eucalyptus</u> <u>trees); arrundo removal but not yet treated with hebicides.</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: Cristhian Mace Date: Feb. 18, 2020

Reach Number: 436
Special Permit Conditions (list):
Vegetation allowed to remain in 1997 shall not be impacted by Fiture maintenance activities. Special permit condition For least Bell's vineo (LBV) apply to this reach.
Observation of Special Status Species: 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; mostly herbaceous vegetation (non-native weeds) Ein areas maintained; some castor bean.
Name of Biological Monitor: Brien Daniels Date: Aug. 23, 2015
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; mostly willows, but some mule fat along the</u> of right bank slope.
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: Cristhian Mace Date: Feb. 18, 2020

Biological Resources Monitoring Form
Reach Number: 444
Special Permit Conditions (list):
Maintenance activities shall not so beyond creas cleared in 1997. Vecetation allowed to remain in 1997 shall not be impacted by Future maintenance activities.
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.)
Photos 1, 2, 3, 4, 5, 6, 7, 3, 9, 10, 11, 12, 13; mosting herbaceous regetation (non-native weeds) in cnees mantained, but also some cattains and whow sappings at nowths of some side outlets with water; some castor been.
Name of Biological Monitor: Bran Dartels Date: Aug 23, 2019 Rost Classing Desumentation
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, 12, 13; primarily willows and mulefat.
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):
Name of Biological Monitor: Cristhian Mace Date: Feb. 14, 2020

Biological Resources Monitoring Form

Reach Number: 45
Special Permit Conditions (list):
Inpacts shall not exceed 0.05 acre. No native these with 2 men or greater DBri shall be removed.
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.)
Photos 1, 2; dry herbaceous (weeks) vegetation in area matritained; invasives not a problem.
Name of Biological Monitor: Brian Pariels Date: Aug 19, 2019
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; coast live oak and dry herbaceous vegetation on left hour life hour and chapter of on left bank (steep hillsike).
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: Brian Dances Date: Dec. 2, 2019

Biological Resources Monitoring Form

Reach Number: 46
Special Permit Conditions (list):
Inpacts shall not exceed 0.06 acre. No rative trees with 2 mch or greater DBM shall be removed.
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; sparse growth of herbaceous Vegetation
in ana maintained; invasives not a problem.
Name of Biological Monitor: Brian Daniels Date: August 19, 2019
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, herbaceous vegetation where tomlers were remained.
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: Brin Daviely Date: Dec. 2, 2019

Biological Resources Monitoring Form
Reach Number: 47
Special Permit Conditions (list):
Clearing shall not occur more than 20 ft. beyond too of lerve. Special permit conditions for enamed tweespine stickleback (UTS) apply to this treach. 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.)
Photos 1, 2, 3, 4; primarly unvegetated in area maintaned but side outlets contain perbaceous (weeks and grasses) vegetation due to periodic releases of "nuisance" water; invasives not a problem.
Name of Biological Monitor: Bran Dariels Date: Aug 19,2019 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: Bran Daniels Date: Dec. 2, 2019

Biological Resources Monitoring Form

Reach Number: 4-8
Special Permit Conditions (list):
to special permit conditions pertain 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.) <u>Photos 1, 2; mostly unvege tatted marea mantaned</u> but wet area at U/S end of reach holds mix of parameters, true-of-heaven, and and holds mix and herbaceness vegetation.
Name of Biological Monitor: Bright Darrels Date: Azurt 19,2019
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; ornamental vegetation of adjacent residential yards, but also some vegetation or invert (wet section) at 2/3 and of reach
Compliance with Permit Conditions: Full V Partial
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: Brian Daniels Date: Dec. 2, 2019

Biological Resources Monitoring Form

Reach Number: 49
Special Permit Conditions (list):
no special permit conditions pertain 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.) Protos 1, 2; unequality of a new maintained; invasives not a proplem.
Name of Biological Monitor: <u>Bhan Dance</u> Date: <u>Accust Page</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; <i>Unvegetated benuls</i></u>
Comuliance mith Demit Conditioner Exel
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):

Reach Number:
Special Permit Conditions (list):
no special permit conditions pertain to this
plan.
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.)
Photos (, d; This chancel reach is under
construction and expected to be removed
soon from the list of soft-bottom channels
mantaned by the L.A. Canty Mood Control
P. SAUCA
Name of Biological Monitor: Brian Daniels Date: August 19201
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.
Deve loser
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: Brin Daniels Date: Dec. 2, 2019

Reach Number: 51
Special Permit Conditions (list):
Clearing shall not occut more than 20 ft. begoed toe of
studioback (1273) apple to the and
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; very spore growth of herbaceous
Vigitation in area nametained ; majures not
c problem.
Name of Biological Monitor: Boing Dancele Date: Arrist B 22 B
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; allevial sage scrub vegetation
Compliance with Permit Conditions: Full V Partial
If partial compliance is apparent, describe circumstances:
in 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: Bran Daviels Date: Dec. 2, 2019

Dividgrent resources riconnorming a orm
Reach Number: 52
Special Permit Conditions (list):
Hand cleaning only. Emparts shall not exceed D. Otaere.
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.)
Photol; this channel reach is under construction
Photol; this channel reach is under construction and its unclear what will hegper (Final design not apparent at this time).
Name of Biological Monitor: Brian Daniels Date: August 19, 2019
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: Right Dave B Date: Dec. 2, 2015

Reach Number: <u>53</u>
Special Permit Conditions (list):
to special permit conditions pertain to this re
· · · · · · · · · · · · · · · · · · ·
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.) Protos 1, 2; very species growth of her baceous (no wards and grasses) vegetation at alge of ported water; invasives not a problem.
Name of Biological Monitor: <u>Brian Daniels</u> Date: <u>Agust 19, 20 r</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>Protos 1, 2; basyally wegetated</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: Bran Daniels Date: Dec. 11,201

Reach Number:
Special Permit Conditions (list):
Pripade shall not exceed 0.31 acre. Special perint conditions for managed threespine strukele back (UTS) apply to this reach. 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.) Photos 1, 2; very sparse growth of perbaceeous vegetation in and manutained; invasives rot a problem.
Name of Biological Monitor: Bran Darichs Date: August 19, 2019
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; Great Basin say brong and theses</u> <u>including cotton cool and evical physical area</u> <u>peach</u> , but bakes nearby too.
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: Brian Danichs Date: Dec. 2, 2019

Reach Number: Special Permit Conditions (list): NOT ocur more ba <4. 10 Threson 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.) 34.5,6.7.8. asman 17 except (non-native wee - conses 5. case Ne later oble Name of Biological Monitor: Date: August 19 2019 Brigh Pa **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, 3; alwrial sage scrubreze tation 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: Dec ian Daniels Name of Biological Monitor:

Biological Resources Monitoring Form

Reach Number: 56 ("left benk reach")
Special Permit Conditions (list):
Cleaning shall not occur more than 20Ft- beyond toe of level. Special permit conditions for manared
Threspire stilleback (UTS) 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.)
Photos 1, 2, 3; primarly invescented in area mainterned, invasives not a problem.
Name of Biological Monitor: <u>Bran Danicls</u> Date: <u>Argust 19, 2019</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; alluvial sage scrub 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 (II more space is needed continue on the back of this form):
Name of Biological Monitor: Bian Darich Date: Dec. 2, 2019

Biological Resources Monitoring Form

Reach Number: <u>57</u>
Special Permit Conditions (list):
to 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; recent facility improvements include
concrete invert and adjoining access road. Previous
adjacent vesetation (trees on left back edge of read
penant in act, invasives nos a problem.
Name of Biological Monitor: Brian Daviels Date: Aug 19, 2019
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; residential jarles with ormanental 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: Brice Daniels Date: Dec. 2, 2019

Reach Number: 58 (mouling Former Reach 59)
Special Permit Conditions (list):
Cleany shall not occur beyond 20 ft. I top of level. Special permit conditions for manored threespine Stickleback (UTS) 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; Sparse growth of herbaceous and</u> <u>alluvial sage scrib vegetation in area maintained</u> ; <u>invasives not a problem</u> .
Name of Biological Monitor: Bran Dariels Date: Aug 19, 2019
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. Protos 1, 2, 3, 4, 5; alwid sage scrub 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>Brian Daniels</u> Date: <u>Dec. 2, 2019</u> Revised 2016

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Biological Resources Monitoring Form
Reach Number: 60
Special Permit Conditions (list):
Cleaning shall not accur beyond 20 At. of toe of level. Special permit conditions for mamored threespine
Special permit conditions for inamored threspine stickleback (UTS) apply 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.)
Photos 1, 2, 3; sparse growth of perbaceous and alluvial sage scrub vegetation in areas maintained;
invasives not a problem.
Name of Biological Monitor: Brian Danicles Date: Aug 19, 2019
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; alwrial sage scrub 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: Bran Daniels Date: Dec. 2, 2019

Reach Number: 61 (including former Reach 62)
Special Permit Conditions (list):
Cleaning shall not occur more than 2014. beyond toe. of lervice. Special permit conditions for manored opmessine strikleback (UTS) apply to This reach.
Observation of Special Status Species: <u>Aone 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, 4, 5, 6; sparse growth of herbaceous and alluvial sage scrub vegetation in and maintained; invasives not a problem.
Name of Biological Monitor: <u>Brian Daniels</u> Date: <u>Aug 19, 2019</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. Protos 1, 2, 3, 4, 5, 6; allowing (sage scrib vegetation and some control of the sage scrib vegetation and
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: Bran Daniels Date: Dec. 2, 2019

Reach Number: <u>63</u>
Special Permit Conditions (list): <u>Parparts shall not exceed 0.35 acre.</u> Special permit conditions for unarmored tweespine stickle back (UTS)
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.) Protos 1, 2, 3; primil-7 unregetated in area maintained; invasives not a problem.
Name of Biological Monitor: Bran Daniels Date: Aug. 19, 2019 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; largely unvegetated</u> , but some alluvia (<u>saye scrub vegetation nearby as well as some</u> <u>w. Mous and contanuoads</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: Bran Daniels Date: Dec. 11,2019

Reach Number: 64
Special Permit Conditions (list):
Tripacts shall not exceed 0.10 acre. Special perint conditions for unarmored true pine stille back (UTS) apply to this reach. 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.) Photos 1, 2, 3 ', sparse growth of herbaceous vegetation w/s of aqueduct - mix d/s of herbaceous vegetation and new willow/mule fat growth (saplings and bruche from vegetation on banks that is protected); masked not a problem.
Name of Biological Monitor: <u>Bion Dariels</u> Date: Ang 19,2019 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. Protos 1,2,3; <u>mle fat, willows, cottonwood, and a</u> orraneette tree.
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: Brian Daniels Date: Dec. 2,2019

Biological Resources Monitoring Form
Reach Number:
Special Permit Conditions (list):
Clearing shall not occur beyond 20Ft. of toe of levee.
Special permit conditions for inarmored threespine stilleback (UTS) apply 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.)
Photos 1, 2; primarily unvegetated is area mainteined, but herbaceous vegetation at month of the one
sile outlet; invances not a problem.
Name of Biological Monitor: Brian Daviels Date: Aug 19, 2019
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 I, 2; alluvia (saye sorus vegetation including mule fat and a cottonwood.
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: Brian Daniels Date: Dac. 2, 2019

	Diological Resol	frees monitoring ro)1 III	
Reach Number:	07			
Special Permit Condition	ns (list):			
		ions for u	namoria	
Special per trucspine	stickles.	nux Cuts) apply to <	this
reach.				
Observation of Special S	tatus Species:	one obse	Ned	
PreClearing Documen	tation			
Pre-Monitoring Conditio estimate. Attach photogr			-	t & cover
Protos (, 2, 3 producting p	ne-71. 9 400.	p. old st	ips at vegete	sta
ionsisting of mile Fut) and			some tanc	,
and ando		-		
Name of Biological Mon Post-Clearing Documen		Daniels	Date: Aug 20	,2019
Type of vegetation remains include arrows to indicate Photos (23)	important features). Est	imate amount of invas		<u>200)</u> \$
Compliance with Permit If partial compliance is a		Partial		
· · · · · · · · · · · · · · · · · · ·				
Problems or Recommend	ations (if more space is a	needed continue on the	e back of this form):	n
Name of Biological Mon	itor: Briand	aniels	Date: Dec. 3,	2019

Reach Number:
Special Permit Conditions (list):
Special permit conditions for unarmored
threesine stickleback (UTS) apply to this
reach.
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, 3; alternation halves cleared annually producing one-yr. of two-yt. old strips of vegetation consisting of nizarian scrub (withows, cotto woods,
nve Fat) and herbaceous species ; some tanarisk and arundo.
Name of Biological Monitor: Bran Davids Date: Aug 20, 2019 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. Protes 1, 2, 3; one-year old strip of Apara/herbaceous vegetation on 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: Brien Daviels Date: Dec. 3, 2019

Biological Resources Monitoring Form

Reach Number: 70
Special Permit Conditions (list):
Special semit conditions for unarmored
Three stickle back (UTS) apply to this
Accide
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.)
Photos 1, 2, 3, 4; alternating halves creared
annully leaving one-yr. IT two-yr. Dld veretation
(herbaceous species) in onea maintained; invasives
not a problem.
Name of Biological Monitor: Brian Daniels Date: Aug 20, 2019
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.
(sparse) vegetation of 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: Brian Daniels Date: Dec. 3, 2019

Biological Resources Monitoring Form

biological Resources Monitoring Form
Reach Number: 71
Special Permit Conditions (list):
Cleaning shall not occur beyond 20 ft. of the lavee.
special permit conormons to marmoner threepine
Stilleback (UTS) apply to the reach.
Observation of Special Status Species:
Pre-Clearing Documentation
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of frees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1, 2; vory sparse growth at herbaceous vegetation in area maintained; invasives not
a problem.
•
Name of Biological Monitor: Bran Danichs Date: Aux. 20, 2019
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. Anotes 1, 2; alwrial sage scores vegetation and a four cottonwoods
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: Brian Daviels Date: Dec. 3, 2019

Reach Number: 72
Special Permit Conditions (list):
no special permit conditions pertain 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.) <u>Photos 1, 2; herbaceness species with us Now</u> <u>captings at most of reach is area mantamed</u> ; <u>invasives not a problem</u> .
Name of Biological Monitor: <u>Bran Davids</u> Date: <u>Aug 26, 2017</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. Protos 1, 2; W: Moust cottonwoolds
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: Brian Daniels Date: Dec. 3, 2019

Reach Number: 73
Special Permit Conditions (list):
Inpacts shall not exceed 0.05 acre.
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.)
Photos 1, 2; sparse growth of herbaceous species
Name of Biological Monitor: Brian Daniels Date: Aug 26, 2019
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):
)
<i>)</i>
)
Name of Biological Monitor: Bran Darichs Date: Dec. 3 2019

Reach Number: 75 (byons Ave. to Ordrave Village Dr.)
Special Permit Conditions (list):
The vegetation (15.37 acres) allowed to remain in
1997 shall not be impacted by Extere maintenance activities.
(no vegetation allowed to remain between 1- Jons + Orchard Villar Dr.)
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>Protos 1, 2; mix of catterns, willow sappings, and</u> herbaccous vegetation in anca manufained; invesives
Name of Biological Monitor: Brian Daniels Date: And 26, 2019
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 I, 2; all vegetation removed in drame</u> (altrough photos show some regrowth already occurry on this date).
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: Bran Dances Date: Nov. 5, 2019

Biological Resources Monitoring Form

Reach Number: 75 (Orchard Village Dr. to Magic Mtn. Pluy.)
Special Permit Conditions (list):
The Vacatation (15.37 acres) allowed to remain in (997 shall not be impacted by future maintenance activities. (The protected vacatation is all between May anth. PKing and 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.) Photos 1, 2, 3, 4, 5, 6, 7, 2, 9, 10, 11; mostly unvege tatechin areas maintained, but some her saceous vegetation with cattains and willow saplings at wet outlets;
Name of Biological Monitor: <u>Brian Daniels</u> Date: <u>Aug 26, 2019</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>Protos 1, 2, 3, 4, 5, 6, 7, 3, 9, 10, 11; willows, cottenwoods, mule</u> fat and alwayial sage scores 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: Brien Darichs Date: Nov. 5, 2019

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Reach Number: <u>76</u>
Special Permit Conditions (list): No special permit Condition pertain to this reach, but the general Condition and measurer of the premits 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>hat 25, 26, 27</u> ; Ruderal Vegetation area maintained; <u>luvation</u> <u>moto problems</u>
Name of Biological Monitor: Jan Month Date: august 21, 2019
Name of Biological Monitor: <u>March</u> Date: <u>Meguel + 1, 2017</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>Photor 3, 4, 5' all Vegetation removed from channel</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>Kene Month</u> Date: Other 17, 2019

Biological Resources Monitoring Form

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Biological Resources Monitoring Form
Reach Number: 77
Special Permit Conditions (list):
Vegetation (0.89 acre) allowed to remain du 1987 shell not be imported by for manutenance activitie. (NOTE! This reach have potential for least Belli Vilico and
Sonta and sucker and should not be included as such on the toot penuit.
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.) <u>Photon 28,29; Palminely unvegetated in area maintained, but a few</u> where encies and present; dusing not a problem.
Name of Biological Monitor: <u>fleve Manh</u> Date: <u>August 21, 2019</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>Philos G, 7', some allewich rogo perub vegetation at downtream</u> <u>and of reach (at Confluence with Placent Creek-reach 78), but</u> <u>otherwise bare ditt</u>
Compliance with Permit Conditions: Full Partial
If partial compliance is apparent, describe circumstances:
Il pattial compliance is apparent, describe encumstances.
· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
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Name of Biological Monitor: Steve Movis Date: October 17, 2019

Biological Resources Monitoring Form

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Reach Number:	
	78
Special Permit Conc	ditions (list):
Vegetation (0,89 a	are allowed to remain der 1987 shall not be imported by
	with (NOTE: This reach have potentick for les TBelli Viller a
enta ano fucke	and should not be included as such on the took sem
Observation of Spec	sial Status Species: None observed.
PreClearing Docu	mentation
estimate. Attach pho	iditions - (briefly describe: Vegetation type, height of trees, invasive present & cover ptograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Which we get at a maintained, but a few and present; during not a problem.
••	
Name of Biological 1	Monitor: <u>ftere Mont</u> Date: august 21, 2019
Post-Clearing Docu	imentation
	emaining adjacent to removal area (briefly describe, attach photograph, include nportant features). Estimate amount of invasives removed.
	Cluitel sage scub Vegetation on Banks i
Notes 8, 9; a	Cluitel soge scub vegetation on banks :
Notes 8, 9; au Compliance with Per	<u>elluitel soze scub vegetation on banks</u> ;
Notes 8, 9; au Compliance with Per	Cluitel soge scub vegetation on banks :
Notes 8, 9; au Compliance with Per	<u>elluitel soze scub vegetation on banks</u> ;
Notes 8, 9; au Compliance with Per	<u>elluitel soze scub vegetation on banks</u> ;
Notes 8, 9; au Compliance with Per	<u>elluitel soze scub vegetation on banks</u> ;
Notes 8, 9, 4	<u>elluitel soze scub vegetation on banks</u> ;
Notes 8, 9, 4	Illuitul soge scub vegetatem on banks : rmit Conditions: Full Partial is apparent, describe circumstances: ;
Notes 8, 9, 4	Illuitul soge scub vegetatem on banks : rmit Conditions: Full Partial is apparent, describe circumstances: ;
Notes 8, 9, 4	Illuitul soge scub vegetatem on banks : rmit Conditions: Full Partial is apparent, describe circumstances: ;
Notes 8, 9, 4	Illuidul soga scuib Vegatation on Banks i rmit Conditions: Full Partial is apparent, describe circumstances: inendations (if more space is needed continue on the back of this form):

Reach Number: <u>79</u>
Special Permit Conditions (list):
Vegetation allance to remain in 1997 shall not be impacted by future maintenance activitics. Special permit conditions for unamored three price stalleback 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; mostly unexetated in area maintenned</u> , but some herbaceous vegetation in met spot below bridge; masures not a problem.
Name of Biological Monitor: <u>Burn Daniells</u> Date: <u>Date:</u> <u>Dat</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: Bran Darichs Date: Dec. 3, 2019

Reach Number:
Special Permit Conditions (list):
Cleaning shall not occur more than 20At. beyond toe of
levre. Vegetation allowed to remain in 1997 shall not be
invacted by future maintenance activities. Special permit conditors
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; sparse growth of herbaceous vegetation in area maintained; mugoves not
a problen.
An 20.
Name of Biological Monitor: Bran Daniels Date: Date: Date:
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; Willows, cottorwoods, mile 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: Brian Davids Date: Dec. 3, 2019

biological Resources Monitoring Form
Reach Number: <u>32</u>
Special Permit Conditions (list):
Clearing shall not extend more than doft. be joind to e of level Vegetation allowed to remain in 1997 shall not be impacted by fintere montenance activities. Special parmit conditions for Observation of Special Status Species: Aore 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 (, 2, 3, 4; catterils and herbaceous veretation at mouth of side outlet, but otherwise sparse growth of herbaceous veretation in area maintained (are area at millow septings); invasives not a problem.
Name of Biological Monitor: <u>Brown Daviels</u> Date: <u>Azz 27, 2019</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; w. Mows, cottonwoods</u> , <u>and mule</u> fat.
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: Bran Daniels Date: Dec. 3, 2019

Reach Number: 86
Special Permit Conditions (list): <u>VeyeTotion allowed To remain in 1997 thall not be imported by</u> <u>future Maintenance octivities, special permit Conditions longed</u> <u>on 12/09/03 apply to this reach</u> , (Stickleback) 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.) <u>Photos 1, 2, 3; Ruces Vegetation in low-flow channel mintained;</u> <u>climathic not a proflem</u> .
Name of Biological Monitor: <u>Reve Movin</u> Date: August 21, 2019
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 4, 5, 6</u> ; <u>Willow and Cottonwoods in Castale Creek ot</u> <u>lownsteen and of reach</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: Kare March Date: December 13, 2019

County of Los Angeles Department of Public Works

Flood Maintenance Division Earth Bottom Channel Program

87 Reach Number: Special Permit Conditions (list): cial pearte Conditions ilsued on 12/02/03 apply to this None observe 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.) 5; Reparlan herb and rederal Vegetet in in area Invalue not a problem. Kan Mouth Date: august 21, 2019 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; 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): Mare Moule Date: October 17, 2019 Name of Biological Monitor:

Revised 2016

Reach Number: 88
Special Permit Conditions (list): <u>Inpacts Mult not alleged O. 42 acre (1,085 linear FT. by 17 FT. wile) (NOTE:</u> <u>This resultion no potential for least Sellippicof Sonta and secret and should</u> <u>Mot be included as such on Acox permit</u>).
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.) <u>Photos 13,14</u> ; <u>prese growth of medocal Vegetation in and metatud</u> ; <u>cluvature not a problem</u> ,
Name of Biological Monitor: <u>Stere Month</u> Date: <u>Aseguit Z1, 2019</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><i>Platan II</i></u> , 12 <i>j Lage Lub/allunial Lage Level</i> .
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: Steve Month Date: January 15,2020

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

	<i>C</i>			
Reach Number:	89			
Special Permit Condition			a	
Vegetation (0.02 a	ne) allowed to	nemain in	1997 shall mat be	۹
				-
<u>Potential for beau</u> <u>metulad in such or</u> Observation of Special		1 0	er and should not.	be_
Observation of Special	Status Species: // W	me observed,		
PreClearing Docume	entation			
	ions – (briefly describe: graph): List invasives pre		ght of trees, invasive present & Bean, Trash, etc.)	cover
Photo 9: Very po	muse a moto of	rulas Vegeta	Tim In area matita	med "
duvalues not a	groblem.			<u> </u>
	7	and an an an and a state of the s		
Name of Biological Mor	nitor: Lae 9	Morria	Date: augur (21,	2019
Post-Clearing Docume				•••
.arrows to indicate impor		amount of invasives		le
Compliance with Permit	t Conditions: Full	Partial		
If partial compliance is a	apparent, describe circur	nstances:		
Problems or Recommend	dations (if more space is	needed continue on	the back of this form):	
	·		•	
Name of Biological Mon	nitor: <u>Steve</u>	Monte	Date: January 15	2070
			~	

County of Los Angeles Department of Public Works

Flood Maintenance Division Earth Bottom Channel Program

90 Reach Number: Special Permit Conditions (list): Vegetation (0.19 acre) allowed to remain In 1997 Mall not be Tene maintenance activities. Nove observe 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.) Photor 10,11,12; Apare growth of rudered Vegetation in area maintained; Invalue nota problem. Steve Mout Date: Clarger 21, 2019 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. 14, 15, 16; allivial Lago Scub and/or chileve Lago famb, 5/ 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): Stine Month Date: January 15, 2020 Name of Biological Monitor:

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Reach Number:
Special Permit Conditions (list):
No ppecial perit and the periting apply.
general Condition and measure of the permity 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.) [hotor 21, 22; Jourse growth of welcol Wegetation in area maintained; Invariant not a mobilizer.
Name of Biological Monitor: <u>Steve Moul</u> Date: <u>Augur (21, 2019</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. Motor 7,8; 6 manufal Vegetation.
Compliance with Permit Conditions: Full / Partial
If partial compliance is apparent, describe circumstances:
Il partial compliance is apparent, describe circumstances.
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· · · · · · · · · · · · · · · · · · ·
Problems or Recommendations (if more space is needed continue on the back of this form):
-
Name of Biological Monitor: Stane Month Date: Janey 15, 2020

Diological Resources Monitoring Form	
Reach Number: <u>12</u>	
Special Permit Conditions (list):	
To price penil (Grattion pertain to This reach, but the queral of very of the penit apply, (NOTE " The reach how pot article for least on the such on the book pe	Concella.
reamer of the perity apply, (NOTE: The reach barner potantice for least	Belli
	roul Co
Observation of Special Status Species: None officered.	
PreClearing Documentation	
Pre-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) Photon 23,24; Apars growth of rule of pegetation in and maintained; durance not a problem.	& cover
A	
Name of Biological Monitor: <u>fire Month</u> Date: <u>Megust 7</u>	<u>1, 2019</u>
Post-Clearing Documentation	
Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, incl arrows to indicate important features). Estimate amount of invasives removed. Photon 9,10 j Lage Scrub allunia Lage Scrub.	
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: March Date:/S	72020
	Revised 2016

Biological Resources Monitoring Form

Reach Number: <u>93</u>
Special Permit Conditions (list):
No special permit confitionen pertain to tais reach, chut the
querel condition and measures of the pents 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.) [hoto: 19,20; parce growth of moderal Vegetation in area malitained; Invarian mota phoblem.
· · ·
Name of Biological Monitor: <u>Stare Monin</u> Date: <u>August 21, 2019</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 5,6; Oats, Cheptanel, and some manual 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: Stere Month Date: January 15, 2020

Revised 2016

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Dividicul resources fronteering a orm
Reach Number: 99
Special Permit Conditions (list):
No special peril and the pertain to the reach, but the
general condition and measures of the penuits 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.) Photos 15,16,17,18; Very sparse growth of redered Vegetation In area maintained; dimenser not a profilem.
Name of Biological Monitor: 12 Month Date: august 21, 2019
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, 4; Oman Cel and underal Vegetation clomboart, but</u> fore Lage level / Chapanal species present.
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: Name Moule Date: January 15, 2020

Biological Resources Monitoring Form

Reach Number:
Special Permit Conditions (list):
No special permit conditions pertain 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.) Photos 1, 2, 3, 4; Sparse growth of herbaceous Ventation (bumblewed) in area mantance;
Name of Biological Monitor: Biological Monitor: Date: Aug. 20, 2019 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 $1, 2, 3, 4$; muggetated
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: Boom Daniels Date: Dec. 11, 2019

Revised 2016

Biological Resources Monitoring Form
Reach Number:
Special Permit Conditions (list): 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.) Photon 27, 28: 12 partine herb and weberal Vegetation An area maintaived; another present d's of bildge.
Name of Biological Monitor: Steve March Date: augur 7 26, 2019
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 7,8; Willow, Oak, and some omanual 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): have arendo still present 2/5 of bildge,
Name of Biological Monitor: <u>Alge Month</u> Date: January 14, 2020

Revised 2016

Reach Number: 97
Special Permit Conditions (list):
Oberatar shall me I mart the iterstation ((17200) allower of to
Operator shall not inpact the jegotation (1.17 acre) allowed to ransin in 1997, special permit conditions issued on 12/09/03 apply
To Tein reach, (Stillebart),
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 C, 7, 8; Repairen berb and underal Vegetation in area</u> <u>maintained</u> ; Invaire not a problem.
Name of Biological Monitor: <u>Stree Month</u> Date: <u>August 21, 2019</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; Willows; Cottonwoods, and Mule 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: Stone Moule Date: December 13, 2019

Biological Resources Monitoring Form

Reach Number: <u>93</u>
Special Permit Conditions (list):
Impacts shall not exceed 0.03 acre.
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; cattals and non-native spasses in and maintained; magices not a pro blen.
Name of Biological Monitor: <u>Docan Daniels</u> Date: <u>Aug. 16</u> , 2019 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>Protos 1, 2;</u>
· · · · · · · · · · · · · · · · · · ·
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: Brian Daricles Date:

Revised 2016

teach Number:		Biological	Resources Monito	ring Form	
pecial Permit Conditions (list): 12 special Permit Conditions (Conditions of Opplay to take reach, but the circul Conditions and measures of the permits opply. Deservation of Special Status Species: <u>None deserved</u> . tre-Clearing Documentation re-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & co stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) hotor 1, 2, 3, 4, 5, 6; <u>Rizarta hash or momental</u> willow bours a usdand Vegetation in area manutained; <u>Curredo and</u> one Castor Bean present. Jame of Biological Monitor: <u>Marce Monte</u> Date: <u>August 19, 2</u> ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <u>attack 9, 0, 11, 12, 13, 14; <u>Marcly ornaantal Vegetatury bot also none or</u> <u>ullowy, and Gynemetation</u> ype for vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <u>attack 9, 10, 11, 12, 13, 14; <u>Marcly ornaantal Vegetatury bot also none oro</u> <u>ullowy, and Gynemetar</u>, <u>Jonn August in Jord Maller of Kappl Carryn Poor</u> <u>ullows</u>, <u>and Gynemetar</u>, <u>Jonn August in Jord Maller of Kappl Carryn Poor</u> <u>ullows</u> or Recommendations (if more space is needed continue on the back of this form): <u>furneds on both Maler of Ugget Ornaan Boold Wedges to mot growing</u></u></u>	Reach Number:	99			
<i>Is you'd paint Confitme apply to take reach, but the</i> <i>circul Conditions and measures of the peints apply</i> . Deservation of Special Status Species: <i>Nore drawed</i> . Tre-Clearing Documentation re-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & co stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) <i>ho Cos</i> 1, 2, 3, 4, 5, 6; <i>Riperly</i> , <i>hash ornowart</i> , <i>Willow Bravel</i> <i>A sublered Vegetation in and maintained</i> ; <i>Arundo and</i> <i>and Castor Bean Present</i> . <i>The Clearing Documentation</i> <i>The Monitor Mark Monitor</i> Date: <i>August</i> 19, 2 <i>ost-Clearing Documentation</i> <i>ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <i>Jost Clearing Documentation</i> <i>ype of vegetation from the fatures</i>). <i>Estimate amount of the static photograph,</i> <i>clude arrows to indicate important features</i>). <i>Estimate amount of the static photograph,</i> <i>clude arrows to indicate important features</i>). <i>Estimate amount of the static photograph,</i> <i>clude arrows to indicate information</i> <i>store 9</i>(0), 11, 12, 13, 14; <i>Montely ornewise in both addies of Keypl Consymptore</i> <i>stoges</i> <i>compliance with Permit Conditions:</i> Full <u>Partial</u> <i>partial compliance is apparent, describe circumstances:</i> <i>partial compliance is apparent, describe circumstances:</i> <i>for a both addies of Keypl Consymptore during of the store form</i>): <i>for under on both addies of Keypl Consymptore during drives of the form</i>): <i>for a both addies of Keypl Consymptore during of the store of growing</i></i>		ions (list).			
Deservation of Special Status Species: <u>None observed</u> . Pre-Clearing Documentation re-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & co stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) hor Tox 1, 2, 3, 4, 5, 6; <u>Ripark</u> , hash or monental, Willow Brows and usdawd Vegetation in area maintained; and only and area of Biological Monitor: <u>Rae Monte</u> Date: <u>August 19, 2</u> ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <i>Boto 2</i> , 9,00,11,12,13,14; <u>Monthy or manutal Vegetation poor documents</u> <i>Allows, and Sycanores i Sock Analysis</i> on both while of Keysl Consyn Room <i>Allows, and Sycanores i Sock Analysis</i> on both while of Keysl Consyn Room <i>Allows, and Sycanores i Sock Analysis</i> on both while of Keysl Consyn Room <i>Allows on Both Mide of Keysl Consyn Rood Midde of this form</i>): <i>J. Analysis on Both Mide of Keysl Consyn Rood Midde of this form</i>): <i>J. Analysis on Both Mide of Keysl Consyn Rood Midde of this form</i>): <i>J. Analysis on Both Mide of Keysl Consyn Rood Midde of this form</i>):	· · ·	· · · · · · · · · · · · · · · · · · ·	apple To	Tay reach	but the
Deservation of Special Status Species: <u>None Specied</u> . Tre-Clearing Documentation re-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & co stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) hor Cos (1, 2, 3, 4, 5, 6; <i>Riparker hards or monore</i> Col, Willow Brand hor Cos (1, 2, 3, 4, 5, 6; <i>Riparker hards or monore</i> Col, Willow Brand how Castor Bean present. The cost of Bean present. Tame of Biological Monitor: <u>Marce Monte</u> Date: <u>August 19, 2</u> ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <i>Jose 9, 10, 11, 12, 13, 14; Martly or manutal Vegetatur, bot also some or</i> <i>Ulsury, and Gyramour, Intel arwals in both ulder of Kaps Comyn. Poor</i> <i>Ulsury, and Gyramour, Intel arwals in both ulder of Kaps Comyn. Poor</i> <i>Ulsury, and Gyramour, Intel arwals in both ulder of Kaps Comyn. Poor</i> <i>Ulsury, and Gyramour, Intel arwals in both ulder of Kaps Comyn. Poor</i> <i>Ulsury, and Gyramour, Intel arwals in both ulder of Kaps Comyn. Poor</i> <i>Ulsury, and Gyramour, Intel Conditions:</i> Full <u>Partial</u> ompliance with Permit Conditions: Full <u>Partial</u> <i>intel compliance is apparent, describe circumstances:</i> <i>Condens or Recommendations (if more space is needed continue on the back of this form):</i> <i>Garwabs on both ulder of Logal Oryan Rood Mubles of a not growing</i>	meneral Caroliti	me and mea	somen of the	he servite à	sply.
Pre-Clearing Documentation re-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & constimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) hor Tor 1, 2, 3, 4, 5, G; Ripark, hark or momental, Willow Brand and undered Vegetatlen in area Maintained; Casuado and one castor Bean present. iame of Biological Monitor:				<i>r</i> .	// <i>F</i>
re-Monitoring Conditions - (briefly describe: Vegetation type, height of trees, invasive present & co stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) horoz 1, 2, 3, 4, 5, 6; Rizarlan harb or monental, Willow blow of Muderal Vegetation in area matutained; Cuudo and ome Cartor Bean present; ame of Biological Monitor: <u>Mare Month</u> Date: <u>August 19, 2</u> ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <i>Jost 9, 10, 11, 12, 13, 14', Mart Ly ormanutal Vegetation, bot also some or</i> <i>Willows, and Lycanores, Jork Anards in bot Media of Kassi Comyn Rooc</i> <i>Wilger</i> compliance with Permit Conditions: Full <u>Partial</u> partial compliance is apparent, describe circumstances: <i>Gaundo on both Media of Kassi Comyn Rood</i> Medize in more present. <i>Januals on both Media of Kassi Comyn Rood</i> Medize in more present. <i>Januals on both Media of Kassi Computed States form</i>): <i>Januals on both Media of Kassi Computed States form</i>): <i>Januals on both Media of Kassi Computed States form</i>):	Observation of Specia	l Status Species:	None obser	red.	
stimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.) ho Tos 1, 2, 3, 4, 5, 6; Rizerlan harb ornonout Q. Willow brands ad rubbard Vegetation in area maintained; and and ome Castor Bean presents iame of Biological Monitor: <u>Rare Monte</u> Date: <u>August 19, 2</u> ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. <i>Store</i> 9, 10, 11, 12, 13, 14; <u>Monthy ornanutal Vegetation, bot also some or</u> <i>Ulswy, and graveses</i> for a curved on both added of Keysl Carryon Roor <i>Ulswy, and graveses</i> for a curved on both added of this form): partial compliance is apparent, describe circumstances: partial compliance is apparent, describe circumstances: <i>Gausson both addes of Keysl Consymptod Midge is not graving</i>	PreClearing Docum	entation			
ost-Clearing Documentation ype of vegetation remaining adjacent to removal area (briefly describe, attach photograph, clude arrows to indicate important features). Estimate amount of invasives removed. WTor 9/0/11/2/3/14/ Mortly ornarmital Vegetation, bot also some or Willows, and Sycanories & Sorte area on both side of Kagel Canryn Roor Wilges populance with Permit Conditions: Full Partial partial compliance is apparent, describe circumstances: poblems or Recommendations (if more space is needed continue on the back of this form): furned on both side of Kagel Congon Rood Budge is not growing	estimate. Attach photo Photos 1, 2, 3, 4	graph): List invasive 1. S. C. : Ripor egotatlen In	s present (Arundo, C In harb, or area main	Castor Bean, Trash, et monental, W	tc.)
clude arrows to indicate important features). Estimate amount of invasives removed. wTor 9/0/11/2/13/14' Mont by & manual Vegetation, but also some or Allows, and Sycamores of Some Areado on but aller of Kagel Carryon Rood Udges compliance with Permit Conditions: Full Partial F partial compliance is apparent, describe circumstances: For a compliance is apparent, describe circumstances: For the compliance of this form): f areado on both Adde of Kagel Constant on the back of this form): f areado on both Adde of Kagel Constant on the back of this form):	-		re Monie	Date:	Uegust 19, 20
Partial compliance is apparent, describe circumstances: roblems or Recommendations (if more space is needed continue on the back of this form): f aundor on both when of Keyel Consum Rood Budge in not proving	include arrows to indice $\frac{1}{10}$	ate important features 13,14 ', <i>Mortly</i>	s). Estimate amount manual Ve	of invasives remov getation, bot	ed. also some oak
Partial compliance is apparent, describe circumstances: roblems or Recommendations (if more space is needed continue on the back of this form): f aundor on both when of Keyel Consum Rood Budge in not proving	Compliance with Perr	uit Conditions:	Full P	artial	9-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
roblems or Recommendations (if more space is needed continue on the back of this form): If arendo on both ridge of Keyel Congon Road Bildge in not growing	•				
If arendo on both ride of Kegel Engon Road Bridge is not growing	FFF				
If arendo on both ride of Kegel Engon Road Bridge is not growing					
If arendo on both ride of Kegel Engon Road Bridge is not growing		••••••••••••••••••••••••••••••••••••••			
\mathcal{C}		both ride of	Kegel Congen Ro		
ame of Biological Monitor: <u>Aceve Moule</u> Date: <u>December 13, 20</u>	Name of Biological M	onitor: <u> </u>	ve Moule	Date: 🗾	cenber 13, 201

County of Los Angeles Department of Public Works Flood Maintenance Division

Earth Bottom Channel Program

Reach Number:
Special Permit Conditions (list):
No special permit Condition pertain to this reach, but the general
Condition and measurer of the permity apply.
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.) <u>Photos 29, 30, 31; Ziparlan herb, ruderal, and omountal Vegetation</u> <u>in area maintained; clarka not a problem.</u>
Name of Biological Monitor: <u>Scine Monin</u> Date: <u>Augurt 26, 2019</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. Ihtor 1, 2, 3; Willows, Oak, and ormanical 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: Steve Month Date: January 19, 2020

Reach Number:	
Special Permit Conditions (list):	
No special permit conditions pertain to this	
Nearth.	
Observation of Special Status Species:	_
PreClearing Documentation	
Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cove estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)	r
Photos 1, 2, 3, 4, 5; mix of cattails, riperian scree (mosthy willow saplings), and herbaceeus spectes; invasives not a probler	26
Name of Biological Monitor: Bran Daniels Date: Aug 27, 201	9
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.	Are
	_
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: Brian Danieles Date: Dec. 3, 2019	

Reach Number:
Special Permit Conditions (list):
Ao 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.) <u>Proto 1; cattants and bulmshere</u> with herbaceous (mix of native 7 non-native species) Vegetation, in area maintained jinvasives not a proslen.
Name of Biological Monitor: Bright Date: Au 29 2019
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 1; All non-native vegetation (i.e., palm trees) removed from</u> <u>upper part of this Beach. Native vegetation (i.e., cattails and</u> <u>bulrushes) remains untouched</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>Cristhian Mace</u> Date: January 8,2020

•	
Special Permit Conditio	ns (list):
No special pern	nit conditions pertain to this reach.
•	
Observation of Special S	
PreClearing Documer	itation
estimate. Attach photogr	ons – (briefly describe: Vegetation type, height of trees, invasive present & cover aph): List invasives present (Arundo, Castor Bean, Trash, etc.)
Photos 1, 2, 3, 4	s, 6; low growing herbaceous vegetation on at toe of left and right bank levees between
Sectiment bank	at the of left and right bank levers between
	aheim St; otherwise, the channel reach is
Name of Biological Mor	nitor: Brian Daniels Date: Aug. 27, 2019
Post-Clearing Documen	atation
include arrows to indicate	ning adjacent to removal area (briefly describe, attach photograph, e important features). Estimate amount of invasives removed.
	unrecetated.
	unvegetated.
	unvegetated.
Compliance with Permit	
Compliance with Permit	
Compliance with Permit	Conditions: Full Partial
Compliance with Permit	Conditions: Full Partial
Compliance with Permit	Conditions: Full Partial
Compliance with Permit If partial compliance is a	Conditions: Full <u>Partial</u> pparent, describe circumstances:
Compliance with Permit If partial compliance is a	Conditions: Full Partial
Compliance with Permit If partial compliance is a	Conditions: Full <u>Partial</u> pparent, describe circumstances:
Compliance with Permit If partial compliance is a	Conditions: Full <u>Partial</u> pparent, describe circumstances:
Compliance with Permit If partial compliance is a	Conditions: Full <u>Partial</u> pparent, describe circumstances:

Reach Number:			
Special Permit Conditions (list):			
Clearing of vegetation on banks shall occur with avoidance measures implemented for avoiding impacts to green sea turtles and roosting bats. 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.)
			Photos 1, 2, 3, 4, 5, 6, 7; mix of ornamental trees and shrubs
on both banks - most dense vegetation upstream, less			
dense downstream; some arundo, castor bean, and			
Washingtonia palms.			
Name of Biological Monitor: Brian Daniels Date: Sept. 3, 2019			
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; these photos show where work has occurred			
on right (or west) bank. Vegetation clearing not yet complete, but work will resume during the 2020-2021 season.			
but work will resume during the 2020-2021 season.			
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: Cristhian Mace Date: March 18, 2020			

Biological Resources Monitoring Form

Reach Number: 123
Special Permit Conditions (list):
Ao special permit conditions pertain to the read
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.) Protos 1, 2, 3, 4, 5; herbaceous vegetation in area mantenned; invasives not a problem
manteined; invasives not a problem
Name of Biological Monitor: Doctor Date: Az 29 2019
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: All vegetation removed from inside of</u> <u>channel. Some ornamental vegetation hangs over side of</u> <u>channel.</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: Cristhian Mace Date: January 8, 2020

Revised 2016

Reach Number:
Special Permit Conditions (list):
No special permit conditions pertain 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.)
Photos 1, 2, 3, 4; herbaceous vegetation in area
Photos 1, 2, 3, 4; herbaceous vegetation in area mantenned; invegeves pet a problem.
Name of Biological Monitor: Bion Dariels Date: Au 29, 2019
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; All vegetation removed from inside of
channel. Some willows near the upper end of the reach
and some ornamental regetation 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):
recommendations (in more space is needed continue on the back of this form).
Name of Biological Monitor: Cristhian Mace Date: January 8, 2020

ATTACHMENT NO. 4 PRE-CLEARING SURVEY AND REPORTS

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RESULT OF BIOLOGICAL MONITORING AT REACH 118 (RUSTIC CANYON) AND REACH 119 (RIVAS CANYON) SOFT-BOTTOM CHANNEL REACHES

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Balancing the Natural and Built Environment

January 20, 2020

Ms. Nandini T. Moran Los Angeles County Flood Control District Flood 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 MOU (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 Softbottom 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 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 January 20, 2020 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 Steve Morris, Cristhian Mace, Sarah Thomas, and senior biologist Brian Daniels. A total of twenty-one biological clearance surveys were conducted on November 12, 14, 15, 18-22, 25, 26, December 2, 3, 9-13, 16-18, and 20, 2019. Weather conditions during the surveys included temperatures ranging from approximately 54 to 66 degrees Fahrenheit, with wind speeds ranging from 0 to 3 miles per hour, and zero to 50 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 during clearance surveys. No wildlife species were relocated during the surveys. 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**

M. Almosti

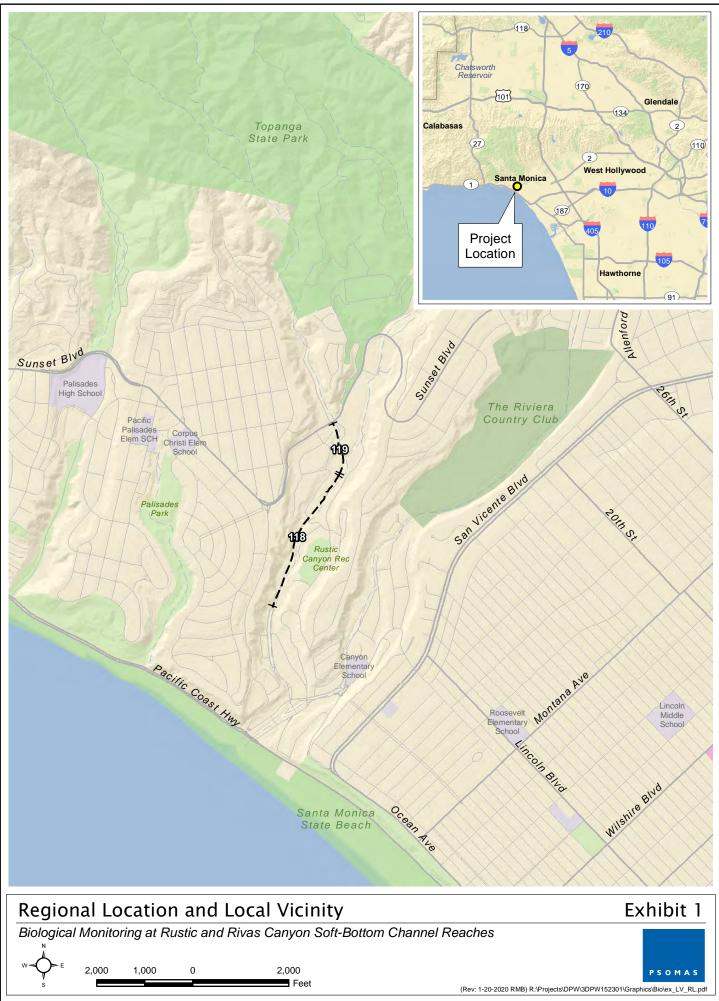
Ann M. Johnston Vice President, Resource Management

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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D:/Pro



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PreMonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PreMonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PreMonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_MonitoringPhotos.pdf



View of Reach 118 Rustic Canyon during biological monitoring of vegetation removal.

Monitoring Photos

Exhibit 2b-2

PSOMAS

Biological Monitoring at Rustic and Rivas Canyon Soft-Bottom Channel Reaches

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_MonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PostMonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PostMonitoringPhotos.pdf



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

(01/20/2020 RMB) R:\Projects\DPW\3DPW152301\Graphics\Bio\ex_PostMonitoringPhotos.pdf

ATTACHMENT A

WILDLIFE COMPENDIUM

WILDLIFE COMPENDIUM

Scientific Name	Common Name		
AMPH	IBIANS		
HYLIDAE - TREEFROG 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 - PIGEC	ON 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 - WOOD	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 AND 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 WORLD 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

ATTACHMENT NO. 5 2019-20 SOFT-BOTTOM CHANNEL PRE- AND POST-MAINTENANCE PHOTOS

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Reach 1

Bell Creek — MTD 963 M.C.I.

Before Photos 8/26/19









Reach 2

Dry Canyon (Calabasas) P.D. T1845

Before Photos 8/26/19















Reach 3

Santa Susana Creek M.C.I.

Before Photos 8/22/19











Reach 4

Browns Creek

Before Photos 8/22/19

After Photos 4/8/20









Reach 5

Caballero Creek M.C.I. (West Fork)

Before Photos 8/22/19













Reach 6

Caballero Creek M.C.I. (East Fork)

Before Photos 8/22/19









Reach 7

Bull Creek M.C.O.

Before Photo 8/26/19

After Photos 11/19/19













Reach 8

Hayvenhurst Drain — Project 470 Outlet

Before Photos 8/22/19

After Photos 12/13/19









Reach 9

Project 106 Outlet

Before Photos 8/22/19











Reach 10

Project No. 469

Before Photos 8/22/19

After Photos 2/19/20













Reach 10

Project No. 469

Before Photos 8/22/19

After Photos 2/19/20





Reach 12

Before Photos 8/16/19



After Photos 3/12/20











Reach 13 Project No. 5215 Unit 1

Before Photos 08/16/19

After Photos 10/14/19









Reach 14

May Channel (M.C.O. into Pacoima Canyon)

Before Photos 08/16/19

After Photos 10/14/19













Reach 15

Pacoima Wash

Before Photos 8/22/19













Reach 15

Pacoima Wash

Before Photos 8/22/19











Reach 16

Verdugo Wash — Las Barras Canyon (Channel Inlet)

Before Photos 8/19/19











Reach 18

Engleheard Channel

Before Photos 8/19/19













Reach 19

Pickens Canyon

Before Photos 8/19/19









Reach 20

Webber Channel (Storm at Private Bridge)

Before Photos 8/19/19

After Photos 3/9/20









Reach 21

Webber Channel (Main Channel Inlet d/s Bridge)

Before Photos 8/19/19











Reach 22

Halls Canyon

Before Photos 8/19/19













Reach 24

Compton Creek

Before Photos 8/17/19

After Photos 11/23/19













Reach 24

Compton Creek

Before Photos 8/17/19

After Photos 11/23/19









Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/17/19













Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/17/19









Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/17/19













Reach 25b

Los Angeles River — Willow to PCH (West/Right Bank)

Before Photos 8/17/19









Reach 26

Project 740

Before Photos 8/17/19













After Photos 10/19/19

Reach 26

Project 740

Before Photos 8/17/19













After Photos 10/19/19

Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/26/19













Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/26/19









Reach 28

Triunfo Creek (P.D. T2200)

Before Photos 8/26/19













Reach 29

Las Virgenes Creek (P.D. T1684) M.C.I.

Before Photos 8/26/19













Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/26/19













Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/26/19





Reach 33 Medea Creek (P.D. T1378 U.2)

Before Photos 8/26/19

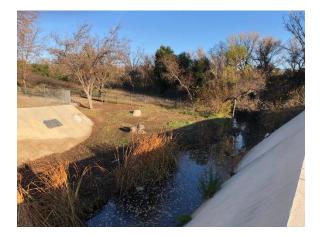












Reach 35

Medea Creek Main Channel Inlet — Under Route 101

Before Photos 8/26/19









Reach 36

Cheseboro Main Channel Inlet

Before Photos 8/26/19









Reach 37

Medea Creek/Cheseboro Creek Outlet

Before Photos 8/26/19









Reach 38

Lindero Main Channel Outlet

Before Photos 8/26/19









Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/23/19

After Photos 10/7/19













Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/23/19

After Photos 10/7/19





Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/23/19













Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/23/19









Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/23/19













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/23/19













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/23/19













Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/23/19













Reach 41

Walnut Creek — Baldwin Park to San Gabriel River

Before Photos 8/16/19















Reach 42

San Jose Creek d/s 1000 feet from end of concrete channel

Before Photos 8/16/19













Reach 43a

San Gabriel River — Upper

Before Photos 8/28/19













Reach 43a

San Gabriel River — Upper

Before Photos 8/28/19









Reach 43b

San Gabriel River — Lower

Before Photos 8/28/19













Reach 43b

San Gabriel River — Lower

Before Photos 8/28/19





Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/28/19













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/28/19













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/28/19













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/28/19













Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/28/19





Reach 45

Sand Canyon (P.D. T1307) Main Channel Inlet

Before Photos 819/19









Reach 46

Sand Canyon (P.D. T1307) Main Channel Outlet

Before Photos 8/19/19









Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/19/19















Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/19/19





Reach 48

Mint Canyon Channel between Sierra Highway & Adon Avenue

Before Photos 8/19/19









Reach 49

Mint Canyon Channel between Adon Avenue & Scherzinger Lane

Before Photos 8/19/19









Reach 50

Mint Canyon Channel between Solamint Road and Soledad Canyon Road

NO WORK DONE

Photos 8/19/19





Reach 51

Mint Canyon M.C.O. (P.D. 1894)/Santa Clara River — Main Channel

Before Photos 8/19/19









Reach 52

Sierra Highway Road Drainage (CDR 523.203)

NO WORK DONE

Before Photos 8/19/19



Reach 53

Santa Clara River Non-Main Channel (P.D. 832) Main Channel Inlet

Before Photos 8/19/19









Reach 54

Santa Clara River Non-Main Channel (P.D. 832) Main Outlet Channel

Before Photos 8/19/19









Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/19/19













Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/19/19













Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/19/19









Reach 56

Santa Clara River Main Channel — Left Bank Reach (P.D. 832)

Before Photos 8/19/19

After 12/2/19













Reach 57

Whites Canyon (P.D. T704 Main Channel Inlet)

Before Photos 8/19/19













Reach 58 (combined with Reach 59) Santa Clara River Main Channel — Right Bank Reach (P.D. 374) Before Photos 8/19/19 After Photos 12/2/19













Reach 58 (combined with Reach 59) Santa Clara River Main Channel — Right Bank Reach (P.D. 374) Before Photos 8/19/19 After Photos 12/2/19









Reach 60

Santa Clara River Main Channel — Right Bank Reach (P.D.'s 1339 and 374)

Before Photos 8/19/19













Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/19/19













Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/19/19













Reach 63

Oak Avenue Road Drainage (CDR 523.081)

Before Photos 8/19/19













Reach 64

Soledad Canyon Road Drainage (CDR 523.071 D Outlet)

Before Photos 8/19/19













Reach 66

Santa Clara River Main Channel (P.D. 1538)

Before Photos 8/19/19









Reach 67

Bouquet Canyon Upper (P.D.'s 1201, 802, 700B, and 625)

Before Photos 8/20/19













Reach 69

Bouquet Canyon Middle (P.D.'s 722, 773, 1365, 1065, and 451)

Before Photos 8/20/19













Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/20/19













Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/20/19





Reach 71

Santa Clara River Main Channel (P.D. 1946)

Before Photos 8/20/19









Reach 72

South Fork — SCR (Smizer Ranch Main Channel Inlet)











Reach 73

Wildwood Canyon Channel (P.D. T361) Main Channel Inlet











Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)















Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/26/19

After Photos 11/5/19













Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/26/19





After Photos 11/5/19









Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/26/19

After Photos 11/5/19













Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)







Reach 76

Pico Canyon (P.D. 813)

Before Photos 8/21/19

After Photos 10/17/19













Reach 77

Newhall Creek Outlet

Before Photos 8/21/19

After Photos 10/17/19









Reach 78

Placerita Creek

Before Photos 8/21/19

After Photos 10/17/19









Reach 79

South Fork — Santa Clara River (Valencia Boulevard Bridge Stabilizer)

Before Photos 8/20/19













Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/20/19













Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/20/19





Reach 82

Santa Clara River Main Channel (P.D. 2278) Before Photos 8/27/19 After Photos 12/3/19













Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/27/19





Reach 86

Violin Canyon Main Channel Outlet

Before Photos 8/21/19













Reach 87

Castaic — Old Road Drainage (CDR 525.021D) Outlet

Before Photos 8/21/19









Reach 88

Hasley Canyon Upper (P.D. T1496)

Before Photos 8/21/19









Reach 89

Hasley Canyon South Fork (P.D. T1496)

Before Photos 8/21/19





Reach 90

Hasley Canyon Lower (North Fork P.D. T1496)

Before Photos 8/21/19













Reach 91

San Martinez Chiquito Canyon Channel u/s of Keningston Road

Before Photos 8/21/19









Reach 92

San Martinez Chiquito Canyon (North Fork) Unnamed

Before Photos 8/21/19









Reach 93

San Martinez Chiquito Canyon between Keningston Road and Val Verde Park

Before Photos 8/21/19









Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/21/19













Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/21/19





Reach 95

Project No. 1224

Before Photos 8/20/19













Reach 95

Project No. 1224

Before Photos 8/20/19





Reach 96

PD 1591, Calabasas

Before Photos 8/26/19









Reach 97

P.D. T1982, Castaic Creek

Before Photos 8/21/19













Reach 98

Walnut Creek — Channel Inlet

Before Photos 8/16/19









Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/19/19













Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/19/19













Reach 100

Dry Canyon, Calabasas Creek Inlet

Before Photos 8/26/19











Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE







Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE





Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE







Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE







Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE



Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE







Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE







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

Photos 12/11/19







Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE

Photos 12/11/19







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 107

The Old Road Channel

NO WORK DONE



Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/27/19

After Photos 12/3/19













Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/27/19

After Photos 12/3/19









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 8/29/19

After Photos 1/8/20



NO WORK DONE



NO WORK DONE



Reach 112

Ballona Creek

Before Photos 8/29/19

After Photos 1/8/20



NO WORK DONE

IN THIS AREA



NO WORK DONE



Reach 112

Ballona Creek

Before Photos 8/29/19





Reach 113

Dominguez Channel

NO WORK DONE

Photos 9/4/19







Reach 113

Dominguez Channel

NO WORK DONE

Photos 9/4/19







Reach 113

Dominguez Channel

NO WORK DONE

Photos 9/4/19







Reach 114

Los Angeles River

Before Photos 8/27/19

After Photos 3/18/20



NO WORK DONE







Reach 114

Los Angeles River

Before Photos 8/27/19

After Photos 3/18/20











Reach 115

San Gabriel River

Before Photos 9/3/19

After Photos 3/18/20



NO WORK DONE

IN THIS AREA



NO WORK DONE



Reach 115

San Gabriel River

Before Photos 9/3/19

After Photos 3/18/20











Reach 115

San Gabriel River

Before Photos 9/3/19





Reach 116

Los Cerritos Channel

NO WORK DONE

Photos 9/3/19







Reach 116

Los Cerritos Channel

NO WORK DONE

Photos 9/3/19



Reach 117

Centinela Creek Channel

NO WORK DONE

Photos 8/29/19





Reach 118

Rustic Canyon

Before Photos 8/29/19













Reach 118

Rustic Canyon

Before Photos 8/29/19









Reach 119

Rivas Canyon Channel

Before Photo 8/29/19













Reach 119

Rivas Canyon Channel

Before Photo 8/29/19





Reach 120

Jake's Way Channel

NO WORK DONE







Reach 121

San Francisquito Creek (Newhall Ranch Road)

NO WORK DONE

Photos 8/22/19







Reach 121

San Francisquito Creek (Newhall Ranch Road)

NO WORK DONE

Photos 8/22/19







Reach 122

Las Virgenes Creek

NO WORK DONE







Reach 122

Las Virgenes Creek

NO WORK DONE







Reach 122

Las Virgenes Creek

NO WORK DONE





Reach 123

Haskell Canyon

NO WORK DONE

Photos 12/11/19







ATTACHMENT NO. 6

WATER QUALITY MONITORING SUMMARY REPORTS

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Los Angeles Basin Watershed - Soft-Bottom Channels Feasibility Studies Technical Assessments and Recommendations WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)

Ballona Creek Reach 112 North	12/10/2019			
LATITUDE (approx.)	33.986765	33.984031	33.98021	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.415909	118.419688	118.424731	
ELEVATION (approx.)	6	6	6	
TIME	10:54	11:10	11:21	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	Garo Avoyan arrived on the jobsite at 1045am to performed pre-work baseline monitoring and sampling and due to last minute notification and scheduling also performed last
TEMPERATURE (°C)	15.97	15.68	16.26	day of water sampling at upstream, internal, and downstream points at the Upper Ballona Creek Reach 112 North Side. Crews were out cleaning vegetation on the slope of the
pH	8.98	8.47	8.04	channel. Between 1054 and 1121, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	5.97	2.45	2.64	
DISSOLVED O ₂ (mg/L)	10.01	10	9.87	7
TOTAL SUSPENDED SOLIDS (mg/L)	18	9	10	
Ballona Creek Reach 112 North	12/13/2019			1
LATITUDE (approx.)	33.986765	33.984031	33.98021	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.415909	118.419688	118.424731	
ELEVATION (approx.)	6	6	6	
TIME	11:40	12:05	11:55	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	-Garo Avoyan arrived on the jobsite at 1130am to performed post work monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25
TEMPERATURE (°C)	17.88	17.18	17.36	West. Crews have finished cleaning vegetation on the slope of the channel and the BMPs have been removed. Turbidity reading was slightly high at the internal point. Lots of
pH	8.96	8.69	8.31	dirt and some debris were in the area of the channel. Between 1140 and 1205, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved
TURBIDITY (NTUs)	5.46	7.03	4.05	oxygen.
DISSOLVED O ₂ (mg/L)	10.05	9.9	9.99	1
TOTAL SUSPENDED SOLIDS (mg/L)	22	6	20	
	LL	0	20	J
Ballona Creek Reach 112 South	12/10/2019			
LATITUDE (approx.)	33.986641	33.984285	33.980196	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.415761	118.418752	118.424032	
ELEVATION (approx.)	5	5	5	7
TIME	12:10	11:55	11:41	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	Garo Avoyan arrived on the jobsite at 1050am to performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Upper Ballona
TEMPERATURE (°C)	18.44	16.92	16.97	Creek Reach 112 South Side. BMPs were placed on the south side of the channel. Baseline monitoring and sampling was performed one day prior of start date. Between 114
pH	9.81	8.66	8.13	and 1210, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for
TURBIDITY (NTUs)	4.23	2.45	2.79	start on Wednesday 12/11.
DISSOLVED O ₂ (mg/L)	10.01	9.9	9.93	
TOTAL SUSPENDED SOLIDS (mg/L)	7	24	55	
Ballona Creek Reach 112 South	12/11/2019			
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.415761	118.418752	118.424032	
ELEVATION (approx.)	5	5	5	
TIME	10:54	10:35	10:15	1
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	Garo Avoyan arrived on the jobsite at 1000am to performed water monitoring and sampling at upstream, internal, and downstream points at the Upper Ballona Creek Reach 112 South Side. BMPs were placed on the south side of the channel. Field crew were removing vegetation by hand on the slop of the south side of the channel. Water flow was steady but the tide was a little high especially at the upstream point. Between 1015 and 1054, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. The downstream TSS value of 31 was over the daily TSS limit (DTSSL) of 17.6 mg/L (16+10%).
TEMPERATURE (°C)	15.08	14.23	14.8	
	8.87	8.41	8.27	
л			3.29	
	3.42	2.98	3,29	
TURBIDITY (NTUs)	3.42 9.99	2.98		
	3.42 9.99 16	2.98 10.03 15	9.36 31	

Los Angeles Basin Watershed - Soft-Bottom Channels Feasibility Studies Technical Assessments and Recommendations WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)

Ballona Creek Reach 112 South	12/12/2019			
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.415761	118.418752	118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:40	8:17	8:07	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring and sampling at upstream, internal, and downstream points at the Upper Ballona Creek Reach 112
TEMPERATURE (°C)	13.03	13.59	13.9	South Side. Ocean Blue arrived out into the field to move the BMP from its original location and headed downstream on the south side of the channel. Field crew were removing
pH	8.62	8.42	8.44	vegetation by hand on the slop of the south side of the channel. Water level has risen but flow was steady. Between 0807 and 0840, collected and recorded water quality
TURBIDITY (NTUs)	1.87	2.12	1.94	parameters of temperature, pH, turbidity, and dissolved oxygen. The internal TSS value of 20 is over the daily TSS limit (DTSSL) of ND.
DISSOLVED O ₂ (mg/L)	9.93	9.8	10.03	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	20	ND	
Ballona Creek Reach 112 South	12/16/2019			·
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.415761	118.418752	118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:05	8:15	8:25	Garo Avoyan arrived on the jobsite at 0745am to performed water monitoring and sampling at upstream, internal, and downstream points at the Upper Ballona Creek Reach 112
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	South Side. Ocean Blue moved the BMP towards downstream over the weekend for the field crew to continue hand removal vegetations from the slope of the channel. Turbidity
TEMPERATURE (°C)	8.73	8.68	10.52	readings were slightly high at the internal and downstream points because of the strong winds from the previous day (12/15/2019). There were lots of debris and trash floating
H	8.58	8.5	8.12	on the surface of the water. Between 0805 and 0825, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. The internal and
TURBIDITY (NTUs)	1.21	1.88	2.05	downstream turbidity readings of 1.88 and 2.05 NTU were over 20% above the Daily Turbidity Limit of 1.45 NTU (1.21 + 20%). The internal and downstream TSS values of 8 and
DISSOLVED O ₂ (mg/L)	10.04	9.99	9.98	56 were over the daily TSS limit (DTSSL) of ND.
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8	56	
Ballona Creek Reach 112 South	12/18/2019	-		
LATITUDE (approx.)	33.986641	33.984285	33.980196	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.415761	118.418752	118.424032	
ELEVATION (approx.)	5	5	5	
TIME	7:56	7:43	7:18	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	Garo Avoyan arrived on the jobsite at 0710am to perform post water monitoring and sampling at upstream, internal, and downstream points at the Upper Ballona Creek Reach
TEMPERATURE (°C)	8.36	9.61	11.36	112 South Side. BMPs were removed and field crew finished all vegetation removal. Turbidity readings were slightly high at the internal and downstream points. The water leve was very low and clear. Lots of trash and dirt were very visible. Between 0718 and 0756, collected and recorded water quality parameters of temperature, pH, turbidity, and
Ha	8.62	8.5	8.51	
TURBIDITY (NTUs)	1.09	3.14	2.21	dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.96	9.98	9.94	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8	ND	
······································				
Compton Creek	9/14/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	7:51	8:25	7:17	Garo Avoyan arrived on the jobsite at 7am met with Edgar Mazariegos from Stormwater Maintenance Imperial Yard . Performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. Edgar Mazariegos assisted in cutting vegetation for a pathway for Upstream and Internal points. Baseline monitoring and sampling was performed two days prior of the placement of the BMPs and proposed start of cleanout operations. Between 0717 and 0825, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Monday 09/16.
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	
TEMPERATURE (°C)	20.9	22	21.7	
pH	7.3	7.5	7.5	
TURBIDITY (NTUs)	15.41	6.02	1.34	
	-			
2 ,				

Los Angeles Basin Watershed - Soft-Bottom Channels Feasibility Studies Technical Assessments and Recommendations WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)

Compton Creek	9/16/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:05	10:42	10:59	Greg Johnson arrived on-site about 0945 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. BMPs
SAMPLE NO.	CCSBC-1	CCSBC-2		consist of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Due to minimal water below the last BMP, downstream sampling
TEMPERATURE (°C)	21.36	21.85	23.91	point located in small pool immediately upstream of the lowest BMP. Between 1005 and 1059, collected and recorded water quality parameters of temperature, pH, turbidity,
pH	7.29	7.22	8.37	and dissolved oxygen. Phoned FMD Crew Leader Jeremy Winston with water quality results. The downstream TSS value of 25 was over the daily TSS limit (DTSSL) of 15.4 mg/L
TURBIDITY (NTUs)	26.2	6.18	4.03	(14+10%).
DISSOLVED O ₂ (mg/L)	1.89	11.17	10.5	
TOTAL SUSPENDED SOLIDS (mg/L)	14	8	25	
Compton Creek	9/17/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:20	9:45	8:25	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. BMPs consist
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Had to walk in the channel and collect water samples for downstream
TEMPERATURE (°C)	22.8	21.9	20.9	because of a pieces of cut logs and placed on the concrete access ramp leading into the LA River. Due to minimal water below the last BMP, downstream sampling point located
pH	7.78	7.65	7.3	in small pool immediately upstream of the lowest BMP. Between 0825 and 0945, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved
TURBIDITY (NTUs)	22.8	9.11	2.88	oxygen. Met with FMD Crew Leader Jeremy Winston with water quality results and discussed the removal of the pieces of log on the access ramp for future easy access.
DISSOLVED O ₂ (mg/L)	8.8	8.54	9.83	
TOTAL SUSPENDED SOLIDS (mg/L)	12	ND	ND	
Compton Creek	9/18/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:20	8:40	9:20	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. BMPs consist
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Due to minimal water below the last BMP, downstream sampling point
TEMPERATURE (°C)	21.34	20.91	22.53	located in small pool immediately upstream of the lowest BMP. Between 0820 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and
pH	7.79	7.39	7.41	dissolved oxygen. Informed FMD Crew Leader Jeremy Winston via cell phone with water quality results. The downstream TSS value of 32 was over the daily TSS limit (DTSSL) of
TURBIDITY (NTUs)	29.42	10.92	3.31	8.8 mg/L (8+10%).
DISSOLVED O ₂ (mg/L)	9.22	10.72	9.72	
TOTAL SUSPENDED SOLIDS (mg/L)	8	6	32	
Compton Creek	9/19/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:30	8:57	9:15	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Ms. Cindy
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	Harvey from Imperial Yard assisted with the water sampling at both upstream and internal points. BMPs consist of 3 separate rows of straw waddles anchored with sandbags
TEMPERATURE (°C)	22.4	22.6	24.6	from the end of the SBC to the LA River. Due to minimal water below the last BMP, downstream sampling point located in small pool immediately upstream of the lowest BMP.
pH	6.39	7.19	7.88	Between 0830 and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Informed FMD Crew Leader Jeremy Winston via
TURBIDITY (NTUs)	23.74	9.7	6.32	cell phone with water quality results. The internal and downstream TSS values of 10 and 27 were over the daily TSS limit (DTSSL) of ND.
DISSOLVED O ₂ (mg/L)	9.26	10.08	9.51	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	10	27	

Compton Creek	9/20/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:55	11:13	10:15	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Ms. Cindy
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	Harvey from Imperial Yard assisted with the water sampling at both upstream and internal points. BMPs consist of 3 separate rows of straw waddles anchored with sandbags
TEMPERATURE (°C)	22.56	22.47	22.26	from the end of the SBC to the LA River. Due to minimal water below the last BMP, downstream sampling point located in small pool immediately upstream of the lowest BMP.
pH	8.21	7.18	8.01	Between 1015 and 1113, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Informed FMD Crew Leader Jeremy Winston via
TURBIDITY (NTUs)	15.44	9.49	2.9	cell phone with water quality results.
DISSOLVED O ₂ (mg/L)	8.81	9.83	9.56	
TOTAL SUSPENDED SOLIDS (mg/L)	8	6	6	
Compton Creek	9/21/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	11:15	10:50	10:20	Garo Avoyan arrived on-site about 1010 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Ms. Cindy
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	Harvey from Imperial Yard assisted with the water sampling at internal point. BMPs consist of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC
TEMPERATURE (°C)	24.58	24.4	24.49	to the LA River. There was a very good amount of water flow at the downstream point and sample was taken at mini water fall above the third straw waddle anchored with
pН	6.65	7.32	6.74	sand bags. Between 1020 and 1115, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Informed FMD Crew Leader Jeremy
TURBIDITY (NTUs)	18.32	18.11	1.55	Winston via cell phone with water quality results. The internal TSS value of 20 was over the daily TSS limit (DTSSL) of 14.3 mg/L (13+10%).
DISSOLVED O ₂ (mg/L)	9.97	9.61	9.93	
TOTAL SUSPENDED SOLIDS (mg/L)	13	20	14	
Compton Creek	9/23/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	Garo Avoyan arrived on-site about 0805 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Mr. Seth
TIME	8:35	8:57	9:25	Fairfax from Imperial Yard assisted with the water sampling at internal point. Garo noticed lots of vegetation at the internal point as well as the turbidity readings rising each day
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	of water sampling at the same point. BMPs consist of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Due to minimal water
TEMPERATURE (°C)	21.97	21.2	22.2	below the last BMP, downstream sampling point located in small pool immediately upstream of the lowest BMP. Between 0835 and 0925, collected and recorded water quality
pH	6.61	7.01	6.82	parameters of temperature, pH, turbidity, and dissolved oxygen. Informed FMD Crew Leader Jeremy Winston via cell phone with water quality results. The internal and
TURBIDITY (NTUs)	26.91	26.26	3.91	downstream TSS values of 8 and 11 were over the daily TSS limit (DTSSL) of 7.7 mg/L (7+10%).
DISSOLVED O ₂ (mg/L)	9.88	9.96	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	7	8	11	
Compton Creek	10/4/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	Garo Avoyan arrived on-site about 0830 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. For the
TIME	8:42	9:09	9:29	internal point, there was a very bad odor as well as turbidity reading was very high at internal sampling point due lots of vegetations. Also Turbidity readings were a bit high at
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	the downstream as well. There was a very good amount of water flow at the downstream point and sample was taken at mini water fall above the third straw waddle anchored
TEMPERATURE (°C)	22.69	21.23	21.02	with sand bags. BMPs consist of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Between 0842 and 0929, collected and
pH	14	6.98	7.19	recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Garo informed FMD via cell phone with water quality results as well as the plan for the
TURBIDITY (NTUs)	5.63	18.82	8.51	internal point cleanout of the vegetation. The internal and downstream turbidity readings of 18.82 and 8.51 NTU were over 20% above the Daily Turbidity Limit of 6.76 NTU
DISSOLVED O ₂ (mg/L)	10.28	10.25	10.25	(5.63 + 20%). The downstream TSS value of 7 was over the daily TSS limit (DTSSL) of ND.
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	7	

Compton Creek	10/10/2019			
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				Garo Avoyan arrived on site about 0745 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed
TEMPERATURE (°C)				because the site did not meet Regional Water Quality Control Board (RWQCB). Garo notified FMD via phone call. GMED will continue to monitor the area to re-confirm
рН				conditions.
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Compton Creek	10/17/2019	•	•	
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				Garo Avoyan arrived on site about 0745 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed
TEMPERATURE (°C)				because the site did not meet Regional Water Quality Control Board (RWQCB). Garo notified FMD via phone call. GMED will continue to monitor the area to re-confirm
pH				conditions.
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Compton Creek	10/24/2019	•	•	
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	12:28	12:10	11:48	Garo Avoyan arrived on-site about 1130 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. All three (3)
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	sampling points had great amounts of water flowing. Also Turbidity readings were a bit high at both internal and downstream. BMPs consist of 3 separate rows of straw waddles
TEMPERATURE (°C)	22.42	22.53	22.11	anchored with sandbags from the end of the SBC to the LA River. Between 1148 and 1228, collected and recorded water quality parameters of temperature, pH, turbidity, and
pH	7.7	7.74	7.84	dissolved oxygen. Garo informed FMD via cell phone with water quality results. The internal and downstream turbidity readings of 2.2 and 1.77 NTU were over 20% above the
TURBIDITY (NTUs)	1.22	2.2	1.77	Daily Turbidity Limit of 1.46 NTU (1.22 + 20%).
DISSOLVED O ₂ (mg/L)	8.6	9.91	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	8	5	ND	
Compton Creek	11/1/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:10	10:23	10:39	Care Average arrived on site about 0000 to perform during maintenance water quality manifering and compling at the unstream integral and deverting as into While
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. While
TEMPERATURE (°C)	13.95	16.94	17.16	sampling at the internal point, there was a minor malfunction with the water quality machine and it had to be taken to our vendor for repairs. Garo was able resume water
	10.00			sampling after 2 hours. BMPs consist of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Between 0810 and 1039 collected
pH	7.84	7.26	7.53	
pH TURBIDITY (NTUs)		7.26 3.45	7.53 1.2	and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Garo informed FMD via text message with water quality results.
· · · · ·	7.84			

Compton Creek	11/6/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	Garo Avoyan arrived on-site about 1030 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. BMPs consist
TIME	11:09	10:50	10:35	of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Turbidity readings were high at both internal and downstream because of
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	high volume of dirt. Also the water level at the third BMP as well as the water level also has risen with lots of dirt accumulated as well. The internal had foam bubbles. We
TEMPERATURE (°C)	17.32	18.07	18.23	discussed placing a bmp at the internal point to reduce turbidity readings. Between 1035 and 1109 collected and recorded water quality parameters of temperature, pH,
pH	7.94	8.14	8.33	turbidity, and dissolved oxygen. Garo informed FMD via phone call with water quality results. The internal and downstream turbidity readings of 16.16 and 7.38 NTU were over
TURBIDITY (NTUs)	2.13	16.16	7.38	20% above the Daily Turbidity Limit of 2.56 NTU (2.13 + 20%). The internal TSS value of 47 was over the daily TSS limit (DTSSL) of 6.6 mg/L (6+10%)
DISSOLVED O ₂ (mg/L)	9.46	9.3	10.01	
TOTAL SUSPENDED SOLIDS (mg/L)	6	47	6	
Compton Creek	11/14/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	Garo Avoyan arrived on-site about 0920 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. BMPs consist
TIME	10:28	10:00	9:35	9:35 of 3 separate rows of straw waddles anchored with sandbags from the end of the SBC to the LA River. Maintenance crew were operating heavy equipment on the nort
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3 Compton Creek. Turbidity readings were slightly high at internal because of high volume of dirt. May need to add a BMP to reduce turbidity readings to allowance leve	
TEMPERATURE (°C)	17.6	18.55	17.76	0935 and 1028 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Garo informed FMD via phone call with water quality
рН	8.02	7.98	8.07	results. The internal turbidity reading of 4.07 NTU was over 20% above the Daily Turbidity Limit of 1.98 NTU (1.65 + 20%). The internal TSS value of 10 was over the daily TSS
TURBIDITY (NTUs)	1.65	4.07	1.45	limit (DTSSL) of 8.8 mg/L (8+10%).
DISSOLVED O ₂ (mg/L)	9.98	10.05	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	8	10	7	
Compton Creek	12/13/2019			
LATITUDE (approx.)	33.8714707	33.8554341	33.8418539	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.2159757	118.2134476	118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:20	9:57	9:34	Garo Avoyan arrived on-site about 0925 to perform post water monitoring and sampling at the upstream, internal, and downstream points of Compton Creek. The BMPs placed
SAMPLE NO.	CCSBC-1	CCSBC-2	CCSBC-3	at the downstream point were washed away in the rain from the previous weeks. Maintenance crew finished all vegetation removal. Turbidity readings was high at internal
TEMPERATURE (°C)	15.45	15.54	15.43	because of high volume of dirt. This was cause by the rain from the previous week. Between 0934 and 1020 collected and recorded water quality parameters of temperature,
pH	7.68	8.4	9.27	pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	9.74	19.11	6.74	pri, tarbiaty, and absolved oxygen.
DISSOLVED O ₂ (mg/L)	10.04	9.98	9.92	
TOTAL SUSPENDED SOLIDS (mg/L)	7	9	8	

Dry Canyon PD 1845	8/30/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	8:00	8:20	8:45	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed baseline monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 08/30/19 (Friday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	20.79	20.39	20.36	conducted between 0800 and 0845. Collected and recorded field readings of temperature (20.36 to 20.79°C), pH (7.79 to 8.03), turbidity (1.20 to 2.60 NTUs), and dissolved
рН	7.79	7.85	8.03	oxygen (4.40 to 4.97mg/L).
TURBIDITY (NTUs)	2.6	1.2	1.47	
DISSOLVED O ₂ (mg/L)	4.97	4.4	4.96	
TOTAL SUSPENDED SOLIDS (mg/L)	9	5	10	
Dry Canyon PD 1845	9/3/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	11:00	11:15	11:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	45R2-2 DCPD1845R2-3 Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/3/19 (Tuesday). Upstream, downstream, and internal sampling for Dry Canyon PD 1845 Reach 2, on 09/3/19 (Tuesday). Upstream, downstream, and internal sampling for Dry Canyon PD 1845 Reach 2, on 09/3/19 (Tuesday).	
TEMPERATURE (°C)	23.44	25.02	24.96	between 1100 and 1130. Collected and recorded field readings of temperature (23.44 to 25.02°C), pH (8.08 to 8.48), turbidity (1.61 to 1.75 NTUs), and dissolved oxygen (4.63 to
pH	8.08	8.32	8.48	5.69mg/L). The downstream TSS value of 26 was over the daily TSS limit (DTSSL) of 13.2 mg/L (12+10%)
TURBIDITY (NTUs)	1.75	1.9	1.61	
DISSOLVED O ₂ (mg/L)	4.63	5.69	5.59	
TOTAL SUSPENDED SOLIDS (mg/L)	12	ND	26	
Dry Canyon PD 1845	9/4/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	10:00	10:15	10:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/4/19 (Wednesday). Upstream, downstream, and internal sampling was conducted between 1000 and 1030. Collected and recorded field readings of temperature (21.17 to 22.80°C), pH (7.77 to 8.04), turbidity (2.01 to 2.54 NTUs), and dissolved
TEMPERATURE (°C)	21.17	22.8	22.14	oxygen (2.65 to 3.32mg/L). The downstream turbidity reading of 2.54 NTU was over 20% above the Daily Turbidity Limit of 2.51 NTU (2.09 + 20%). The internal and downstream
pH	7.77	7.81	8.04	TSS values of 8 and 10 were over the daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	2.09	2.01	2.54	
DISSOLVED O ₂ (mg/L)	2.65	3.32	3.13	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8	10	

Dry Canyon PD 1845	9/5/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	8:00	8:15	8:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/5/19 (Thursday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	20.74	22.41	21.28	between 0800 and 0830. Collected and recorded field readings of temperature (20.74 to 22.41°C), pH (7.77 to 8.05), turbidity (1.73 to 1.84 NTUs), and dissolved oxygen (2.18 to
рН	7.77	7.9	8.05	7.62mg/L). The downstream TSS value of 15 was over the daily TSS limit (DTSSL) of 11 mg/L (10+10%).
TURBIDITY (NTUs)	1.84	1.77	1.73	
DISSOLVED O ₂ (mg/L)	2.18	7.62	7.43	
TOTAL SUSPENDED SOLIDS (mg/L)	10	10	15	
Dry Canyon PD 1845	9/6/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	7:00	7:15	7:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	15R2-2 DCPD1845R2-3 Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/6/19 (Friday). Upstream, downstream, and internal sampling	
TEMPERATURE (°C)	19.6	21.34	20.24	between 0700 and 0730. Collected and recorded field readings of temperature (19.60 to 21.34°C), pH (7.80 to 8.08), turbidity (1.53 to 1.93 NTUs), and dissolved oxygen (2.41 to
pH	7.8	7.94	8.08	7.31mg/L). The downstream turbidity reading of 1.93 NTU was over 20% above the Daily Turbidity Limit of 1.84 NTU (1.53 + 20%).
TURBIDITY (NTUs)	1.53	1.83	1.93	
DISSOLVED O ₂ (mg/L)	7.31	4	2.41	
TOTAL SUSPENDED SOLIDS (mg/L)	16	12	14	
Dry Canyon PD 1845	9/7/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	7:00	7:15	7:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/7/19 (Saturday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	19.13	20.6	19.8	between 0700 and 0730. Collected and recorded field readings of temperature (19.13 to 20.60°C), pH (7.84 to 8.05), turbidity (1.30 to 1.75 NTUs), and dissolved oxygen (2.30 to
pH	7.84	8	8.05	7.36mg/L). The internal and downstream turbidity readings of 1.75 and 1.64 NTU were over 20% above the Daily Turbidity Limit of 1.56 NTU (1.3 + 20%).
TURBIDITY (NTUs)	1.3	1.75	1.64	
DISSOLVED O ₂ (mg/L)	7.36	3.06	2.3	
TOTAL SUSPENDED SOLIDS (mg/L)	54	40	46	

Dry Canyon PD 1845	9/9/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	7:00	7:15	7:30	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/9/19 (Monday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	17.15	17.25	17.81	between 0700 and 0730. Collected and recorded field readings of temperature (17.15 to 17.81°C), pH (7.84 to 8.05), turbidity (1.45 to 1.65 NTUs), and dissolved oxygen (2.08 to
pH	7.84	8.01	8.05	2.97mg/L). The internal and downstream TSS values of 12 and 18 were over the daily TSS limit (DTSSL) of 11 mg/L (10+10%).
TURBIDITY (NTUs)	1.45	1.65	1.41	
DISSOLVED O ₂ (mg/L)	2.22	2.97	2.08	
TOTAL SUSPENDED SOLIDS (mg/L)	10	12	18	
Dry Canyon PD 1845	9/10/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	7:30	7:15	7:00	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/10/19 (Tuesday). Upstream, downstream, and internal sampling was conducted between 0700 and 0730. Collected and recorded field readings of temperature (18.88 to 19.75°C), pH (7.87 to 8.18), turbidity (1.19 to 1.57 NTUs), and dissolved oxygen (1.81 to
TEMPERATURE (°C)	18.88	19.1	19.75	1.57mg/L). The internal turbidity reading of 1.57 NTU was over 20% above the Daily Turbidity Limit of 1.54 NTU (1.28 + 20%). The internal and downstream TSS values of 6 and
pH	7.87	8.11	8.18	6 were over the daily TSS limit (DTSSL) of 5.5 mg/L (5+10%).
TURBIDITY (NTUs)	1.28	1.57	1.19	
DISSOLVED O ₂ (mg/L)	1.81	7.31	2.19	
TOTAL SUSPENDED SOLIDS (mg/L)	5	6	6	
Dry Canyon PD 1845	9/17/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	12:30	12:15	12:00	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/17/19 (Tuesday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	19.53	21.58	21.47	between 1200 and 1230. The internal and downstream TSS values of 5 and 6 were over the daily TSS limit (DTSSL) of ND.
pH	8.08	8.42	8.51	
TURBIDITY (NTUs)	1.43	1.38	1.7	
DISSOLVED O ₂ (mg/L)	7.42	5.28	7.48	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	5	6	

Dry Canyon PD 1845	9/24/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	8:30	8:15	8:00	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 09/24/19 (Tuesday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	16.35	16.31		between 0800 and 0830. The internal TSS value of 12 was over the daily TSS limit (DTSSL) of 11 mg/L (10+10%).
рН	7.95	8.17	8.23	
TURBIDITY (NTUs)	1.7	1.88	1.62	
DISSOLVED O ₂ (mg/L)	2.74	3.04	6.33	
TOTAL SUSPENDED SOLIDS (mg/L)	10	12	8	
Dry Canyon PD 1845	10/1/2019			
LATITUDE (approx.)	34.147377	34.149478	34.150906	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.630441	118.631474	118.631781	
ELEVATION (approx.)	693	957	952	
TIME	8:30	8:15	8:00	
SAMPLE NO.	DCPD1845R2-1	DCPD1845R2-2	DCPD1845R2-3	Chris Cunningham performed post work monitoring and sampling for Dry Canyon PD 1845 Reach 2, on 10/1/19 (Tuesday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	13.28	12.97	12.63	conducted between 0800 and 0830.
рН	7.94	8.13	8.19	
TURBIDITY (NTUs)	3.02	1.98	1.76	
DISSOLVED O ₂ (mg/L)	1.75	2.03	1.93	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	10	

Dunsmuir Debris Basin	3/5/2020			
LATITUDE (approx.)	34.248695	34.248481	34.248135	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.252994	118.253258	118.25334	
ELEVATION (approx.)	2256	2246	2243	
TIME	7:45	8:00	8:15	
SAMPLE NO.	DDB-1	DDB-2	DDB-3	Chris Cunningham, of GMED Geology Investigations, arrived on site about 745 to evaluate existing conditions at the upstream, internal, and downstream sampling points prior to
TEMPERATURE (°C)	11.06	10.76	12.58	performing pre-work/baseline water quality monitoring and sampling. Pre-work/baseline water quality monitoring and sampling was scheduled within 7 days of the proposed
рН	8.19	9.08	8.82	start date. From a water quality standpoint, project is "good to go" for proposed start on Friday, 3/06. Findings forwarded to FMD personnel at Hansen Yard.
TURBIDITY (NTUs)	1.23	5.89	1.45	
DISSOLVED O ₂ (mg/L)	5.23	6.98	6.42	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	9	ND	
Dunsmuir Debris Basin	3/6/2020			
LATITUDE (approx.)	34.248695	34.248481	34.248135	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.252994	118.253258	118.25334	
ELEVATION (approx.)	2256	2246	2243	
TIME	10:00	10:15	10:30	
SAMPLE NO.	DDB-1	DDB-2	DDB-3	Chris Cunningham, of GMED Geology Investigations, arrived on site about 10:00 to evaluate existing conditions at the upstream, internal, and downstream sampling points prior
TEMPERATURE (°C)	17.34	16.87	17.91	to performing water quality monitoring and sampling. The internal turbidity reading of 4.58 NTU is over 20% above the Daily Turbidity Limit of 0.16 NTU (0.13 + 20%). The
рН	8.82	10.08	9.44	internal TSS value of 6.00 mg/L is over 10% above the Daily TSS Limit (DTSSL) of ND. Findings forwarded to FMD personnel at Hansen Yard.
TURBIDITY (NTUs)	0.13	4.58	0.09	
DISSOLVED O ₂ (mg/L)	5.69	9.81	5.43	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	ND	

Dunsmuir Debris Basin	3/11/2020			
LATITUDE (approx.)	34.248695	34.248481	34.248135	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.252994	118.253258	118.25334	
ELEVATION (approx.)	2256	2246	2243	
TIME	12:00	12:15	12:30	
SAMPLE NO.	DDB-1	DDB-2	DDB-3	
TEMPERATURE (°C)	16.39	16.1	16.5	Chris Cunningham, of GMED Geology Investigations, arrived on site about 12:00 to evaluate existing conditions at the upstream, internal, and downstream sampling points prior
Ha	8.79	8.24	9.27	to performing water quality monitoring and sampling. Findings forwarded to FMD personnel at Hansen Yard.
TURBIDITY (NTUs)	0.35	5.11	0.04	
DISSOLVED O ₂ (mg/L)	4.49	3.12	4.2	
TOTAL SUSPENDED SOLIDS (mg/L)	6	14	ND	
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Eagle Debris Basin	3/6/2020			
LATITUDE (approx.)	34.238923°	34.235606°	34.233480°	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.240006°	118.236559°	118.237558°	
ELEVATION (approx.)	2009'	1850'	1804'	
TIME	10:15	12:30	12:45	Chris Cunningham, of GMED's Geology Investigations, arrived on site about 10:15 to evaluate existing conditions at the upstream, internal, and downstream sampling points
SAMPLE NO.	EDB-1	EDB-2	EDB-3	prior to performing pre-work/baseline water quality monitoring and sampling. Baseline monitoring and sampling was performed within one (1) week of placement of BMPs and
TEMPERATURE (°C)	11.27	13.8	11.58	proposed start of cleanout operations. A significant amount of naturally-occurring suspended and floating debris was noted in the area of the internal sampling point which
pН	9.48	8.93	9.37	may affect turbidity and TSS values. From a water quality standpoint, project is "good to go" for proposed start on Tuesday, 03/10. Findings forwarded via e-mail to FMD
TURBIDITY (NTUs)	3.1	0.89	0.36	personnel at Hansen Yard.
DISSOLVED O ₂ (mg/L)	5.59	3.17	5.07	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	11	ND	
Eagle Debris Basin	3/9/2020			
LATITUDE (approx.)	34.238923°	34.235606°	34.233480°	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.240006°	118.236559°	118.237558°	
ELEVATION (approx.)	2009'	1850'	1804'	
TIME	10:15	12:30	12:45	
SAMPLE NO.	EDB-1	EDB-2	EDB-3	1st day of field operations. Chris Cunningham, of GMED's Materials Lab, arrived on site about 10:15 to evaluate existing conditions at the upstream, internal, and downstream sampling points prior to performing during maintenance water quality monitoring and sampling. A significant amount of naturally-occurring suspended and floating debris was
TEMPERATURE (°C)	11.27	13.8	11.58	
pH	9.48	8.93	9.37	noted in the area of the internal sampling point which may affect turbidity and TSS values. The internal TSS values of 11 mg/L is above the Daily TSS Limit (DTSSL) of ND.
TURBIDITY (NTUs)	3.1	0.89	0.36	Findings forwarded via e-mail to FMD personnel at Hansen Yard.
DISSOLVED O ₂ (mg/L)	5.59	3.17	5.07	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	11	ND	
Eagle Debris Basin	3/9/2020			
LATITUDE (approx.)	34.238923°	34.235606°	34.233480°	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.240006°	118.236559°	118.237558°	
ELEVATION (approx.)	2009'	1850'	1804'	
TIME	9:10	9:30	9:45	
SAMPLE NO.	EDB-1	EDB-2	EDB-3	Chris Cunningham, of GMED's Materials Lab, arrived on site about 9:10 to evaluate existing conditions at the upstream, internal, and downstream sampling points prior to
TEMPERATURE (°C)	10.46	10.44	11.4	performing post-work water quality monitoring and sampling. BMP removed. A significant amount of naturally-occurring suspended and floating debris was noted in the area
рН	9.51	8.34	8.75	of the internal sampling point which may affect turbidity and TSS values. Findings forwarded via e-mail to FMD personnel at Hansen Yard.
TURBIDITY (NTUs)	0.67	4.74	0.98	
DISSOLVED O ₂ (mg/L)	3.99	5.17	3.1	
TOTAL SUSPENDED SOLIDS (mg/L)	9	61	11	

Golf Club Debris Basin	8/23/2019			
LATITUDE (approx.)	34.17003	34.169839	34.16939	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.203768	118.204058	118.204411	
ELEVATION (approx.)	879	879	870	
TIME	8:24	8:48	9:20	
SAMPLE NO.	GCDB-1	GCDB-2	GCDB-3	Garo Avoyan arrived on the jobsite at 8am by entering through the gates from Golf Club Drive. Upon arrival, he met Mr. Jacob Villegas from Stormwater Maintenance Pickens
TEMPERATURE (°C)	20.6	19.6	19.8	Yard. Performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Golf Club Debris Basin. Between 0824 and 0920, collected and
рН	4.79	7.2	6.62	recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Monday 08/26.
TURBIDITY (NTUs)	0.31	2.74	3.45	
DISSOLVED O ₂ (mg/L)	9.78	9.48	9.37	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8	8	
Golf Club Debris Basin	8/29/2019			
LATITUDE (approx.)	34.17003	34.169839	34.16939	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.203768	118.204058	118.204411	
ELEVATION (approx.)	879	879	870	
TIME	9:30	9:58	10:20	Garo Avoyan arrived on the jobsite at 0915am by entering through the gates from Golf Club Drive. Upon arrival, he met with Mr. Marlin Thomas from Stormwater Maintenance
SAMPLE NO.	GCDB-1	GCDB-2	GCDB-3	Pickens Yard. Performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Golf Club Debris Basin. Between 0930 and 1020,
TEMPERATURE (°C)	22.8	22.5	22.3	collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on
pH	0.78	3.96	4.39	Tuesday 09/03. Water quality testing was subsequently canceled as the Department determined that the work within the basin was required due to construction of
TURBIDITY (NTUs)	0.78	3.96	4.39	improvements rather than ordinary maintenance.
DISSOLVED O ₂ (mg/L)	9.84	9.09	9.04	
TOTAL SUSPENDED SOLIDS (mg/L)	7	14	14	

Haines Canyon Channel Reach 12	1/30/2020	
LATITUDE (approx.)		Pre-Clearing/Baseline
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Care August provined as site shout 0000 and met with David Jacobs, Dublis Warks Craw Lander, from Starmwater Meintenance Dislans Verdite avaluate surface water flow arises
SAMPLE NO.		Garo Avoyan arrived on site about 0800 and met with Paul Jacobs, Public Works Crew Leader, from Stormwater Maintenance Pickens Yard to evaluate surface water flow prior
TEMPERATURE (°C)		to initiating baseline monitoring and sampling. The downstream sampling of Reach 12 located on the south bank of the channel about 530 feet west and downstream of the end
pH		of the open-box concrete channel was dry. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board
TURBIDITY (NTUs)		(RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water quality standpoint, project is "good to go" for start on Friday 01/31.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Haines Canyon Channel Reach 12	1/31/2020	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Garo Avoyan arrived on site about 0800 and met with Paul Jacobs, Public Works Crew Leader, from Stormwater Maintenance Pickens Yard to conduct daily water monitoring and
SAMPLE NO.		sampling. Internal sampling point is located on the north bank of the channel about 125 feet west and downstream of the end of the open box concrete channel and the
TEMPERATURE (°C)		downstream point is located on the south bank of the channel about 530 feet west and downstream of the end of the open-box concrete channel. These locations were dry.
рН		Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm
TURBIDITY (NTUs)		conditions. Garo Avoyan informed Paul Jacobs of these results as well.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

Haines Canyon Channel Reach 12	2/2/2020	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Garo Avoyan arrived on site about 0800 and met with Paul Jacobs, Public Works Crew Leader, from Stormwater Maintenance Pickens Yard to conduct daily water monitoring and
SAMPLE NO.		sampling. Internalsampling point is located on the north bank of the channel about 125 feet west and downstream of the end of the open box concrete channel and the
TEMPERATURE (°C)		downstream is located on the south bank of the channel about 530 feet west and downstream of the end of the open-box concrete channel. These locations were dry. Water
рН		sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		Garo Avoyan informed Paul Jacobs of these results as well.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Haines Canyon Channel Reach 12	2/4/2020	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Garo Avoyan arrived on site about 0930 and met with Paul Jacobs, Public Works Crew Leader, from Stormwater Maintenance Pickens Yard to conduct daily water monitoring and
SAMPLE NO.		sampling. Internal sampling point is located on the north bank of the channel about 125 feet west and downstream of the end of the open box concrete channel and the
TEMPERATURE (°C)		downstream point is located on the south bank of the channel about 530 feet west and downstream of the end of the open-box concrete channel. These locations were dry.
рН		Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm
TURBIDITY (NTUs)		conditions. Garo Avoyan informed Paul Jacobs of these results as well.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Haines Canyon Channel Reach 12	2/11/2020	
LATITUDE (approx.)		Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Garo Avoyan arrived on site about 0800 perform post water monitoring and sampling. Internal sampling point is located on the north bank of the channel about 125 feet west
SAMPLE NO.		and downstream of the end of the open box concrete channel and the downstream point is located on the south bank of the channel about 123 feet west
TEMPERATURE (°C)		the end of the open-box concrete channel. These locations were dry. Water sampling was not performed because the site did not meet Regional Water Quality Control Board
рН		(RWQCB).
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

Hayvenhurst Drain Reach 8	11/1/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	13:55	13:40	13:20	Garo Avoyan arrived on the jobsite at 1310 to performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Havenhurst Drain
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2		
TEMPERATURE (°C)	20.2	20.04	1911	Reach 8. Baseline monitoring and sampling was performed one day prior of the placement of the BMPs and proposed start of cleanout operations. Between 1320 and 1350,
pH	8.56	8.02	8 28	collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on
TURBIDITY (NTUs)	5.78	3.84	0.84	Saturday 11/02.
DISSOLVED O ₂ (mg/L)	9.18	9.39	10.03	
TOTAL SUSPENDED SOLIDS (mg/L)	12	5	ND	

Hayvenhurst Drain Reach 8	11/2/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	8:40	9:00	9:15	Care Assume arrived on the inheits at 0701 to performed water meninging and sampling at unstroamed and downstroame prints at the Upperburst Drain Dearch 9
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	Garo Avoyan arrived on the jobsite at 0751 to performed water monitoring and sampling at upstream, internal, and downstream points at the Havenhurst Drain Reach 8.
TEMPERATURE (°C)	15.65	14.63	14.48	Stormwater maintenance field crews were on-site to perform cleanup of vegetation in the channel. Garo requested the 3 water sampling areas be cut and cleared for easy
pН	8.39	8.26	8.26	access as well as one BMP was placed at the downstream, point with three sandbags anchored for support. Once water settled he proceeded with water sampling. Between
TURBIDITY (NTUs)	9.49	6.09	5.5	0840 and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.01	10.03	10.07	
TOTAL SUSPENDED SOLIDS (mg/L)	46	36	30	
Hayvenhurst Drain Reach 8	11/5/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	8:25	8:55	9:15	
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	Garo Avoyan arrived on the jobsite at 0800 to performed water monitoring and sampling at upstream, internal, and downstream points at the Havenhurst Drain Reach 8.
TEMPERATURE (°C)	18.94	19.02	17.93	Stormwater maintenance field crews were on-site to perform cleanup of vegetation in the channel. There was a high volume of dirt and small size debris accumulated at the
pH	8.31	7.88	8.25	upstream point which made water flow very slow. One BMP was placed at the downstream, point with three sandbags anchored for support. Once water settled he proceeded
TURBIDITY (NTUs)	12.41	2.6	2.81	with water sampling. Between 0825 and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.83	7.88	8.25	8.25
TOTAL SUSPENDED SOLIDS (mg/L)	17	10	6	
Hayvenhurst Drain Reach 8	11/6/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	1:00	1:15	1:30	Garo Avoyan arrived on the jobsite at 1250 to performed water monitoring and sampling at upstream, internal, and downstream points at the Havenhurst Drain Reach 8.
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	Stormwater maintenance field crews were on-site to perform cleanup of vegetation in the channel. There was a high volume of dirt and small size debris accumulated at the
TEMPERATURE (°C)	19.54	20.52	21.33	upstream point which made water flow very slow. One BMP was placed at the downstream, point with three sandbags anchored for support. There were lots of vegetation
рН	8.44	8.33	8.33	floating at the downstream point and the water level rose to the top of the BMP with lots of accumulated vegetation. Garo notified Ryan Murillo, crew leader, and he agreed,
TURBIDITY (NTUs)	20.19	9.73	21.85	even though the turbidity reading did not exceed the 20 percent allowance, that additional BMPs will be placed at the downstream area to decrease the vegetation flow.
DISSOLVED O ₂ (mg/L)	9.47	9.09	10.04	Between 0100 and 0130, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TOTAL SUSPENDED SOLIDS (mg/L)	39	35	61	
Hayvenhurst Drain Reach 8	11/7/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	11:10	11:28	11:40	
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	Garo Avoyan arrived on the jobsite at 1050 to performed water monitoring and sampling at upstream, internal, and downstream points at the Havenhurst Drain Reach 8.
TEMPERATURE (°C)	20.18	19.81	21.31	Stormwater maintenance field crews were on-site to perform cleanup of vegetation in the channel. Two Bmps were placed at the downstream point with some spacing between
pH	8.56	8.43	8.38	them. Between 1110 and 1140, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	6.01	2.97	3.62	
DISSOLVED O ₂ (mg/L)	9.8	8.43	8.38	
TOTAL SUSPENDED SOLIDS (mg/L)	12	7	11	
TURBIDITY (NTUs) DISSOLVED O ₂ (mg/L)	6.01 9.8	2.97	3.62 8.38	them. Between 1110 and 1140, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TOTAL SUSPENDED SOLIDS (mg/L)	12	1	11	

Hayvenhurst Drain Reach 8	11/8/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	Greg Johnson arrived on site about 1125 to performed water monitoring and sampling at upstream, internal, and downstream points at the Hayvenhurst Drain Reach 8.
TIME	11:34	11:46	11:55	Stormwater maintenance field crews were at lunch but, a large amount of cut vegetation was laying on the bank and in the Drain. Floating and suspended debris was present at
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	the upstream and internal sampling points. BMPs consist of two (2) separate rows of single straw waddles, with one placed at the end of the SBC and one placed at the entrance
TEMPERATURE (°C)	22.62	21.63	23.93	to the underground double-concrete box. Between 1134 and 1155, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
pH	8.33	8.41	8.34	Internal and downstream turbidity readings were both over 20% above the Daily Turbidity Limit of 6.52 NTU. The internal TSS value of 73 is over the daily TSS limit (DTSSL) of 22
TURBIDITY (NTUs)	5.44	13.23	10.47	mg/L (20+10%). This appeared to be the result of the crew working on the banks and in the water to remove vegetation from the SBC. Discussed this condition with the crew
DISSOLVED O ₂ (mg/L)	6.09	4.58	4.77	and advised to try and stay out of the water while cutting and removing vegetation.
TOTAL SUSPENDED SOLIDS (mg/L)	20	73	20	
Hayvenhurst Drain Reach 8	11/16/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	Garo Avoyan arrived on site about 0810 to performed water monitoring and sampling at upstream, internal, and downstream points at the Hayvenhurst Drain Reach 8. Field
ELEVATION (approx.)	703	702	702	crew returned to Drain channel cleanouts after temporary reassignment and performed vegetation cleanout. The upstream sampling point still had vegetation laying on the
TIME	8:25	8:55	9:10	bank of the Drain as well as floating and suspended debris present. BMPs consist of two (2) separate rows of single straw waddles, with one placed at the end of the SBC and
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	one placed at the entrance to the underground double-concrete box. Due to field crew clearing vegetation inside the drain which cause a disturbance in the dirt, he had to
TEMPERATURE (°C)	18.35	18.95	20.84	sample approximately 25' south of the internal point. Turbidity readings at downstream was slightly at the downstream because of the field crew working in the drain causing
pH	8.5	8.43	8.48	disturbance in the dirt flowing with the water flow. Downstream turbidity reading of 11.48 NTU was above the Daily Turbidity Limit of 10.33 NTU (8.61+20%). The internal TSS
TURBIDITY (NTUs)	8.61	7.41	11.48	value of 56 is over the daily TSS limit (DTSSL) of 55 mg/L (50+10%). Between 0825 and 0910, collected and recorded water quality parameters of temperature, pH, turbidity, and
DISSOLVED O ₂ (mg/L)	9.98	9.93	9.98	dissolved oxygen. Garo informed Ryan Murillo, Field Crew Leader, of the results.
TOTAL SUSPENDED SOLIDS (mg/L)	50	56	47	ulssolved oxygen. Galo informed kyan Muhilo, Field Crew Leader, of the results.
Hayvenhurst Drain Reach 8	11/27/2019			
LATITUDE (approx.)	34.163565	34.164211	34.164761	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.492143	118.49154	118.491026	
ELEVATION (approx.)	703	702	702	
TIME	13:37	13:50	14:05	
SAMPLE NO.	HDRAINR8-1	HDRAINR8-2	HDRAINR8-3	Garo Avoyan arrived on site about 1320 to performed post water monitoring and sampling at upstream, internal, and downstream points at the Hayvenhurst Drain Reach 8. All
TEMPERATURE (°C)	17.21	16.86	16.77	field work of vegetation cleanout was completed and the two (2) BMPs at the downstream end were removed. Between 1337 and 1405, collected and recorded water quality
pH	8.37	8.24	8.2	parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	8.63	5.61	2.4	
DISSOLVED O ₂ (mg/L)	9.6	9.35	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	12	1	ND	

Kagel Canyon Channel Reach 99	9/3/2019	
LATITUDE (approx.)		Pre-Clearing/Baseline
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1000 and met with Maurilio Torres from Stormwater Maintenance Hansen Yard to evaluate surface water flow prior to initiating baseline
TEMPERATURE (°C)		monitoring and sampling. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED
рН		will continue to monitor the area to re-confirm conditions From a water quality standpoint, project is "good to go" for start on Friday 09/06.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

Kagel Canyon Channel Reach 99	9/6/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Garo Avoyan arrived on site about 0915 and met with Maurilio Torres from Stormwater Maintenance Hansen Yard to evaluate surface water flow prior to water sampling
SAMPLE NO.		evaluated the upstream water flow with Mr. Torres and both noticed the water flow was not coming down the upstream point located at the small man-made waterfall
TEMPERATURE (°C)		three rock steps. The water flow (ground water) was actually coming from underneath the rock steps. Also the usual sampling point for the upstream was dry as well. Mr
pH		also took pictures of the upstream location for further evaluation. Water sampling was not performed because the site did not meet Regional Water Quality Control Boa
TURBIDITY (NTUs)		(RWQCB). GMED will continue to monitor the area to re-confirm conditions on a weekly basis.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Kagel Canyon Channel Reach 99	9/17/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1100 to perform water quality sampling during channel vegetation cleanout. Water sampling was not performed because the site did
TEMPERATURE (°C)		meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions. Garo contacted Mr. Maurillio Torres of Stormwa
pH		Maintenance Hansen Yard via cell phone and informed him as well.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Kagel Canyon Channel Reach 99	10/25/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1230 to perform water quality sampling during channel vegetation cleanout. Hector Sanchez from Stormwater Maintence Hansen yar
TEMPERATURE (°C)		on-site. Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re
pH		confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Kagel Canyon Channel Reach 99	10/29/2019	
LATITUDE (approx.)		Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Garo Avoyan arrived on site about 1400 to perform post water quality sampling at upstream, internal, and downstream points at Kagel Canyon Channel. Water sampling
		not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
pH		
pH TURBIDITY (NTUs)		
•		

Los Angeles River Reach 114 West	11/18/2019			
LATITUDE (approx.)	33.790323	33.787342	33.782763	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.206232	118.206238	118.206115	
ELEVATION (approx.)	6	6	5	
TIME	9:09	9:30	10:15	Garo Avoyan arrived on-site about 0850 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Maintenance
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	crew were operating heavy equipment on the west side of the LA River channel. So therefore today will be the first day of field operations since the notification was send out
TEMPERATURE (°C)	17.11	18.88	20.04	11/14/2019 for initial start date 11/21/2019. Turbidity readings were slightly high on the downstream because of dust was coming from the heavy equipment cutting
рН	8.31	8.38	9.6	vegetation towards the edge of channel and water flow. Between 0909 and 1015 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved
TURBIDITY (NTUs)	3.31	3.05	4.07	oxygen.
DISSOLVED O ₂ (mg/L)	9.98	10.03	9.6	
TOTAL SUSPENDED SOLIDS (mg/L)	9	13	14	
Los Angeles River Reach 114 West	11/19/2019			
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206232	118.206238	118.206115	
ELEVATION (approx.)	6	6	5	
TIME	10:40	10:25	9:58	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Garo Avoyan arrived on-site about 0950 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Maintenance
TEMPERATURE (°C)	18.25	17.94	17.89	crew were operating heavy equipment on the west side of the LA River channel. Between 0958 and 1040 collected and recorded water quality parameters of temperature, pH,
pH	8.29	8.38	8.58	turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	3.76	3.02	2.99	
DISSOLVED O ₂ (mg/L)	9.43	9.59	9.63	
TOTAL SUSPENDED SOLIDS (mg/L)	15	ND	13	
Los Angeles River Reach 114 West	12/10/2019			
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206232	118.206238	118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:40	8:25	8:10	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. Field crew
TEMPERATURE (°C)	14.32	14.64	13.99	were working on hand vegetation removal on the west side of the LA River channel. Water flow was a little fast and lots of debris possible washed into by the rains and not clear
pH	8.35	8.22	8.41	as well. The internal TSS value of 45 is over the daily TSS limit (DTSSL) of 39.6 mg/L (36+10%). Between 0810 and 0840 collected and recorded water quality parameters of
TURBIDITY (NTUs)	24.73	26.43	26.45	temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10	10.06	10.01	
TOTAL SUSPENDED SOLIDS (mg/L)	36	45	32	
Los Angeles River Reach 114 West	12/13/2019			
LATITUDE (approx.)	33.790323	33.787342	33.782763	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206232	118.206238	118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:30	8:09	7:37	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	Garo Avoyan arrived on-site about 0725 to perform post water monitoring and sampling at the upstream, internal, and downstream points. Field crew completed all vegetation
TEMPERATURE (°C)	14.44	14.55	14.24	removal. Water level rose on all three sampling points. Between 0737 and 0830 collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved
pH	8.39	8.4	8.54	oxygen.
TURBIDITY (NTUs)	5.28	6.53	4.06	
DISSOLVED O ₂ (mg/L)	9.89	8.4	8.54	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	7	ND	
	5	·		

Los Angeles River Reach 25 East	10/21/2019			WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)
		22 200076	22 70022	
	33.803965	33.800976		Pre-Clearing/Baseline
LONGITUDE (approx.) ELEVATION (approx.)	118.204929 7	118.205477 3	118.20497 3	
	-			
	9:38	10:10	10:30	Garo Avoyan arrived on the jobsite at 930am met with Carlos Varela, Ruben Barajas, and Evan Tillett from Stormwater Maintenance Imperial Yard . Performed pre-work baseline
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Vegetation was cut at the internal point. Baseline monitoring and
TEMPERATURE (°C)	19.62	21.11	21.65	sampling was performed two days prior of the placement of the BMPs and proposed start of cleanout operations. Between 0938 and 1030, collected and recorded water quality
	8.79	6.89	7.48	parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Wednesday 10/22.
	4.34	4.95	3.03	
	9.77	10.12	9.8	
TOTAL SUSPENDED SOLIDS (mg/L)	11	10	5	
Los Angeles River Reach 25 East	10/25/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:40	10:10	10:34	Garo Avoyan arrived on the jobsite at 930am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
SAMPLE NO.	LARR25E-1	LARR25E-2		Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. Two heavy equipment were on site for
TEMPERATURE (°C)	20.64	20.69	20.79	vegetation cleanup. Turbidity readings were high because water tide rise and vegetations flowing on water surface. Internal and downstream turbidity readings of 7.49 and 5.99
рН	8.93	8.09	8.31	NTU was above the Daily Turbidity Limit of 4.68 NTU (3.9+20%). The internal and downstream TSS values of 16 and 16 are over the daily TSS limit (DTSSL) of 8.8 mg/L (8+10%).
TURBIDITY (NTUs)	3.9	7.49	5.99	Between 0940 and 1034, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.96	9.94	9.91	
TOTAL SUSPENDED SOLIDS (mg/L)	8	16	16	
Los Angeles River Reach 25 East	10/26/2019	-	-	
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	10:10	10:32	11:05	Garo Avoyan arrived on the jobsite at 1000am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. Water tide rose from previous day and water
TEMPERATURE (°C)	20.41	20.55	20.43	spilling towards the rip-rap slope and downstream sampling point sediment was very west. Turbidity readings were high at internal point because of vegetation and fishes in the
рН	8.84	8.26	8.35	water. Internal turbidity reading of 7.75NTU was above the Daily Turbidity Limit of 6.53 NTU (5.44+20%). Between 1010 and 1105, collected and recorded water quality
TURBIDITY (NTUs)	5.44	7.75	3.34	parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.84	9.47	9.89	
TOTAL SUSPENDED SOLIDS (mg/L)	43	25	19	
Los Angeles River Reach 25 East	10/28/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:40	10:01	10:30	Garo Avoyan arrived on the jobsite at 0935am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. For internal and downstream, points water level
TEMPERATURE (°C)	16.55	17.68	17.17	continued to rise and making it way to sides and because due to water level rising. Due to my original areas of water sampling being covered with water, I had to work around
рН	8.73	8.16	8.44	and find safe locations to perform water sampling. The downstream TSS value of 36 is over the daily TSS limit (DTSSL) of 20.9 mg/L (19+10%). Between 0940 and 1030, collected
TURBIDITY (NTUs)	3.97	3.7	3.58	and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
	0.01	9.97	9.99	
DISSOLVED O ₂ (mg/L)	9.91	9.97	9.99	

Les Angeles Diver Desch 25 Fest	10/20/2010		,	WATER QUALITY SAMPLING TESTING AND MONTHORING RESULTS (2019)
Los Angeles River Reach 25 East	10/29/2019	00.00070	00 70000	
LATITUDE (approx.)	33.803965	33.800976		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	Garo Avoyan arrived on the jobsite at 0920am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
TIME	9:25	9:40	10:15	Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. For internal and downstream, points water level
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	continued to rise and making it way to sides and because due to water level rising. Due to rise in water tide, I had to work around and find safe locations to perform water
TEMPERATURE (°C)	15.56	16.58	16.61	sampling for both internal and downstream points. Internal turbidity readings of 5.81NTU was above the Daily Turbidity Limit of 4.43 NTU (3.69+20%). The downstream TSS
pH	8.75	8.13	8.46	value of 21 is over the daily TSS limit (DTSSL) of 18.7 mg/L (17+10%). Between 0925 and 1015, collected and recorded water quality parameters of temperature, pH, turbidity,
TURBIDITY (NTUs)	3.69	5.81	3.92	and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.97	9.88	9.39	
TOTAL SUSPENDED SOLIDS (mg/L)	17	16	21	
Los Angeles River Reach 25 East	10/30/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:35	10:05	10:30	Care Average arrived on the inheite at 0020am to performed water monitoring compliand thurstroom internal, and downstroom points at the Las Associas Diver Parch 25 Fact
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Garo Avoyan arrived on the jobsite at 0920am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. At the upstream point, the increase of debris
TEMPERATURE (°C)	15.17	16.56	15.84	
pH	8.77	8.26	8.42	are accumulating and also found two dead birds near the edge of the soft bottom channel. The downstream TSS value of 22 is over the daily TSS limit (DTSSL) of 19.8 mg/L
TURBIDITY (NTUs)	4.43	4.13	3.89	3.89 (18+10%). Between 0935 and 1030, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.97	9.9	9.89	
TOTAL SUSPENDED SOLIDS (mg/L)	18	11	22	
Los Angeles River Reach 25 East	10/31/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:15	8:40	9:15	Care Average article of the inheits of 0000 m to performed water menitoring compliance transmissional and downstroom prints of the Lee Appelor Diver Depth 27 Fact
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
TEMPERATURE (°C)	11.83	11.04	12.03	Crews were operating equipment to remive vegetation Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at
pH	8.51	7.95	8.11	upstream point. The water level decreased at the internal and downstream points. Between 0815 and 0915, collected and recorded water quality parameters of temperature,
TURBIDITY (NTUs)	6.32	6.02	3.2	pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.02	10	9.86	
TOTAL SUSPENDED SOLIDS (mg/L)	16	15	7	
Los Angeles River Reach 25 East	11/1/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	11:05	11:25	11:48	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Garo Avoyan arrived on the jobsite at 1100am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
TEMPERATURE (°C)	18.55	16.82	15.94	Crews were operating equipment to remove vegetation Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at
pH	8.88	8.36	8.31	upstream point. The water level decreased at the internal and downstream points. Between 1105 and 1148, collected and recorded water quality parameters of temperature,
TURBIDITY (NTUs)	5.92	3.19	3.26	pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.23	9.64	9.49	
TOTAL SUSPENDED SOLIDS (mg/L)	20	6	6	

Los Angeles River Reach 25 East	11/6/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:40	9:25	10:10	Care Avevage arrived on the inheite at 00200pm to performed water monitoring compliant at unstream internal, and downstream points at the Los Aprolas Diver Boach 2E East
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Garo Avoyan arrived on the jobsite at 09300am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. The internal and downstream TSS values of 9
TEMPERATURE (°C)	16.71	16.87	17.03	
рН	8.49	7.82	8.17	and 10 are over the daily TSS limit (DTSSL) of 7.7 mg/L (7+10%). Between 0940 and 1010, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	3.93	4.57	2.73	uissoiveu oxygen.
DISSOLVED O ₂ (mg/L)	9.69	10.04	9.89	
TOTAL SUSPENDED SOLIDS (mg/L)	7	9	10	
Los Angeles River Reach 25 East	11/13/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:12	9:28	9:55	Garo Avoyan arrived on the jobsite at 09300am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. Water level rose at the downstream point and
TEMPERATURE (°C)	17.59	17.52	17.74	had to sample at safe location for safety reasons. Downstream turbidity reading of 6.32NTU was above the Daily Turbidity Limit of 5.47 NTU (4.56+20%). The downstream TSS
pH	8.79	8.21	8.26	value of 23 is over the daily TSS limit (DTSSL) of 13.2 mg/L (12+10%). Between 0912 and 0955, collected and recorded water quality parameters of temperature, pH, turbidity,
TURBIDITY (NTUs)	4.56	3.97	6.32	and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.07	10.04	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	12	9	23	
Los Angeles River Reach 25 East	11/19/2019		•	
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	12:00	12:20	12:38	Care Avevage arrived on the inheite at 1155 m to performed water monitoring campling at unstream internal, and downstream points at the Los Angeles Biver Boach 25 Fast
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Garo Avoyan arrived on the jobsite at 1155am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Burms sediments were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point. Internal turbidity reading of 4.6NTU was above
TEMPERATURE (°C)	20.95	20.57	20.01	the Daily Turbidity Limit of 4.55 NTU (3.79+20%). The downstream TSS value of 17 is over the daily TSS limit (DTSSL) of 12.1 mg/L (11+10%). Between 1200 and 1238, collected
рН	9.45	9	8.42	and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	3.79	4.6	3.45	and recorded water quality parameters of temperature, pri, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.94	9.72	10	
TOTAL SUSPENDED SOLIDS (mg/L)	11	11	17	
Los Angeles River Reach 25 East	12/11/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	Cleanouts resumed after operations were put on hold due to the past weeks rains. Gare Avevan arrived on the johoite at 0750am to performed water monitoring compling at
TIME	8:00	8:10	8:35	Cleanouts resumed after operations were put on hold due to the past weeks rains. Garo Avoyan arrived on the jobsite at 0750am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. The burms sediments that were placed on the LA River channel north side of Willow Street
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	Bridge to divert water flow at upstream point were washed out from the heavy rains and the water current was flowing very fast while collecting samples. All three sampling
TEMPERATURE (°C)	11.42	11.41	12.11	points had a lots of dirt and debris flowing and this was also caused by the heavy rains. Internal turbidity reading of 36.41NTU was above the Daily Turbidity Limit of 35.6 NTU
рН	8.5	8.23	8.28	(29.67+20%). The internal and downstream TSS values of 44 and 48 are over the daily TSS limit (DTSSL) of 30.8 mg/L (28+10%). Between 0800 and 0835, collected and recorded
TURBIDITY (NTUs)	29.67	36.41	35.58	water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.98	9.9	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	28	44	48	

Los Angeles River Reach 25 East	12/17/2019			
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.204929	118.205477	118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:10	9:25	9:55	Garo Avoyan arrived on the jobsite at 0855am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East.
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	The burms sediments that were placed on the LA River channel north side of Willow Street Bridge to divert water flow at upstream point were washed out from the heavy rains
TEMPERATURE (°C)	11.29	11.07	11.54	and the water current was flowing moderate while collecting samples. Lots of dirt and debris flowing and this was also caused by the strong winds. Internal and downstream
pН	9.01	8.45	8.28	turbidity readings of 7 and 6.26NTU were above the Daily Turbidity Limit of 2.62 NTU (2.18+20%). The internal and downstream TSS values of 19 and 31 are over the daily TSS
TURBIDITY (NTUs)	2.18	7	6.26	limit (DTSSL) of 13.2 mg/L (12+10%). Between 0910 and 0955, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.07	9.89	10	
TOTAL SUSPENDED SOLIDS (mg/L)	12	19	31	
Los Angeles River Reach 25 East	1/14/2020			
Los Angeles River Reach 25 East LATITUDE (approx.)	1/14/2020 33.803965	33.800976	33.79033	Post-Work WQ Monitoring & Sampling Results
		33.800976 118.205477	33.79033 118.20497	Post-Work WQ Monitoring & Sampling Results
LATITUDE (approx.)	33.803965			Post-Work WQ Monitoring & Sampling Results
LATITUDE (approx.) LONGITUDE (approx.)	33.803965			Post-Work WQ Monitoring & Sampling Results
LATITUDE (approx.) LONGITUDE (approx.) ELEVATION (approx.)	33.803965 118.204929 7	118.205477 3	118.20497 3 7:55	Post-Work WQ Monitoring & Sampling Results Garo Avoyan arrived on the jobsite at 0700am to perform post water monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25
LATITUDE (approx.) LONGITUDE (approx.) ELEVATION (approx.) TIME	33.803965 118.204929 7 7:12	118.205477 3 7:30	118.20497 3 7:55 LARR25E-3	
LATITUDE (approx.) LONGITUDE (approx.) ELEVATION (approx.) TIME SAMPLE NO.	33.803965 118.204929 7 7:12 LARR25E-1	118.205477 3 7:30 LARR25E-2	118.20497 3 7:55 LARR25E-3 10.78	Garo Avoyan arrived on the jobsite at 0700am to perform post water monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25
LATITUDE (approx.) LONGITUDE (approx.) ELEVATION (approx.) TIME SAMPLE NO. TEMPERATURE (°C)	33.803965 118.204929 7 7:12 LARR25E-1 10.82	118.205477 3 7:30 LARR25E-2 10.28	118.20497 3 7:55 LARR25E-3 10.78	Garo Avoyan arrived on the jobsite at 0700am to perform post water monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Field crews finished hand removal vegetation and water level were normal. Between 0712 and 0755, collected and recorded water quality parameters of temperature, pH,
LATITUDE (approx.) LONGITUDE (approx.) ELEVATION (approx.) TIME SAMPLE NO. TEMPERATURE (°C) pH	33.803965 118.204929 7 7:12 LARR25E-1 10.82 7.99	118.205477 3 7:30 LARR25E-2 10.28 8.03	118.20497 3 7:55 LARR25E-3 10.78 9.58	Garo Avoyan arrived on the jobsite at 0700am to perform post water monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 East. Field crews finished hand removal vegetation and water level were normal. Between 0712 and 0755, collected and recorded water quality parameters of temperature, pH,

Los Angeles River Reach 25 West	10/21/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:18	8:54	8:05	Garo Avoyan arrived on the jobsite at 0730am met with Carlos Varela, Ruben Barajas, and Evan Tillett from Stormwater Maintenance Imperial Yard . Performed pre-work
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	baseline monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West. Vegetation was cut at the internal point. Baseline
TEMPERATURE (°C)	21.43	21.09	19.35	monitoring and sampling was performed two days prior of the placement of the BMPs and proposed start of cleanout operations. The metal ladder to get down the rip-rap slope
pH	7.54	6.41	8.26	for the west side of the downstream had a bee hive with large amounts of bees swarming around. Between 0805 and 0918, collected and recorded water quality parameters of
TURBIDITY (NTUs)	5.62	5.87	3.13	temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Wednesday 10/22.
DISSOLVED O ₂ (mg/L)	10.13	10.12	9.86	
TOTAL SUSPENDED SOLIDS (mg/L)	15	14	6	
Los Angeles River Reach 25 West	10/23/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:36	9:05	8:30	Care Avevan arrived on the inheite at 0210am to performed water monitoring campling at unstream internal, and downstream points at the Les Angeles Biver Basch 25 West
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 0810am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West. Sediment burms were placed at the internal point to divert water flow into the center of the LA River. Turbidity readings were slightly high for both internal and downstream
TEMPERATURE (°C)	21.82	21.3	19.6	
pH	9.17	8.46	86	points. Internal and downstream turbidity readings of 7.49 and 5.57NTU were above the Daily Turbidity Limit of 5.1 NTU (4.25+20%). The internal TSS value of 26 is over the
TURBIDITY (NTUs)	4.25	7.49	5.57	daily TSS limit (DTSSL) of 18.7 mg/L (17+10%). Between 0830 and 0936, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.8	9.94	9.97	
TOTAL SUSPENDED SOLIDS (mg/L)	17	26	18	

Los Angeles River Reach 25 West	10/24/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	11:18	10:36	10:12	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 1000am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
TEMPERATURE (°C)	24.75	24.31	21.31	Sediment burms were placed at the internal point to divert water flow into the center of the LA River. The downstream TSS value of 30 is over the daily TSS limit (DTSSL) of 18.7
рН	9.19	8.57	8.28	mg/L (17+10%). Between 1012 and 1118, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	5.26	5.61	6.08	
DISSOLVED O ₂ (mg/L)	9.9	9.52	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	17	14	30	
Los Angeles River Reach 25 West	10/25/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:20	9:00	8:15	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
TEMPERATURE (°C)	20.07	20.08	19.28	Sediment burms were placed at the internal point to divert water flow into the center of the LA River. For all three (3) sampling points, the water tide rose and there were some
рН	8.68	8.16	8.36	vegetations flowing on water surface. Between 0815 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	8.65	8.61	4.68	
DISSOLVED O ₂ (mg/L)	9.92	9.88	10.01	
TOTAL SUSPENDED SOLIDS (mg/L)	28	15	16	
Los Angeles River Reach 25 West	10/26/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:25	9:10	8:20	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Sediment burms were placed at the internal point to divert water flow into the center of the LA River. For the internal and downstream points, the water flow rose more and
TEMPERATURE (°C)	19.93	19.6	18.19	excess water now is moving towards the rip-rap slope. Between 0820 and 0925, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved
рН	8.63	8.22	8.44	
TURBIDITY (NTUs)	16.71	5.12	3.87	oxygen.
DISSOLVED O ₂ (mg/L)	9.78	9.95	10	
TOTAL SUSPENDED SOLIDS (mg/L)	66	22	11	
Los Angeles River Reach 25 West	10/28/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:20	8:58	8:20	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Field crew were out hand removing vegetation. Sediment burms were placed at the internal point to divert water flow into the center of the LA River. For the upstream points
TEMPERATURE (°C)	16.52	16.96	16.51	lots of excess debris items and wildlife animals in the area were noticed. For the internal points, the water continues to rise more and excess water now is moving towards the
рН	8.81	8.18	8.63	rip-rap slope. For internal point, I sampled in an area that was not deep for safety reasons. Between 0820 and 0920, collected and recorded water quality parameters of
TURBIDITY (NTUs)	4.91	4.29	3.34	temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10	9.97	9.72	
TOTAL SUSPENDED SOLIDS (mg/L)	13	8	13	

Los Angeles River Reach 25 West	10/29/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:15	8:40	8:10	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Field crew were out hand removing vegetation. Sediment burms were placed at the internal point to divert water flow into the center of the LA River. For the internal point,
TEMPERATURE (°C)	15.25	15.95	14.14	there was no change in water rise and water remains by the rip-rap slope. Internal turbidity readings of 7.54NTU was above the Daily Turbidity Limit of 3.6 NTU (3+20%). The
pH	8.81	8.21	8.62	internal TSS value of 28 is over the daily TSS limit (DTSSL) of 8.8 mg/L (8+10%). Between 0810 and 0915, collected and recorded water quality parameters of temperature, pH,
TURBIDITY (NTUs)	3	7.54	3.07	turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.58	9.75	9.91	
TOTAL SUSPENDED SOLIDS (mg/L)	8	28	9	
Los Angeles River Reach 25 West	10/30/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:10	8:45	8:13	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
TEMPERATURE (°C)	15.18	15.5	16.06	Field crew were out hand removing vegetation. Sediment burms were placed at the internal point to divert water flow into the center of the LA River. For the internal point,
pH	8.89	8.52	8.51	there was no change in water rise and water remains by the rip-rap slope. The internal TSS value of 28 is over the daily TSS limit (DTSSL) of 27.5 mg/L (25+10%). Between 0813
TURBIDITY (NTUs)	6.08	1.66	3.14	and 0910, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.65	9.31	9.34	
TOTAL SUSPENDED SOLIDS (mg/L)	25	28	15	
Los Angeles River Reach 25 West	11/6/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:15	8:50	8:25	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
TEMPERATURE (°C)	16.52	16.23	17.06	Field crew were out hand removing vegetation. Sediment burms were placed at the internal point to divert water flow into the center of the LA River. All water levels were
pH	8.51	8.39	8.27	normal. Between 0825 and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	7.66	3.67	3.13	
DISSOLVED O ₂ (mg/L)	9.99	9.65	9.69	
TOTAL SUSPENDED SOLIDS (mg/L)	29	15	18	
Los Angeles River Reach 25 West	11/13/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	8:50	8:35	8:10	Garo Avoyan arrived on the jobsite at 0800am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Field crew were out hand removing vegetation at the top of the slope. Sediment burms were placed at the upstream point to divert water flow into the center of the LA River.
TEMPERATURE (°C)	17.44	17.4	17.06	Water rose at the internal point and was flowing in some parts of the rip-rap slope area. I had to sample at safe location because of water level covering some rocks and dirt
рН	8.78	8.21	8.33	area. The internal TSS value of 18 is over the daily TSS limit (DTSSL) of 14.3 mg/L (13+10%). Between 0810 and 0850, collected and recorded water quality parameters of
TURBIDITY (NTUs)	4.71	4.51	2.63	temperature, pH, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.77	9.45	10	
TOTAL SUSPENDED SOLIDS (mg/L)	13	18	9	

Los Angeles River Reach 25 West	11/19/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	11:30	11:08	10:40	Care Avevage arrived on the induities at 1040 m to performed water monitoring compliand at unstream internal, and downstream points at the Les Angeles Biver Baseb 25 West
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Garo Avoyan arrived on the jobsite at 1040am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West. Field crew were out hand removing vegetation at the top of the slope. Sediment burms were placed at the upstream point to divert water flow into the center of the LA River.
TEMPERATURE (°C)	19.38	18.85	17.86	
pН	9.32	8.96	7.94	The internal TSS value of 32 is over the daily TSS limit (DTSSL) of 17.6 mg/L (13+10%). Between 1040 and 1130, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	6.02	5.9	3.76	un, turbidity, and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	9.91	9.85	7.94	
TOTAL SUSPENDED SOLIDS (mg/L)	16	32	8	
Los Angeles River Reach 25 West	12/10/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	3
TIME	9:19	9:05	8:40	Garo Avoyan arrived on the jobsite at 0840am to performed water monitoring sampling at upstream, internal, and downstream points at the Los Angeles River Reach 25 West.
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	Field maintenance crew cutting last parts of vegetation by the Pacific Coast Highway bridge. Water flow was coming in fast at the upstream and due to the rains parts of the
TEMPERATURE (°C)	14.24	13.73	13.43	channel was filled with water. Also lots of debris and dirt were hauled from the rain which made the water not clear. The downstream TSS value of 34 is over the daily TSS limit
рН	8.53	8.07	8.28	(DTSSL) of 27.5 mg/L (25+10%). Between 0840 and 0919, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.
TURBIDITY (NTUs)	22.75	17.25	24.73	Dissi of 27.5 mg/c (25+10%). Between 0840 and 0919, conected and recorded water quanty parameters of temperature, ph, turbidity, and dissolved 0xygen.
DISSOLVED O ₂ (mg/L)	9.98	10.03	10	
TOTAL SUSPENDED SOLIDS (mg/L)	25	24	34	
Los Angeles River Reach 25 West	12/13/2019			
LATITUDE (approx.)	33.803967	33.800967	33.790279	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.206081	118.206024	118.206093	
ELEVATION (approx.)	6	3	3	
TIME	9:10	8:50	8:35	Garo Avoyan arrived on the jobsite at 0830am to performed post water monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	25 West. Field crew completed hand removing vegetation at the top of the slope. Sediment burms were placed at the upstream point to divert water flow into the center of the
TEMPERATURE (°C)	14.54	14.89	14.48	LA River. The water level rose due to the rain from previous week. Water flow was also coming fast. Turbidity reading was slightly high at internal and downstream points
рН	8.54	8.23	8.24	because there were lots of dirt and debris flowing with the water flow. Between 0835 and 0910, collected and recorded water quality parameters of temperature, pH, turbidity,
TURBIDITY (NTUs)	4.23	7.77	5.3	and dissolved oxygen.
DISSOLVED O ₂ (mg/L)	10.02	10	9.8	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	12	10	

Lindero Canyon Reach 38	10/8/2020			
LATITUDE (approx.)	34.1431478	34.1432373	34.1425351	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.7639936	118.7639881	118.7640896	
ELEVATION (approx.)	819	835	836	
TIME	10:39	10:52	11:05	Garo Avoyan arrived on the jobsite at 1030 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . Performed pre-work baseline monitoring and sampling at
SAMPLE NO.	LCYN-1	LCYN-2	1 C Y N-3	
TEMPERATURE (°C)	21.99	21.74	21.12	upstream, internal, and downstream points at the Lindero Canyon Channel. Baseline monitoring and sampling was performed two days prior of the placement of the BMPs and proposed start of cleanout operations. There were a lot of vegetations including mini branches floating at the downstream point Between 1039 and 1105, collected and
pН	6.82	6.53	5.16	recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Thursday 10/10.
TURBIDITY (NTUs)	1.1	1.57	2.72	recorded water quality parameters of temperature, pri, turbidity, and dissolved oxygen. From a water quality standpoint, project is good to go for start on industaly 10/10.
DISSOLVED O ₂ (mg/L)	10.65	10.22	10.06	
TOTAL SUSPENDED SOLIDS (mg/L)	9	ND	55	

LATITUDE (approx.) 34.1431478 34.1432373 34.1425351 During Maintenance WQ Monitoring & Sampling Results LONGITUDE (approx.) 118.7639936 118.7639881 118.7640896 ELEVATION (approx.) 819 835 836 Garo Avoyan arrived on the jobsite at 0820 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . Performed water quality sampling at u TIME 8:59 9:15 9:50 downstream points at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operations at the linder canyon channel.	
ELEVATION (approx.) 819 835 836 Garo Avoyan arrived on the jobsite at 0820 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . Performed water quality sampling at u TIME 8:59 9:15 9:50 downstream points at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operation	
TIME 8:59 9:15 9:50 downstream points at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operative operations at the Lindero Canyon Channel. The crew placed one BMP with sand bags at the downstream prior to clean out. During work operative operati	
	pstream, internal, and
	tions there were a great
SAMPLE NO. LCYN-1 LCYN-2 LCYN-3 amount vegetations floating were observed which was caused by dust from the cutting machines used to cut vegetations near the water area. For both	n internal and
TEMPERATURE (°C) 15.94 16.8 19.5 downstream, I conducted two turbidity readings because each of the points were above the twenty percent turbidity limit allowance on the first test. 0	Garo spoke with Ryan
pH 14 7.19 7.77 Murillo and Baltazar Moreno, Flood Control Construction Supervisor from Stormwater Maintenance Hansen Yard and it was agreed another BMP was	going to be placed around
TURBIDITY (NTUs) 2.19 2.1 2.34 the internal point. The internal and downstream TSS values of 48 and 55 are over the daily TSS limit (DTSSL) of 46.2 mg/L (42+10%). Between 0859 and	0950, collected and
DISSOLVED O ₂ (mg/L) 10.22 10.19 10.75 recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.	
TOTAL SUSPENDED SOLIDS (mg/L) 42 48 55	
Lindero Canyon Reach 38 10/15/2020	
LATITUDE (approx.) 34.1431478 34.1432373 34.1425351 During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.) 118.7639936 118.7639881 118.7640896	
ELEVATION (approx.) 819 835 836	
TIME 9:24 9:39 9:54 downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived on the jobsite at 0835 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . I performed water quality sampling at downstown arrived at the store of the	
SAMPLE NO. LCYN-1 LCYN-2 LCYN-3 downstream points at the Lindero Canyon Channel. The crew placed two BMPs with sand bags: One few feet past the internal point and the other at the	-
TEMPERATURE (°C) 19.2 21.99 21.13 There were large amounts of vegetations floating on the water surface as well as larva floating under water. For both internal and downstream, I conc	
pH 7.7 7.62 5.92 readings tests on the downstream and it was slightly high. I spoke with Ryan and he informed me of bringing a net to remove the vegetation from the	
TURBIDITY (NTUs) 1.78 1.22 4.85 Downstream turbidity reading of 4.85NTU was above the Daily Turbidity Limit of 2.14 NTU (1.78+20%). The internal and downstream TSS values of 16	
DISSOLVED O ₂ (mg/L) 10.02 10.88 10.19 TSS limit (DTSSL) of 12.1 mg/L (11+10%). Between 0924 and 0954, collected and recorded water quality parameters of temperature, pH, turbidity, and	dissolved oxygen.
TOTAL SUSPENDED SOLIDS (mg/L) 11 16 15	
Lindero Canyon Reach 38 10/16/2020	
LATITUDE (approx.) 34.1431478 34.1432373 34.1425351 During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.) 118.7639936 118.7639881 118.7640896	
ELEVATION (approx.) 819 835 836	
TIME 10:37 10:55 11:07 Garo Avoyan arrived on the jobsite at 1015 met with Ryan Murillo from Stormwater Maintenance Hansen Yard . Performed water quality sampling at a	upstream, internal, and
SAMPLE NO. LCYN-1 LCYN-2 LCYN-3 downstream points at the Lindero Canyon Channel. Both internal and downstream had BMPs placed however a portion of the BMPs were submerged	into the water due to
TEMPERATURE (°C) 20.99 20.05 19.78 water absorption. Turbidity readings tests were slightly high for both internal and downstream points due to the submerged BMPs in the water, lots of	vegetation, larva and
pH 7.2 7.3 7.6 some fishes. I spoke with Ryan and showed him the results. Internal and downstream turbidity reading of 2.46 and 4.69NTU were above the Daily Turb	idity Limit of 1.79 NTU
TURBIDITY (NTUs) 1.49 2.46 4.69 (1.49+20%). Between 1037 and 1107, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen.	
DISSOLVED 0 ₂ (mg/L) 10.37 10.18 10.2	
TOTAL SUSPENDED SOLIDS (mg/L) ND ND ND	
Lindero Canyon Reach 38 10/22/2020	
LATITUDE (approx.) 34.1431478 34.1432373 34.1425351 Post-Work WQ Monitoring & Sampling Results	
LONGITUDE (approx.) 118.7639936 118.7639881 118.7640896	
ELEVATION (approx.) 819 835 836	
TIME 8:05 8:15 8:25	
SAMPLE NO. LCYN-1 LCYN-2 LCYN-3 Garo Avoyan arrived on the jobsite at 0745 to perform post water quality sampling at upstream, internal, and downstream points at the Lindero Canyo	n Channel. BMPs were
TEMPERATURE (°C) 19.79 17.99 17 removed from the internal and downstream points. Downstream had lots of vegetation on water surface. Between 0805 and 0825, collected and reco	rded water quality
pH 14 7.44 5.76 parameters of temperature, pH, turbidity, and dissolved oxygen.	
TURBIDITY (NTUs) 6.97 6.18 7.06	
DISSOLVED O ₂ (mg/L) 10.44 10.01 9.94	
TOTAL SUSPENDED SOLIDS (mg/L) 21 21 22	

Lower Shields Debris Basin	3/5/2020			
LATITUDE (approx.)	34.241533	34.239938	34.238923	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.240272	118.240496	118.240006	
ELEVATION (approx.)	2134	2049	2009	
TIME	7:30	7:00	7:15	
SAMPLE NO.	LSDB-1	LSDB-2	LSDB-3	
TEMPERATURE (°C)	9.1	9.93	9.02	Chris Cunningham performed monitoring and sampling for Lower Shields DB, on 3/5/20. Upstream, downstream, and internal sampling was conducted between 0700 and 0730.
рН	8.31	8.07	8.52	
TURBIDITY (NTUs)	0.42	0.42	0.37	
DISSOLVED O ₂ (mg/L)	7.82	6.59	5.07	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	
Lower Shields Debris Basin	3/9/2020			
LATITUDE (approx.)	34.241533	34.239938	34.238923	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.240272	118.240496	118.240006	
ELEVATION (approx.)	2134	2049	2009	
TIME	9:45	10:00	10:15	
SAMPLE NO.	LSDB-1	LSDB-2	LSDB-3	Chris Cunningham performed monitoring and sampling for Lower Shields DB, on 3/9/20. Internal and downstream turbidity readings of 2.76 and 3.1NTU were above the Daily
TEMPERATURE (°C)	10.42	10.02	11.27	Turbidity Limit of 0.11 NTU (0.09+20%). The internal TSS value of 14 is over the daily TSS limit (DTSSL) of ND mg/L. Upstream, downstream, and internal sampling was
рН	9.31	8.76	9.48	conducted between 0945 and 1015.
TURBIDITY (NTUs)	0.09	2.76	3.1	
DISSOLVED O ₂ (mg/L)	7.49	3.46	5.59	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	14	ND	
Lower Shields Debris Basin	3/12/2020	-		
LATITUDE (approx.)	34.241533	34.239938	34.238923	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.240272	118.240496	118.240006	
ELEVATION (approx.)	2134	2049	2009	
TIME	8:30	8:45	8:55	
SAMPLE NO.	LSDB-1	LSDB-2	LSDB-3	Chris Cunningham performed post work monitoring and sampling was performed for Lower Shields DB, on 3/12/20. Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	11.48	10.37	10.46	conducted between 0830 and 0855.
рН	9.47	8.88	9.51	
TURBIDITY (NTUs)	0.26	0.69	0.67	
DISSOLVED O ₂ (mg/L)	7.65	2.31	3.99	
TOTAL SUSPENDED SOLIDS (mg/L)	9	ND	7	

Pacoima Wash Reach 15	9/24/2019			
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	13:10	12:49	12:.38	Garo Avoyan arrived on the jobsite at 12:20pm met with Maurillio Torres from Stormwater Maintenance Hansen Yard. Performed pre-work baseline monitoring and sampling at
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	upstream, internal, and downstream points at the Pacoima Wash Reach 15. Upstream sampling point had lots of vegetation flowing on the surface of the water. The
TEMPERATURE (°C)	27.56	25.15	26.86	downstream had water flow on the right hand side facing north of the channel flowing along the east side slope wall. Baseline monitoring and sampling was performed two
pH	7.89	7.96	7.43	days prior of the placement of the BMPs and proposed start of cleanout operations. Between 1238 and 1310, collected and recorded water quality parameters of temperature,
TURBIDITY (NTUs)	13.48	4.82	2.82	pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Thursday 09/25.
DISSOLVED O ₂ (mg/L)	9.91	9.4	9.57	
TOTAL SUSPENDED SOLIDS (mg/L)	31	10	5	

Pacoima Wash Reach 15	9/27/2019			
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	9:30	9:15	10:00	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cunningham performed monitoring and sampling for Pacoima wash reach 15, on 09/27/19 (Friday). Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	20.13	20.02	20.42	0930 and 01000. Internal and downstream turbidity readings of 5.72 and 3.85NTU were above the Daily Turbidity Limit of 3.35 NTU (2.79+20%). The internal TSS value of 7 is
pН	9.15	8.32	8.79	over the daily TSS limit (DTSSL) of 5.5 mg/L (5+10%).
TURBIDITY (NTUs)	2.79	5.72	3.85	
DISSOLVED O ₂ (mg/L)	4.33	2.32	7.34	
TOTAL SUSPENDED SOLIDS (mg/L)	5	7	ND	
Pacoima Wash Reach 15	10/2/2019			·
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	7:45	8:00	8:15	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cunningham performed monitoring and sampling for Pacoima Wash, on 10/2/19 (Wednesday). Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	12.29	14.1	13.22	0745 and 0815. Internal turbidity readings of 74.8 NTU was above the Daily Turbidity Limit of 2.36 NTU (1.79+20%). The internal TSS value of 136 is over the daily TSS limit
pH	8.62	8.77	8.45	(DTSSL) of 5.5 mg/L (5+10%).
TURBIDITY (NTUs)	1.97	74.8	4.64	
DISSOLVED O ₂ (mg/L)	1.97	7.48	4.64	
TOTAL SUSPENDED SOLIDS (mg/L)	5	136	5	
Pacoima Wash Reach 15	10/3/2019			·
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	8:00	8:15	8:30	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cunningham performed monitoring and sampling for Pacoima Wash, on 10/3/19 (Thursday). Upstream, downstream, and internal sampling was conducted between 0800
TEMPERATURE (°C)	13.22	14.72	14.15	and 0830. Internal and downstream turbidity readings of 11.4 and 5.84 NTU were above the Daily Turbidity Limit of 3.42 NTU (2.85+20%). The internal TSS value of 11 is over
pН	8.51	8.39	8.5	the daily TSS limit (DTSSL) of 8.8 mg/L (8+10%).
TURBIDITY (NTUs)	2.85	11.4	5.84	
DISSOLVED O ₂ (mg/L)	8.11	7.42	3.77	
TOTAL SUSPENDED SOLIDS (mg/L)	8	11	6	
Pacoima Wash Reach 15	10/4/2019			
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	7:30	7:45	8:00	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cuppingham performed monitoring and compling for Deceima Wach on 10/4/10 (Evider). Unstream devestroom and internal compling was conducted between 0720 and
TEMPERATURE (°C)	12.78	14.14	13.44	Chris Cunningham performed monitoring and sampling for Pacoima Wash, on 10/4/19 (Friday). Upstream, downstream, and internal sampling was conducted between 0730 and
рН	8.49	8.31	8.3	0800. Internal and downstream turbidity readings of 5.56 and 4.55 NTU were above the Daily Turbidity Limit of 2.18 NTU (1.82+20%).
TURBIDITY (NTUs)	1.82	5.56	4.55	
DISSOLVED O ₂ (mg/L)	7.55	5.73	7.62	
	7.55	0.70		

Pacoima Wash Reach 15	10/10/2019			
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	7:30	7:45	8:00	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cunningham performed monitoring and sampling for Pacoima Wash, on 10/10/19 (Thursday). Upstream, downstream, and internal sampling was conducted between 0730
TEMPERATURE (°C)	15.89	16.21	15.66	and 0800 Internal and downstream turbidity readings of 3.49 and 2.63 NTU were above the Daily Turbidity Limit of 2.60 NTU (2.17+20%). The internal TSS value of 6 is over the
pН	8.38	9.65	7.65	daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	2.17	3.49	2.63	
DISSOLVED O ₂ (mg/L)	3.67	7.39	7.58	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	ND	
Pacoima Wash Reach 15	10/15/2019			
LATITUDE (approx.)	34.2146316	34.2177344	34.2274846	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.4582929	118.4589919	118.4594398	
ELEVATION (approx.)	773	795	819	
TIME	9:00	9:15	9:30	
SAMPLE NO.	PWR15-1	PWR15-2	PWR15-3	Chris Cunningham performed post work monitoring and sampling for Pacoima Wash, on 10/15/19 (Tuesday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	13.46	12.91	13.69	
pH	6.25	4.88	8.58	between 0900 and 0930. Internal turbidity reading of 11.3 NTU was above the Daily Turbidity Limit of 5.83 NTU (4.86+20%).
TURBIDITY (NTUs)	4.86	11.3	1.7	
DISSOLVED O ₂ (mg/L)	8.2	7.81	5.94	
TOTAL SUSPENDED SOLIDS (mg/L)	14	15	ND	

Project 74 Reach 26	9/10/2019	
LATITUDE (approx.)		Pre-Clearing/Baseline
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Chris Cunningham arrived on site to perform water quality sampling during channel cleanout. No water flow through downstream location. Water sampling was not performed
TEMPERATURE (°C)		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
pH		because the site du not meet Regional water Quarty Control Board (RWQCB). Gived win continue to monitor the area to re-commin conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/13/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Chris Cunningham arrived on site to perform water quality sampling during channel cleanout. No water flow through downstream location. Water sampling was not performed
TEMPERATURE (°C)		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
рН		because the site did not meet regional water Quality Control board (rwQCB). Given will continue to monitor the area to re-commin conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

Project 74 Reach 26	9/16/2019	
LATITUDE (approx.)	0, 20, 2010	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Chris Cunningham arrived on site to perform water quality sampling during channel cleanout. No water flow through downstream location. Water sampling was not performed
pH		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/17/2019	
LATITUDE (approx.)	5/17/2015	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Chris Cunningham arrived on site to perform water quality sampling during channel cleanout. No water flow through downstream location. Water sampling was not performed
pH		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/19/2019	
LATITUDE (approx.)	5, 25, 2015	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1010 to perform water quality sampling during channel vegetation cleanout. He entered through the gate opening from the roadway 100 feet
TEMPERATURE (°C)		e/o Vermont Ave. Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to
pH		re-confirm conditions. Garo contacted Mr. Anthony Dickerson of Stormwater Maintenance Westchester Yard via cell phone and informed him.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/20/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0950 to perform water quality sampling during channel vegetation cleanout. He entered through the gate opening from the roadway 100 feet
TEMPERATURE (°C)		e/o Vermont Ave. Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to
pH		re-confirm conditions. Garo contacted Mr. Anthony Dickerson of Stormwater Maintenance Westchester Yard via cell phone and informed him.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/21/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1000 to perform water quality sampling during channel vegetation cleanout. He entered through the gate opening from the roadway 100 feet

Los Angeles Basin Watershed - Soft-Bottom Channels

Feasibility Studies Technical Assessments and Recommendations

WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)

TEMPERATURE (°C)		e/o Vermont Ave. Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to
pH		re-confirm conditions. Garo contacted Mr. Anthony Dickerson of Stormwater Maintenance Westchester Yard via cell phone and informed him.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
Project 74 Reach 26	9/21/2019	
LATITUDE (approx.)		Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Chris Curringham arrived on site to perform post works quality complian during shapped algonaut. No works flow they we have been in a work of the start of the st
TEMPERATURE (°C)		Chris Cunningham arrived on site to perform post work water quality sampling during channel cleanout. No water flow through downstream location. Water sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
pH		performed because the site did not meet regional water quality Control Board (RWQCB). GMED will continue to monitor the area to re-continue conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

Rustic Canyon	9/30/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	12:45	9:38	10:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed baseline monitoring and sampling for Rustic Canyon, on 09/30/19 (Monday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	18.94	19.38	18.5	between 1230 and 1300
рН	8.25	8.36	8.81	
TURBIDITY (NTUs)	1.33	1.22	1.15	
DISSOLVED O ₂ (mg/L)	7.36	8.03	4.53	
TOTAL SUSPENDED SOLIDS (mg/L)	28	29	ND	
Rustic Canyon	11/7/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	10:15	10:30	11:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/7/19 (Thursday). Upstream, downstream, and internal sampling was conducted between 1015
TEMPERATURE (°C)	16.33	17.37	16.65	and 1100. Internal and downstream turbidity readings of 4.01 and 7.04 NTU were above the Daily Turbidity Limit of 2.65 NTU (2.21+20%). The internal TSS value of 74 is over
рН	9.04	8.11	9.19	the daily TSS limit (DTSSL) of 38.5 mg/L (35+10%).
TURBIDITY (NTUs)	2.21	4.01	7.04	
DISSOLVED O ₂ (mg/L)	4.76	7.51	7.28	
TOTAL SUSPENDED SOLIDS (mg/L)	35	74	6	
Rustic Canyon	11/12/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	9:45	10:00	10:30	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/12/19 (Tuesday). Upstream, downstream, and internal sampling was conducted between 0945
TEMPERATURE (°C)	15.8	16.71	16.02	and 1030. Internal turbidity reading of 4.09 NTU was above the Daily Turbidity Limit of 0.43 NTU (0.36+20%). The internal TSS value of 724 is over the daily TSS limit (DTSSL) of
рН	8.78	7.71	9.29	28.6 mg/L (26+10%).
TURBIDITY (NTUs)	0.36	4.09	0.15	
DISSOLVED O ₂ (mg/L)	7.47	7.33	6.83	
TOTAL SUSPENDED SOLIDS (mg/L)	26	724	ND	

Rustic Canyon	11/13/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	8:00	8:15	9:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/13/19 (Wednesday). Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	14.97	15.6	14.99	0800 and 0900. Internal turbidity reading of 4.07 NTU was above the Daily Turbidity Limit of 0.47 NTU (0.39+20%). The internal TSS value of 624 is over the daily TSS limit
рН	8.96	7.5	9.12	(DTSSL) of ND.
TURBIDITY (NTUs)	0.39	4.07	0.43	
DISSOLVED O ₂ (mg/L)	8.16	3.42	7.87	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	624	ND	1
Rustic Canyon	11/18/2019		•	•
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	8:45	8:30	8:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/18/19. Upstream, downstream, and internal sampling was conducted between 0800 and 0845.
TEMPERATURE (°C)	15.1	15.3	15.86	Internal turbidity reading of 7.83 NTU was above the Daily Turbidity Limit of 0.82 NTU (0.68+20%). The internal TSS value of 2480 is over the daily TSS limit (DTSSL) of 6.6 mg/L
pH	8.73	7.72	9.06	(6+10%).
TURBIDITY (NTUs)	0.68	7.83	0.05	
DISSOLVED O2 (mg/L)	3.47	0.87	4.11	1
TOTAL SUSPENDED SOLIDS (mg/L)	6	2480	ND	1
Rustic Canyon	11/19/2019			·
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	8:10	8:00	7:30	1
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/19/19. Upstream, downstream, and internal sampling was conducted between 0730 and 0810.
TEMPERATURE (°C)	14.12	14.24	14.74	Internal turbidity reading of 20.7 NTU was above the Daily Turbidity Limit of 0.78 NTU (0.65+20%). The internal and downstream TSS values of 462 and 5 are over the daily TSS
рН	8.75	7.71	9.01	limit (DTSSL) of ND.
TURBIDITY (NTUs)	0.65	20.7	0.4	
DISSOLVED O ₂ (mg/L)	7.37	0.94	5.59	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	462	5	
Rustic Canyon	11/21/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	8:15	8:30	8:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	
TEMPERATURE (°C)	12.3	12.02	13.39	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 11/21/19. Upstream, downstream, and internal sampling was conducted between 0730 and 0810.
Hq		0.4	8.91	
pri	8.53	8.4	0.91	
TURBIDITY (NTUs)	8.53 0.32	0.08	0.1	

Rustic Canyon	12/2/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	11:40	12:00	12:15	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	Chris Cupringham parformed manifesting and compling for Pustic Convention on 12/2/10. Unstream downstream and internal compling was and whether the two and 4245
TEMPERATURE (°C)	13.53	14.77	14.42	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 12/2/19. Upstream, downstream, and internal sampling was conducted between 1140 and 1215.
pH	8.69	8.61	9.02	Internal and downstream turbidity readings of 3.18 and 3.26 NTU were above the Daily Turbidity Limit of 0.26 NTU (0.22+20%).
TURBIDITY (NTUs)	0.22	3.18	3.26	
DISSOLVED O ₂ (mg/L)	4.37	4.17	4.36	
TOTAL SUSPENDED SOLIDS (mg/L)	8	7	5	
Rustic Canyon	12/10/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	7:45	7:30	8:00	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	
TEMPERATURE (°C)	10.34	10.73	11.53	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 12/10/19. Upstream, downstream, and internal sampling was conducted between 0730 and 0800.
рН	8.58	8.49	8.91	
TURBIDITY (NTUs)	0.66	0.54	0.72	
DISSOLVED O ₂ (mg/L)	7.67	3.78	4.93	
TOTAL SUSPENDED SOLIDS (mg/L)	5	ND	ND	
Rustic Canyon	12/16/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	8:00	8:15	8:45	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	
TEMPERATURE (°C)	9.17	9.36	10.45	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 12/16/19. Upstream, downstream, and internal sampling was conducted between 0800 and 0845.
pH	8.63	8.57	8.95	
TURBIDITY (NTUs)	0.66	0.44	0.49	
DISSOLVED O ₂ (mg/L)	7.81	7.2	4.75	
TOTAL SUSPENDED SOLIDS (mg/L)	5	9	5	
Rustic Canyon	12/24/2019			
LATITUDE (approx.)	34.044243	34.039082	34.035511	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	
TIME	7:30	7:45	8:15	
SAMPLE NO.	RCYNC-1	RCYNC-2	RCYNC-3	
TEMPERATURE (°C)	8.72	9.12	9.96	Chris Cunningham performed monitoring and sampling for Rustic Canyon, on 12/24/19. Upstream, downstream, and internal sampling was conducted between 0730 and 0815.
pH	8.59	8.49	8.92	
TURBIDITY (NTUs)	0.56	0.39	0.66	
DISSOLVED O ₂ (mg/L)	7.39	4.37	5.64	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	

Rustic Canyon	12/31/2019			WATER QUALITY SAMPLING TESTING AND MONTORING RESOLTS (2015)
LATITUDE (approx.)	34.044243	34.039082	34.035511	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.512676	118.516277	118.517723	
ELEVATION (approx.)	170	115	75	4
TIME	7:15	7:30	7:45	4
SAMPLE NO.	RCYNC-1	RCYNC-2		
			RCYNC-3	Chris Cunningham performed post work monitoring and sampling for Rustic Canyon, on 12/31/19. Upstream, downstream, and internal sampling was conducted between 0715
TEMPERATURE (°C)	10.34	10.42	11.47	and 0745.
pH	8.73	8.75	9.02	
	0.86	0.35	0.6	
DISSOLVED O ₂ (mg/L)	3.62	4.45	4.6	
TOTAL SUSPENDED SOLIDS (mg/L)	6	ND	6	
San Gabriel River Reach 115	10/2/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	11:15	11:30	11:45	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cunningham performed baseline monitoring and sampling for San Gabriel River Reach 115, on 10/2/19 (Wednesday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	22.81	22.92	23.09	conducted between 1115 and 1145.
pН	7.99	8.12	8.18	
TURBIDITY (NTUs)	4.14	3.18	3.48	
DISSOLVED O ₂ (mg/L)	2.65	2.88	2.52	
TOTAL SUSPENDED SOLIDS (mg/L)	7	12	6	
San Gabriel River Reach 115	10/4/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	10:00	10:15	10:30	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	
TEMPERATURE (°C)	20.78	20.75	20.88	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 10/4/19 (Friday). Upstream, downstream, and internal sampling was conducted
pH	8.07	8.21	8.24	between 1000 and 1030.
TURBIDITY (NTUs)	7.22	3.21	2.72	
DISSOLVED O ₂ (mg/L)	6.25	2.85	2.29	
TOTAL SUSPENDED SOLIDS (mg/L)	35	ND	34	
San Gabriel River Reach 115	10/23/2019	•		
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	9:00	9:20	9:45	1
SAMPLE NO.	SGRR115W-1	SGRR115W-2		
TEMPERATURE (°C)	19.95	20.46	20.36	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 10/23/19 (Wednesday). Upstream, downstream, and internal sampling was
pH	7.75	8.19	9.03	conducted between 0900 and 0945.
TURBIDITY (NTUs)	3.05	2.89	2.5	1
DISSOLVED O ₂ (mg/L)	3	2.94	5.13	
TOTAL SUSPENDED SOLIDS (mg/L)	39	29	30	
(ing/L)				

San Gabriel River Reach 115	11/5/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	10:00	10:30	11:00	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 11/5/19 (Tuesday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	17.71	18.72	19.3	between 1000 and 1100. Internal turbidity reading of 13.2 NTU was above the Daily Turbidity Limit of 3.49 NTU (2.91+20%). The internal and downstream TSS values of 55 and
рН	8.56	8.38	8.98	26 were over the daily TSS limit (DTSSL) of 20.9 mg/L (19+10%).
TURBIDITY (NTUs)	2.91	13.2	3.15	
DISSOLVED O ₂ (mg/L)	2.91	2.53	3.06	
TOTAL SUSPENDED SOLIDS (mg/L)	19	55	26	
San Gabriel River Reach 115	11/13/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	10:45	11:30	12:00	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	
TEMPERATURE (°C)	20.62	20.52	20.3	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 11/13/19 (Wednesday). Upstream, downstream, and internal sampling was
pН	9.21	8.51	8.6	conducted between 1045 and 1200.
TURBIDITY (NTUs)	1.78	1.18	0.92	
DISSOLVED O ₂ (mg/L)	4.92	3.56	2.78	
TOTAL SUSPENDED SOLIDS (mg/L)	42	18	11	
San Gabriel River Reach 115	11/22/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	8:45	9:00	9:15	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 11/22/19. Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	15.92	16.55	16.85	845 and 915. Internal and downstream turbidity readings of 1.3 and 0.79 NTU were above the Daily Turbidity Limit of 0.74 NTU (0.62+20%). The internal and downstream TSS
pН	8.41	8.36	8.61	values of 54 and 50 are over the daily TSS limit (DTSSL) of 16.5 mg/L (15+10%).
TURBIDITY (NTUs)	0.62	1.3	0.79	
DISSOLVED O ₂ (mg/L)	2.53	1.69	3.81	
TOTAL SUSPENDED SOLIDS (mg/L)	15	54	50	
San Gabriel River Reach 115	11/25/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	10:00	10:30	10:45	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cuppingham performed monitoring and campling for San Cabriel Diver Deach 115, on 11/25/10. Unstream, downstream, and internal compliances and established between
TEMPERATURE (°C)	17.62	17.79	18.13	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 11/25/19. Upstream, downstream, and internal sampling was conducted between
рН	8.48	8.38	8.55	1000 and 1045.
TURBIDITY (NTUs)	0.7	0.8	0.36	
DISSOLVED O ₂ (mg/L)	3.43	2.13	2.82	
TOTAL SUSPENDED SOLIDS (mg/L)	37	26	20	

San Gabriel River Reach 115	12/3/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	9:15	9:30	10:00	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cunningham performed monitoring and campling for Can Cabriel Diver Boach 11E on 13/2/10. Unctream, downstream, and internal campling was conducted between
TEMPERATURE (°C)	15.25	15.69	16.12	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 12/3/19. Upstream, downstream, and internal sampling was conducted between 0915 and 1000. The internal and downstream TSS values of 13 and 19 are over the daily TSS limit (DTSSL) of ND.
pН	8.61	8.57	8.52	
TURBIDITY (NTUs)	0.58	0.62	0.7	
DISSOLVED O ₂ (mg/L)	6.41	2.8	2.33	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	13	19	
San Gabriel River Reach 115	12/9/2019			
LATITUDE (approx.)	33.77496	33.75991	33.74725	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.09812	118.09857	118.11368	
ELEVATION (approx.)	-4	-6	-7	
TIME	11:00	11:45	11:20	
SAMPLE NO.	SGRR115W-1	SGRR115W-2	SGRR115W-3	Chris Cunningham performed monitoring and sampling for San Gabriel River Reach 115, on 12/9/19. Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	17.33	18.03	17.78	1100 and 1145.
pH	8.44	8.5	8.48	1100 1145.
TURBIDITY (NTUs)	9.02	8.55	10.08	
DISSOLVED O ₂ (mg/L)	3.88	7.17	3.4	
TOTAL SUSPENDED SOLIDS (mg/L)	39	14	33	

San Gabriel River Reach 43	9/14/2019	
LATITUDE (approx.)		Pre-Clearing/Baseline
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Care Avenue arrived as site shout 0050 and maturith Large Cudies and Charmonter Maintenance Die Upade and Car Cabriel Second in Crowneds Vard to aveluate surface water
SAMPLE NO.		Garo Avoyan arrived on site about 0950 and met with Jorge Gudino and Stormwater Maintenance Rio Hondo and San Gabriel Spreading Grounds Yard to evaluate surface water flow prior to initiating baseline monitoring and sampling. Reach extends south to Beverly Blvd. This location was dry. Baseline water quality monitoring and sampling not
TEMPERATURE (°C)		performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water quality
pH		
TURBIDITY (NTUs)		standpoint, project is "good to go" for start on Monday 09/16.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	9/20/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1250 and met with Jorge Gudino and Stormwater Maintenance Rio Hondo and San Gabriel Spreading Grounds Yard to evaluate surface water
TEMPERATURE (°C)		flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry. Water sampling not performed because the site did not meet Regional
pH		Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

San Gabriel River Reach 43	9/26/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Garo Avoyan arrived on site about 0844 to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry. Water
рН		sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	10/4/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1015 to evaluate surface water flow prior water sampling and monitoring. This location was dry. Water sampling not performed because the
TEMPERATURE (°C)		Garo Avoyan arrived on site about 1015 to evaluate surface water flow prior water sampling and monitoring. This location was dry. Water sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). I notified you via phone call. GMED will continue to monitor the area to re-confirm conditions.
pH		site did not meet Regional water Quality Control Board (RWQCB). I notified you via phone call. GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	10/10/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Garo Avoyan arrived on site about 0910 to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry. Water
рН		sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	10/17/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0825 to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry. Water
TEMPERATURE (°C)		sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
pН		sampling not performed because the site did not meet regional water quality control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
TURBIDITY (NTUs) DISSOLVED O ₂ (mg/L)		

San Gabriel River Reach 43	10/24/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Core Augure arrived on site shout 0215 mite surface water flow asian water complian and manifesion. This leasting was day. Water complian as the formed because
TEMPERATURE (°C)		Garo Avoyan arrived on site about 0215pm to evaluate surface water flow prior water sampling and monitoring. This location was dry. Water sampling not performed because
pН		the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	10/31/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1043am to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry.
TEMPERATURE (°C)		Water sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
pН		water sampling not performed because the site did not meet Regional water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	11/7/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0907am to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry.
TEMPERATURE (°C)		Water sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
pH		water sampling not performed because the site did not meet Regional water quality control board (Rwqcb). Give board (Rwqcb).
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 43	11/14/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0800am to evaluate surface water flow prior water sampling and monitoring. Reach extends south to Beverly Blvd. This location was dry.
TEMPERATURE (°C)		Water sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
рН		
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		

San Gabriel River Reach 43	12/2/2019	
LATITUDE (approx.)		Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0817am to perform post monitoring and water sampling at the San Gabriel River Reach 43 Channel. This location had water flow however the
TEMPERATURE (°C)		flow was very thin which made it impossible to sample for testing. Water sampling not performed because the site did not meet Regional Water Quality Control Board
pH		(RWQCB).
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	9/14/2019	
LATITUDE (approx.)		Pre-Clearing/Baseline
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		Care August arginal an site shout 0020 and mat large Cudies and Starmunter Maintenance Die Hande and Can Cabriel Encoding County 4 Variate surface water flow
SAMPLE NO.		Garo Avoyan arrived on site about 0930 and met Jorge Gudino and Stormwater Maintenance Rio Hondo and San Gabriel Spreading Grounds Yard to evaluate surface water flow
TEMPERATURE (°C)		prior to initiating baseline monitoring and sampling. This location was dry. Baseline water quality monitoring and sampling not performed because the site did not meet
pH		Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions From a water quality standpoint, project is "good to go" for
TURBIDITY (NTUs)		start on Monday 09/16.
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	9/20/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1305 and met Jorge Gudino and Stormwater Maintenance Rio Hondo and San Gabriel Spreading Grounds Yard to evaluate surface water flow
TEMPERATURE (°C)		prior to Water quality sampling. This location was dry. Water quality sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
pH		GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	9/26/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Garo Avoyan arrived on site about 910 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed because
pH		the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

San Gabriel River Reach 44	10/4/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		
TEMPERATURE (°C)		Garo Avoyan arrived on site about 1033 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed
pH		because the site did not meet Regional Water Quality Control Board (RWQCB). I notified you via phone call. GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	10/10/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0845 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed
TEMPERATURE (°C)		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
рН		because the site did not meet regional water quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	10/17/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0840 to evaluate surface water flow prior to Water quality sampling. This location was dry. Water quality sampling was not performed
TEMPERATURE (°C)		because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
рН		because the site did not meet regional water quality control board (rwqcb). Gived will continue to monitor the area to re-commit conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	10/24/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0146pm to evaluate surface water flow prior to Water quality sampling. This location had water flow however this was from the pump station
TEMPERATURE (°C)		opening and outlet and releasing water. This does not constitute grounds for water sampling. Water quality sampling was not performed because the site did not meet Regional
рН		Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions.
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

San Gabriel River Reach 44	10/31/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 1020am to evaluate surface water flow prior to Water quality sampling. This location had water flow however this was from the pump station
TEMPERATURE (°C)		opening and outlet and releasing water. This does not constitute grounds for water sampling. Water quality sampling was not performed because the site did not meet Regional
pH		Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	11/7/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0842am to evaluate surface water flow prior to Water quality sampling. This location had water flow however this was from the pump station
TEMPERATURE (°C)		opening and outlet and releasing water. This does not constitute grounds for water sampling. Water quality sampling was not performed because the site did not meet Regional
pH		Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	11/14/2019	
LATITUDE (approx.)		During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0825am to evaluate surface water flow prior to Water quality sampling. This location had water flow however this was from the pump station
TEMPERATURE (°C)		opening and outlet and releasing water. This does not constitute grounds for water sampling. Water quality sampling was not performed because the site did not meet Regional
pН		Water Quality Control Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		
San Gabriel River Reach 44	12/2/2019	
LATITUDE (approx.)		Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)		
ELEVATION (approx.)		
TIME		
SAMPLE NO.		Garo Avoyan arrived on site about 0837am to perform post monitoring and water sampling at the San Gabriel River Reach 44 Channel. This location was dry. Water quality
TEMPERATURE (°C)		sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
рН		sampling was not performed because the site of not meet regional water quality control board (rwqcb).
TURBIDITY (NTUs)		
DISSOLVED O ₂ (mg/L)		
TOTAL SUSPENDED SOLIDS (mg/L)		

San Jose Creek Concrete Lined Channel	10/25/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	Pre-Clearing/Baseline
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	1
TIME	8:00	8:30	9:00	1
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	1
TEMPERATURE (°C)	16.49	15.71	15.15	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 10/25/19 (Friday). Upstream, downstream, and internal sampling was
Hq	8.42	9.66	9.22	conducted between 0800 and 0900.
TURBIDITY (NTUs)	5.24	4.16	11.6	
DISSOLVED O ₂ (mg/L)	2.96	6.24	3.78	
TOTAL SUSPENDED SOLIDS (mg/L)	17	15	26	
San Jose Creek Concrete Lined Channel	10/26/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	1
TIME	8:00	8:30	9:00	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	
TEMPERATURE (°C)	15.19	14.46	14.58	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 10/26/19 (Saturday). Upstream, downstream, and internal sampling was
	8.27	10.3	9.27	conducted between 0800 and 0900.
TURBIDITY (NTUs)	4.06	3.98	3.71	
DISSOLVED O ₂ (mg/L)	4.05	3.98	3.71	
TOTAL SUSPENDED SOLIDS (mg/L)	75	49	60	
San Jose Creek Concrete Lined Channel	10/28/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	
TIME	9:00	9:30	9:45	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	
TEMPERATURE (°C)	13.05	13.05	12.93	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 10/28/19 (Monday). Upstream, downstream, and internal sampling was
Hq	8.77	10.21	10	conducted between 0900 and 0945.
TURBIDITY (NTUs)	6.19	5.55	4.49	1
DISSOLVED O ₂ (mg/L)	5.3	7.3	5.76	
TOTAL SUSPENDED SOLIDS (mg/L)	29	17	8	
San Jose Creek Concrete Lined Channel	10/29/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	1
TIME	8:00	8:30	8:45	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	- Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 10/29/19 (Tuesday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	10.45	10.34	10.51	conducted between 0800 and 0900. Internal and downstream turbidity readings of 7.83 and 8.64 NTU were above the Daily Turbidity Limit of 6.02 NTU (5.02+20%). The
pH	9.57	9.96	9.04	downstream TSS value of 25 was over the daily TSS limit (DTSSL) of 22 mg/L (20+10%).
TURBIDITY (NTUs)	5.02	7.83	8.64	
DISSOLVED O ₂ (mg/L)	3.97	5	8.02	
TOTAL SUSPENDED SOLIDS (mg/L)	20	16	25	
1017/20001 21020 002000 (mg/2)	20	10	20	

San Jose Creek Concrete Lined Channel	10/31/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	
TIME	8:00	8:30	9:00	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	
TEMPERATURE (°C)	7.27	6.2	6.32	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 10/31/19 (Thursday). Upstream, downstream, and internal sampling was
pH	4.9	10.11	9.35	conducted between 0800 and 0930. The internal and downstream TSS values of 17 and 37 were over the daily TSS limit (DTSSL) of 13.2 mg/L (12+10%).
TURBIDITY (NTUs)	5.66	6.04	5.16	
DISSOLVED O ₂ (mg/L)	3.47	3.65	3.53	
TOTAL SUSPENDED SOLIDS (mg/L)	12	17	37	
San Jose Creek Concrete Lined Channel	11/4/2019		•	
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	
TIME	7:30	8:00	8:30	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/4/19 (Monday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	11.14	10.83	10.7	conducted between 0730 and 0830. Internal and downstream turbidity readings of 21 and 4.51 NTU were above the Daily Turbidity Limit of 2.47 NTU (2.06+20%). The internal
pH	8.67	9.84	8.98	and downstream TSS values of 152 and 15 were over the daily TSS limit (DTSSL) of 7.7 mg/L (7+10%).
TURBIDITY (NTUs)	2.06	21	4.51	
DISSOLVED O ₂ (mg/L)	6.43	8.09	5.39	
TOTAL SUSPENDED SOLIDS (mg/L)	7	152	15	
San Jose Creek Concrete Lined Channel	11/5/2019			
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	
TIME	8:00	8:30	9:00	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/5/19 (Tuesday). Upstream, downstream, and internal sampling was
TEMPERATURE (°C)	11.95	12.25	12.65	conducted between 0800 and 0900. Internal and downstream turbidity readings of 3.98 and 5.89 NTU were above the Daily Turbidity Limit of 2.66 NTU (2.22+20%). The internal
pH	10.15	9.63	9.65	and downstream TSS values of 15 and 20 were over the daily TSS limit (DTSSL) of 5.5 mg/L (5+10%).
TURBIDITY (NTUs)	2.22	3.98	5.89	
DISSOLVED O ₂ (mg/L)	8.85	7.5	7.57	
TOTAL SUSPENDED SOLIDS (mg/L)	5	15	20	
San Jose Creek Concrete Lined Channel	11/6/2019	· · · · · · · · · · · · · · · · · · ·		
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.926368	117.979166	118.005701	
ELEVATION (approx.)	344	269	244	
TIME	8:45	9:15	9:30	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	
TEMPERATURE (°C)	14.95	15.57	15.47	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/6/19 (Wednesday). Upstream, downstream, and internal sampling
pH	10.76	10	9.46	was conducted between 0845 and 0930.
TURBIDITY (NTUs)	2.75	3.22	2.79	
DISSOLVED O ₂ (mg/L)	7.68	8.28	7.28	
TOTAL SUSPENDED SOLIDS (mg/L)	12	8	12	1

San Jose Creek Concrete Lined Channel	11/7/2019				
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	117.926368	117.979166	118.005701		
ELEVATION (approx.)	344	269	244	1	
TIME	6:30	7:00	7:30	7	
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3		
TEMPERATURE (°C)	15.04	15.05	14.9	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/7/19 (Thursday). Upstream, downstream, and internal sampling was	
pН	8.86	9.18	9.22	-conducted between 0630 and 0730.	
TURBIDITY (NTUs)	3.37	3.09	3.5		
DISSOLVED O ₂ (mg/L)	3.1	3.01	2.55		
TOTAL SUSPENDED SOLIDS (mg/L)	10	10	10		
San Jose Creek Concrete Lined Channel	11/8/2019				
LATITUDE (approx.)	34.008152	34.025069	34.032439	During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	117.926368	117.979166	118.005701		
ELEVATION (approx.)	344	269	244		
TIME	6:30	7:00	7:30		
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3		
TEMPERATURE (°C)	12.51	12.45	12.46	Chris Cunningham performed monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/8/19 (Friday). Upstream, downstream, and internal samplin conducted between 0630 and 0730.	
рН	8.94	9.09	8.84		
TURBIDITY (NTUs)	2.79	3.34	3.32		
DISSOLVED O ₂ (mg/L)	3.42	3.29	2.64		
TOTAL SUSPENDED SOLIDS (mg/L)	13	ND	ND		
San Jose Creek Concrete Lined Channel	11/19/2019				
LATITUDE (approx.)	34.008152	34.025069	34.032439	Post-Work WQ Monitoring & Sampling Results	
LONGITUDE (approx.)	117.926368	117.979166	118.005701		
ELEVATION (approx.)	344	269	244		
TIME	10:00	10:30	10:45		
SAMPLE NO.	SJCLC-1	SJCLC-2	SJCLC-3	Chris Cunningham performed post work monitoring and sampling for SAN JOSE CREEK CONC. LINED CHANNEL, on 11/8/19 (Friday). Upstream, downstream, and internal	
TEMPERATURE (°C)	17.4	17.93	17.76	-sampling was conducted between 0630 and 0730.	
pH	9.59	9.87	9.78		
TURBIDITY (NTUs)	3.96	9.44	3.29		
DISSOLVED O ₂ (mg/L)	10.08	8.06	7.41		
TOTAL SUSPENDED SOLIDS (mg/L)	27	26	15		
San Jose Creek Peech 42	1/2/2020				
San Jose Creek Reach 42	1/3/2020	24 022474	24.022214		
LATITUDE (approx.) LONGITUDE (approx.)	34.0325436 118.005706	34.032474 118.007214	34.032311 118.00824	Pre-Clearing/Baseline	
	243	242	238		
ELEVATION (approx.) TIME	7:00	7:20	238 7:45		
SAMPLE NO.	SJCR42-1	SJCR42-2	7.45 SJCR42-3		
TEMPERATURE (°C)	7.93	7.72	7.87	Chris Cunningham performed baseline monitoring and sampling for San Jose Creek, on 1/3/20. Upstream, downstream, and internal sampling was conducted between 0700 a	
pH	9.59	9.87	9.78	0745.	
TURBIDITY (NTUs)	0.26	0.05	0.27	-	
DISSOLVED O ₂ (mg/L)	3.38	3.15	3.31		
	3.30	3.13	3.31		

TOTAL SUSPENDED SOLIDS (mg/L)

ND

ND

ND

San Jose Creek Reach 42	1/7/2020			
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.005706	118.007214	118.00824	
ELEVATION (approx.)	243	242	238	
TIME	7:00	7:20	7:45	
SAMPLE NO.	SJCR42-1	SJCR42-2	SJCR42-3	
TEMPERATURE (°C)	6.93	6.51	6.46	Chris Cunningham performed monitoring and sampling for San Jose Creek, on 1/7/20. Upstream, downstream, and internal sampling was conducted between 0700 and 0745.
pH	8.97	8.95	8.93	The internal and downstream TSS values of 6 and 5 were over the daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	0.19	0.03	0	
DISSOLVED O ₂ (mg/L)	3.03	7.37	3.01	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	5	
San Jose Creek Reach 42	1/8/2020		•	
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.005706	118.007214	118.00824	
ELEVATION (approx.)	243	242	238	
TIME	7:00	7:20	7:45	
SAMPLE NO.	SJCR42-1	SJCR42-2	SJCR42-3	
TEMPERATURE (°C)	7.83	7.37	7.32	Chris Cunningham performed monitoring and sampling for San Jose Creek, on 1/7/20. Upstream, downstream, and internal sampling was conducted between 0700 and 0745.
pH	9.04	8.99	8.96	The downstream TSS value of 9 was over the daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	0.14	0.15	0.12	
DISSOLVED O ₂ (mg/L)	3.09	3.79	2.49	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	9	
San Jose Creek Reach 42	1/9/2020			·
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.005706	118.007214	118.00824	
ELEVATION (approx.)	243	242	238	
TIME	7:30	7:15	7:00	
SAMPLE NO.	SJCR42-1	SJCR42-2	SJCR42-3	
TEMPERATURE (°C)	9.03	8.97	8.99	Chris Cunningham performed monitoring and sampling for San Jose Creek, on 1/9/20. Upstream, downstream, and internal sampling was conducted between 0700 and 0745.
pH	9.03	8.92	8.87	The internal TSS value of 3 was over the daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	0.27	0.04	0.15	
DISSOLVED O ₂ (mg/L)	4.1	3.71	3.01	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	3	ND	
San Jose Creek Reach 42	1/10/2020			
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.005706	118.007214	118.00824	
ELEVATION (approx.)	243	242	238	
TIME	7:00	6:45	6:30	
SAMPLE NO.	SJCR42-1	SJCR42-2	SJCR42-3	
TEMPERATURE (°C)	6.16	6.06	6.12	Chris Cunningham performed monitoring and sampling for San Jose Creek, on 1/10/20. Upstream, downstream, and internal sampling was conducted between 0630 and 0700.
pH	9.04	9	8.96	
TURBIDITY (NTUs)	0.19	0.07	0.12	
DISSOLVED O ₂ (mg/L)	3.63	4.07	2.98	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	

San Jose Creek Reach 42	1/15/2020			WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2019)
LATITUDE (approx.)	34.0325436	34.032474	34.032311	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.005706	118.007214	118.00824	
ELEVATION (approx.)	243	242	238	
TIME	12:00	12:15	12:30	
SAMPLE NO.	SJCR42-1	SJCR42-2	SJCR42-3	
TEMPERATURE (°C)	14.4	15.51	15.3	Chris Cunningham performed post work monitoring and sampling for San Jose Creek, on 1/15/20. Upstream, downstream, and internal sampling was conducted between 1200
pH	10.07	10.01	9.99	and 1230.
TURBIDITY (NTUs)	1.67	0.17	1.6	
DISSOLVED O ₂ (mg/L)	10.31	6.19	8.9	
TOTAL SUSPENDED SOLIDS (mg/L)	11	9	7	
		5	1	
Walnut Creek Reach 98	10/9/2019			
LATITUDE (approx.)	34.079783	34.079688	34.074596	Pre-Clearing/Baseline
LONGITUDE (approx.)	117.860395	117.860648	117.873093	
ELEVATION (approx.)	530	530	488	
TIME	1:40	1:50	2:10	
SAMPLE NO.	WCRKR98-1	WCRKR98-2	WCRKR98-3	Garo Avoyan arrived on the jobsite at 0130 met with Lloyd Sanchez from Stormwater Maintenance San Dimas Yard. Performed pre-work baseline monitoring and sampling at
TEMPERATURE (°C)	22.79	21.57	23.38	upstream, internal, and downstream points at the Walnut Creek Reach 98. Baseline monitoring and sampling was performed one day prior of the placement of the BMPs and
pH	9.02	7.25	7.75	proposed start of cleanout operations. There were a lot of vegetations floating and larva swimming in all three sampling points. Between 0140 and 0210, collected and recorded
TURBIDITY (NTUs)	1.48	1.5	2.3	water quality parameters of temperature, pH, turbidity, and dissolved oxygen. From a water quality standpoint, project is "good to go" for start on Thursday 10/10.
DISSOLVED O ₂ (mg/L)	11.8	9.93	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	10	8	8	
Walnut Creek Reach 98	10/10/2019			
LATITUDE (approx.)	34.079783	34.079688	34.074596	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.860395	117.860648	117.873093	
ELEVATION (approx.)	530	530	488	
TIME	10:10	10:20	10:50	Garo Avoyan arrived on the jobsite at 1000 to performed during maintenance water quality sampling at upstream, internal, and downstream points at the Walnut Creek Reach
SAMPLE NO.	WCRKR98-1	WCRKR98-2	WCRKR98-3	98. The downstream sampling point had large amounts of vegetations floating and larva swimming causing turbidity reading to go up slightly. Also three (3) BMPs were placed
TEMPERATURE (°C)	21.67	20.33	20.08	several hundred feet further down from the internal point. Downstream sampling point was taken on the lower left corner side of the rubber dam. Between 1010 and 1050,
pH	5.33	7.37	7.25	collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Downstream turbidity reading of 2.34 NTU was above the Daily Turbidity
TURBIDITY (NTUs)	1.4	1.55	2.34	Limit of 1.68 NTU (1.4+20%).
DISSOLVED O ₂ (mg/L)	10.68	10.24	10.43	
TOTAL SUSPENDED SOLIDS (mg/L)	7	6	6	
Walnut Creek Reach 98	10/17/2019			
LATITUDE (approx.)	34.079783	34.079688	34.074596	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	117.860395	117.860648	117.873093	
ELEVATION (approx.)	530	530	488	
TIME	9:31	9:41	10:06	
SAMPLE NO.	WCRKR98-1	WCRKR98-2	WCRKR98-3	Garo Avoyan arrived on the jobsite at 1000 to perform post water quality monitoring sampling at upstream, internal, and downstream points at the Walnut Creek Reach 98.
TEMPERATURE (°C)	17.84	16.86	18.19	BMPs were removed on 10/10. Between 0931 and 1006, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Downstream
pH	8.34	7.95	8.52	turbidity reading of 1.97 NTU was above the Daily Turbidity Limit of 1.55 NTU (1.29+20%).
TURBIDITY (NTUs)	1.29	1.16	1.97	
DISSOLVED O ₂ (mg/L)	9.71	10.01	9.9	

Wilmington Drain	9/10/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	Pre-Clearing/Baseline
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	11:00	10:45	10:30	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	
TEMPERATURE (°C)	25.14	23.47	22.93	Chris Cunningham performed monitoring and sampling Wilmington Drain, on 09/10/19 (Tuesday). Upstream, downstream, and internal sampling was conducted between 1030
рН	9	8.47	8	and 1100. Collected and recorded field readings of temperature (22.93 to 25.14°C), pH (8.00 to 9.00), turbidity (3.35 to 10.33 NTUs), and dissolved oxygen (3.14 to 7.01mg/L).
TURBIDITY (NTUs)	3.35	10.33	4.3	
DISSOLVED O ₂ (mg/L)	7.01	5.51	3.14	
TOTAL SUSPENDED SOLIDS (mg/L)	12	127	23	
Wilmington Drain	9/16/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	10:35	10:15	10:00	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunningham performed monitoring and sampling Wilmington Drain, on 09/16/19 (Monday). Upstream, downstream, and internal sampling was conducted between 1000
TEMPERATURE (°C)	22.57	20.32	21.15	and 1100. Internal turbidity reading of 7.63 NTU was above the Daily Turbidity Limit of 3.74 NTU (3.12+20%). The internal and downstream TSS values of 114 and 9 were over
pН	9.09	7.29	7.88	the daily TSS limit (DTSSL) of 8.8 mg/L (8+10%).
TURBIDITY (NTUs)	3.12	7.63	2.13	
DISSOLVED O ₂ (mg/L)	7.59	7.74	2.09	
TOTAL SUSPENDED SOLIDS (mg/L)	8	114	9	
Wilmington Drain	9/17/2019			·
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	10:35	10:00	10:15	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunningham performed monitoring and sampling Wilmington Drain, on 09/17/19 (Tuesday). Upstream, downstream, and internal sampling was conducted between 1000
TEMPERATURE (°C)	23.24	19.47	21.08	and 1100. Internal and downstream turbidity readings of 10.39 and 8.08 NTU were above the Daily Turbidity Limit of 5.83 NTU (4.86+20%). The internal TSS value of 120 was
рН	9.73	7.72	7.97	over the daily TSS limit (DTSSL) of 82.5 mg/L (75+10%).
TURBIDITY (NTUs)	4.86	10.39	8.08	
DISSOLVED O ₂ (mg/L)	7.37	8.05	2.92	
TOTAL SUSPENDED SOLIDS (mg/L)	75	120	12	
Wilmington Drain	9/19/2019			
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				Garo Avoyan arrived on site about 1040 and met with Ricardo Duarte from Stormwater Maintenance Westchester Yard to perform water quality sampling. Internal sampling
SAMPLE NO.				point, located next to the concrete ramp of the east levee had no water flow. Access is 825 feet south of Lomita Blvd with access through driveway on the south side of east-
TEMPERATURE (°C)				bound Lomita Blvd. I noticed water flow coming from the east side outlet into the channel from the east access concrete east levee towards the end. The maintenance crew
pH				were mainly cleaning the drainage at the downstream point of the channel. Water sampling was not performed because the site did not meet Regional Water Quality Control
TURBIDITY (NTUs)				Board (RWQCB). GMED will continue to monitor the area to re-confirm conditions. Garo contacted Mr. Paul Lopez of Stormwater Maintenance Westchester Yard via cell phone
DISSOLVED O ₂ (mg/L)				and informed him.

Wilmington Drain	9/20/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	9:20	8:30	8:55	Garo Avoyan arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. He met with
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	
TEMPERATURE (°C)	20.28	19.81	20.22	Ricardo Duarte of Stormwater Maintenance Imperial Yard . For the internal sampling point, water sample was taken on the west side of the channel being on the opposite of
pH	7.61	6.88	7.39	previous sampling point. Two BMPs were placed at downstream. Between 0830 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and
TURBIDITY (NTUs)	4	2.37	2.32	dissolved oxygen
DISSOLVED O ₂ (mg/L)	10.07	9.98	9.82	
TOTAL SUSPENDED SOLIDS (mg/L)	8	7	6	
Wilmington Drain	9/21/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	9:06	8:30	9:33	Garo Avoyan arrived on-site about 0815 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. He met with
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Ricardo Duarte of Stormwater Maintenance Imperial Yard . For the internal sampling point, sample was taken at original location from previous sampling years (east side).
TEMPERATURE (°C)	20.27	18.32	21.32	Entrance was cleared by the City of Los Angeles after homeless items and yellow tape was removed. Turbidity readings were higher for both Internal and Downstream points.
pH	8.32	8.05	8.12	Two BMPs were placed at downstream. Between 0830 and 0933, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Internal
TURBIDITY (NTUs)	2.03	8.83	3.74	and downstream turbidity readings of 8.83 and 3.74 NTU were above the Daily Turbidity Limit of 2.44 NTU (2.03+20%). The internal TSS value of 23 was over the daily TSS limit
DISSOLVED O ₂ (mg/L)	9.59	9.99	10.14	(DTSSL) of 11 mg/L (10+10%).
TOTAL SUSPENDED SOLIDS (mg/L)	10	23	11	
Wilmington Drain	9/23/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	10:30	9:38	10:00	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunninham performed monitoring and sampling for Wilmington Drain Reach 27, on 09/23/19 (Monday). Upstream, downstream, and internal sampling was conducted
TEMPERATURE (°C)	20.5	19.2	20.28	between 0938 and 1030. Downstream turbidity reading of 8.55 NTU was above the Daily Turbidity Limit of 3.72 NTU (3.1+20%). The internal and downstream TSS values of 108
pH	9.25	7.84	7.99	and 36 were over the daily TSS limit (DTSSL) of ND.
TURBIDITY (NTUs)	3.1	2.4	8.55	
DISSOLVED O ₂ (mg/L)	5.86	1.5	2.7	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	108	36	
Wilmington Drain	9/30/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	10:30	10:00	10:15	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cuprishers performed mentaring and compling for Wilmington Drain Deach 27, or 60/20/40/Minutes). Understanding for Wilmington Drain Deach 27, or 60/20/40/Minutes).
TEMPERATURE (°C)	19.43	17.1	16.85	Chris Cunninham performed monitoring and sampling for Wilmington Drain Reach 27, on 09/30/19 (Monday). Upstream, downstream, and internal sampling was conducted
pH	9.5	7.83	8.09	between 1000 and 1030. The internal TSS value of 41 was over the daily TSS limit (DTSSL) of 33 mg/L (30+10%).
TURBIDITY (NTUs)	3	2.76	3.37	
DISSOLVED O ₂ (mg/L)	6.5	3.23	7.96	
TOTAL SUSPENDED SOLIDS (mg/L)	30	41	8	

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	pH		
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)	TOTAL SUSPENDED SOLIDS (mg/L)		

	11/25/2019 33.798844 118.288449 14	33.795315 118.288423	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.) ELEVATION (approx.) TIME SAMPLE NO.	118.288449		33.791222	During Maintenance WO Monitoring & Sampling Results
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SAMPLE NO.		13	13	
	12:00	12:15	12:30	
	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunninham performed monitoring and sampling for Wilmington Drain, on 11/25/19. Upstream, downstream, and internal sampling was conducted between 1200 and
TEMPERATURE (°C)	18	17.68	17.97	1230. Internal and downstream turbidity readings of 4.66 and 63.9 NTU were above the Daily Turbidity Limit of 5.59 NTU (4.66+20%). The internal and downstream TSS values
рН	8.1	7.88	7.43	of 122 and 551 were over the daily TSS limit (DTSSL) of 34.1 mg/L (31+10%).
TURBIDITY (NTUs)	4.66	63.9	19.1	
DISSOLVED O ₂ (mg/L)	2.58	0	7	
TOTAL SUSPENDED SOLIDS (mg/L)	31	122	551	
Wilmington Drain	12/3/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	12:40	10:45	12:20	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunninham performed monitoring and sampling for Wilmington Drain, on 12/3/19. Upstream, downstream, and internal sampling was conducted between 1045 and
TEMPERATURE (°C)	14.52	13.66	13.94	1240. Internal and downstream turbidity readings of 10.96 and 5.39 NTU were above the Daily Turbidity Limit of 3.83 NTU (3.19+20%). The internal TSS value of 19 was over the
рН	8.22	8.3	8.39	daily TSS limit (DTSSL) of 17.6 mg/L (16+10%).
TURBIDITY (NTUs)	3.19	10.96	5.39	
DISSOLVED O ₂ (mg/L)	0	7.66	0	
TOTAL SUSPENDED SOLIDS (mg/L)	16	19	7	
Wilmington Drain	12/9/2019			
LATITUDE (approx.)	33.798844	33.795315	33.791222	Post-Work WQ Monitoring & Sampling Results
LONGITUDE (approx.)	118.288449	118.288423	118.287808	
ELEVATION (approx.)	14	13	13	
TIME	13:00	12:30	12:45	
SAMPLE NO.	WDRAIN27-1	WDRAIN27-2	WDRAIN27-3	Chris Cunninham performed post work monitoring and sampling for Wilmington Drain, on 12/9/19. Upstream, downstream, and internal sampling was conducted between
TEMPERATURE (°C)	17.55	18.17	17.44	1230 and 1300. Internal turbidity reading of 29.2 NTU was above the Daily Turbidity Limit of 27.36 NTU (22.8+20%). The internal TSS value of 33 was over the daily TSS limit
pH	8.47	8.5	8.24	(DTSSL) of 23.1 mg/L (21+10%).
TURBIDITY (NTUs)	22.8	29.2	13.2	
DISSOLVED O ₂ (mg/L)	1.35	0.17	0	
TOTAL SUSPENDED SOLIDS (mg/L)	21	33	11	

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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





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

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 Control (Project)	Engineered Earth-Bot	ttom Channels for Flood
Applicant:	Los Angeles County Floor	l Control District	
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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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enance Clearing of Engineered Bottom Channels for Flood Control	Reg. Meas. ID: 401529 Place ID: 815900		
Best Management Practices			
Water Quality Certification Effective Date and Term			

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.

					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	1
	(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

Maintenance Clearing of Engineered Earth-Bottom Channels for Flood Control

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

ATTACHMENT NO. 8 2019 MAINTENANCE METHODOLY PILOT PROJECTS

2019 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

May 2020

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2019 MAINTENANCE METHODOLOGY PILOT PROJECT At ft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet)

Soft-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 third year. In this report, LACFCD will go over the 2019 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

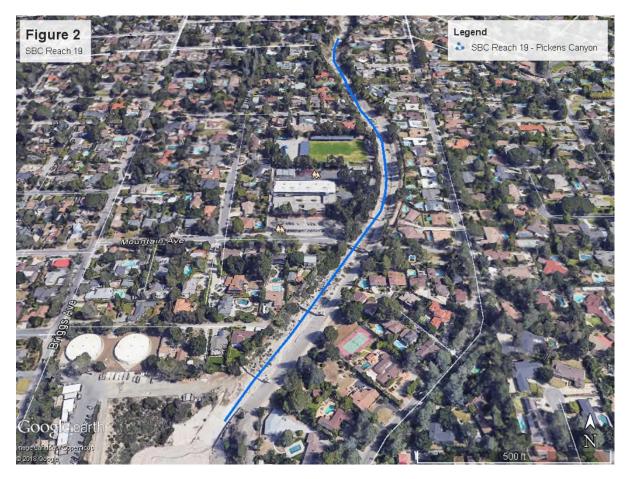


Figure 2: SBC Reach 19 – Pickens Canyon

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 2019 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 2019 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 2019 MMPP for SBC Reach 7 was performed on October 16, 2019 while SBC Reach 19 was done on January 24, 2020. The equipment used during the 2019 MMPP included hand tools and a stakebed dump truck (see Attachment A).

3.0 WATER QUALITY MONITORING - MMPP

No Water Quality (WQ) monitoring was performed during the 2019 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 2019 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 26, 2019. 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 USACE. 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 2018-2019 SBC maintenance clearing season. Photos associated with these visits are included in Attachment C.

During the August 26, 2019, preclearing survey of Reach 7, mature willow dominated riparian vegetation was present on the earthen tops of both banks. The banks were covered with riprap and concrete. A trash rack crosses the invert where the riprap and concrete portions of the reach meet. 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 tree was present at the toe of the right (west) bank. This mature willow was present prior to the start of project construction in 2008. The invert was unvegetated and covered by flowing water in previous years. During this survey, however, young willows and cattails

have become established on the invert along the left (or east) bank between the trash rack and the pedestrian bridge. As in previous surveys, young willows and ornamental saplings have emerged in the riprap of both banks, especially at the water's edge.

The post-clearing survey was performed on November 19, 2019. 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 qualified 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 trimmings of the mature willow on the right bank toe and the young willow growth on the riprap of both banks and on the newly formed sediment "island" that has appeared on the invert between the pedestrian bridge and the trash rack.

The pre-clearing biological site visit for SBC Reach 19 was conducted by a qualified biologist on August 19, 2019. Standard data were recorded and photos were taken from previously established photo stations. Attachment D includes the Pre- and Post-clearing Form from the 2018-2019 SBC maintenance clearing season. Photos associated with these visits are included in Attachment C.

During the August 19, 2019, pre-clearing survey of Reach 19, the vegetation on the invert consisted of 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*). Nonnative invasive species, including castor bean and Spanish broom (*Spartium junceum*), are also present on the invert. The nonnative 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 natives such as laurel sumac (*Malosma laurina*).

The post-clearing survey was performed on January 16, 2020. 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 vegetation on the invert and on the earthen west bank was allowed to remain. This clearing pattern is consistent with previous maintenance activities for Reach 19.

The modified maintenance method for Reach 19 was 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.

4.2 MMPP's Biological Assessment

Proposed modified maintenance methods at SBC Reach 7 include allowing additional vegetation (i.e. willows) to grow at the toe of the west bank. In time, these willows would be pruned to allow canopy only above approximately six feet so that storm flows are not impeded. The goal would be to have more than one "old" willow now established on the toe of the west bank of this reach. This would provide additional habitat for riparian species already using this reach including the endangered least Bell's vireo. Establishment and growth of these willows would take a minimum of several years to occur.

Proposed modified maintenance methods at SBC Reach 19 include removal of invasive species such as castor bean and Spanish broom in order to facilitate growth and spread of native alluvial scrub species on the invert. 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. The vegetation on the invert currently receives relatively little wildlife use because of its isolation from other native open spaces in the region. It is expected that the greater habitat values in the future will allow the occupation of this reach by regional wildlife species such as the western whiptail (Cnemidophorus tigris). It should be noted that measurable increases in quantity and quality of native alluvial sage scrub vegetation are long-term prospects and expected to occur over many years.

The modified maintenance methodology for Reaches 7 and 19 were intended to facilitate growth and spread of native willow and alluvial sage scrub species, respectively, on the invert of the reaches. Over multiple years, the new method would result in higher quality willows and alluvial sage scrub habitat that are expected to provide greater habitat value for wildlife.

5.0 <u>COMPARISON</u>

LACFCD's initial observation of the 2019 MMPP is as follows:

5.1 Maintenance Observation

During the 2019 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 few years 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

2019 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

2019 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









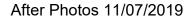
ATTACHMENT C PRE- AND POST-CLEARING PHOTOS

2019 Maintenance Methodology Pilot Project

PRE- AND POST-CLEARING PHOTOS SBC Reach 7 - Bull Creek M.C.O

Before Photos 10/16/2019















PRE- AND POST-CLEARING PHOTOS SBC Reach 19 - Pickens Canyon

Before Photos 01/24/2020



After Photos 01/24/2020











PRE- AND POST-CLEARING PHOTOS SBC Reach 19 - Pickens Canyon

Before Photos 01/24/2020



After Photos 01/24/2020



ATTACHMENT D PRE – AND POST-CLEARING FORMS

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:
Special Permit Conditions (list):
Special permit conditions for least Bell's vineo (BV)apply. Acte that The ACOE/City of LA. restoration project in 2008 changed existing conditions at this reach. Observation of Special Status Species: rore Detected Rowing Aug 26, 2019 visit
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, 2, 3; willow and cotton wood soptings at toe of both nprapaovered slopes - note attacks and nices scrob graving on sediment bar forming on invert; intones not a problem (fre damaged regetation out top of banks resulting from unregulated fines in homeless encampnents). Name of Biological Monitor: Brian Daniels Date: Aug 26, 2019
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; Four young cottonwoods at the of right (or west) bank selected for 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):
Name of Biological Monitor: Brian Daviels Date: Nov. 19, 2019
Revised 2016

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:/9
Special Permit Conditions (list):
Hand Cleaning anly. (Note that the current ACOE permit
Continue It instale this reach on list for least Bellippines and
Sonta anafuite despite experts determining no potantial for either of these
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.) Photon 12,13; Riparn herb and nuberal Vege tation in area Maintained; Some Castor Bean present:
Name of Biological Monitor: Core Marin Date: august 19, 2019
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 C, P; Omanua C Vegetation and some Chapanel and/or</u> <u>alludel foge fearle</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:Month Date: January 16, 2020
Revised 2016

2019 MAINTENANCE METHODOLOGY PILOT PROJECT

Soft-Bottom Channel Reaches 20 (Webber Channel Private Bridge) and 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

May 2020

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2019 MAINTENANCE METHODOLOGY PILOT PROJECT At Reaches 20 (Webber Channel Private Bridge) and 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 third year. In this report, LACFCD will go over the 2019 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).

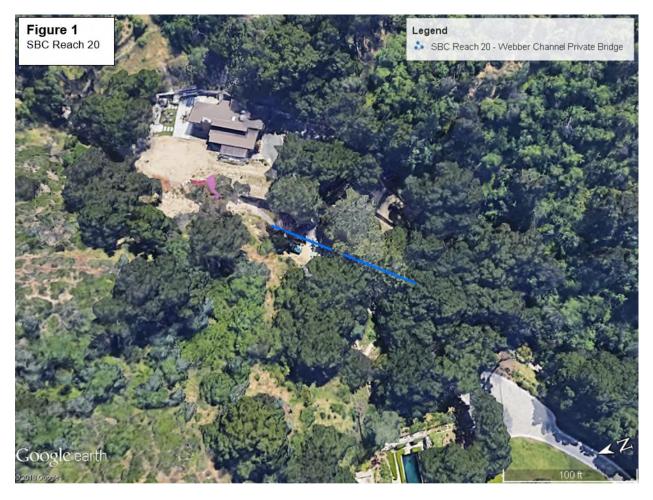


Figure 1: SBC Reach 20 – Webber Channel Private Bridge

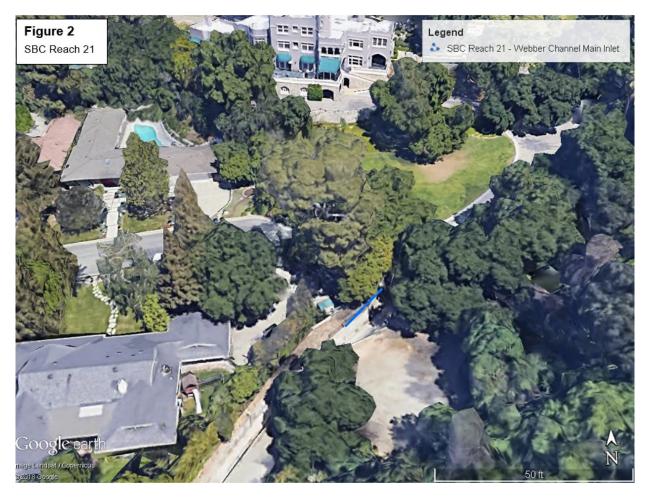


Figure 2: SBC Reach 21 - Webber Channel Main Inlet

2.0 VEGETATION MAINTENANCE

2.1 2019 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 January 27, 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 by the use of stakebed 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 2019 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 2019 MMPP, Water Quality (WQ) Monitoring 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 19, 2019. Standard data were recorded and photos were taken from previously established photo stations. Attachment C includes the associated photos from the 2019-20 SBC maintenance-clearing season, while Attachment D includes the 2019-20 Pre- and Post-clearing forms.

Reaches 20 and 21 are nearly contiguous and contain almost identical conditions. Both are situated on a large estate at the base of the San Gabriel Mountains. Oak woodland and chaparral are the dominant natural vegetation types on the adjacent slopes. Mature coast live oak (Quercus agrifolia) trees follow the course of both SBC reaches. Chaparral species such as California bay (Umbellularia californica), toyon (Heteromeles arbutifolia), laurel sumac, 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 broom (Cystisus scoparius) are present in this watershed.

The post-clearing survey was performed on March 9, 2020. The qualified biologist reported that the maintenance plan for both these SBC reaches was fully implemented. The maintenance plan prior to the implementation of the MMPP allowed for hand equipment clearing of the reach, but ornamental vegetation planted by the resident on the banks adjacent to existing structures (i.e., main and secondary residences) was avoided during the 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 the broom, will be removed from these banks during these clearing activities. In time this would create higher quality understory vegetation to the oak woodlands that overshadow these two SBC reaches.

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. Several 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 2019-20 MMPP is as follows:

5.1 Maintenance Observation

During the 2019 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 over the next few years 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 01/27/2020



After Photos 01/27/2020



PRE- AND POST-CLEARING PHOTOS SBC Reach 21- Webber Channel Main Inlet



Before Photos 01/27/2020



After Photos 01/27/2020





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: 20
Special Permit Conditions (list):
dapart phallnot exceed 0,13 acre (115 FT linear by SOFTWIRE).
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 12, 13; Aprillo Museul Vegetation An area matitained; Center Bean grount upition of billyo:
Name of Biological Monitor: Are Moule Date: august 22, 2018
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): (anton Bean present at upper end of reach above bullye,
Name of Biological Monitor: Kare Month Date: December 14, 2018

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

Reach Number: 21
Special Permit Conditions (list): Hand Carring ouly, Inports shall not exceed 0.03 acre,
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 10, 11', Pethenily unwegetated in area maintained; cluvatrue Mot a problem.
Name of Biological Monitor: <u>Kare Month</u> Date: <u>August 22, 2018</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>Sture Month</u> Date: <u>December 14</u> , 2018

Revised 2016

2019-20 MAINTENANCE METHODOLOGY PILOT PROJECT

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

March 2021

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- 3.2 General Observation and Comments
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2019-2020 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 is currently on its fifth and final year. In this report, LACFCD will discuss the 2019-2020 maintenance of SBC Reaches 24 and 25 and the pilot study findings.

2.0 VEGETATION MAINTENANCE

2.1 Vegetation Maintenance – MMPP

In the 2019-2020 maintenance season, LACFCD continued to use the same alternative maintenance methodology for SBC Reaches 24 and 25. The method included mowing the vegetation along the invert of the channels to approximately 6 to 12 inches above grade using a skidsteer or a long-reach excavator with an attached mower. As done in the previous years of the MMPP, vegetation clippings were left in place. The vegetation along the water line were mowed using a long-reach excavator with attached flail mower that gently mowed the overgrown vegetation back and away from the waterline to prevent increased turbidity in the water. An excavator with flail mower was also used to mow

vegetation on the side slope. All invasive species such as castor beans were removed by hand, while Arundos were removed using a long-reach excavator with a grapple attachment. The excavator was used to carefully grapple and pulled the Arundo root system out of the ground and then placed them into on tarps for proper containment and disposal using a front loader and a 10-cubic yard dump truck. See Attachment B for photos taken during the 2019-2020 MMPP.

To reduce environmental impact during the MMPP study, smaller and lighter rubber-tire/-track equipment were used. Equipment such as a rubber-track excavator and skidsteer with mower attachment, rubber-track/equivalent excavator with bucket and grapple attachment, rubber-tired 10-cubic-yard dump trucks, and a 2,000-gallon water truck were used (see Attachment A). No steel track equipment was used during the 2019-2020 maintenance of these reaches.

During the 2019-2020 maintenance of Reaches 24 and 25, a qualified biologist was available for consultation prior to mowing the vegetation to ensure proper removal of invasive/non-native vegetation. Water Quality (WQ) was monitored and BMPs were implemented to ensure that the maintenance activities did not impact the water quality in the channel. Invasive vegetation and sediment were placed in dump trucks and properly transported to an approved disposal/landfill facility.

The MMPP for SBC Reach 24 started on September 16,2019 and was completed on December 18, 2019, while the pilot project for SBC Reach 25 was performed from October 24, 2019 to November 14, 2019.

3.0 WATER QUALITY MONITORING – MMPP

LACFCD monitored the WQ for SBC Reaches 24 and 25 in accordance with the Pilot Study Work Plan approved by the Regional Board and as required in the flood control facility's permits. The results of the monitoring events are shown in Attachment C including, but not limited to, WQ sampling parameters, sampling locations, sample results, observations, and comments.

3.1 Water Quality Monitoring Methodology

During the 2018 MMPP, three WQ sampling stations were established for each reach (see Figure 1 and 2): one upstream, within (internal) the work area, and downstream of the reach. WQ testing was performed for pH, temperature, dissolved oxygen, turbidity, and total suspended solids (TSS) where flowing water is present in/adjacent to the work area. The parameters mentioned above were measured at least once within 7 days prior to the maintenance activities without BMPs being installed to establish preclearing baseline conditions. WQ was monitored on a daily basis during the first week of the maintenance activities, then once a week thereafter until the MMPP was completed. BMPs were placed

downstream of the maintenance reach during clearing activities. A post clearing WQ test was also conducted after the completion of the maintenance of the reach (without any BMPs being installed) downstream of the maintenance area for post clearing baseline condition.



Figure 1: Sampling Location for SBC Reach 24



Figure 2: Sampling Location for SBC Reach 25

Onsite LACFCD staff, including the project manager, were notified each time a sampling event indicated an exceedance of downstream WQ standard limits (see Table 1). LACFCD staff immediately stop all maintenance activities once informed of the exceedance. During the 2018 maintenance of SBC Reaches 24 and 25, there were no evidence of exceedances observed that were caused by the maintenance activities. Additional steps were taken including, but not limited to, cleaning the downstream site BMPs or installation of additional BMPs, to ensure WQ is not impacted by the maintenance activities.

Parameter	Sampling Technique	Analysis Technique ^{'1}	Analysis Location	Method Detection Limit	Duplicate precision (RPD)	Exceedance Criteria ^{'2}
DO	Multi-meter	Field Measurement	Monitoring Points	0.01 mg/L	± 0.5 mg/L	< 5 mg/L (Warm) < 6 mg/L (Cold) > 7 mg/L
T	Multi-meter	Field Measurement	Monitoring Points	-10 °C	± 0.01 °C	Shall not be altered by more than 5 F above the natural temperature (Warm) ³
pH ^{4,5}	Multi-meter	Field Measurement	Monitoring Points	0.01 pH	± 0.1 pH	< 6.5 > 8.5
Tr	Turbidimeter	Field Measurement	Monitoring Points	0.05 NTU	± 3%	20% (≤ 50 NTU) 10% (< 50 NTU)
TSS	Grab Sample	Method 2540D	Contract Laboratory	2.0 mg/L	± 10%	10%

Table 1: Water Quality Objectives

Notes and abbreviations:

- 1 "Method" refers to Standard Methods for the Examination of Water and Wastewater (19th ed., APHA et al. 1995)
- 2 An increase in a measured TSS or turbidity reading at the downstream location, above the ambient or natural reading.
- DO Dissolved oxygen
- DQO Data quality objectives
- RPD Relative percent difference
- T Temperature
- TSS Total suspended solids
- Tr Turbidity
- 3 At no time shall these Warm-designated waters be raised above 80 F as a result of water discharges
- 4 For inland surface waters ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge
- 5 For bays or estuaries shall not be changed more than 0.2 units from natural conditions as a result of waste discharge

The LACFCD's WQ Monitoring Methodology is discussed in detail in the WQ Monitoring Guide for Maintenance and Repair Projects Involving Water Diversion, dated October 2015.

3.2 General Observations and Comments

In evaluating the results of the 2018 WQ monitoring events for Reaches 24 and 25, LACFCD made the following observations:

BMPs used during the 2018 maintenance activities included fiber rolls, sandbags, etc., which were placed perpendicular to and across the channel downstream from active maintenance activities. Steps were also taken to minimize contact with water flowing within the reach and to reduce unnecessary sediment disturbance. BMPs are generally effective in addressing the impacts of the maintenance activities in the earth-bottom channel reach, and there is no evidence that the maintenance activities caused any of the observed exceedances. Despite this lack of evidence, upon noticing elevated turbidity, LACFCD field personnel stopped maintenance operation and acted to modify BMPs in response to the identified exceedances.

3.2.1 SBC Reach 24 (Compton Creek)

It has been noted in the past and during the 2018 maintenance of the Reach 24, with no maintenance activities, that the water in this reach tends to be murky with floatables present on the surface of the water. This is the natural condition of this reach as it is a main outflow for rain and debris from upstream of the channel.

LACFCD also observed that one or a combination of the following sources contributed to the increase in some of the WQ effluent limit sampling results: (1) presence of stagnant nutrient-rich water ponding in the reach due to the lack of constant flow (only two successful WQ sampling were taken during the maintenance of this reach), so when it rains or water flow into this reach there is an increase in the turbidity detected in the WQ samples; (2) additional inflow of water between upstream and midpoint locations; (3) bird feeding activities in close proximity to the sampling points; and (4) natural variance of the reach. BMPs downstream were implemented and adjusted as-needed (such as straw waddles/rolls_sandbags_etc.). During the maintenance of the

straw waddles/rolls, sandbags, etc.). During the maintenance of the reach, careful vegetation removal practices were implemented so that no vegetation or debris fell into the water. No further action was taken for any exceedances not related to the maintenance activities.

3.2.2 SBC Reach 25 (Lower Los Angeles River)

Reach 25 is heavily influenced by tidal flow due to its close proximity to the Pacific Ocean, which normally causes the water at the downstream end of the reach to be murky. It was also observed that in the past and

during the 2018 maintenance period, the sampling results for Tr and TSS had the tendency to be high at the upstream end with no maintenance being performed. Since this reach is very wide (115 feet), BMPs were not implemented and WQ monitoring had to be performed on either the eastern or western side, since it was impossible to obtain water samples from the center of this reach. During this 2018 WQ sampling for Reach 25, it was noted that significant amounts of floating and suspended debris was present in the water upstream sampling point which affected both the turbidity and TSS values of the water samples.

LACFCD also observed that effluent limit exceedances were a result of one or a combination of the following factors: (1) bird feeding activities near the sampling points; and (2) natural variable conditions in the reach. LACFCD staff took great care when removing vegetation from this reach so that no vegetation or debris fell into the water of the reach. No further action was taken for any exceedances not related to the maintenance activities during this maintenance period.

4.0 BIOLOGICAL RESOURCES

Pre-clearing biological site visits were conducted by a qualified biologist at SBC Reaches 24 and 25 on August 17, 2019. Standard data were recorded and photos were taken from previously established photo stations. Attachment E includes the Preand Post-clearing Forms from the 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, and 2019-2020 SBC maintenance seasons. Photos associated with these visits are included in Attachment F.

The August 2019 pre-clearing survey of Reach 24 indicated that the vegetation on the invert consisted of riparian herb species and common non-native annual (weedy) herbaceous species. Riparian herb species were almost entirely confined to the low-flow channel and were dominated by cattails (Typha spp.). Non-native annual (weedy) herbaceous species were abundant on either side of the low-flow channel outward to the levee toe. Spanish sunflower (Pulicaria paludosa) was one of the most widespread non-native annuals in the channel. Invasive plant species present in the channel included arundo (Arundo donax) and castor bean (Ricinus communis). Arundo was limited to the upper end of the reach where small amounts have persisted since the start of this Pilot Project. The amount of castor bean in the reach continues to decline, but it is still present at scattered locations throughout the reach.

Reach 25 vegetation is more complex than at Reach 24 due, in large part, to the greater width of the channel, but also the extensive open water of Reach 25 that is tidally influenced. Mature willows (Salix sp.) are present in Reach 25 but absent in Reach 24. These willows are scattered on the left (east) bank of the Reach 25 channel, and are not present on the right (west) bank. Riparian herb vegetation is confined to the water's edge and is more complex than in Reach 24. In Reach 25, riparian herb species are not dominated by one species, but consist of multiple species including cattails, southern bulrush (Scirpus californicus), and sedges (Cyperus spp.). The onsite vegetation descriptions for each reach were consistent with previous years as well. As described in the applicable regulatory permits, no biological

monitoring was required during the maintenance activities at either of these reaches because they are not sensitive (i.e., no special status species to monitor). Post-clearing biological site visits were conducted on November 23, 2019, for Reach 24 and January 7, 2020, for Reach 25. The biologist reported that all vegetation was mowed this year in Reach 24 as it was last year. In previous years, access to some areas of riparian herb vegetation (i.e., cattails) was limited due to wet conditions. The arundo at the upper end of Reach 24 was removed by hand as required. In Reach 25, all vegetation was mowed this year except for the mature willows and some small patches of riparian herb vegetation at the water's edge of the west bank. This was consistent with previous maintenance activities conducted since initiation of the Pilot Study for these two SBC reaches in 2015-2016. It appears that mowing allows the roots of most species to remain intact after completion of clearing maintenance activities. To evaluate the effects of clearing maintenance, post-clearing visits are conducted as soon as possible after these activities are finished. Relatively little new growth was evident during the post-clearing surveys; however, based on monitoring results of previous years, the vegetation regrowth will occur within subsequent months and throughout the 2020 growing season. In the wettest areas of these two SBC reaches, low growing and bright green vegetation can be seen in the 2019 and 2020 post-clearing photos provided in Attachment F. In wet years such as 2018-2019, vegetation regrowth is robust; however, it is expected that over time that mowing will provide a competitive edge to native perennial species over non-native (weedy) annual species following wet or dry years.

The overall species composition and ecological effects of the modified maintenance over the past five years is difficult to discern. Both reaches are affected by a multitude of factors such as seasonal rain fall amount, seasonal flooding (e.g. depth, duration, and timing), daytime ambient temperatures during critical periods associated with growth, flowering and seed maturation of plant species, various wildlife species breeding periods, and many more. The changes in maintenance practices have not been isolated to allow direct comparison between years. As a result, the observations made during short periods of time each year are an indication of the modified methods combined with many other factors. When accounting for the variety of environmental factors, the time required to see changes based on averages across time can be much longer than 5 years.

An additional factor to consider when reviewing annual site visit information is the dominance of particular habitat types. In Reach 25, the most dominant habitat feature, open water, has remained quite consistent throughout the Pilot Study period. Substantial changes in acreage of open water has not changed considerably since approximately 2005. Tidally influenced habitat with shallow brackish water and mud flat patches with constant flushing of the water (non-stagnant) is rare in Southern California. Although occurring within a built flood control structure, this habitat is the dominant influence on the wildlife species composition, particularly avian species, within Reach 25. This habitat is largely untouched by the maintenance practices both before and during the Pilot Study period. Consequently, the species composition of the Reach is largely unchanged based on annual visit observations. It is likely that subtle transitions of more upland species may have occurred during the Pilot Study period, however based on the dominance of water associated species and the time required

to detect such changes in a multivariable scenario, it may take considerably longer than 5 years for quantifiable changes in species composition averages. Reach 24 is less effected by open water habitat dominance but instead a dominance of freshwater (cattail) marsh habitat which is only temporarily reduced before quickly re-growing. The modified methods are likely to allow the re-growth to occur more quickly and consistently throughout the Reach. Similar to open water, freshwater marsh is a wetland habitat that dominates the local species composition of the Reach. This habitat has been consistent in extent throughout the Pilot Study period. In addition to freshwater marsh habitat, Reach 24 is also affected by a multitude of environmental factors influencing conditions and species composition in any given year. Similar to Reach 25, it is expected that some more subtle transitions of upland species may have occurred at Reach 24 during the Pilot Study period. However, based on the dominance of freshwater marsh associated species, and the length of time required to detect such changes in a multivariable scenario, a considerably longer period may be required to allow for quantifiable average changes.

Regardless of the many factors effecting the Pilot Study within Reaches 24 and 25, the projected eventual shift of some species dependent on large bare ground habitat to species adapted to low annual growth is expected to have occurred and continue to occur over time.

4.1 MMPP's Biological Assessment

With an expected increase in native dominated vegetation, wildlife species utilizing the SBC reaches are also expected to change. Species that prefer patches of bare ground with weedy/annual grass vegetation will likely diminish in numbers within these reaches while species preferring denser, shrubbier vegetation may begin to use these channels or increase in numbers if currently present. Although some native species may diminish in numbers, in general, native species' diversity and quantity is expected to increase to some degree. The shifting of the plant and wildlife composition of these two SBC 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.

Of particular interest in tidally influenced reach is the occurrence of species that are adapted to utilizing mudflat or mudflat-like habitats that are typically extensive following the traditional maintenance method for these SBC reaches. The soil disturbance associated with the scraping action to remove vegetation in the traditional maintenance method appears to mimic natural scouring that occurs during flooding events. This clearing method leaves behind habitat conditions that are more similar to post-flood conditions than the alternative clearing method. The ephemeral habitat conditions that follow flooding events or, in this case, traditional clearing activities, can be very productive for many species adapted to utilize resources that may be abundant at these times. 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 of this post clearing habitat in SBC Reach 24 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 tallied to 26 killdeers, 1 greater yellowlegs, and 22 Wilson's snipe. None of these shorebird species were present during the preclearing 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 diminish over time.

Implementation of the modified maintenance methods is expected to increase use of these two SBC reaches by other bird species, including land birds that require 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 white-crowned 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).

Subsequent annual visits to pilot study areas will document resources and will continue to determine if such shifts are occurring and to what extent. Pilot studies will continue to include an evaluation of the special status species involved, if any, and the potential short- and long-term effects these alternative clearing methods may have on local and regional populations.

5.0 <u>COMPARISON</u>

LACFCD's initial findings regarding the 2018 MMPP is as follows:

5.1 Methodology Comparison

During the 2019 and 2020 maintenance of 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 no detectable change in the maintenance time during the 2018 MMPP.
- 2) No detectable change in the overall maintenance cost for both reaches due to Stormwater Maintenance Division performing work along with the contractor, similar to the previous year. For Reach 24, there was an increase in nonrental equipment, labor, and water usage. While for Reach 25, there was an increase in rental equipment, and water usage.

- 3) Due to drought conditions in 2019, the reaches exhibited lower water presence, which exposed more area to maintain.
- 4) Increase in water usage fees due to unscheduled pauses in work during storm, leading to extended use of the water meter.
- 5) Removal of invasive species by hand and excavator with grapple attachment worked well and helped ensure proper handling and disposal.
- 6) The use of excavator with flail mower near the waterline minimized/prevented high turbidity readings to preserve WQ.
- 7) Mowing process left more vegetation in place and promoted faster regrowth and more robust habitat

5.2 Water Quality

Due to the naturally variable conditions in SBC Reaches 24 and 25, there were no discernible WQ changes that resulted from switching the maintenance methodology. Most of the exceedances that were observed during the 2018 maintenance was 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.

6.0 NEXT STEP

LACFCD will continue to implement the MMPP for Reaches 24 and 25 and observe its impact. As indicated previously, this will require approval from the USACE and other regulatory agencies.

ATTACHMENT A

EQUIPMENT UTILIZED FOR MAINTENANCE METHODOLOGY PILOT PROJECT (MMPP)

EQUIPMENT USED IN MMPP



PHOTO 1: RUBBER TRCK EXCAVATOR WITH FLAIL MOWER

PHOTO 2: SKIDSTEER WITH MOWER



EQUIPMENT USED IN MMPP

PHOTO 3: EXCAVATOR WITH BUCKET & GRAPPLE



PHOTO 4: WATER TRUCK



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ATTACHMENT B DURING MMPP CLEARING PHOTOS SBC REACHES 24 AND 25

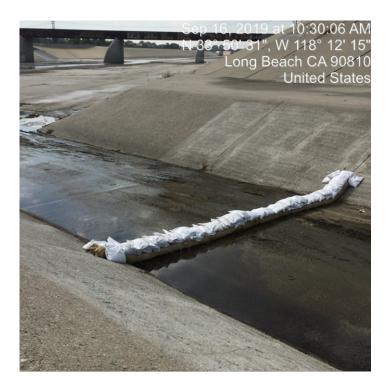
DURING MMPP CLEARING PHOTOS SBC REACH 24 - COMPTON CREEK



Oct 5, 2019 at 9:28:54 AM N 33° 51' 19", W 118° 12' 48" 19130–19140 S Santa Fe Ave Compton CA 90221 United States



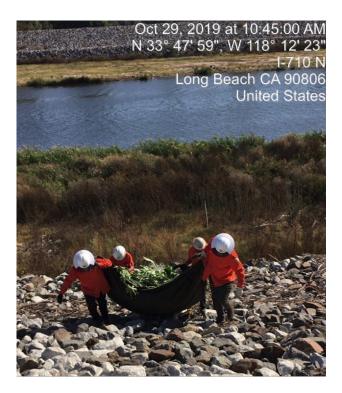
DURING MMPP CLEARING PHOTOS SBC REACH 24 - COMPTON CREEK





DURING MMPP CLEARING PHOTOS SBC REACH 25 – LOWER LOS ANGELES RIVER





ATTACHMENT C PRE- AND POST-CLEARING PHOTOS SBC REACHES 24 & 25

2019-2020 Soft Bottom Channels

Reach 24

Compton Creek

Before Photos 8/17/19

After Photos 11/23/19













2019-2020 Soft Bottom Channels

Reach 25a

Los Angeles River — Willow to PCH (East/Left Bank)

Before Photos 8/17/19

After Photos 1/7/20













ATTACHMENT D PRE- AND POST-CLEARING FORMS

PRE- AND POST-CLEARING FORMS

SBC Reach 24 – Compton Creek

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 24
Special Permit Conditions (list): No-special permit condition pertain to this reach, but the general terms and conditions of the pennits apply.
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.) Photos 7, 8, 9, 10, 11 ; Roman herb and moderal Vegetation in area mentatived; Castor Bean freeent,
Name of Biological Monitor: Steve Monie Date: augur (17, 2019
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>Places 1, 2, 3, 4, 5'</u> Some need beds in middle of low-flow diamed, but otherwise all Vegetation 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: Stare Moule Date: November 23,2019

Revised 2016

PRE- AND POST-CLEARING FORMS

SBC Reach 24 – Compton Creek

County of Los Angeles Department of Public Works Flood Maintenance Division Earth Bottom Channel Program

Biological Resources Monitoring Form

Displant resources recently a stat
Reach Number: 25
Special Permit Conditions (list):
Operator - Allall sist infort - Tal 9.37 acres of Vigetation allowed To remain in 1997, (NOTE; The ACOE removed needle of tale Vegetation in 2000.),
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.) Photon 12, 13, 14, 15, 16 (EAST BANK) & 17, 18, 19, 20, 21 (WEST BANK); Primarily Marsol growth in and maintained; Under End Cartor Bean greant.
Name of Biological Monitor: Moule Date: august 17,2019
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- (,2,3,4,5 (East BANK) & G.7,8,9,10 (WEST BANK); large Willows on east back, ot and all vegetation removed. a few mall patches of aundo on east 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):
Name of Biological Monitor: <u>Stene Morrin</u> Date: January 7, 202
Revised 2016