



MARK PESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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

January 31, 2023

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:

**2021-22 ANNUAL MAINTENANCE AND MONITORING REPORT
SOFT-BOTTOM CHANNEL MAINTENANCE PROGRAM
SECTION 401 WATER QUALITY CERTIFICATION ORDER NOS. 99-011 (2018 WDR)
AND 15-038**

The Los Angeles County Flood Control District (LACFCD) is pleased to submit the enclosed 2021-22 Annual Maintenance and Monitoring Report for the Soft-Bottom Channel (SBC) Maintenance Program, per the requirements of the Section 401 Water Quality Certification Order No. 99-011 and 15-038.

The following are enclosed for your review and approval:

- The Annual Maintenance Report documentation (PDF files) can be accessed in this FTP server: [/pub/fmd/2021-22_SBC_Annual_Maintenance_and_Monitoring_Report/RWQCB_Submittal](ftp://pub/fmd/2021-22_SBC_Annual_Maintenance_and_Monitoring_Report/RWQCB_Submittal)
- 1. Attachment No. 1 – Final 2021-22 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 – 2021-22 SBC Pre- and Post-Maintenance Photos
- 6. Attachment No. 6 – Water Quality Monitoring Summary Reports
- 7. 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 – 2021 Maintenance Methodology Pilot Projects

Ms. Celine Gallon
January 31, 2023
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SUMMARY OF 2021-22 MAINTENANCE ACTIVITIES

LACFCD was responsible for maintenance of 101 SBC reaches during the 2021-22 SBC maintenance year. Of these 101 SBC reaches, LACFCD maintained a total of 88 reaches during the 2021-22 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 7, 19, 20, and 21. Detailed reports containing the results are enclosed.

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

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

Executed on January 31, 2023 in Alhambra, California.

Ms. Celine Gallon
January 31, 2023
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If you have any questions regarding this report, please contact Mr. Ahmet Tatilioglu of my staff at (626) 458-7810 or atatilioglu@pw.lacounty.gov.

Very truly yours,

MARK PESTRELLA, PE
Director of Public Works

A handwritten signature in blue ink that reads "Jolene Guerrero".

JOLENE GUERRERO, PE
Assistant Deputy Director
Stormwater Maintenance Division

JR:sl

P:\pw01\pwpublic\fdpub\General\Jessica Rojas\pw01\pwpublic\fdpub\General\Jessica Rojas\2021-2022 SBC Annual Maintenance and Monitor Reporting\3.RWQCB Submittal\2021-22 Annual Report Cover Letter RWQCB.docx

Enc.

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

ATTACHMENT NO. 1
FINAL 2021-22 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?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
1	Bell Creek - MTD 963 M.C.I.	West	Non-sensitive	11/23/2021	12/1/2021	
2	Dry Canyon (Calabasas) PD T1845	West	Non-sensitive	9/7/2021	10/4/2021	
3	Santa Susana Ck M.C.I.	West	Non-sensitive	10/19/2021	10/19/2021	
4	Brown Creek	West	Non-sensitive	10/28/2021	11/4/2021	
5	Caballero Creek M.C.I. (West Fork)	West	Non-sensitive	12/2/2021	12/9/2021	
6	Caballero Creek M.C.I. (East Fork)	West	Non-sensitive	12/10/2021	12/11/2021	
7	Bull Creek M.C.	West	Sensitive	11/8/2021	11/19/2021	MMPP Reach
8	Hayvenhurst Drain - Project 470 Outlet	West	Non-sensitive	1/11/2022	1/24/2022	
9	Project 106 Outlet	West	Non-sensitive	10/19/2021	10/21/2021	MMPP Reach
10	Project No. 469	West	Non-sensitive	1/10/2022	3/16/2022	
12	Haines Canyon M.C.O.	West	Sensitive	2/8/2022	2/8/2022	
13	Project No. 5215 Unit 1	West	Non-sensitive	10/14/2021	10/15/2021	
14	May Channel M.C.O. (into Pacoima Canyon)	West	Sensitive	10/6/2021	10/7/2021	
15	Pacoima Wash	West	Non-sensitive	9/20/2021	10/9/2021	
16	Verdugo Wash - Las Barras Canyon	West	Non-sensitive	1/21/2022	1/21/2022	
18	Engleheard Channel	West	Non-sensitive	1/21/2022	1/21/2022	
19	Pickens Canyon	West	Non-sensitive	1/25/2022	1/26/2022	
20	Webber Channel (@ private bridge)	West	Non-sensitive	1/26/2022	1/26/2022	MMPP Reach
21	Webber Channel (@ downstream of bridge)	West	Non-sensitive	1/26/2022	1/26/2022	MMPP Reach
22	Halls Canyon	West	Non-sensitive	1/21/2022	1/25/2022	
24	Compton Creek	South	Non-sensitive	9/15/2021	10/30/2021	MMPP Reach
25a	Los Angeles River - Willow to PCH (East/Left Bank)	South	Non-sensitive	11/4/2021	12/1/2021	MMPP Reach
25b	Los Angeles River - Willow to PCH (West/Right Bank)	South	Non-sensitive	11/4/2021	12/1/2021	MMPP Reach
26	Project 74	South	Non-sensitive	9/17/2021	9/28/2021	
27	Wilmington Drain	South	Sensitive	9/16/2021	10/23/2021	
28	Triunfo Creek (PD T2200)	West	Sensitive	1/26/2022	1/28/2022	
29	Las Virgines Creek (PD T1684) M.C.I.	West	Non-sensitive	12/16/2021	12/22/2021	
32	Stokes Channel (PDT043)	West	Non-sensitive	10/21/2021	11/16/2021	
33	Medea Creek (PD T1378)	West	Non-sensitive	2/8/2022	2/25/2022	
35	Medea Creek - Main	West	Non-sensitive	No Maintenance Done - Under Construction		
36	Cheseboro Inlet (PDT043)	West	Non-sensitive	11/20/2021	11/20/2021	
37	Medea - Cheseboro Outlet	West	Non-sensitive	11/18/2021	11/22/2021	
38	Lindero M.C.O.	West	Non-sensitive	1/20/2022	1/26/2022	
39	Beatty Channel Outlet @ SGR	East	Sensitive	1/19/2022	1/31/2022	
40a	(a) San Gabriel River – Santa Fe Dam to I-10 Freeway	East	Non-sensitive	12/27/2021	3/18/2022	
40b	(b) San Gabriel River – I-10 Freeway to Thienes Avenue	East	Sensitive	12/13/2021	2/28/2022	
41	Walnut Creek	East	Non-sensitive	9/20/2021	10/18/2021	
42	San Jose Creek d/s 1000' from end of concrete channel	East	Non-sensitive	1/1/2022	1/31/2022	
43a	(a) San Gabriel River- Upper	South	Sensitive	9/16/2021	10/19/2021	
43b	(b) San Gabriel River- Lower	South	Sensitive	9/16/2021	10/19/2021	

FINAL 2019-2020 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
44	San Gabriel River - Rubber Dams	South	Non-sensitive	9/20/2021	11/18/2021	
45	Sand Canyon (PD T1307) Main Channel Inlet	West	Non-sensitive	No Maintenance Done - Under Construction		
46	Sand Canyon (PD T1307) Main Channel Outlet	West	Non-sensitive	No Maintenance Done - Under Construction		
47	Santa Clara River Main Channel (PD T1733-Unit 1)	West	Sensitive	9/28/2021	9/28/2021	
48	Mint Canyon Channel between Sierra Highway & Adon Avenue	West	Non-sensitive	11/3/2021	11/3/2021	
49	Mint Canyon Channel between Adon Avenue & Scherzinger Lane	West	Non-sensitive	11/3/2021	11/3/2021	
50	Mint Canyon Channel between Solamint & Soledad	West	Non-sensitive	No maintenance done - Due to City of Santa Clarita construction in the Reach		
51	Mint Canyon M.C.O. (PD 1894)/Santa Clara River – Main Channel	West	Sensitive	9/29/2021	9/29/2021	
52	Sierra Hwy Rd Drainage (CDR 523.203)	West	Non-sensitive	No maintenance done - Due to City of Santa Clarita construction in the Reach		
53	Santa Clara River Non-main Chnl. (PD 832) M.C.I.	West	Non-sensitive	9/29/2021	9/29/2021	
54	Santa Clara River Non-Main Channel (PD 832) Main Channel Outlet	West	Sensitive	9/27/2021	9/28/2021	
55	Santa Clara River Main Channel – Right Bank Reach (PD's 910, 832, 1758, & 1562 Unit 2)	West	Sensitive	9/24/2021	9/24/2021	
56	Santa Clara River Main Channel – Left Bank Reach (PD 832)	West	Sensitive	9/21/2021	9/21/2021	
57	Whites Canyon (PD T704 M.C.I.)	West	Non-sensitive	10/14/2021	10/14/2021	
58	Santa Clara River Main Channel – Right Bank Reach (PD 374)	West	Sensitive	9/28/2021	9/28/2021	
60	Santa Clara River Main Channel – Right Bank Reach (PD's 1339 and 374)	West	Sensitive	9/27/2021	9/28/2021	
61	Santa Clara River Main Channel (PD 659 & 754)	West	Sensitive	9/27/2021	9/29/2021	
63	Oak Ave Rd Drainage (CDR 523.081)	West	Sensitive	10/6/2021	10/8/2021	
64	Soledad Canyon Road Drain (CDR 523.071 D outlet)	West	Sensitive	10/7/2021	10/8/2021	
66	Santa Clara River Main Channel (PD 1538)	West	Sensitive	10/5/2021	10/5/2021	
67	Bouquet Canyon Upper (PD's 1201, 802, 700B, & 625)	West	Sensitive	9/7/2021	9/13/2021	
69	Bouquet Canyon Middle (PD's 722, 773, 1365, 1065, & 451)	West	Sensitive	9/7/2021	9/14/2021	
70	Bouquet Canyon Lower (PD's 544 & 345)	West	Sensitive	9/13/2021	9/14/2021	
71	Santa Clara River Main Channel (PD 1946)	West	Sensitive	10/13/2021	10/13/2021	
72	South Fork- SCR (Smizer Ranch M.C.I.)	West	Non-sensitive	9/28/2021	9/29/2021	
73	Wildwood Cyn Chnl (PD T361) M.C.I.	West	Non-sensitive	10/5/2021	10/5/2021	
75	South Fork-Santa Clara River (PD's 725, 916, 1041, & 1300)	West	Sensitive	9/16/2021	9/27/2021	
76	Pico Canyon (PD 813)	West	Sensitive	9/17/2021	9/24/2021	
77	Newhall Creek Outlet	West	Sensitive	9/15/2021	9/15/2021	
78	Placerita Creek	Wes	Sensitive	9/15/2021	9/15/2021	
79	South Fork- Santa Clara River (Valencia Boulevard Bridge Stabilizer)	West	Sensitive	9/30/2021	9/30/2021	
80	South Fork-Santa Clara River (PD's 1947 & 1946)	West	Sensitive	9/30/2021	9/30/2021	
82	Santa Clara River Main Channel (PD 2278)	West	Sensitive	10/13/2021	10/13/2021	
86	Violin Canyon Main Channel Outlet	West	Sensitive	9/27/2021	9/28/2021	
87	Castaic- Old Road Drainage (CDR 525.021D) Outlet	West	Sensitive	9/22/2021	9/22/2021	
88	Hasley Canyon Upper (PD T1496)	West	Non-sensitive	9/30/2021	9/30/2021	
89	Hasley Canyon South Fork (PD T1496)	West	Non-sensitive	9/30/2021	9/30/2021	
90	Hasley Canyon Lower (North Fork PD T1496)	West	Non-sensitive	9/30/2021	9/30/2021	
91	San Martinez Chiquito Canyon Channel u/s of Kenington Road	West	Non-sensitive	10/1/2021	10/1/2021	

FINAL 2019-2020 ANNUAL SOFT-BOTTOM CHANNEL MAINTENANCE SCHEDULE

Reach No.	Name of Channel Reach	Maintenance Yard	Sensitive Reach?	Maintenance Date		Comments/ Recommendations
				Start	Completion	
92	San Martinez Chiquito Canyon (North Fork) unnamed	West	Non-sensitive	10/1/2021	10/1/2021	
93	San Martinez Chiquito Canyon between Kenington Road and Val Verde Park	West	Non-sensitive	10/4/2021	10/4/2021	
94	San Martinez Chiquito Canyon between Val Verde Park to d/s of Madison Street	West	Non-sensitive	10/4/2021	10/4/2021	
95	Project No. 1224	West	Non-sensitive	11/3/2021	11/4/2021	
96	PD 1591, Calabasas	West	Non-sensitive	10/5/2021	10/22/2021	
97	PD T1982, Castaic Creek	West	Sensitive	11/3/2021	11/4/2021	
98	Walnut Creek – Channel Inlet	East	Non-sensitive	10/1/2021	11/1/2021	
99	Kagel Canyon – Tujunga Wash	West	Non-sensitive	9/17/2021	10/1/2021	
100	Dry Canyon, Calabasas Creek Inlet	West	Non-sensitive	1/10/2022	1/10/2022	
101	Violin Canyon (PD 2312)	West	Non-sensitive	No maintenance done		
102	Violin Canyon (PD 2275)	West	Non-sensitive	No maintenance done		
103	Bouquet Canyon Channel (PD 2225)	West	Sensitive	No maintenance done		
104	Castaic Creek (PD 2441 Unit 2)	West	Sensitive	No maintenance done		
105	San Francisquito Canyon Channel (PD 2456)	West		No maintenance done		
108	Pico Canyon (PD 2528)	West	Non-sensitive	11/16/2021	12/3/2021	
109	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	West	Sensitive	No maintenance done		
110	Hasley Canyon Channel (PD2262)	West	Sensitive	No maintenance done		
112 Upper	Ballona Creek	South	Non-sensitive	11/15/2021	11/23/2021	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)
112 Lower	Ballona Creek	South	Non-sensitive	No maintenance done		
114	Los Angeles River	South	Non-sensitive	No maintenance done		
115	San Gabriel River	South	Sensitive	10/4/2021	12/6/2021	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)
116	Los Cerritos Channel	South	Non-sensitive	No maintenance done		
117	Centinela Creek	South	Non-sensitive	No maintenance done		
118	Rustic Canyon	South	Non-sensitive	9/27/2021	10/23/2021	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)
119	Rivas Canyon	South	Non-sensitive	9/27/2021	10/23/2021	Hand clearing vegetation clearing only above Ordinary High Water Mark (OHWM)

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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: **Hydrology and Water Quality** Trash/Debris Removed (Tons) _____

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 250 Sq. Ft.

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:

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 12/1/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 12/2/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

WORK STARTED AFTER 8:00 SO AS NOT TO DISTURB
NEIGHBORS. ALL POWER EQUIPMENT IS EQUIPPED WITH
APPROVED MUFFLERS.

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

Comments/Revisions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 12/1/21

Approved by: Name: LUIS MONTES DE OA

Title: FCCS Date: 12/2/21

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

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

T.G.: 529-D5

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

REMOVAL OF ALL VEGETATION FROM SOFT BOTTOM WITH USE OF HAND TOOLS AND POWER TOOLS WITH APPROVED EXHAUST. POWER TOOLS CONSISTING OF WEED EATERS, HEDGE TRIMMERS AND POLE SAW. AIR QUALITY NOT AFFECTED.

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

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

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

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Project start date: 11/23/21

Project end date: 12/1/21

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 12/1/21

Approved by: Name: LUIS MONTES DE OCA Title: FFCCS Date: 12/2/21

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

45
 510514

Reach Name BELL CREEK - MTD 963 INLET

Reach Number 1

Date	Air	H2O	Noise	Comment	Initial
11/22/21	✓	✓	✓	PLACED STRAW BALE AT END OF REACH	RM
11/24/21	✓	✓	✓		RM
11/30/21	✓	✓	✓		RM
12/1/21	✓	✓	✓	COMPLETED, STRAW BALE REMOVED	RM

ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 equipment such as, hedge trimmers, weed eaters, pole saw etc are fitted with approved exhaust.

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

Comments/Revisions:

STRAW BATE PLACED AT END OF REACH. TEMPORARY STREAM CROSSING IN PLACE

Project start date: 9/7/21

Project end date: 10/4/21

Completed by: Name: Ryan Morillo Title: CREW LEADER Date: 9/7/21

Approved by: Name: LUIS MONTE DE OGA Title: FCCS Date: 9/7/21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 25.17 Tons

Mitigation Measure #: **2** Exotic Veg. Removed (Sq. Ft.) 2 sqft

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

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH. TEMPORARY STREAM CROSSING IN PLACE

Biologist on site: s No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 9/7/21

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 9/7/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

All POWER TOOLS ARE EQUIPPED WITH APPROVED MUFFLERS. WORK STARTED AFTER 8:00AM SO AS NOT DISTURB NEIGHBORS.

- 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 Nuñez

Title: CREW LEADER Date: 9/7/21

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 9/7/21

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2021-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

2021-2022

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:

VEGETATION WAS CUT USING WEED WHIPS & HEDGERS.
VEGETATION WAS LOADED ON TO A 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:

None

Project start date: 10-19-21 Project end date: 10-19-21 ^{mas} ~~10-26-21~~

Completed by: Name: Jorge Jaramillo Title: P.W.C.L. Date: 10-19-21

Approved by: Name: Michael P. Lopez Title: FCCS Date: 10-21-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2021-2022

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 1/2 TON.

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

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 WATER WAS PRESENT DURING WORK

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Jorge Jaramilla

Title: PW-CL Date: 10-19-21

Approved by: Name: Michael M. Olimpio

Title: FCCS Date: 10-21-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT MITIGATION MONITORING PROGRAM

2021-2022

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 DURING WORK.

- 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: Jorge Jaramillo

Title: P.W.C.L. Date: 10-19-21

Approved by: Name: Michael A. Rempis

Title: FCCS Date: 10-21-2021

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2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

2021-2022

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:

POWER TOOL AND HAND CLEARING OFF ALL VEGETATION.
DUST WAS MINIMAL.

- 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

Project start date: 10-28-2021

Project end date: 11-4-2021

Completed by: Name: Jorge Jaramillo Title: PWOL Date: 11-4-2021

Approved by: Name: M. Reyes Title: FCCS Date: 12-14-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

2021-2022

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

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:

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
- ESC21 Dust Control
- ESC31 Temporary Drains and Swales
- ESC51 Straw Bale Barriers
- ESC2 Preservation of Existing Vegetation
- ESC22 Temporary Stream Crossing
- ESC50 Silt Fence
- 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:

THERE WAS NO WATER PRESENT DURING WORK

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Jorge Saramillo Title: P.W.C.C. Date: 11-4-2021
Approved by: Name: M. Pypis Title: F.C.C.S Date: 12-14-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

2021-2022

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:

WORKED IN COMPLIANCE WITH 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:

NONE.

Completed by: Name: Jorge Jaramilla

Title: PWCL Date: 11-4-2021

Approved by: Name: M. Lopez

Title: FCCS Date: 12-14-21

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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. 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 vegetation was removed with Hand tools and power tools such as, weed eaters, hedgers and pole saw. All power tools are fitted with approved exhaust.

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

Comments/Revisions:

Straw bale placed at end of reach.

Project start date: 12/2/21

Project end date: 12/9/21

Completed by: Name: Ryan Morillo Title: Crew Leader Date: 12/2/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 12/14/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 8.32
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 2 sq. ft
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:

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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

Straw bale placed at end of reach.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo Title: Crew Leader Date: 12/2/21

Approved by: Name: LUIS MONTES DE OSA Title: FCCS Date: 12/14/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 vegetation was removed with hand tools and power tools such as, weed eaters, hedgers, and pole saw. All power tools 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:

Completed by: Name: Ryan Morillo Title: Crew Leader Date: 12/2/21
Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 12/10/21

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name Caballero Inlet

Reach Number 5

Date	Air	H2O	Noise	Comment	Initial
12/2/21	✓	✓	✓	STRAW bale placed at end of Reach.	R.M.
12/3/21	✓	✓	✓		RM
12/4/21	✓	✓	✓		RM
12/6/21	✓	✓	✓		RM
12/7/21	✓	✓	✓		RM
12/8/21	✓	✓	✓		RM
12/9/21	✓	✓	✓	Completed	RM

**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-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. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

All weed eaters, hedge trimmers and pole saws fitted with approved exhaust were used to remove all 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:

Project start date: 12/10/21 Project end date: 12/11/21

Completed by: Name: Ryan S. Murillo Title: Crew Leader Date: 12/10/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 12/14/21

**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.) 0

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-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. 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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

Placed straw bale at end of reach.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Morillo Title: Crew Leader Date: 12/10/21
Approved by: Name: LUIS MONTES DE O Title: FCCS Date: 12/16/21

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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-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. Exotics shall be removed during maintenance activities.

Description of Activity/Method of Implementation:

Work started after 8:00 AM so as not to disturb residents.
All vegetation removed with power tools 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:

Completed by: Name: Ryan Morillo Title: Crew leader Date: 12/10/21
Approved by: Name: LUIS MONTES DE OROS Title: FCCS Date: 12/10/21

2021-2022

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

2021-2022

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:

POWER TOOLS AND HAND CLEARING OF VEGETATION.
DUST WAS MINIMAL.

- 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:

N/A

Project start date: 11-10-2021

Project end date: 11-18-2021

Completed by: Name: Jorge Jaramilla Title: PWCL Date: 11-18-2021

Approved by: Name: Michael A. [Signature] Title: FCCS Date: 12-14-2021

2021-2022

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

2021-2022

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

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:

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

N/A

Biologist on site: No Yes

Date: 11/10/21 TO 11/18/21

Biologist Comments/Instructions:

Completed by: Name: Jorge Jaramillo Title: PWCL Date: 11-18-2021

Approved by: Name: M. Olympia Title: FCCS Date: 12-14-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

2021-2022

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:

WORKED IN COMPLIANCE WITH 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:

ALL VEGETATION WAS REMOVED & HAULED AWAY

Completed by: Name: Jorge Jaramilla

Title: PWCL Date: 11-18-21

Approved by: Name: M. P. Lopez

Title: FCCS Date: 12-14-21

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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:

REMOVED ALL VEGETATION WITH HAND AND POWER TOOLS.
ALL POWER TOOLS ARE FITED WITH APPROVED EXHAUST AND
DUST KEPT 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: 1/11/22

Project end date: 1/24/22

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 1/24/22

Approved by: Name: MONTES DEODS Title: FCCS Date: 1/24/22

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 26.10

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

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:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 1/24/22

Approved by: Name: _____

Title: _____ Date: _____

**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**

T.G.: 561-E3

Permit Requirements:

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

Description of Activity/Method of Implementation:

REMOVED ALL VEGETATION WITH HAND TOOLS AND POWER TOOLS. ALL POWER TOOLS 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:

Completed by: Name: RYAN MORILLO

Title: CREW LEADER Date: 1/24/22

Approved by: Name: MONTE DE OCA

Title: FCCS Date: 1/24/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name HAVENHURST DRAIN - Project 470
 Reach Number 8

Date	Air	H2O	Noise	Comment	Initial
1/11/22	✓	✓	✓	STRAW BALE PLACED AT END OF REACH	R.M.
1/12/22	✓	✓	✓		R.M.
1/13/22	✓	✓	✓		R.M.
1/14/22	✓	✓	✓		R.M.
1/18/22	✓	✓	✓		R.M.
1/19/22	✓	✓	✓		R.M.
1/20/22	✓	✓	✓		R.M.
1/21/22	✓	✓	✓		R.M.
1/24/22	✓	✓	✓	COMPLETED LM 513514	R.M.

2021-2022

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

2021-2022

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:

THERE WAS VERY LITTLE VEGETATION. MOST OF WHAT WAS
REMOVED WAS TRASH. ALL WAS REMOVED USING TARP BAGS AND
LOADED ON TO A 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:

NONE

Project start date: 10-19-21
10-20-21 S.M.A.S

Project end date: 10-21-21

Completed by: Name: Jorge Jaramillo Title: P.W.C.L. Date: 10-21-21

Approved by: Name: Michael A. Olimpio Title: FCCS Date: 10-21-21

2021-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

2021-2022

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 2 TONS

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) NONE

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

Permit Requirements:

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

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

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

- ESC1 Scheduling 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:

NONE

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Jorge Jaramillo Title: P.W.C.L. Date: 10-21-21

Approved by: Name: Michael M. Simpson Title: FCCS Date: 10-21-21

2021-2022

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

2021-2022

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

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

Impacts shall not exceed 0.12 acre.

Description of Activity/Method of Implementation:

NOISE WAS MINIMAL DURING WORK.

- 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 RE

Completed by: Name: Jorge Jaramillo

Title: R.W.C.L. Date: 10-21-21

Approved by: Name: Michael M. Olimpio

Title: FCCS Date: 10-21-21

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WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

WATER TRUCK WAS USED ON SITE TO MINIMIZE DUST.
A EXCAVATOR WAS USED TO MOW VEGETATION. ROCK SECTION WAS
REMOVED & CUT BY HAND AND SMALL POWER TOOLS SUCH
AS TWO SHREK HEDGES, WEED TRIMMERS AND ALSO A CHAINSAW.

- 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: 01-10-2022 *HAND CLEARING*
MOWING START- 03-08-2022

Project end date: 01-24-2022 *HAND CLEARING*
MOWING COMPLETED - 03-25-2022

Completed by: Name: J Jaramillo Title: PW. CL. Date: 03-25-2022

Approved by: Name: Michael A. Olympia Title: FCCS Date: 03-25-2022

WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

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



Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 15

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:

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

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

Comments/Revisions:

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: J. Jaramillo

Title: P.W.C.L. Date: 03-25-2022

Approved by: Name: M. Kempis

Title: FCCS Date: 03-25-2022

2020-2021
WOODLEY DRAIN PROJ-469 - F200 2067 - TASK - AF 22

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



Impact Issue: **Noise**

Mitigation Measure #: 3

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

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

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

Description of Activity/Method of Implementation:

USED MOWER ATTACHMENT. NOISE WAS MINIMAL

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

Comments/Revisions:

BEFORE, DURING AND AFTER PHOTOS WERE TAKEN
AND INPUTED INTO THE D.G. DRAW.

Completed by: Name: J. Jaramilla

Title: P.W. CL. Date: 03-25-2022

Approved by: Name: M. Lopez

Title: FCCS Date: 03-25-2022

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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. 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:

ALL VEGETATION WAS REMOVED BY HAND AND USING SMALL POWER TOOLS. NO LARGE AMOUNT OF DUST WAS CREATED.

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

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

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

Comments/Revisions:

NONE

Project start date: 2/8/2022

Project end date: 2/8/2022

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L. Date: 2/8/22

Approved by: Name: Santiago Vazquez Title: FCCS Date: 2/8/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 4.04 TN
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 26 SQ. FT.
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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

NONE

Biologist on site: Yes No Date: 2/8/2022

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L. Date: 2/8/22
Approved by: Name: Santiago Vazquez Title: FCCS Date: 2/8/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

WE USED SMALL POWER TOOLS TO REMOVE VEGETATION.
NO LOUD NOISE WAS CREATED THAT WOULD IMPACT
NEARBY RESIDENTS.

- 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:

NONE

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.L. Date: 2/8/22

Approved by: Name: Santiago Vazquez

Title: PCCS Date: 2/8/22

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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.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-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

2 cycle weed whips used to cut vegetation. Hand tools used to
pick up cut 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:

All cut vegetation was picked up and hauled away in bags

Project start date: 10/14/2021

Project end date: 10/15/2021

Completed by: Name: Gonzalo Delgado Title: FCCS Date: 10/15/21

Approved by: Name: Remy Miramon Title: CS Date: 11/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 1.14

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) n/h

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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 water at time of work

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Gonzalo Delgado Title: FCCS Date: 11/15/21
Approved by: Name: Benny Miranda Title: CS Date: 11/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.

Description of Activity/Method of Implementation:

Hand tools and weed whips used to cut and remove
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:

All cut vegetation hauled away

Completed by: Name: Gonzalo Delgado

Title: FCS Date: 10/15/2024

Approved by: Name: Benny Miranda

Title: CS Date: 11/15/24

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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.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:

Clearing vegetation from route of water flow. All vegetation removed
and hauled away

- 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:

Bushes and hanging trees were trimmed, debris around outlet
was swept and removed

Project start date: _____

Project end date: _____

Completed by: Name: Gonzalo Delgado Title: Fees Date: 10/01/21

Approved by: Name: Romy Miranda Title: CS Date: 11/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 3.79

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

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

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

We followed the recommendations of our County Biologist

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Gonzalo Delgado

Title: FCCS Date: 10/07/21

Approved by: Name: Randy Hansen

Title: CS Date: 10/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

Standard procedures of removing vegetation from this reach
were implemented

- 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 trash and debris was picked up and hauled away

Completed by: Name: Gonzalo Delgado

Title: FCCS Date: 10/07/21

Approved by: Name: Benny M... ..

Title: CS Date: 10/15/21

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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.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:

CLEAN AND CLEAR ALL VEGETATION WITH TWO LONG REACH EXCAVATORS. ALL
VEGETATION REMOVED WAS TAKEN TO SCHOOL CANYON PUMP. O MED SURVEY THE
AREA DAILY. ALL WORK WAS COMPLETED USING THE RIGHT OF WAY

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

Comments/Revisions:

ALL WORK STOPPED AT A REASONABLE HOUR SO IT WOULD NOT IMPACT THE
SURROUNDING RESIDENTS

Project start date: 09-20-2021

Project end date: _____

Completed by: Name: Gonzalo Delgado Title: FCCS Date: _____

Approved by: Name: Romy Merson Title: CS Date: 11/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 562.74

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) _____

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:

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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input checked="" type="checkbox"/> 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:

STRAW BALE BARRIERS WERE PLACED THROUGHOUT THE FULL REACH 15

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Gonzalo DELGADO Title: FCCS Date: _____

Approved by: Name: Benny Hernandez Title: CS Date: 11/17/12

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 REMOVED BY TWO LONG REACH EXCAVATORS ONLY
USING THE TOP OF THE RIGHT OF WAY.

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

Comments/Revisions:

ALL VEGETATION AND DEBRIS WAS LOADED TO A 10YARD DUMP TRUCK
AND TAKEN TO THE DUMP.

Completed by: Name: Gonzalo Delgadillo Title: FCCS Date: _____
Approved by: Name: Benny Wilson Title: CS Date: 4/11/21

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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. 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 WAS REMOVED WITH SMALL POWER
TOOLS, NO DUST WAS CREATED.

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

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

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

Comments/Revisions:

Project start date: 1/21/22

Project end date: 1/21/22

Completed by: Name: MONCADA Title: PW CL Date: 1/21/22

Approved by: Name: Philip Rose Title: FCCS Date: 1-24-22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 1/4 T

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 16 Verdugo Wash-Las Barras Cyn
(Channel Inlet)**

T.G.: 504-C7

Permit Requirements:

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

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

NO WATER FLOW.

Biologist on site: Yes No

Date: 1/21/22

Biologist Comments/Instructions:

Completed by: Name: MONCADA

Title: pwcl Date: 1/21/22

Approved by: Name: Philip Rose

Title: FCCS Date: 1-24-22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

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

Impacts shall not exceed 0.07 acre.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED USING SMALL
POWER TOOLS. NO LARGE AMOUNT OF NOISE
WAS CREATED.

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

Comments/Revisions:

Completed by: Name: MONGADA

Title: PWCL Date: 1/21/22

Approved by: Name: Philip Rose

Title: FCCS Date: 1-24-22



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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. 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:

WE USED SMALL POWER TOOLS TO REMOVE VEGETATION,
NO LOUD NOISE WAS CREATED THAT WOULD IMPACT
NEARBY RESIDENTS.

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

Comments/Revisions:

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.L. Date: 01/21/22

Approved by: Name: Philip Rose

Title: FCCS Date: 1-24-22



LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

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

Permit Requirements:

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

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED BY HAND AND USING SMALL POWER TOOLS. NO LARGE AMOUNT OF DUST WAS CREATED.

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

Comments/Revisions:

Project start date: 01/21/2022

Project end date: 01/21/2022

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L. Date: 01/21/22

Approved by: Name: Phillip Foss Title: FCCS Date: 1-24-22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 WATER FLOW

Biologist on site: Yes No

Date: 01/21/2022

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.L. Date: 01/21/22

Approved by: Name: Philip Rose

Title: FCCS Date: 1-24-22

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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.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:

MOWED BY HAND USING SMALL HAND TOOLS, WEED
EATERS, AND CHAINSAW. WE CUT AND REMOVED
INVASIVE PLANTS AND 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:

NONE

Project start date: 01/25/2022 Project end date: 01/26/2022

Completed by: Name: A. MARQUEZ Title: P.W.C.L. Date: 01/26/22

Approved by: Name: Santiago Vazquez Title: FCCS Date: 1/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0/1/1 = CASTOR
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 105/1/1 = TOBACCO
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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 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:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ Title: P.W.C.L. Date: 01/26/22

Approved by: Name: Santiago Vozar Title: FCCS Date: 1/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

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

Description of Activity/Method of Implementation:

THE REMOVAL OF VEGETATION IS PERFORMED BY CUTTING OUT VEGETATION, BOTH IN FRONT OF & BEHIND CRIB STRUCTURE, AS WELL AS ON THE ACTUAL STRUCTURE ITSELF. WE REMOVE VEGETATION 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/Revisions:

NONE

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.L. Date: 1/26/22

Approved by: Name: Santiago Vazquez

Title: FCCS Date: 1/26/22

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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. 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:

VEGETATION WAS REMOVED MANUALLY USING SMALL HAND
POWER TOOLS

NO IMPACT ON AIR QUALITY

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

Comments/Revisions:

Project start date: 1/26/22

Project end date: 1/26/22

Completed by: Name: M. PEREZ Title: PWEL Date: 1/26/22

Approved by: Name: Philip Rise Title: FCCS Date: 1-28-22

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. 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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 WATER FLOW _____

Biologist on site: Yes No

Date: 1/26/22

Biologist Comments/Instructions:

Completed by: Name: M. PEREZ

Title: PWCL Date: 1/26/22

Approved by: Name: Philip Rose

Title: FCLS Date: 1-28-22



LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

VEGETATION WAS REMOVED USING SMALL HAND
POWER TOOLS

NO LOUD NOISES WERE CREATED

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

Comments/Revisions:

Completed by: Name: M. Perez

Title: PWCH Date: 1/26/22

Approved by: Name: Philip Rose

Title: FLLS Date: 1-28-22

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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. 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:

VEGETATION WAS REMOVED MANUALLY USING SMALL
POWER TOOLS.

No Impact on AIR QUALITY

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

Comments/Revisions:

Project start date: 1/26/22

Project end date: 1/26/22

Completed by: Name: M. PEREZ Title: SWCL Date: 1/26/22

Approved by: Name: Philip Rose Title: FLCS Date: 1-28-22

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. 21 Webber Channel** T.G.: 505- J7
(Main channel inlet D/S Bridge)

Permit Requirements:

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

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 WATER FLOW _____

Biologist on site: Yes No

Date: 1/26/22

Biologist Comments/Instructions:

Completed by: Name: M. PEREZ

Title: PWCL Date: 1/26/22

Approved by: Name: Philip Rose

Title: FLCS Date: 1-28-22

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LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 505- J7

Permit Requirements:

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

Impacts shall not exceed 0.03 acre.

Description of Activity/Method of Implementation:

VEGETATION WAS REMOVED MANUALLY USING SMALL
POWER TOOLS.

NO LOUD NOISES WERE CREATED

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

Comments/Revisions:

Completed by: Name: M. PEREZ

Title: PWCC Date: 1/26/22

Approved by: Name: Philip Koc

Title: FCCS Date: 1-28-22

[Signature]

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

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

T.G.: 534- J1

Permit Requirements:

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

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED BY HAND AND USING SMALL
POWER TOOLS. NO LARGE AMOUNT OF DUST WAS CREATED.
AIR QUALITY WAS 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/Revisions:

NONE

Project start date: 01/21/2022

Project end date: _____

Completed by: Name: ALEJANDRO MARRUEZ Title: P.W.C.L. Date: 01/21/22

Approved by: Name: Santiago Vazquez Title: FCCS Date: 1/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 7

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

T.G.: 534- J1

TOBACCO: 4 sq/ft
CASTOR: 3 sq/ft

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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 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:

NO WATER FLOW
REMOVED SMALL AMOUNT OF CASTOR BEAN & TOBACCO PLANT.

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.L.

Date: 01/21/22

Approved by: Name: Santiago Vazquez

Title: RCCS

Date: 1/26/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 534- J1

Permit Requirements:

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

Description of Activity/Method of Implementation:

WE USED SMALL POWER TOOLS TO REMOVE VEGETATION.
NO LOUD NOISE WAS CREATED THAT WOULD IMPACT
NEAR BY RESIDENTS. ALSO COMPLES WITH REQUIREMENT.

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:

NOU

Completed by: Name: ALEJANDRO MARQUEZ

Title: P.W.C.U. Date: 01/21/22

Approved by: Name: Santiago Vazquez

Title: FCS Date: 1/26/22

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

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

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs. _____

Project Start Date: 9/15/21

Project End Date: 10/30/21

Completed by:

Name:	Jeremy D Winston
Title:	FCCS
Date:	6/28/2022

Approved by:

Name:	Eden Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

VSC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 24 (Compton Creek)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	151

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

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

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

Date on Site: _____

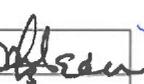
Comments/Revisions:

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

Completed by:

Approved by:

Name:	Jeremy Winston 
Title:	FCCS
Date:	6/28/2022

Name:	Eden Berhan 
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	Jeremy Winston
Title:	FCOS
Date:	6/28/2022

Approved by:

Name:	Eder Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JOC

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

Date	Air	H2O	Noise	Comment	Initial
9/15/21	Good	Fair	Fair	IT'S A GOOD START FOR THE DAY	A.C.
9/16/21	Good	Fair	Fair	All is well	A.C.
9/17/21	Good	Fair	Fair	FLAIL MOWER DOWN HYDRAULIC LINE 2.5 HRS.	E.T.
9/18/21	Good	Fair	Fair	FLAIL MOWER COILINK HOSE CONNECTOR BUSTED 10:45	A.C.
9/20/21	Good	Fair	Fair	FLAIL MOWER FIXED / SKIDSTEER REPAIR	A.C.
9/21/21	Good	Fair	Fair	VERY HOT & HUMID DAY	A.C.
9/22/21	Good	Fair	Fair	HOT & HUMID	A.C.
9/23/21	Good	Fair	Fair	Hot	A.C.
9/25/21	Good	Fair	Fair	NOT AS HOT	A.C.
9/27/21	Good	Fair	Fair	Not cloudy and cool	A.C.
9/28/21	Good	Fair	Fair	Cloudy and cool	A.C.
9/29/21	Good	Fair	Fair	STARTING TO WARM UP AGAIN	A.C.

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

Date	Air	H2O	Noise	Comment	Initial
9/30/21	Good	Good	OK	None	AS
10/1/21	Good	Good	OK	None	AS
10/2/21	Good	Good	OK	None	AS
10/4/21	Good	Good	OK	None	AS
10/5/21	Good	Good	OK	None	AS
10/6/21	Good	Good	OK	None	AS
10/8/21	Good	Good	OK	None	AS
10/12/21	Good	Good	OK	None	AS
10/13/21	Good	Good	OK	None	AS
10/15/21	Good	Good	OK	None	AS
10/16/21	Good	Good	OK	None	AS
10/18/21	Good	Good	OK	None	AS

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

Date	Air	H2O	Noise	Comment	Initial
10/19/21	Good	Good	ok	None	AS
10/20/21	Good	Good	ok	None	AS
10/21/21	Good	Good	ok	None	AS
10/22/21	Good	Good	ok	None	AS
10/23/21	Good	Good	ok	None	AS
10/25/21	Good	Good	ok	None	AS
10/26/21	Good	Good	ok	None	AS
10/27/21	Good	Good	ok	None	AS
10/28/21	Good	Good	ok	None	AS
10/29/21	Good	Good	ok	None	AS
10/30/21	Good	Good	ok	None	AS

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 11/04/21

Project End Date: 12/01/21

Completed by:

Name:	Jeremy Dukerton
Title:	PCCS
Date:	6/28/2022

Approved by:

Name:	Eden Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JBC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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 Removed	21

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: No

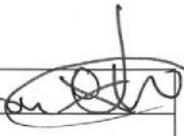
Date on Site: _____

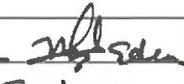
Comments/Revisions:

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

Completed by:

Approved by:

Name:	Jeremy Winston 
Title:	FCCS
Date:	6/28/2022

Name:	Eden Berhan 
Title:	Senior Civil Engineer
Date:	6/29/2022

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Greg Winston</i>
Title:	<i>FCS</i>
Date:	<i>6/28/2022</i>

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

JAC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Los Angeles River
 Reach Number 25

Date	Air	H2O	Noise	Comment	Initial
11-4-2021	GOOD	GOOD	FAIL	LBPD TOOK RAYLNE MORENO TAKEN TO LAUL STOLEN CAR IN LA RIVER REACH WAS ARRESTED	E.T
11-5-2021	GOOD	GOOD	FAIL		E.T
11-8-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T
11-9-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T
11-10-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T
11-11-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T
11-12-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T
11-15-2021	GOOD	GOOD	FAIL	NO PROBLEMS	E.T

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Los Angeles River
 Reach Number 25

Date	Air	H2O	Noise	Comment	Initial
11/16/21	Good	Good	ok	None	ASJ
11/17/21	Good	Good	ok	None	ASJ
11/18/21	Good	Good	ok	None	ASJ
11/19/21	Good	Good	ok	None	ASJ
11/22/21	Good	Good	ok	None	ASJ
11/23/21	Good	Good	ok	None	ASJ
11/24/21	Good	Good	ok	None	ASJ
11/29/21	Good	Good	ok	None	ASJ
11/30/21	Good	Good	ok	None	ASJ
12/1/21	Good	Good	ok	None	ASJ

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/17/21

Project End Date: 09/28/21

Completed by:

Name:	<i>M. Stephenson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>6-2-22</i>

ABC

Approved by:

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 26 (Project 74)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	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 sampling was conducted before, during and after during all clearing activity. Proper vegetation removal methods were conducted at Project 74 not to impact water quality sampling. 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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 quality impacts. Water Quality Sampling results provided in Annual Report.

Completed by:

Approved by:

Name:	<i>M. Stephenson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>6-2-22</i>

JAC

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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 outlets. 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	M. Stephenson
Title:	Construction Superintendent
Date:	6-2-22

JAC

Approved by:

Name:	Eden Berhan JAC
Title:	Senior Civil Engineer
Date:	6/29/2022

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Project 74
 Reach Number 26

Date	Air	H2O	Noise	Comment	Initial
9/17/21	Good	Good	Light	Water sample was taken, light noise from hand tools.	R.P.
9/18/21	Good	Good	Light	Water sample tested, light noise from hand tools.	R.P.
9/20/21	Good	Good	Light	Water sample was taken BMP'S were added and light noise from tools, R.P.	R.P.
9/22/21	Good	Good	Light	Sample taken, light noise from Hand tools.	R.P.
9/23/21	Good	Good	Light	Sample taken/light noise from hand tools.	R.P.
9/24/21	Good	Good	Light	Sample taken, noise is light	R.P.
9/27/21	Good	Good	Light	Light noise from hand tools.	R.P.
9/28/21	Good	Good	Light	Sample taken, light noise from ground crew.	R.P.

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021- 2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

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

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/21

Project End Date: 10/23/21

Completed by:

Name:	Paul Lopez
Title:	Flood Control Construction Supervisor
Date:	6.28.2022

Approved by:

Name:	Eder Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021- 2022 MITIGATION MONITORING PROGRAM

Location/Channel Reach	Reach No. 27 (Wilmington Drain)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	29

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 Practices 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

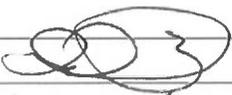
Date on Site: During site activity

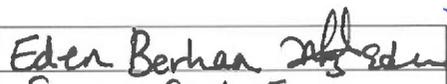
Comments/Revisions:

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

Completed by:

Approved by:

Name:	Paul Lopez 
Title:	Flood Control Construction Supervisor
Date:	6-28-2022

Name:	Eder Berhan 
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021- 2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

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

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

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

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	Paul Lopez
Title:	Flood Control Construction Supervisor
Date:	6-28-2022

Approved by:

Name:	Eden Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JGC

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Wilmington Drain
 Reach Number 27

Date	Air	H2O	Noise	Comment	Initial
9-16-21	Good	Good	moderate		G.U
9-17-21	Good	Good	moderate	Power equipment and power tools will be shut off when not in use and will refill fluids with absorbent pads underneath.	G.U
9-18-21	Good	Good	moderate		G.U
9-20-21	Good	Good	moderate		G.U
9-21-21	Good	Good	moderate		G.U
9-22-21	Good	Good	moderate		G.U
9-23-21	Good	Good	moderate		G.U
9-24-21	Good	Good	moderate		G.U
9-25-21	Good	Good	moderate		G.U
9-27-21	Good	Good	moderate		G.U
9-28-21	Good	Good	moderate		G.U
9-29-21	Good	Good	moderate		G.U

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program
 Reach Name Wilmington Drain
 Reach Number 27

Date	Air	H2O	Noise	Comment	Initial
9-30-21	Good	Good	moderate	Power tools good power equipment will be shut off when not in use and Refill all fluids with absobent pads underneath	G.U.
10-1-21	Good	Good	moderate	" "	G.U.
10-2-21	Good	Good	moderate	" "	G.U.
10-4-21	Good	Good	moderate	" "	G.U.
10-6-21	Good	Good	moderate	" "	G.U.
10-7-21	Good	Good	moderate	" "	G.U.
10-8-21	Good	Good	moderate	" "	G.U.
10-12-21	Good	Good	moderate	" "	G.U.
10-13-21	Good	Good	moderate	" "	G.U.
10-14-21	Good	Good	moderate	" "	G.U.
10-15-21	Good	Good	moderate	" "	G.U.
10-16-21	Good	Good	moderate	" "	G.U.

**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 be removed with a 2 inch diameter at breast height or greater. The 0.2-acre of vegetation that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL VEGETATION WAS REMOVED WITH HAND TOOLS AND POWER TOOLS SUCH AS WEED EATERS AND HEDGE TRIMMERS FITTED WITH APPROVED EXHAUST. ALL VEGETATION WAS HAND LOADED.

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

Comments/Revisions:

Project start date: 1/26/22

Project end date: 1/28/22

Completed by: Name: Ryan J. Morillo Title: CREW LEADER Date: 1/26/22

Approved by: Name: MONTEZ DE OLA Title: FCCS Date: 2/2/22

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) .41

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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 be 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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 STRAW BALE NEEDED, REACH IS DRY.

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Muzillo Title: CREW LEADER Date: 1/26/22
Approved by: Name: MONTES DE OSA Title: FCCS Date: 2/2/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 be 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 POWER TOOLS USED SUCH AS, WEED EATERS AND HEDGE TRIMMERS ARE FITTED WITH APPROVED MUFFLERS. ALL VEGETATION WAS HAND LOADED.

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

Comments/Revisions:

Completed by: Name: Ryan Mueillo

Title: CREW LEADER Date: 1/26/22

Approved by: Name: MONTES DE OCA

Title: FCCU Date: 2/2/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name TRINERO CREEK - PD 2200
 Reach Number 28

Date	Air	H2O	Noise	Comment	Initial
1/24/22	✓	✓	✓	NO BOOM NECESSARY	R.M.
1/27/22	✓	✓	✓		R.M.
1/28/22	✓	✓	✓	COMPLETED	R.M.
			LM		
			53514		

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

REMOVED VEGETATION BY HAND AND POWER TOOLS SUCH AS,
WEED EATERS, HEDGE TRIMMERS AND POLE SAW. ALL POWER TOOLS
FITTED WITH APPROVED EXHAUST.

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

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

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

Comments/Revisions:

Project start date: 12/16/21

Project end date: 12/22/21

Completed by: Name: B-Milo Title: CREW LEADER Date: 12/22/21

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 7.89

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

REACH HAS NO WATER, NO NEED FOR STRAW BALE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Morillo Title: CREW LEADER Date: 12/22/21

Approved by: Name: _____ Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

VEGETATION REMOVED BY HAND TOOLS, WEED EATERS AND
POLE SAW EQUIPPED 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:

ALL WORK STARTED AFTER 8:00AM SO AS, NOT TO DISTURB RESIDENTS.

Completed by: Name: Ryan Morillo

Title: CREW LEADER Date: 12/21/21

Approved by: Name: _____

Title: _____ Date: _____

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

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

T.G.: 588- J4 TO H4

Permit Requirements:

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

Description of Activity/Method of Implementation:

USED WEED EATERS, HEDGE TRIMMERS AND POLE SAWS. ALL
POWER TOOLS HAVE 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:

STRAW BALE PLACED AT END OF REACH

Project start date: 10/21/21

Project end date: 11/16/21

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 10/21/21

Approved by: Name: LILIS MONTES DE OCA Title: FCCS Date: 11/16/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 31.35

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0 Sq. Ft.

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

T.G.: 588- J4 TO H4

Permit Requirements:

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

Description of Activity/Method of Implementation:

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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH.

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 10/21/21

Approved by: Name: JULIS MARTIN DE OLIVERA

Title: FCCS Date: 11.16.21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 588- J4 TO H4

Permit Requirements:

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

Description of Activity/Method of Implementation:

WORK STARTED AFTER 8:00 AM, SO AS NOT TO DISTURB
RESIDENTS. ALL POWER EQUIPMENT HAS APPROVED
MUFFLERS

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

Comments/Revisions:

Completed by: Name: Ryan Mirilla

Title: CREW LEADER Date: 10/21/21

Approved by: Name: JULIS MONTES DEO CA

Title: FCCS Date: 11-14-21

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name STOKES CYN CHANNEL
 Reach Number # 32

Date	Air	H2O	Noise	Comment	Initial
10/21/21	✓	✓	✓	CREEK IS DRY, NO BOOM NECESSARY	RM
10/23/21	✓	✓	✓		RM
10/25/21	✓	✓	✓		RM
10/26/21	✓	✓	✓		RM
10/27/21	✓	✓	✓		RM
10/28/21	✓	✓	✓		RM
10/29/21	✓	✓	✓		RM
10/30/21	✓	✓	✓		RM
11/1/21	✓	✓	✓		RM
11/2/21	✓	✓	✓		RM
11/3/21	✓	✓	✓		RM
11/4/21	✓	✓	✓		RM

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

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

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED WITH HAND TOOLS AND POWER TOOLS SUCH AS, WEED EATERS, HEDGERS AND POLE SAWS. ALL POWER TOOLS ARE FITTED WITH APPROVED EXHAUST. VEGETATION REMOVED WITH 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:

STRAW BALE PLACED AT END OF REACH

Project start date: 2/8/22 Project end date: 2/25/22

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 2/8/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 3/1/22

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 3.61
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0
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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No Date: 2/8/22

Biologist Comments/Instructions:

NO CUTTING/REMOVING VEGETATION IN WATER

Completed by: Name: RYAN MUEILLO Title: CREW LEADER Date: 2/8/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 3/1/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

ALL POWER TOOLS USED TO REMOVE VEGETATION ARE FITTED WITH APPROVED MUFFLERS. ALL VEGETATION LOADED OUT BY 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:

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 2/8/22

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 3/1/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name MEDEA CREEK - PD 1378 V2

Reach Number 33

Date	Air	H2O	Noise	Comment	Initial
2/8/22	✓	✓	✓	STRAW BALE PLACED AT END OF REACH	RM.
2/9/22	✓	✓	✓		RM
2/10/22	✓	✓	✓		RM
2/11/22	✓	✓	✓		RM
2/12/22	✓	✓	✓		RM
2/15/22	✓	✓	✓		RM
2/16/22	✓	✓	✓		RM
2/17/22	✓	✓	✓		RM
2/18/22	✓	✓	✓		RM
2/22/22	✓	✓	✓		RM
2/23/22	✓	✓	✓		RM
2/24/22	✓	✓	✓		RM

2/25/22 FORMS/MI Mitigation Monitoring Program.doc Completed RM

LM-513514

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 be impacted during future maintenance activities

Description of Activity/Method of Implementation:

ALL POWER TOOLS SUCH AS, WEED EATERS, HEDGE TRIMMERS, AND CHAIN SAW ARE EQUIPPED WITH APPROVED EXHAUST. ALL VEGETATION WAS HAND LOADED. DUST WAS KEPT 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:

NO WATER - NO BOOM NEEDED

Project start date: 11/20/21

Project end date: 11/20/21

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 11/20/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 11/24/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 be impacted during future maintenance activities

Description of Activity/Method of Implementation:

ALL POWER TOOLS EQUIPPED WITH APPROVED MUFFLERS. ALL
VEGETATION WAS HAND LOADED

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

Comments/Revisions:

NO WORK WAS DONE BEFORE 8:00 AM
SO AS NOT TO DISTURB RESIDENTS.

Completed by: Name: Ryan Murillo

Title: CREW LEADER Date: 11/20/21

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 11/24/21

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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. 37 Medea Ck/Chesesboro Ck Outlet T.G.: 558-A6**

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

ALL POWER TOOLS USED TO REMOVE VEGETATION ARE FITTED WITH APPROVED EXHAUST. POWER TOOLS CONSISTING OF WEED EATERS, HEDGE TRIMMERS AND POLE SAWS.

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

Comments/Revisions:

STRAW BALE PLACED AT END OF REACH

Project start date: 11/18/21

Project end date: 11/22/21

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 11/22/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 11/24/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

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

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

Description of Activity/Method of Implementation:

ALL POWER TOOLS SUCH AS, WEED EATERS, HEDGE TRIMMERS
AND POLE SAW ARE EQUIPPED WITH APPROVED MUFFLERS TO
REDUCE NOISE.

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

Comments/Revisions:

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 11/22/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 11/24/21

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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. 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 be removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL VEGETATION WILL BE HAND CUT. ALL POWER TOOLS USED
HAVE APPROVED NOISE SUPPRESSORS AND 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: 1/20/22

Project end date: 1/26/22

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 1/20/22

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 2/1/22

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 7.22

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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 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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: RYAN MURILLO

Title: CREW LEADER Date: 1/20/22

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 2/1/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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 be removed with a 2 inch diameter at breast height or greater.

Description of Activity/Method of Implementation:

ALL VEGETATION REMOVED WITH POWER TOOLS 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:

Completed by: Name: RYAN MORILLO

Title: CREWLEADER Date: 1/20/22

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 2/1/22

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name LINDERO CYN CHANNEL OUTLET

Reach Number 38

Date	Air	H2O	Noise	Comment	Initial
1/20/22	✓	✓	✓	STRAW BALE PLACED AT END OF REACH	R.M.
1/21/22	✓	✓	✓		R.M.
1/24/22	✓	✓	✓		R.M.
1/25/22	✓	✓	✓		R.M.
1/26/22	✓	✓	✓	STRAW BALE REMOVED. Job COMPLETED. LM 5135 if.	R.M.

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: **1**

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

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality..

- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not 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: 1-19-2022

Project end date: 1-31-2022

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature] Title: Civil Engr Date: 6-29-2022

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 60

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

Mitigation measure is not 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 Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature] Title: Civil Engr Date: 6-29-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts.

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

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

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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. 40A San Gabriel River**

T.G.: 597-H5

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: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not 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: 12/27/2021

Project end date: 3/18/2022

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name:  Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 45.81

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 115

Location/Channel Reach#: **Reach No. 40A San Gabriel River** T.G.: **597-H5**

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

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

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

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

Comments/Revisions:

No equipment used. Water samples were not taken.

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature]

Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 597-H5

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

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

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

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name:  Title: Civil Engr Date: 6-29-2022

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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. 40B San Gabriel River**

T.G.: 637-F4

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

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

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

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

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

Comments/Revisions:

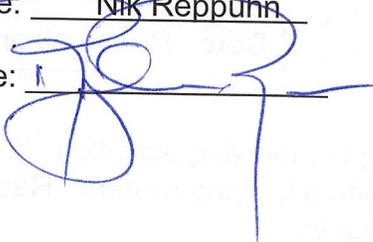
None

Project start date: 12/13/2021

Project end date: 2/28/2022

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 128.73
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 95
Location/Channel Reach#: **Reach No. 40B San Gabriel River** T.G.: **637-F4**

Permit Requirements:

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

Description of Activity/Method of Implementation:

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

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

Comments/Revisions:

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

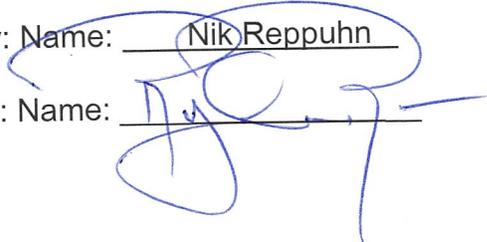
Biologist on site: No Yes

Date: During clearing efforts

Biologist Comments/Instructions:

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

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name:  Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 637-F4

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

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

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

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature] Title: Civil Engr Date: 6-29-2022

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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. 41 Walnut Creek**

T.G.: 637-H2

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

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

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

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

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

Comments/Revisions:

None

Project start date: 09/21/2021

Project end date: 10/18/2021

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature]

Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 200

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 60

Location/Channel Reach#: **Reach No. 41 Walnut Creek** T.G.: **637-H2**

Permit Requirements:

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

Description of Activity/Method of Implementation:

There was no flowing water within the work site.

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

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

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

Comments/Revisions:

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

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

None

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: [Signature] Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 637-H2

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

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

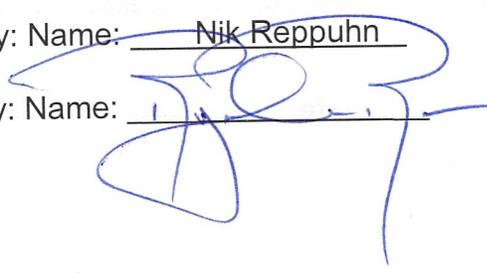
- Disposition: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not fully implemented. Further action is required.
(Please explain below.)
- Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

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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. 42 San Jose Creek**

T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of air quality.

Description of Activity/Method of Implementation:

No mitigation of air quality.

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

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

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

Comments/Revisions:

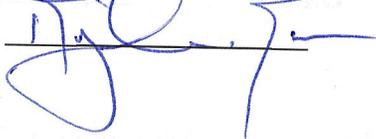
None

Project start date: 1-1-2022

Project end date: 1-31-2022

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM**

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

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

T.G.: 637-E5

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

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

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

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

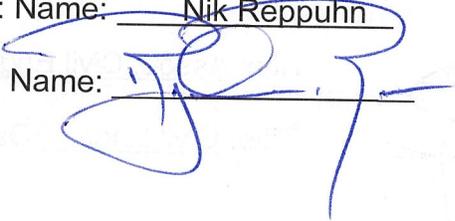
Mitigation measure is not in compliance. Further action is required.
(Please explain below.)

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/16/21

Project End Date: 10/19/21

Completed by:

Name:	<i>Joseph B. Linderoth</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/01/2022</i>

Approved by:

Name:	<i>Eder Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 43 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	26

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. Debris was put on 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 Practices 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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:	<i>Guillermo P. Linares</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/01/2022</i>

Approved by:

Name:	<i>JAC</i> <i>Eder Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Stephan B. Linschme</i>
Title:	<i>CONSTRUCTION SUPERVISOR</i>
Date:	<i>06/01/2022</i>

JQC *Approved by:*

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program 2021 -2022

Location: San Gabriel River Soft Bottom from Whittier Narrows Dam to Beverly Blvd

Reach: 43

Date	Air	H2O	Noise	Comment	Initials
9/16/21	GOOD	DRY	70-90 DBA	START OF SBC REACH #43	MDA
9/17/21	GOOD	DRY	70-90 DBA	NONE	MA
9/20/21	GOOD	DRY	70-90 DBA	NONE	MA
9/21/21	GOOD	DRY	70-90 DBA	NONE	MA
9/22/21	GOOD	DRY	70-90 DBA	NONE	MA
9/23/21	GOOD	DRY	70-90 DBA	NONE	MA
9/24/21	GOOD	DRY	70-90 DBA	NONE	MA
9/27/21	GOOD	DRY	70-90 DBA	NONE	S.G
9/28/21	GOOD	DRY	70-90 DBA	NONE	S.G
9/29/21	GOOD	DRY	70-90 DBA	NONE	S.G
9/30/21	GOOD	DRY	70-90 DBA	NONE	MA
10/1/21	GOOD	DRY	70-90 DBA	NONE	MA
10/4/21	GOOD	DRY	70-90 DBA	NONE	MA
10/5/21	GOOD	DRY	70-90 DBA	NONE	MA
10/6/21	GOOD	DRY	70-90 DBA	NONE	MA
10/7/21	GOOD	DRY	70-90 DBA	NONE	MA
10/8/21	GOOD	DRY	70-90 DBA	NONE	MA
10/12/21	GOOD	DRY	70-90 DBA	NONE	MA
10/13/21	GOOD	DRY	70-90 DBA	NONE	MA
10/14/21	GOOD	DRY	70-90 DBA	NONE	MA

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 09/20/21

Project End Date: 11/18/21

Completed by:

Name:	Benjamin B. Limon Jr.
Title:	Construction Superintendent
Date:	06/01/2022

Approved by:

Name:	Eden Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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	74

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. Biologist on site during clearing activity and BMP's were implemented 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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:

Approved by:

Name:	<i>Suparna B. Limone</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/01/2022</i>

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

EBE

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Stephen S. [Signature]</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/01/2022</i>

Approved by: KAC

Name:	<i>Eden Berhan [Signature]</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program 2021 -2022

Location: San Gabriel River Soft Bottom from Beverly Blvd to Firestone Blvd

Reach: 44

Date	Air	H2O	Noise	Comment	Initials
9/20/21	GOOD	DRY	70-90 DBA	The Start of REACH #44	MA
9/21/21	GOOD	DRY	70-90 DBA	NONE	MA
9/22/21	GOOD	DRY	70-90 DBA	NONE	MA
9/23/21	GOOD	DRY	70-90 DBA	NONE	MA
9/24/21	GOOD	DRY	70-90 DBA	NONE	MA
9/27/21	GOOD	DRY	70-90 DBA	NONE	S.G.
9/28/21	GOOD	DRY	70-90 DBA	NONE	S.G.
9/29/21	GOOD	DRY	70-90 DBA	NONE	S.G.
9/30/21	GOOD	DRY	70-90 DBA	NONE	MA
10/1/21	GOOD	DRY	70-90 DBA	NONE	MA
10/4/21	GOOD	DRY	70-90 DBA	NONE	MA
10/5/21	GOOD	DRY	70-90 DBA	NONE	MA
10/6/21	GOOD	DRY	70-90 DBA	NONE	MA
10/7/21	GOOD	DRY	70-90 DBA	NONE	MA
10/8/21	GOOD	DRY	70-90 DBA	NONE	MA
10/12/21	GOOD	DRY	70-90 DBA	NONE	MA
10/13/21	GOOD	DRY	70-90 DBA	NONE	MA
10/14/21	GOOD	DRY	70-90 DBA	NONE	MA
10/15/21	GOOD	DRY	70-90 DBA	NONE	MA
10/18/21	GOOD	DRY	70-90 DBA	NONE	MA

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program 2021 -2022

Location: San Gabriel River (Beverly Blvd. to Firestone Blvd.)

Reach: 44

Date	Air	H2O	Noise	Comment	Initials
10/20	GOOD	DRY	70-90 D B A	NONE	MDA
10/21	GOOD	DRY	70-90 D B A	NONE	MDA
10/25	GOOD	DRY	70-90 D B A	NONE	MDA
10/26	GOOD	DRY	70-90 D B A	NONE	MDA
10/27	GOOD	DRY	70-90 D B A	NONE	MDA
10/29	GOOD	DRY	70-90 D B A	NONE	MDA
11/1	GOOD	DRY	70-90 D B A	NONE	MDA
11/2	GOOD	DRY	70-90 D B A	NONE	MDA
11/3	GOOD	DRY	70-90 D B A	NONE	MDA
11/4	GOOD	DRY	70-90 D B A	NONE	MDA
11/5	GOOD	DRY	70-90 D B A	NONE	MDA
11/8	GOOD	DRY	70-90 D B A	NONE	MDA
11/9	GOOD	DRY	70-90 D B A	NONE	MDA
11/10	GOOD	DRY	70-90 D B A	NONE	MDA
11/11	GOOD	DRY	70-90 D B A	NONE	MDA
11/12	GOOD	DRY	70-90 D B A	NONE	MDA
11/15	GOOD	DRY	70-90 D B A	NONE	MDA
11/16	GOOD	DRY	70-90 D B A	NONE	MDA
11/17	GOOD	DRY	D B A	NONE	MDA
11/18	GOOD	DRY	D B A	NONE	MDA

No# 738289

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3**
(PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Mechanical AND HAND Clearing of all
Vegetation within Approved Permit 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.)

Comments/Revisions:

MILD WIND

Project start date: 9-28-21

Project end date: 9-28-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-19-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 47 Santa Clara River** T.G.: 4552-A3 TO 4551-J3
(PD 1733 unit 1)

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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 WEEKEND WORK WAS DONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 47 Santa Clara River T.G.: 4552-A3 TO 4551-J3
(PD 1733 unit 1)**

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

The Operator shall not impact the 4.51 acres of vegetation that was allowed to remain in 1997. Impacts shall not exceed 0.76 acre (1656 linear feet by 20 feet wide along each levee). Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK DONE DURING DAYLIGHT HOURS.

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

Comments/Revisions:

Completed by: Name: ANDY O'CALLAGHAN Title: PWC Date: 9-29-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-19-21

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WO# 7383521

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:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK WAS USED TO MINIMIZED DUST PRIOR TO VEGETATION
REMOVAL AND STAYED ON SITE AT ALL TIMES.

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

Comments/Revisions:

ALL TRUCKS TARPED DURING TRANSPORTATION OF DEBRIS.

Project start date: 11-03-2021

Project end date: 11-03-2021

Completed by: Name: EMILIO NUNES-ORDONEZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 11/16/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 16.75

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100

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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 11/16/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES, 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/Revisions:

NONE

Completed by: Name: EMILIO NIBES ORDONEZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 11/16/2021

West 7383521

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
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:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK SPRAYED WATER PRIOR TO VEGETATION REMOVAL AND
REMAINED ON SITE AND SPRAYED AS NEEDED.

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

Comments/Revisions:

MILD WIND CONDITIONS, ALL TRUCKS TAPPED DURING TRANSPORTATION
OF VEGETATION.

Project start date: 11-03-2021

Project end date: 11-03-2021

Completed by: Name: EMILIO NILES ORTIZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: PCCS Date: 11/16/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 4.58
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 50
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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

NONE

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NILES-ORDONEZ Title: PWCA Date: 11-03-2021
Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 11/16/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

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:

WORK PERFORMED DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCES, 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/Revisions:

Completed by: Name: EMILIO NIBES ORDANIZ Title: PWCA Date: 11-03-2021
Approved by: Name: Marty Lemus #269380 Title: FCES Date: 11/16/2021

No# 7383289

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

Hand Clearing of all Vegetation
within Approved Permit Limits
Water truck 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:

Project start date: 9-29-21

Project end date: 9-29-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21

Approved by: Name: Marty Lemus #269380 Title: Pces Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 530
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 2050
Location/Channel Reach#: **Reach No. 53 Santa Clara River (PD 832)** Tobacco
Main Channel Inlet T.G.: 4551-H4

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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

Comments/Revisions:

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

ALL work was Done During Daylight
Hours IN compliance with Local
NOISE ORDINANCE

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

Comments/Revisions:

WIND WIND

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

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Wo # 7383289

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 54 Santa Clara River (PD 832) T.G.: 4551-H3 TO H4
Main Channel Outlet**

Permit Requirements:

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

Impacts shall not exceed 0.31 acre.

Description of Activity/Method of Implementation:

Mechanical and Hand Clearing of
Vegetation within Approved Permit
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.)

Comments/Revisions:

Project start date: 9-27-21

Project end date: 9-28-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-13-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 28 SQ
Tabacco

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:

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

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

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

Comments/Revisions:

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL

Date: 10-13-2021

Approved by: Name: Marty Lemus #269380

Title: FCCS

Date: 10-19-21

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 CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY O'CALLAGHAN

Title: PWCL Date: 10-13-2021

Approved by: Name: Marty Lemus #269380

Title: PLCS Date: 10-19-21

WO# 7383289

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 clearing of vegetation
within approved permit 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.)

Comments/Revisions:

MIDWIND

Project start date: 9-24-21

Project end date: 9-24-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100 SQ Tobacco

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

Comments/Revisions:

Biologist on site: Yes No **Date:** _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-29-21
Approved by: Name: Marty Lemus #269380 Title: PECS Date: 10-19-21

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 CONDUCTED DURING
DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy Callaghan Title: PWCL Date: 9-29-21
Approved by: Name: Marty Lemus #269380 Title: FELS Date: 10-19-21

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Wd # 7383289

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 56 Santa Clara River
(PD 1562 unit 2)**

T.G.: 4551-G1

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Mechanical Clearing of Vegetation
Within Approved Permit 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.)

Comments/Revisions:

MILD WIND

Project start date: 9-21-21

Project end date: 9-21-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 11-2-21

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

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons) 2.75

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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:

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

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

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

Comments/Revisions:

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 11/2/21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 56 Santa Clara River
(PD 1562 unit 2)**

T.G.: 4551-G1

Permit Requirements:

The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.47 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 11/2/21

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Work 7383543

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 Clearing of
Vegetation with APPROVED Permit Limits
Water TRUCKS on site to Reduce 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

Project start date: 10-14-2021

Project end date: 10-14-2021

Completed by: Name: Andy Callaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-21-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 2550
Tabacco

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:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

Biologist on site: Yes No

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-13-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 10-21-21

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:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL NOISE
ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy Ocallaghan

Title: PWCL Date: 10-13-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-21-21

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WO # 7383289

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 Clearing of Vegetation
within Approved Permit 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.)

Comments/Revisions:

MILD WIND

Project start date: 9-28-21

Project end date: 9-29-21

Completed by: Name: Andy Ocallaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

ALL WORK CONDUCTED DURING
DAYLIGHT HOURS IN COMPLIANCE
WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy Callaghan Title: PWCL Date: 10-14-21
Approved by: Name: Marty Lemus #269530 Title: FCCS Date: 10-19-21

WO# 7383289

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 clearing of vegetation
within APPROVED permit 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.)

Comments/Revisions:

MILD WIND

Project start date: 9-27-21

Project end date: 9-28-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 2.075

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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:

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 10-19-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 60 Santa Clara River
(PD's 1339 & 374)**

T.G.: **4551- F3 TO E2**

Permit Requirements *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 1.50 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 10-19-21

WO# 7383289

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

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2
D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Mechanical Clearing of Vegetation
within APPROVED Permit 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.)

Comments/Revisions:

MITO WIND

Project start date: 9-27-21

Project end date: 9-29-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-19-21

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

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons) 3.75
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 2550
Location/Channel Reach#: Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2
D/S New Soledad Canyon. Rd. Bridge Tabacco

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 10-19-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 61 Santa Clara River (PD 659) T.G.: 4551-E2**
D/S New Soledad Canyon. Rd. Bridge

Permit Requirements: *The channel clearing work will involve mechanical removal of all vegetation within 20 feet from the levee slope lining along the entire reach.*

Impacts shall not exceed 0.75 acre. Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-14-21
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

WO# 7383679

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
(CDR 523.081)**

T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

Mechanical Clearing of
Vegetation within Approved
Permit Limits Water Truck 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.)

Comments/Revisions:

MILD WIND

Project start date: 10-6-2021

Project end date: 10-8-2021

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10/13/2021

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 63 Oak Ave Rd Drainage
(CDR 523.081)**

T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380

Title: FCLS Date: 10/13/2021

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 63 Oak Ave Rd Drainage
(CDR 523.081)**

T.G.: 4551-C2

Permit Requirements:

The channel clearing work will involve mechanized removal of all vegetation bank to bank.

Impacts shall not exceed 0.85 acre.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING
DAYLIGHT HOURS IN COMPLIANCE
WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY COLLAGHAN

Title: PWCL Date: 10/2/2021

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10/13/2021

7383548

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 clearing of vegetation
with APPROVED Permit Limits was
used water truck onsite 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

Project start date: 10-7-2021

Project end date: 10-8-2021

Completed by: Name: AD O'Callaghan Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10/13/2021

7383548

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 37.22
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 25
Location/Channel Reach#: **Reach No. 64 Soledad Cyn Rd Drainage** T.G.: Tabacco 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:

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

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

Comments/Revisions:

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-12-2021
Marty Lemus #269380
Approved by: Name: _____ Title: FCS Date: 10/13/2021

7383548

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY O'CALLAGHAN Title: PWCL Date: 10-12-2021
Marty Lemus #269380

Approved by: Name: _____ Title: PRES Date: 10/13/2021

Wo# 7383289

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 66 Santa Clara River (PD 1538)** T.G.: 4550-H2

Permit Requirements:

The channel clearing will involve mechanized removal of all vegetation within 20 feet from the slope lining along the entire reach.

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Mechanical and Hand Clearing of all
Vegetation within Approved Permit Limits
20 Feet From Slope

- 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

Project start date: 10-5-21

Project end date: 10-5-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0.50
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 2550
Location/Channel Reach#: **Reach No. 66 Santa Clara River (PD 1538)** T.G.: 4550-H2
Tabacco

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:

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

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL

Date: 10-12-2021

Approved by: Name: Marty Lemus #269380

Title: FCCS

Date: 10-19-21

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:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

~~NO WEEKEND WORK CONDUCTED~~

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-19-21

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WO# 7383593

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 Hand clearing of all
Vegetation within Approved Permit Limits. 10 Foot
wide strip of Vegetation near center line left in
Place 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.)

Comments/Revisions:

LOW WIND Super 10 Dump trucks
TARPED at all times During transportation
of Vegetation to Landfill

Project start date: 9-7-21

Project end date: 9-13-21

Completed by: Name: Andrew O'Callaghan Title: PWCL Date: 9-22-21

Approved by: Name: Marty Lemus #269380 Title: Fees Date: 10-5-21

WO# 7383593

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

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 274.00

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50 Sq Feet
ToBacco

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:

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

MILD WIND CONDITIONS

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-22-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-5-21

WO# 7383593

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:

ALL WORK DONE DURING DAYLIGHT HOURS IN
COMPLIANCE WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

DURING EQUIPMENT CROSSING AT URBANDALE BRIDGE
SLOWED DOWN TO MINIMIZE NOISE LEVELS
ALL OPERATOR'S WERE MADE AWARE OF BAT
ACTIVITY PRIOR TO COMMENCING ANY WORK NEAR
AREA OF CONCERN

Completed by: Name: Andrew Callag

Title: PWCL Date: 9-22-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 10-5-21

WO# 7383593

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 69 Bouquet Canyon Middle T.G.: 4461-C6 TO A7
(PD's 722,773,1365,1065, & 451)**

Permit Requirements: *The channel clearing work will involve mechanical clearing and grading of all vegetation, except for a 10-foot-wide strip near centerline of the channel. This process will be repeated annually, except that the 10-foot strip left will alternate from one side of the channel to the other.*

The vegetation (0.62 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF
VEGETATION WITHIN APPROVED PERMIT 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.)

Comments/Revisions:

MILD WIND CONDITIONS

Project start date: 9-9-21

Project end date: 9-14-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-28-21

Approved by: Name: Marty Lemus #269380 Title: FLCS Date: 10-5-21

WO# 7383593

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:

Mechanical AND HAND Clearing of Vegetation
within Approved Permit 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.)

Comments/Revisions:

The Bridge at Urbandale we used rubber
tire loader to reduce noise level

Completed by: Name: Andy O'Callaghan Title: PWLL Date: 9-28-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-5-21

WO# 7383593

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name Bouquet CYN Channel
Reach Number 69

Date	Air	H2O	Noise	Comment	Initial
9/9	✓	✓	✓	used rubber tire loader to reduce noise	AO
"		✓		Water truck onsite	AO
9/10	✓	✓	✓	used Rubber tire under Bhdg Due to BATS	AO
9/13	✓	✓	✓	"	AO
9/14	✓	✓	✓	"	AO

WO# 7383593

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:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS
IN COMPLIANCE WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Project start date: 9-13-21

Project end date: 9-14-21

Completed by: Name: Andy O'Callaghan Title: FWCL Date: 9-28-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-5-21

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:

Mechanical and Hand Clearing of
Vegetation within Approved Permit 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.)

Comments/Revisions:

MILD WIND CONDITIONS

Completed by: Name: Andy Callaghan

Title: PWCL Date: 9-28-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-5-21

NO# 7383289

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 71 Santa Clara River
Main Channel (PD1946)**

T.G.: 4550-E2

Permit Requirements: *The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.*

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

Mechanized Clearing of Vegetation
within Approved Permit Limits
NOT to extend 20 Feet beyond
toe of the levee

- 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:

MIDWIND

Project start date: 10-13-2021

Project end date: 10-13-2021

Completed by: Name: Andy OCallagan Title: PWCL Date: 10-13-2021

Approved by: Name: Mary Lemus #269380 Title: FCCS Date: 10-19-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 71 Santa Clara River
Main Channel (PD1946)**

T.G.: 4550-E2

Permit Requirements: *The channel clearing work will involve mechanized removal of all vegetation within 20 feet from the base of the slope lining along the entire reach.*

Clearing shall not extend more than 20 feet beyond the toe of the levee.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH
LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY O'Callaghan

Title: PWCL Date: 10-13-2021

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-19-21

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7383617

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 Tools To Remove All green + Dead Vegetation
All PPE were in place
All BMPs were in at all times

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 Dust to Report

Project start date: 9-29-2021

Project end date: _____

Completed by: Name: James Young Title: PWCL Date: 9-29-2021

Approved by: Name: Jose Merrill Title: F.C.C.S. Date: 9/29/2021

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 20

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 100 FT

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:

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

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

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

Comments/Revisions:

50 ft of castor Bean Removed 50 ft of tobacco Plant Removed

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Reach was pre surveyed by Biologist
All Permits Approved

Completed by: Name: James Young Title: PWCL Date: 9-29-2021

Approved by: Name: Jose Morill Title: F.C.S. Date: 9/29/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 done in Day time hours

- 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 was done

Completed by: Name: James Young

Title: PWCH Date: 9-29-2021

Approved by: Name: Jose Murillo

Title: F.C.C.S. Date: 9/29/2021

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work 7383331

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 73 Wildwood Canyon Channel** T.G.: 4640-H2
(PDT361 Main Channel Inlet)

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

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

Hand Clearing of Vegetation
within Approved Permit Limits

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

Comments/Revisions:

MILD WIND

Project start date: 10-5-2021

Project end date: 10-5-2021

Completed by: Name: Andy O'Callaghan Title: PNCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-21-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 73 Wildwood Canyon Channel
(PDT361 Main Channel Inlet)**

T.G.: 4640-H2

Permit Requirements: *Mechanical and hand-clearing work will be performed to keep reach clear of all vegetation.*

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL

Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: PCCS

Date: 10-21-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 73 Wildwood Canyon Channel** T.G.: **4640-H2**
(PDT361 Main Channel Inlet)

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

Impacts shall not exceed 0.05 acre.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY O'CALLAGHAN

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-21-21

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WO# 7383617

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** T.G.: **4640-F1 TO 450-G3**
(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-foot wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF VEGETATION WITHIN APPROVED PERMIT LIMITS

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

Comments/Revisions:

MILD WIND CONDITIONS

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-28-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10/13/2021

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

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 374.94

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 100 Sa
ToBacco

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-foot wide will be maintained clear of all vegetation and will be graded along the entire length in this reach. Two island areas supporting mature trees will be left in place as well as the riparian vegetation. Tree pruning of dead branches and limbs that could obstruct flow will be removed by hand labor.

The vegetation (15.37 acres) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

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

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

WO# 7383617

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL

Date: 9-28-21

Approved by: Name: Mary Lemus #269380

Title: PCS

Date: 10/13/2021

WO# 7383617

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-foot 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 CONDUCTED DURING DAYLIGHT HOURS
IN COMPLIANCE WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Project start date: _____

Project end date: _____

Completed by: Name: Andy Calabrese Title: PWCL Date: 9-28-21
Marty Lemus #269380

Approved by: Name: _____ Title: Pres Date: 10/13/2021

W6# 7383617

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name Santa Clara River South Fork

Reach Number B-75

Date	Air	H2O	Noise	Comment	Initial
9/16	✓	✓	✓	}	AO
9/17	✓	✓	✓		AO
9/20	✓	✓	✓		AO
9/21	✓	✓	✓		AO
9/22	✓	✓	✓	NO changes	AO
9/23	✓	✓	✓	"	AO
9/24	✓	✓	✓	"	AO
9/27	✓	✓	✓	"	AO

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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. 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 Clearing of all Vegetation
with IN APPROVED Permit Limits
Bank to Bank Waste trucks ON
SITE to reduce 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

Project start date: 9-17-2021

Project end date: 9-24-2021

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-12-21

Approved by: Name: Marty Lemus #269380 Title: PCES Date: 10/13/2021

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 7.060

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 0

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:

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

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

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

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-12-2021

Approved by: Name: Mary Lemus #269380 Title: PLCS Date: 10/13/2021

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:

ALL WORKS CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND CONDUCTED

Completed by: Name: ANDY O'CALLAGHAN

Title: PWCL Date: 10-12-2021

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10/13/2021

WO# 7383586

Los Angeles County Channel Maintenance Project
Mitigation Monitoring Program

Reach Name PICO CANYON CH
Reach Number R-76

Date	Air	H2O	Noise	Comment	Initial
9/17	✓	✓	✓	USED WATER TRUCKS TO KEEP DUST DOWN	AO
9/20	✓	✓	✓	" "	AO
9/21	✓	✓	✓	" "	AO
9/22	✓	✓	✓	" "	AO
9/23	✓	✓	✓	" "	AO
9/24	✓	✓	✓	" "	AO

West 7383555

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

mechanical equipment used to clear
vegetation within approved permit 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.)

Comments/Revisions:

BMP were implemented at all times

Project start date: 9-15-21

Project end date: 9-15-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-17-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 9/24/21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 9.88
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 16 Sq Ft
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:

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:

- | | |
|---|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

EXOTIC vegetation removed was tobacco tree.

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: AUDY O'Callaghan Title: PWCL Date: 9-17-21
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 9-24-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

Mechanical equipment used to clear
Vegetation. At Daylight Hours in
compliance with Local Noise Ordinance

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

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

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: ANDY O'CALLAGHAN

Title: PWCL Date: 9-17-21

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 9-24-21

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Work 7383572

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 machinery used to clear
vegetation and hand work within approved
permit limits water trucks on site to
minimize dust no dust left jobsite

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

Comments/Revisions:

WIND CONDITIONS were good to minimize
DUST

Project start date: 9-15-2021

Project end date: 9-15-2021

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-17-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 9-24-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 9260

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 20 Sq Ft

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:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

BMPs were implemented at all times
EXOTIC VEGETATION REMOVED WAS TOBACCO TREES

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

N/A

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-17-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 9-24-21

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

Mechanical machinery used to clear
vegetation was done during daylight
hours in compliance with local noise
ordinance

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

Comments/Revisions:

BMP were implemented at all times
and no weekend work was done

Completed by: Name: Andy O'Callaghan
Marty Lemus #269380

Title: PWCL Date: 9-17-2021

Approved by: Name: _____

Title: FCS Date: 9-24-21

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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. 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:

Select vegetation was removed All PPE were
used All BMP's were in place
BACK HOE was used to remove heavy brush

- 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 dust to report

Project start date: 9-30-2021

Project end date: _____

Completed by: Name: James Young Title: PWCL Date: 9-30-2021

Approved by: Name: Jose Morillo Title: P.C.S. Date: 9/30/21

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:

All work was done in Day time hr

- 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 was done

Completed by: Name: James Yarnel

Title: AWCL Date: 9-30-2021

Approved by: Name: Jose Munillo

Title: P.C.C.S. Date: 9/30/21

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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. 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:

20ft vegetation removal by hand BACK HOE used
to remove brush and 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:

No dust to report

Project start date: 9-30-2021

Project end date: _____

Completed by: Name: James Young Title: PWCL Date: 9-30-2021

Approved by: Name: Jose Merrill Title: F.C.C.S. Date: 9/30/2021

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

All work was Done Daytime hr

- 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 was Done

Completed by: Name: James Toyaf

Title: PWCC Date: 9-30-2021

Approved by: Name: Jon Morillo

Title: F.C.C.S. Date: 9/30/2021

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Wo # 7383534

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 Clearing of Vegetation
WITH IN APPROVED PERMIT 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.)

Comments/Revisions:

MILD WIND

Project start date: 10-13-2021

Project end date: 10-13-2021

Completed by: Name: Andy O'Callaghan Title: PWCC Date: 10-14-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-19-21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 3.010

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

Location/Channel Reach#: **Reach No. 82 Santa Clara River** T.G.: 4550 - D1
Main Channel (PD 2278)

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:

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:

- | | |
|--|--|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input checked="" type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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: N/A

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: AND O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-19-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 82 Santa Clara River
Main Channel (PD 2278)**

T.G.: 4550 - D1

Permit Requirements:

Channel clearing work will involve mechanically removing all vegetation within 20 feet from the toe of the concrete levee along the entire reach.

Future maintenance activities shall involve mechanical means and shall not extend more than 20 feet beyond the toe of the levee, impacts within this reach shall not exceed 0.40 acre.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT
HOURS IN COMPLIANCE WITH LOCAL
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 10-14-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-19-21

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WO# 7383561

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 86 Violin Canyon M.C.O.** T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Clearing of soft bottom outlet reach 86. Debrushed and
grading performed by D-6 Bulldozer and 963c track loader
with two 6x6 4,000 gal. water trucks for dust control.

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

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

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

Comments/Revisions:

All erosions filled and compacted. Grading done to
ensure proper water flow.

Project start date: 9-27-2021

Project end date: 9-28-2021

Completed by: Name: Francisco Mayorga Title: Crew leader Date: 9-28-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 9-30-2021

wo# 7383561

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 47.86

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0

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:

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

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

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

Comments/Revisions:

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Biologist survey conducted prior to work start.

Completed by: Name: Francisco Mayorga Title: crew leader Date: 9-28-2021
 Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 9-30-2021

WO# 7383561

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 86 Violin Canyon M.C.O.** T.G.: 4369 - J7

Permit Requirements:

Mechanical equipment will be used to maintain the reach clear of all vegetation.

The vegetation (0.41 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

Clearing of soft bottom outlet reach 86. Debrushed and
grading performed by D-6 bulldozer and 963c track loader
with two 6x6 4,000 Gal. water trucks for dust control.

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

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

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

Comments/Revisions:

All equipment used to clear reach No. 86 were equipped
with proper muffler systems to comply with
Los Angeles County noise ordinances

Completed by: Name: Francisco Mayorga

Title: crew leader Date: 9-28-2021

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 9-30-2021

7383566

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 7.26

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 20 Ft

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:

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

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

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

Comments/Revisions:

CASTOR BEAN 20FT REMOVED BUMP S WERE IN PLACE AT ALL TIMES

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

REACH WAS PRE SURVEYED BY BIOLOGIST
ALL PERMITS APPROVED

Completed by: Name: James Young

Title: POWCL Date: 9-22-2021

Approved by: Name: Jose Morillo

Title: FCOS Date: 9/23/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 TOOLS WERE USED TO CUT ALL
VEGETATION ALL PPE WERE IN PLACE
ALL BUMP S WERE IN AT ALL TIMES

- 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 DUST CONDITION TO REPORT

Project start date: 9-22-2021 Project end date: _____

Completed by: Name: JAMES MURPHY Title: AWCL Date: 9-22-2021

Approved by: Name: Jorge Munillo Title: FGCS Date: 9/23/2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

All work was done in the day time
hours.

- 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:

Bump were in place at all
Time
No weekend work was done

Completed by: Name: James Young

Title: POCC Date: 9-22-2021

Approved by: Name: Jose Muriel

Title: F.C.C.S. Date: 9/23/2021

Wo # 7383664

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

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 88 Hasley Canyon Upper
(PD T1496)

T.G.: 4459 - C3

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 mechanical and hand clearing of all
vegetation within approved permit 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.)

Comments/Revisions:

MILDWIND CONDITIONS

Project start date: 9-30-21

Project end date: 9-30-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-5-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 290

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 10050

Location/Channel Reach#: **Reach No. 88 Hasley Canyon Upper**
(PD T1496)

tobacco
T.G.: 4459 - C3

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:

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> ESC52 Sand Bag Barriers |

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269360

Title: FCCS Date: 10-5-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 88 Hasley Canyon Upper
(PD T1496)**

T.G.: 4459 - C3

Permit Requirements: The channel clearing work will involve mechanical equipment to remove all vegetation from bank to bank from Sharp Road to 755 feet upstream. From 330 feet downstream of Sharp Road to Sharp Road, hand clearing will be done.

Impacts shall not exceed 0.42 acre (1085 linear feet by 17 feet wide).

Description of Activity/Method of Implementation:

ALL WORK DONE DURING DAYLIGHT HOURS
IN COMPLIANCE

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

Comments/Revisions:

NO WEEKEND WORK WAS DONE

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380

Title: PLCS Date: 10-5-21

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Work 7383664

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:

ALL clearing work will INVOLVE
HAND labor - The vegetation was
marked and not impacted

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

Comments/Revisions:

MILDWIND CONDITIONS

Project start date: 9-30-21

Project end date: 9-30-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380 Title: PCCS Date: 10-5-21

Work 7383664

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

Impact Issue: Hydrology and Water Quality Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 2550
Tabacco

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:

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

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

Comments/Revisions:

Water Truck on Site

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL

Date: 9-30-21

Approved by: Name: Marty Lemus #269380

Title: FECS

Date: 10-5-21

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

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:

HAND Clearing of all vegetation within
APPROVED Permit Limits, Water Truck
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.)

Comments/Revisions:

MILD WIND Trucks Tarpred at all times
DURING transportation of vegetation AND
trash to Landfill

Completed by: Name: ANDY O'Callaghan Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-5-21

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WO# 7383664

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 90 Hasley Canyon Lower
(North Fork RD T1496)**

T.G.: 4459-C3

Permit Requirements: *The channel clearing work will involve hand clearing and mechanized removal of vegetation. Portions of the channel bottom will be denuded of vegetation while leaving the earthen bank vegetated, clusters of mature growth in the channel bottom will remain to the level it was left in November 1997.*

The vegetation (0.19 acre) that was allowed to remain in 1997 shall not be impacted during future maintenance activities.

Description of Activity/Method of Implementation:

ALL WORK DONE DURING DAYLIGHT HOURS
IN COMPLIANCE WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

Project start date: 9-30-21

Project end date: 9-30-21

Completed by: Name: Andy Ocallaghan Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380 Title: Fees Date: 10-5-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 2550

Location/Channel Reach#: **Reach No. 90 Hasley Canyon Lower**
(North Fork RD T1496)

Tobacco
T.G.: 4459-C3

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:

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

ESC1 Scheduling

ESC2 Preservation of Existing Vegetation

ESC21 Dust Control

ESC22 Temporary Stream Crossing

ESC31 Temporary Drains and Swales

ESC50 Silt Fence

ESC51 Straw Bale Barriers

ESC52 Sand Bag Barriers

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

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

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

Comments/Revisions:

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan

Title: PWCL Date: 9-30-21

Approved by: Name: Marty Lemus #269380

Title: FCS Date: 10-5-21

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 90 Hasley Canyon Lower
(North Fork RD T1496)**

T.G.: 4459-C3

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:

Mechanical and Hand Clearing of
Vegetation within approved Permit Limits
Water Trucks on Site to spray water
as needed to minimize dust

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

Comments/Revisions:

MILD WIND

Completed by: Name: Andy O'Callaghan
Approved by: Name: Marty Lemus #269380

Title: PWCL Date: 9-30-21
Title: FCS Date: 10-5-21

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WO 7383461

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 91 San Martinez Chiquito T.G.: 4459-A6 TO B6
U/S of Keningston Rd**

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

HAND clearing was used to remove
Vegetation WITH IN the PIPE AND WIRE

- 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

Project start date: 10-1-21

Project end date: 10-4-21

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-6-21

WD 7383461

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 3.30
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 25 SQ
Location/Channel Reach#: **Reach No. 91 San Martinez Chiquito** T.G.: 4459-A6 TO B6
U/S of Keningston Rd Tobacco

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

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

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

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

Comments/Revisions:

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-6-21

WD 7383461

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 91 San Martinez Chiquito U/S of Keningston Rd** T.G.: 4459-A6 TO B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL WORK CONDUCTED DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-6-21

WD # 7383461

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

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 92 San Martinez Chiquito T.G.: 4459-A6 TO B6
Unnamed tributary U/S of Keningston Rd

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Hand labor used to remove
Vegetation within the pipe and wire
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.)

Comments/Revisions:

MILD WIND

Project start date: 10-1-2021

Project end date: 10-4-2021

Completed by: Name: Andy Ocallagan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269350 Title: FCCS Date: 10-6-21

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 2550
Tobacco

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:

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
- ESC21 Dust Control
- ESC31 Temporary Drains and Swales
- ESC51 Straw Bale Barriers
- ESC2 Preservation of Existing Vegetation
- ESC22 Temporary Stream Crossing
- ESC50 Silt Fence
- 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 WEEKEND WORK CONDUCTED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions: _____

Completed by: Name: Andy O'Callahan Title: PW/CL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-6-21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

Hand labor was used to remove
vegetation within in the pipe and wire
water truck was 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:

MILD WIND

Completed by: Name: Andy O'Callaghan

Marty Lemus #209399

Title: PWCL Date: 10-5-2021

Approved by: Name: _____

Title: fcs Date: 10-6-21

WO 7383461

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

Impact Issue: Air Quality

Mitigation Measure #: 1

Location/Channel Reach #: Reach No. 93 San Martinez Chiquito
Keningston Rd to Val Verde Park

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

ALL work was Done USING Hand
labor to remove vegetation within
the pipe and wire

- 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

Project start date: 10-1-2021

Project end date: 10-4-2021

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 10-6-21

WD 7383461

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 1.9
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0
Location/Channel Reach#: **Reach No. 93 San Martinez Chiquito** T.G.: 4459 - B6
Kenington 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:

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
- ESC21 Dust Control
- ESC31 Temporary Drains and Swales
- ESC51 Straw Bale Barriers
- ESC2 Preservation of Existing Vegetation
- ESC22 Temporary Stream Crossing
- ESC50 Silt Fence
- 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 WEEKEND WORK WAS CONDUCTED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Andy Ocallaghan Title: PWCL Date: 10-5-2021
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-6-21

WD 7383461

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 93 San Martinez Chiquito
Kenington Rd to Val Verde Park**

T.G.: 4459 - B6

Permit Requirements:

The channel clearing work will involve removal of all the vegetation within the pipe and wire channel using hand labor, but the embankment vegetation will be left in place.

Description of Activity/Method of Implementation:

Hand labor was used to remove
Vegetation within the pipe and wire
Left vegetation was left in place
on embankment

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

Completed by: Name: Andy OCallagan

Title: PWCL Date: 10-5-21

Approved by: Name: Marty [Signature] 69380

Title: FCS Date: 10-6-21

WO# 7383461

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

HAND labor was used to remove
Vegetation within the pipe wire
Water TRUCK 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:

MILD WIND

Project start date: 10-1-2021

Project end date: 10-4-2021

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-6-21

WO 7383461

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

Impact Issue: Hydrology and Water Quality

Trash/Debris Removed (Tons) 2.70

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 1050
Tabacco

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:

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
- ESC21 Dust Control
- ESC31 Temporary Drains and Swales
- ESC51 Straw Bale Barriers
- ESC2 Preservation of Existing Vegetation
- ESC22 Temporary Stream Crossing
- ESC50 Silt Fence
- 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 WEEKEND WORK CONDUCTED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions: _____

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021
Approved by: Name: Marty Lemus #269380 Title: FCS Date: 10-6-21

WD 7383461

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 CONDUCTED DURING Daylight
HOURS IN COMPLIANCE with local
NOISE ORDINANCE

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

Comments/Revisions:

NO WEEKEND WORK CONDUCTED

Completed by: Name: Andy O'Callaghan Title: PWCL Date: 10-5-2021
Marty Lemus #269350

Approved by: Name: _____ Title: FCS Date: 10-6-21

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

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:

WEED EATERS, HEDGE TRIMMERS, AND POLE SAW WITH APPROVED EXHAUST WERE USED TO REMOVE ALL VEGETATION. DUST KEPT 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: 10/5/21

Project end date: 10/22/21

Completed by: Name: RYAN MURILLO Title: CREW LEADER Date: 10/22/21

Approved by: Name: LUIS MONTES DE OCA Title: FCCS Date: 10/25/21

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.) 0

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:

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:

- | | |
|---|---|
| <input type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE PLACED AT END OF REACH
BEFORE JOB STARTED

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Morillo

Title: CREW LEADER Date: 10/22/21

Approved by: Name: LUIS MONTES DE OCA

Title: FCLCS Date: 10/25/21

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

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:

WEED EATERS, HEDGE TRIMMERS, AND POLESAW HAVE STATE
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:

NO WORK STARTED BEFORE 8:00AM, SO NOT TO DISTURB
NEIGHBORS.

Completed by: Name: Ryan Morillo

Title: CREW LEADER Date: 10/22/21

Approved by: Name: LUIS MONTES DE OCA

Title: FCCS Date: 10/25/21

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name DRY CYN CHANNEL (CATABRAS) PD 1591
 Reach Number # 96

Date	Air	H2O	Noise	Comment	Initial
10/5/21	✓	✓	✓	STRAW BALE AT THE END OF REACH WAS PLACED BEFORE WORK STARTED	RM
10/12/21	✓	✓	✓		RM
10/13/21	✓	✓	✓		RM
10/14/21	✓	✓	✓		RM
10/15/21	✓	✓	✓		RM
10/16/21	✓	✓	✓		RM
10/18/21	✓	✓	✓		RM
10/19/21	✓	✓	✓		RM
10/20/21	✓	✓	✓		RM
10/21/21	✓	✓	✓		RM
10/22/22	✓	✓	✓	Completed	RM

Wof# 7383281

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

MECHANICAL AND SOME HAND CLEARING OF ALL VEGETATION
WITHIN 20' LIMIT. WATER TRUCK WAS USED TO MINIMIZED
DUST AS WELL TO PREVENT FIRE, WATER TRUCK REMAINED ON SITE
AND SPRAYED WATER AS NEEDED.

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

Comments/Revisions:

NONE -

Project start date: 11-03-2021

Project end date: 11-04-2021

Completed by: Name: EMILIO NIEVES-ORDONEZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: FCCS Date: 11-5-2021

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

Impact Issue: **Hydrology and Water Quality**

Trash/Debris Removed (Tons) 0

Mitigation Measure #: 2

Exotic Veg. Removed (Sq. Ft.) 50
TAMARISK

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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

NONE

Biologist on site: No Yes

Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NIBES-ORDONEZ

Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380

Title: FCCS Date: 11-5-2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH
LOCAL WORK ORDINANCES, ALL EQUIPMENT 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/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 11-03-2021

Approved by: Name: Marty Lemus #269380 Title: FCS Date: 11-5-2021

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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: Mitigation measure has been implemented. No further action is required.
- Mitigation measure is not 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: 10-1-21

Project end date: 11-1-21

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

**LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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 Walnut Creek - Channel Inlet** T.G.: **599-E6**

Permit Requirements:

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

Description of Activity/Method of Implementation:

Water was present at the site and water quality sampling was conducted before, during, and after our work at the site. The clearing takes place at the transition from a natural stream to a hard bottom stream. Water ponds just upstream of the concrete lined channel headwall. BMP's were installed just downstream to catch any cuttings or debris that may wash down as a result of our efforts. All clearing work in this reach was carried out by hand. During the work, water quality was monitored upstream, downstream, and within the work area.

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

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

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

Comments/Revisions:

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

Biologist on site: No Yes

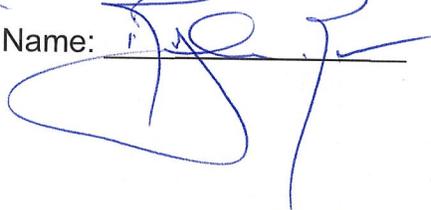
Date: _____

Biologist Comments/Instructions:

None

Completed by: Name: Nik Reppuhn

Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name: 

Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Noise**

Mitigation Measure #: 3

Location/Channel Reach#: **Reach No. 98 Walnut Creek - Channel Inlet** T.G.: **599-E6**

Permit Requirements:

There are no permit requirements requiring mitigation of noise.

Description of Activity/Method of Implementation:

No mitigation of noise efforts were undertaken, however noise was not an issue on this clearing project because everything was removed by hand crews and no equipment was utilized. During our operation we received no complaint calls from adjacent businesses or homeowners due to noise, dust or any other nuisance.

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

Comments/Revisions:

None

Completed by: Name: Nik Reppuhn Title: Assoc. Civil Engr. Date: 6-15-2022

Approved by: Name:  Title: Civil Engr Date: 6-29-2022

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

Impact Issue: **Air Quality**

Mitigation Measure #: 1

Location/Channel Reach #: **Reach No. 99 Kagel Canyon**

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:

CUTTING AND REMOVING vegetation in line with water flow. Pruning over grown bushes and over hanging trees. Crews are using hedgers, weed whiper, Loppers, machettes and other smaller 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:

Some gas power motors maybe used in some areas of the reach.
for example 2 cycle motorized weed whipers and hedgers.

Project start date: 09-17-2021

Project end date: 10/01/2021

Completed by: Name: Gonzalo Delgadillo Title: FCCS Date: _____

Approved by: Name: Denny Hernandez Title: CS Date: 11/15/21

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 6.78

Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) N/A

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:

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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input checked="" type="checkbox"/> 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's are used throughout the reach to hold back cut vegetation.
All cut and dead vegetation is picked up and removed

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Biologist not need due to no water at the beginning of
THE REACH 99

Completed by: Name: Gonzalo Delgadillo Title: FCCS Date: 10/05/21

Approved by: Name: Benny Hernandez Title: CS Date: 4/15/21

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM
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:

crews cut and cleared vegetation using hand tools.
start time was at 8am to keep noise levels down
for residents in the area

- 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 equipment (weed whippers, hedge trimmers) were stored away
in county vehicles when not in use.

Completed by: Name: Gonzalo Delgado

Title: FBCS Date: 10/05/21

Approved by: Name: Denny Miramon

Title: CS Date: 4/15/24

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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.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:

ALL WORK WAS DONE USING HAND AND POWER TOOLS. POWER TOOLS CONSISTING OF WEED EATERS, HEDGE TRIMMERS AND POLE SAW. ALL POWER TOOLS ARE FITTED WITH APPROVED EXHAUST.

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

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

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

Comments/Revisions:

Project start date: 1/10/22

Project end date: 1/10/22

Completed by: Name: Ryan Murillo Title: CREW LEADER Date: 1/10/22

Approved by: Name: MONTES DE OCA Title: FCCS Date: 1/11/22

LOS ANGELES COUNTY CHANNEL MAINTENANCE PROJECT
MITIGATION MONITORING PROGRAM

Compliance Verification Form

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) .76
Mitigation Measure #: 2 Exotic Veg. Removed (Sq. Ft.) 0
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:

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:

- | | |
|---|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input type="checkbox"/> ESC21 Dust Control | <input type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input checked="" type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:

STRAW BALE WAS PLACED AT END OF REACH

Biologist on site: Yes No Date: _____

Biologist Comments/Instructions:

Completed by: Name: Ryan Muirillo

Title: CREW LEADER Date: 11/10/22

Approved by: Name: MONTES DE OCA

Title: FCCS Date: 11/11/22

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:

APPROVED MUFFLERS ARE FITTED ON ALL POWER TOOLS USED SUCH AS, WEED EATERS, HEDGE TRIMMERS AND POLE SAWS. WORK WAS STARTED AFTER 8:00AM SO NEIGHBORS WERE 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 Murillo

Title: CREW LEADER Date: 1/10/22

Approved by: Name: HONTES DE O

Title: FCCS Date: 1/11/22

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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. 108 – Pico Canyon Channel – PD 2528
T.G.: 4640-C1 to C7**

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

MECHANICAL AND HAND CLEARING OF ALL VEGETATION WITHIN 20' LIMIT.
WATER TRUCK SPRAYED WATER PRIOR TO VEGETATION REMOVAL TO MINIMIZE DUST.
WATER TRUCK REMAINED ON SITE AND WAS USED AS NEEDED

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

Comments/Revisions:

NONE

Project start date: 11-16-2021

Project end date: 12/3/2021

Completed by: Name: EMILIO NILES-ORDONEZ Title: PWCL Date: 11-16-2021

Approved by: Name: MARTY LEMUS Title: FCCS Date: 12/13/2021

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

Impact Issue: **Hydrology and Water Quality** Trash/Debris Removed (Tons) 0

Mitigation Measure #: **2** Exotic Veg. Removed (Sq. Ft.) 100

Location/Channel Reach #: **Reach No. 108 – Pico Canyon Channel – PD 2528
T.G.: 4640-C1 to C7**

Permit Requirements:
The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:
Due to hydrological conditions in the reach during the vegetation clearing operations, the following Best Management Practices were deemed to be applicable and were implemented:

- | | |
|--|---|
| <input checked="" type="checkbox"/> ESC1 Scheduling | <input type="checkbox"/> ESC2 Preservation of Existing Vegetation |
| <input checked="" type="checkbox"/> ESC21 Dust Control | <input checked="" type="checkbox"/> ESC22 Temporary Stream Crossing |
| <input type="checkbox"/> ESC31 Temporary Drains and Swales | <input type="checkbox"/> ESC50 Silt Fence |
| <input type="checkbox"/> ESC51 Straw Bale Barriers | <input type="checkbox"/> 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:
NONE

Biologist on site: No Yes Date: _____

Biologist Comments/Instructions:

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 11-16-2021
Approved by: Name: MARTY LEMUS Title: FCCS Date: 12/14/2021

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

Impact Issue: **Noise**

Mitigation Measure #: **3**

Location/Channel Reach #: **Reach No. 108 – Pico Canyon Channel – PD 2528
T.G.: 4640-C1 to C7**

Permit Requirements:

The channel clearing work will involve removing all the vegetation within the channel using hand tools and mechanical equipment.

Description of Activity/Method of Implementation:

WORK DONE DURING DAYLIGHT HOURS IN COMPLIANCE WITH LOCAL NOISE ORDINANCES.

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

Comments/Revisions:

NONE

Completed by: Name: EMILIO NUNEZ-ORDONEZ Title: PWCL Date: 11/16/2021

Approved by: Name: MARTY LEMUS Title: FCS Date: 12/17/2021

Los Angeles County Channel Maintenance Project
 Mitigation Monitoring Program

Reach Name Pico Canyon Channel

Reach Number 108

Date	Air	H2O	Noise	Comment	Initial
11-16-2021	✓	✓	✓	100 SF TOBACCO PLANTS REMOVED	ENO
11-17-2021	✓	✓	✓	NONE	
11-18-2021	✓	✓	✓	NONE	
11-19-2021	✓	✓	✓	NONE	
11-22-2021	✓	✓	✓	NONE	
11-23-2021	✓	✓	✓	NONE	
11-24-2021	✓	✓	✓	NONE	
11-24-2021	✓	✓	✓	NONE	
11-30-2021	✓	✓	✓	NONE	
12-01-2021	✓	✓	✓	NONE	
12-02-2021	✓	✓	✓	NONE	
12-03-2021	✓	✓	✓	NONE	

LOS ANGELES COUNTY SOFT BOTTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 11/15/21

Project End Date: 11/23/21

Completed by:

Name:	<u>M. Stephenson</u>
Title:	<u>Construction Superintendent</u>
Date:	<u>6-2-22</u>

Approved by:

Name:	<u>Eden Berhan</u> JAC
Title:	<u>Senior Civil Engineer</u>
Date:	<u>6/29/2022</u>

LOS ANGELES COUNTY SOFT BOTTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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	7

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 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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:

Approved by:

Name:	<i>M. Stephenson</i>
Title:	<i>Construction Supervisor</i>
Date:	<i>6-2-22</i>

Name:	<i>Edna Berhan Jeffers</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

JRC

LOS ANGELES COUNTY SOFT BOTTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>M. Stephenson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>6-2-22</i>

Approved by:

Name:	<i>Eder Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

The annual maintenance activities (from PCH to Seaside St) shall include the mechanical removal of accumulated debris, mowing of vegetation growing on the banks and stream bed, and in-kind structural repair to restore facility to as-built condition. Weeds and grasses may be controlled by mowing or hand labor. No herbicide will be used and decontamination of all tools and equipment prior to entering and exiting the Reach is required.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Generation of dust was kept at a minimum during vegetation removal. Water trucks were used for dust suppression when appropriate.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 11/01/21

Project End Date: 11/11/21

Completed by:

Name:	Jeanne Winston
Title:	PCCS
Date:	6/28/2022

Approved by:

Name:	Edem Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	28

Permit Requirements:

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

Description of Activity/Method of Implementation:

Water sampling was conducted "before, during and after" during all clearing activity. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. All equipment was washed before leaving the site. The following Best Management Practices 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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:

Approved by:

Name:	Jeremy Winston
Title:	FCCS
Date:	6/28/2022

Name:	Eder Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

JAC

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 114 (Los Angeles River)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along the Los Angeles River. Vegetation was removed by hand tools and mechanical equipment, which included mowing and removal of Arundo and Castor Bean along invert and side slopes. A contractor (Oakridge) was used to do side slope work on the Left Bank. Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>Joey Dunston</i>
Title:	<i>FCC-3</i>
Date:	<i>6/28/2022</i>

Approved by:

Name:	<i>Eden Berhan</i> <i>JAC</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

See Attached Daily Field Logs.

Project Start Date: 10/04/21

Project End Date: 12/06/22

Completed by: *EB*

Name:	<i>Benjamin B. Limosnero</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/28/2022</i>

Approved by: *YH*

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 115 (San Gabriel River)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	172

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. 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Biologist on Site: Yes

Date on Site: During site activity

Comments/Revisions:

Work was done avoiding water. Water Quality Sampling results provided in Annual Report. Biologist ensured staying above OHWL and implantation of Turtle Mitigation Plan.

Completed by:

Approved by:

Name:	<i>Bernard B. Limson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>06/29/2022</i>

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

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. 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.

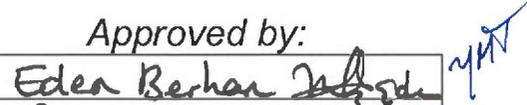
Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by: 

Name:	Benjamin Rodriguez
Title:	Planting & Maintenance Superintendent
Date:	06/29/2022

Approved by: 

Name:	Eden Berhan
Title:	Senior Civil Engineer
Date:	6/29/2022

Los Angeles County SBCC Maintenance Project

Mitigation Monitoring Program 2021 - 2022

Location: San Gabriel River

Reach: 115

15.21

Date	Air	H2O	Noise	Comment	Initials
10-4-21	Moderate	clearly	Moderate	no issues clear for work	MC
10-12-21	Moderate	Muddy	Moderate	no issues clear for work 1/2 day	MC
10-13-21	Satisfactory	Muddy	Moderate	no issues clear for work	MC
10-14-21	Satisfactory	Muddy	Moderate	no issues clear for work	MC
10-18-21	Satisf	clear	mod	no pictures use 10-14-21 & 10-19-21	MC
10-19-21	Sats	clear	mod	no issues clear for work	MC
10-20-21	Satisfactory	clear	mod	no issues clear for work	MC
10-21-21	Satisfactory	clear	mod	no issues clear for work	MC
10-				Ricardo	
10-27	Moderate	Muddy	Moderate	no issues clear for work	MC
11-2-21				Ricardo	
11-3-21	glummy	Muddy	Moderate	no issues clear for work	MC
11-9-21	Moderate	clear	Moderate	no issues clear for work	MC
11-10-21	Moderate	clear	mod	no issues clear for work	MC
11-15-21	Moderate	clear	mod	no issues clear for work	MC
11-16-21	Moderate	clear	mod	no issues clear for work	MC
11-17-21	Moderate	clear	mod	no issues clear for work	MC
11-18-21	glummy	clear	Moderate	no issues clear for work	MC

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Air Quality
Mitigation Measure No:	1

Permit Requirements:

Maintenance activity for these channels include vegetation removal by hand using hand tools such as weed eaters, hedge trimmers chainsaws, hoes, loppers, machetes, and a rubber-tracked skid steer as necessary. Minor deficiencies discovered will be repaired including filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structure, and other miscellaneous items encountered. A two-striped garter snake relocation plan is required, and biological monitoring is required on-site daily during project activity.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2022-23 (pending permit). Minimal dust was generated during vegetation removal.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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: 09/27/21

Project End Date: 10/23/21

Completed by:

Name:	W. Stephenson W. Stephenson
Title:	Construction Superintendent
Date:	6-2-22

Approved by:

Name:	Eder Berhan <i>JAC</i>
Title:	Senior Civil Engineer
Date:	6/29/2022

LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Hydrology and Water Quality
Mitigation Measure No:	2
Tons Trash/Debris Removed	75

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's (RWQCB) requirements for flowing water. 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 2022-23 (pending permit). All equipment and hand tools were cleaned before leaving the site. BMP's were implemented to maintain water quality. The following Best Management Practices 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:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	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:

A two-striped garter snake relocation plan was implemented. See Annual Report by Psomas for findings.

Completed by:

Approved by:

Name:	<i>M. Stephenson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>6-28-22</i>

Name:	<i>Eden Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

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LOS ANGELES COUNTY SOFT BOTTOM CHANNEL MAINTENANCE 2021-2022 MITIGATION MONITORING PROGRAM

Compliance Verification Form

Location/Channel Reach	Reach No. 118 and 119 (Rustic and Rivas Channels)
Impact Issue:	Noise
Mitigation Measure No:	3

Permit Requirements:

There are no permit requirements requiring mitigation of noise levels.

Description of Activity/Method of Implementation:

Proper vegetation removal methods were conducted along Rustic and Rivas Channels. Vegetation and shrubs were removed using hand tools and a rubber tracked skid steer. Channel repairs will be conducted in 2021-22 (pending permit). Activity in the reach maintained moderate noise levels during the daily working hours (Mon-Sat, 7am-4pm). Hand crews and equipment did not have any significant noise problems and we received no complaints from businesses or homeowners.

Disposition:

<input checked="" type="checkbox"/>	Mitigation measure has been implemented. No future action is required.
<input type="checkbox"/>	Mitigation measure is not fully implemented. Further action is required. (Please explain below)
<input type="checkbox"/>	The mitigation measure is not in compliance. Further action is required. (Please explain below)

Comments/Revisions:

Completed by:

Name:	<i>W. Stephenson</i>
Title:	<i>Construction Superintendent</i>
Date:	<i>6-2-22</i>

Approved by:

Name:	<i>Edan Berhan</i>
Title:	<i>Senior Civil Engineer</i>
Date:	<i>6/29/2022</i>

JSC

Los Angeles County Channel Maintenance Project

Mitigation Monitoring Program

Reach Name RIVAS & RUSTIC

Reach Number 118 & 119

DATE	AIR	H2O	NOISE	COMMENT	INITIAL
9-27-21	Good	N/A	Moderate	Preparing access road for vehicles as we get ready for soft bottom clearing	RN
9-28-21	Good	N/A	Moderate	Prepping access road and staging area needed for soft bottom	RN
9-29-21	Good	N/A	Moderate	Prepping access road and staging area	RN
9-30-21	Good	N/A	Moderate	Continuing preparations	RN
10-1-21	Good	N/A	Moderate	Continuation of access road and staging area preparation	RN
10-4-21	Good	N/A	Moderate	Storage container for power tools and portable restrooms arrived today	RN
10-5-21	Good	N/A	Moderate	Beginning vegetation removal in channels at sunset, water sample employee came but no flowing water, biologist cleared area, 11 employees to begin, 3 10yrd trucks and 1 5yrd truck removed with vegetation	RN
10-6-21	Good	N/A	Moderate	Continue at rustic/rivas, biologist cleared, 11 employees cutting and removing vegetation	RN
10-7-21	Good	N/A	Moderate	Same as previous day, 10 employees cutting and removing vegetation	RN
10-8-21	Good	N/A	Moderate	9 employees including fleet came in on overtime to continue vegetation removal, biologist cleared area	RN
10-9-21	Good	N/A	Moderate	12 employees including Road and Fleet came in on overtime to continue vegetation removal, biologist did a sweep of the area	RN

10-12-21	Good	Good	Moderate	12 employees to continue rustic, moved to another location on Brooktree RD	RN
10-13-21	Good	Good	Moderate	10 employees to continue rustic and Brooktree RD	RN
10-14-21	Good	Good	Moderate	9 employees to continue rustic, moved to new location at Hightree RD, removed temp fence, spoke with homeowners	RN
10-15-21	Good	Good	Moderate	10 employees on Overtime to continue Rustic	RN
10-16-21	Good	Good	Moderate	8 employees including Road to continue Rustic SBC	RN
10-18-21	Good	Good	Moderate	9 employees to continue rustic and new location at Hightree RD	RN
10-19-21	Good	Good	Moderate	8 employees to continue vegetation removal	RN
10-20-21	Good	Good	Moderate	10 employees to continue vegetation removal	RN
10-21-21	Good	Good	Moderate	8 employees to continue rustic at last location on E Rustic RD, spoke to residents about agreed upon vegetation removal	RN
10-22-21	Good	Good	Moderate	5 employees came in on Overtime to continue vegetation removal,	RN
10-23-21	Good	Good	Moderate	3 employees came in on Overtime to do final walkthrough of rustic and rivas, scheduling is needed for pickup of storage container and restrooms	RN

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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: 1

Special Permit Conditions (list):

Hand Clearing only. The operator shall not impact the 0.27 acre of vegetation to remain in 1997.

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; Riparian herb and vernal vegetation in area maintained; some Castor Bean present.

Name of Biological Monitor: Steve Morin Date: August 23, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 2

Special Permit Conditions (list):

Operator shall not impact the 0.39 acre of vegetation allowed to remain in 1997. Hand Clearing only. Width of clearing shall not exceed 20 FT. Native Trees with a DBH of 3 inches or greater shall not 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.)

Photos 1, 2, 3; Riparian herb and ruderal vegetation in area maintained; A variety of ornamental vegetation present, most not a problem, but some ground cover are invasives.

Name of Biological Monitor: Steve Morde Date: August 23, 2021

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; Willow and sycamore, but also some ornamental trees and shrubs.

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 Morde Date: December 4, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 3

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.)

Photos 22, 23; Ruderal vegetation dominates the area maintained;
Small Castor Bean present.

Name of Biological Monitor: Steve Morin Date: August 23, 2021

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; Coast Live oaks and Eucalyptus.

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 Morin Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 4

Special Permit Conditions (list):

No special permit conditions pertain 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 20, 21; Riparian herb, including willows less than 1 year old, and riparian vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris

Date: August 23, 2021

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 7, 8; a mix of ornamental and native trees and shrubs outside channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris

Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 5

Special Permit Conditions (list):

Hand clearing only. Exotics shall be removed during maintenance activities. The vegetation allowed to remain in 1997 shall not be impacted by future 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.)

Photos 9, 10, 11; Riparian herb dominated by cattails in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulton Date: August 23, 2021

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 21, 22, 23; Willow riparian.

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 Moulton Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 6

Special Permit Conditions (list):

Hand Clearing only. Exotics shall be removed. Vegetation allowed to remain in 1987 shall not be impacted by future 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.)

Photos 12, 13; Riparian herb, Willow branches, and ruderal vegetation in area maintained; dune area not a problem.

Name of Biological Monitor: Steve Mark Date: August 23, 2021

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 24, 25; Willows, Coast Live Oaks, and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mark Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 7

Special Permit Conditions (list):

Special permit conditions for least bell's vireo (LBU) apply. ACOE/City of Los Angeles restoration project in 2008 changed the existing conditions for this reach.

Observation of Special Status Species: None

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 1-3; Show a few small willow & cotton wood saplings located along the banks of the reach within the rip rap. Most of the riparian scrub is located on the reach sediment, which has grown over the years. Some small willows & cotton woods are on the edge of the reach with a thick stand of cattails in the center of the reach. Some trash & evidence of homeless encampments.

Name of Biological Monitor: Lindsay Messett Date: 08/26/21

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 & cotton woods remain in channel. Non-native & other herbaceous vegetation removed from channel

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 11/18/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

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.)

Photos 14, 15; Riparian herb and ruderal vegetation in area maintained; Invasives not a problem.

Name of Biological Monitor: Steve Mule Date: August 23, 2021

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 26, 27; Adjacent ornamental trees "overhang" the reach somewhat.

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 Mule Date: January 29, 2022

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 clearing only. deposits shall not exceed 0.12 acre.

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 29,30; some natural vegetation in area maintained, invasives not a problem.

Name of Biological Monitor: Steve Morin Date: August 23, 2021

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; Non-native Ash Trees.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 10

Special Permit Conditions (list):

No work done in 1997. Operator shall not impact the 2.11 acres of
vegetation allowed to remain in 1997. (It was left alone due to a
Toxic spill.

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 16, 17, 18, 19; Riparian herb and ruderal vegetation in area meditated;
Washington Palms, as well as some ornamental trees, growing in rip-reef
at upper end of reach.

Name of Biological Monitor: Steve Moris Date: August 23, 2021

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. (There is no protected
vegetation in this reach, such as old willow, etc).

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 Moris Date: March 19, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 12

Special Permit Conditions (list):

Hand clearing only. Special permit conditions for Santa Ana sucker (SAS) 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; hand clearing of cattails an non-native species such as castor bean. Invasives not an issue at this reach.

Name of Biological Monitor: _____ Date: Aug. 12, 2021

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 - willow woodland. Cattails, mustard, ash, and fig trees remain.

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: Trenor Bristol Date: 5/5/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 13

Special Permit Conditions (list):

No special permit conditions 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; mostly unvegetated, invasives not a problem. Established equestrian trail in upper portion of reach.

Name of Biological Monitor: Sarah Thomas Date: Aug. 24, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2 - Alluvial sage scrub surrounding reach. Invasives not a problem.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Brink Date: Feb. 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 15

Special Permit Conditions (list):

operator shall not impact the 0.01 acre vegetation allowed to remain in 1997.

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 24, 25, 26, 27, 28; Riparian herb and ruderal vegetation in area maintained; invasives not a problem, but large amount of trash throughout the reach due to local homeless population.

Name of Biological Monitor: Steve Mork Date: August 23, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4, 5, 6, 7, 8; No vegetation allowed to remain in channel except small patch (0.01 acre) at downstream 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):

Name of Biological Monitor: Steve Mork Date: November 14, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 16

Special Permit Conditions (list):

Hand Clearing only. Impacts shall not exceed 0.07 acre.

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 13, 14; sparse reed bed vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulis Date: August 16, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 9, 10; oak woodland at upstream 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):

Name of Biological Monitor: Steve Moulis Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 18

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.)

Photos 10, 11, 12; Ruderal Vegetation in area maintained; Tree-of-Heaven on right bank just upstream of entrance bridge to Campfire Stream.

Name of Biological Monitor: Steve Morillo

Date: August 16, 2021

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 11, 12, 13; Chaparral, Coast Live oak, and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morillo

Date: February 7, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 19

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.)
Photos 1, 2; Ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morla Date: August 16, 2021

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 and some chaparral and/or alluvial sage scrub on right bank.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morla Date: March 11, 2022

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):

Impacts shall not exceed 0.13 acre (115 FT Linear by 50 FT wide).

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 8, 9; Federal and ornamental vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morin Date: August 16, 2021

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 8, 9; oak woodland and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: March 11, 2022

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 Clearing only. Impact shall not exceed 0.03 acre.

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 6, 7; Ruderel and ornamental vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulis Date: August 16, 2021

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 6, 7; oak woodland and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moulis Date: March 11, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 22

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.)

Photos 3, 4, 5; sparse growth of ruderal vegetation in area maintained; invasive not a problem.

Name of Biological Monitor: Steve Mork Date: August 16, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4, 5; Mix of ornamental vegetation from adjacent homes with some sycamore, and oaks.

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 Mork Date: March 11, 2022

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 conditions pertain to this reach, but the general terms and conditions of the permits 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; Riparian herb and ruderal vegetation in area maintained; some Castor Bean present.

Name of Biological Monitor: Steve Moulth Date: August 15, 2021

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; some reed beds in the middle of low-flow channel at upstream end of reach, 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: Steve Moulth Date: November 28, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 25 East & West

Special Permit Conditions (list):

Operator shall not impact the 9.37 acres of vegetation allowed to remain in 1997. (NOTE: the ACOE removed much of the 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.)

Photos 1, 2, 3, 4, 5 (EAST BANK) & 6, 7, 8, 9, 10 (WEST BANK); Primarily natural growth in area maintained; Arundo and Castor Bean present.

Name of Biological Monitor: Steve Muth Date: August 20, 2021

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 (East Bank) & 6, 7, 8, 9, 10 (West Bank); some reed beds near edge of east bank at lower end of reach and large willows on east bank. 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: Steve Muth Date: December 12, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 26

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.)

Photos 1, 2, 3, 4, 5, 6; Ruderal vegetation and riparian herb, along with ornamental vegetation in area maintained; Castor Bean present.

Name of Biological Monitor: Steve Mark Date: August 15, 2021

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; willows and ornamental trees (Mostly ash trees). Some reed beds in center of channel at downstream 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):

Name of Biological Monitor: Steve Mark Date: November 7, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 27

Special Permit Conditions (list):

Current management plan includes full clearing of
invert, trimming of vegetation on banks, trees up to 3 feet
above ground. Island vegetation is protected.

Observation of Special Status Species: N/A (LBU Reach)

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 1-5: Invert has dense cattails and other
herbaceous vegetation. Banks have shrubs, herbaceous veg
and native trees.

Name of Biological Monitor: Lindsay Messett Date: 8/27/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5: willow riparian habitat. Shrubs and trees on
the banks were trimmed and herbaceous vegetation was mowed.
Vegetation on the island wasn't touched. Cattails and herbaceous veg
at invert was removed but is growing back. The reach is inundated
at water throughout the entire 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: Lindsay Messett Date: 1/11/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 28

Special Permit Conditions (list):

Hand Clearing only. Operator shall avoid impacts on Southwestern Pond Turtle. Clearing shall not extend beyond area cleared in 1997. No native Trees with a DBH of 2 inches or 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.)

Photos 1, 2, 3; Primarily riparian vegetation in area maintained, but some riparian herb under bridge; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 21, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4, 5; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: January 29, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 29

Special Permit Conditions (list):

*Hand clearing only. Operator shall avoid impacts to southwater Pond
Turtle. Operator shall not impact the 0.61 acre of vegetation allowed
to remain in 1997. No native trees with a DBH of 2 inches or 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.)

*Photos 24, 25, 26; Riparian herb and sednal vegetation in area
maintained; churva not a problem.*

Name of Biological Monitor: Steve Merrill Date: August 21, 2021

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 15, 16, 17; Willows and grassland/sednal field.

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 Merrill Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 32

Special Permit Conditions (list):

Hand Clearing only. No vegetation was allowed to remain in 1997.

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 15, 16, 17, 18; Riparian herb and residual vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Mork Date: August 21, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 4, 5, 6, 7; Chaparral, oaks, and some ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Mork Date: December 4, 2021

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 33

Special Permit Conditions (list):

The maintenance activities performed for this reach include lollyopping Willow Trees, removal of exotic/non-native vegetation, and removal of debris and Trash.

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 12,13,14; Willow upland Forest and freshwater marsh habitat; Invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 21, 2021

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; Mostly Willow with some reed beds in channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: March 12, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 35

Special Permit Conditions (list):

Hand Clearing only. Impacts shall not exceed 0.14 acre. No native trees with a DBH of 2 inches or greater shall be removed. Much of the vegetation has been cleared due to ongoing bridge work under route 101.

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 8, 9; Riparian herb and reed vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulton Date: August 21, 2021

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 8, 9; A few shrubs and small trees. (olive & sycamore). Most of the vegetation was removed due to ongoing bridge work.

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 Moulton Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 36

Special Permit Conditions (list):

Hand Clearing only. operator shall not impact the 0.05 acre of vegetation allowed to remain in 1997.

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 10, 11; sparse natural vegetation in area maintained, but there is a fallen willow branch. invasive not a problem.

Name of Biological Monitor: Steve Morde Date: August 21, 2021

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 10, 11; willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morde Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 37

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future 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.)

Photos 6, 7; Riparian herb and meadow vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulh Date: August 21, 2021

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 6, 7; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moulh Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 38

Special Permit Conditions (list):

Hand Clearing only. Impacts shall not exceed 0.19 acre.
No native trees with a DBH of 2 inches or 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.)

Photos 4,5; Riparian herb and ruderal vegetation in area maintained;
invasives not a problem.

Name of Biological Monitor: Steve Muth Date: August 21, 2021

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; Willows and grassland.

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 Muth Date: January 29, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 39

Special Permit Conditions (list):

Special Permit conditions for Santa Ana Sucker (SAS) & Least Bell's Vireo (LBV)

Observation of Special Status Species: N/A

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 1-4: Some Willows, Cattails & other herbaceous vegetation can be seen in channel. Channel has standing water w/algae.

Name of Biological Monitor: Jack Underwood Date: 8/30/22

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 mulefat on right bank. Alluvial sage scrub next to left bank across road/staging 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: Travor Bristle Date: Feb. 15, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 40 A

Special Permit Conditions (list):

Santa Fe Dam to 210 Fwy: Hand & mechanical clearing 10FT. From toe of levee & 75 FT wide are cleared in alternate years.

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; dense grasses, Mule Plant, castor bean. Sparse tree cover. Vegetation type was a majority CSS.

Name of Biological Monitor: Jack Underwood Date: 08/20/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-5; Some grasses & other herbaceous vegetation remaining. Invasives removed completely.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 05/26/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 406

Special Permit Conditions (list):

I-10 FWY TO Thiens Ave: protect vegetation allowed to remain in 1997
Special permit conditions for least Bell's vireo (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, 6, 7, 8, 9, 10, 11, 12 consist of dense grasses
and other herbaceous (non-native) vegetation. Willows & oaks found
along southern end of reach. Arundo & castor bean present

Name of Biological Monitor: Jack Underwood Date: 08/20/21

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 1-12; Willows 3 Mule Fat remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 05/26/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 41

Special Permit Conditions (list):

No special permit conditions pertain 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; Riparian herb and reedbed vegetation in area maintained;
Palms and Castor Bean present.

Name of Biological Monitor: Steve Morille Date: August 19, 2021

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.

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 Morille Date: December 20, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 42

Special Permit Conditions (list):

No special permit conditions pertain 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 4, 5, 6; Riparian herb and ruderal vegetation in area maintained;
Numerous large Castor Bean present.

Name of Biological Monitor: Steve Morin Date: August 19, 2021

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.

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 Morin Date: February 16, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 43 a

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Species permit conditions per least Bell's viced 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 dense grasses, herbaceous vegetation (non-native) weeds in maintained areas. Arundo & castor bean present on site.

Name of Biological Monitor: Jack Underwood Date: 08/23/21

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; primarily willows & mule fat. Some ornamental ash, & Eucalyptus; arundo removed. No pesticides used.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/20/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 43b

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Species permits for least Bell's Vireo (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 1-4; mostly grasses & herbaceous vegetation / non-native vegetation in areas maintained. Castor bean is present.

Name of Biological Monitor: JACK Underwood

Date: 8/23/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1-4; Willows & Mule Fat remain along toe 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:

JACK Underwood

Date:

2/15/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 44

Special Permit Conditions (list):

Maintenance activities shall not go beyond areas cleared in 1997. Vegetation allowed to remain in 1997 shall not be impacted by future 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.)

Name of Biological Monitor: Jack Underwood Date: 08/23/21

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 & Mule fat remain. Herbaceous weeds, & castor bean 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: Jack Underwood Date: 10/28/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 47

Special Permit Conditions (list):

Clearing shall not occur more than 20 ft. beyond toe of levee. Special permit conditions for unarmed tricuspid stickleback (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.)

Primarily unvegetated in area maintained but side outlets contain herbaceous vegetation, including weedy grasses.

Name of Biological Monitor: Erin Ruckman Date: 8/23/21

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 - 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):

Name of Biological Monitor: Trevor Bristol Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 48

Special Permit Conditions (list):

No special permit conditions pertain 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.)

At southwest end of reach, mostly free of vegetation except Tree Tobacco and Tree of Heaven. Northeast end of reach contains mix of riparian vegetation including tamarisk, cattail, and tree tobacco.

Name of Biological Monitor: Erin Ruckman Date: 8/23/21

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 w/ some palms at culvert. Southwest end mostly free of vegetation, some tree tobacco present on 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: Trevor Bristle Date: 1/20/22

Biological Resources Monitoring Form

Reach Number: 49

Special Permit Conditions (list):

No special permit conditions pertain 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.)

Unvegetated in areas maintained.
Invasives not a problem.

Name of Biological Monitor: Erin Ruckman Date: 8/23/21

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 - Minor herbaceous vegetation on edges of invert.
Otherwise unvegetated in maintained areas.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 50

Special Permit Conditions (list):

No special permit conditions pertain 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.)

This channel reach is under construction and expected to be removed soon from the list of soft-bottom channels maintained by the LA County Flood Control District. South end of reach is unvegetated. North end is sparsely vegetated w/ weedy riparian sp. including cattail and tree tobacco.

Name of Biological Monitor: Erin Ruckman Date: 8/23/21

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):

No longer a maintained SBC.

Name of Biological Monitor: _____ Date: _____

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 51

Special Permit Conditions (list):

Clearing shall not occur more than 20 ft beyond toe of levee. Special permit conditions for 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.)

Very sparse growth of vegetation in area maintained. Invasives not a problem.

Name of Biological Monitor: Erin Ruckman Date: 8/28/21

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: _____ Date: _____

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 52

Special Permit Conditions (list):

Hand clearing only. Impacts shall not exceed .04 acre.

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.)

- Developed -

Name of Biological Monitor:

Erin Ruckman

Date:

August 23, 2021

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):

No longer a maintained SBC.

Name of Biological Monitor:

Date:

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 53

Special Permit Conditions (list):

No special permit conditions pertain 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.)

Invasives not a problem, trash debris at site, homeless encampment.

Name of Biological Monitor: Erin Ruckman Date: 8/28/21

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:

Photos 1, 2 - sparse herbaceous vegetation along toe of banks. Some ponded water. Encampment present.

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 54

Special Permit Conditions (list):

Impacts shall not exceed .31 acre. Special permit conditions for UTS - Unarmored Threespine Stickleback 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.)

Riparian vegetation present including willow and cottonwood saplings. Invasives include tree tobacco and tamarisk.

Name of Biological Monitor: Erin Ruckman Date: 8/28/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2 - channel unvegetated w/ small amount of herbaceous vegetation on banks. Some flowing water.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 55

Special Permit Conditions (list):

Clearing shall not occur >20ft beyond toe of
levee. Special permit conditions apply for
unarmored threespine for 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 1-8; mostly unvegetated except for at the
outflow structures where weeds (non-native
mostly) accumulate due to runoff water.
Invasives not a problem at this reach.

Name of Biological Monitor: Sarah Thomas Date: Aug. 27, 2021

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 1-3 - Alluvial sage scrub vegetation with braided
sandy/pebble stream bed.

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: Trew Bostle Date: Feb. 11, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 56

Special Permit Conditions (list):

Clearing shall not occur 220ft beyond toe of slope.
Special permit conditions for unarmored threespine
stickleback 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; primarily unvegetated in area maintained
invasives not a problem here.

Name of Biological Monitor: Sarah Thomas Date: Aug. 27, 2021

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 habitat.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bortle Date: Feb. 11, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 57

Special Permit Conditions (list):

No special permit conditions 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; Moderate cover of herbaceous (native and non-native) cover in the downstream end of this reach. Invasives are not an issue at this reach.

Name of Biological Monitor: Sarah Thomas Date: Aug. 27, 2021

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 yards with ornamental vegetation

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: Feb. 11, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 58

Special Permit Conditions (list):

Clearing shall not occur >20ft from toe of levee.
Special permit conditions apply for unarmored
stickleback apply at 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 1-5; sparse growth of herbaceous vegetation
in area maintained. Invasives not a problem at this
reach.

Name of Biological Monitor: Sarah Date: Aug. 27, 2021

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 - 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):

Name of Biological Monitor: Trevor Bristle Date: Feb. 11, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 60

Special Permit Conditions (list):

Clearing shall not occur 720 feet from the toe of the levee. Special permit conditions apply for unarmored threespine stickleback at 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 native vegetation (with some non-native vegetation occurring at the outflow structures), in area maintained. Invasives not an issue at this reach.

Name of Biological Monitor: Sarah Thomas Date: Aug. 27, 2021

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):

Name of Biological Monitor: Trevor Bristle Date: Feb. 11, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 61 (including former reach 62)

Special Permit Conditions (list):

Clearing shall not occur more than 20ft beyond toe of levee. Special Permit conditions for unarmored threespine stickleback (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 1,2,3,4,5,6; Sparse growth of herbaceous & alluvial sage scrub vegetation in area that is maintained. Invasives are not an issue.

Name of Biological Monitor: Jack Underwood Date: 08/30/21

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; Alluvial Sage Scrub w/ scattered 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: Jack Underwood Date: 12/9/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 63

Special Permit Conditions (list):

Impacts shall not exceed 0.85 acres. Special Permit required. Unarmored
Threespine stickleback (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 vegetation in area maintained. Invasives are not
an issue.

Name of Biological Monitor: Jack Underwood Date: 08/30/21

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; Some sparse alluvial sage scrub remaining with cottonwoods
scattered nearby.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 12/9/21

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 64

Special Permit Conditions (list):

Impacts shall not exceed 0.10 acres. Special Permit required For
unarmored +reespine stickleback (UTS)

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; herbaceous vegetation including non-native grasses,
mule fat, cattails & willow saplings

Name of Biological Monitor: Jack Underwood Date: 08/30/21

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, mule fat & cotton woods remain as well as an
ornamental tree.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 12/9/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 66

Special Permit Conditions (list):

Clearing shall not occur >20ft from toe of levee.
Special permit conditions apply for unarmored
threespine stickleback at 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; Mostly unvegetated in area maintained
except for herbaceous vegetation localized at
out-fall structure. Invasives are not a problem at
this reach.

Name of Biological Monitor: Sarah Thomas Date: Aug. 12, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1,2 - Alluvial sage scrub vegetation including mudflat
and a cotton wood

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: Feb. 14, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 67

Special Permit Conditions (list):

Special Permit conditions for Unarmored threespine stickleback (UTS)
apply for 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; alternative sides of the levee cleared annually. Vegetation
consists of Riparian scrub, cottonwoods, mulch, some tamarisk & arundo. (only a
couple of arundo individuals were seen).

Name of Biological Monitor: Jack Underwood Date: 08/27/21

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; One year strip of herbaceous/riparian (willows) vegetation
on left side 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: Jack Underwood Date: 10/05/21

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 69

Special Permit Conditions (list):

SPECIAL PERMIT FOR UNARMED THREESPINE STICKLEBACK (UTS) APPLY FOR THIS REACH

Observation of Special Status Species: BAT COLONY ROOSTING UNDER URBAN DALE BRIDGE.

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; ALTERNATIVE HALVES CLEARED ANNUALLY. VEGETATION CONSISTS OF RIPARIAN SCRUB; WILLOWS (SALIX EXIGUA), COTTONWOOD, MULLETT, SOME TAMARISK

Name of Biological Monitor: JACK UNDERWOOD Date: 08/27/21

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; ONE-YEAR OLD STRIP OF VEGETATION (HERBACIOUS & RIPARIAN) ON LEFT SIDE 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: JACK UNDERWOOD Date: 10/05/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 70

Special Permit Conditions (list):

SPECIAL PERMIT CONDITIONS FOR UNARMED THREESPINE STICKLEBACK APPLY FOR 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; ALTERNATING HALVES CLEARED ANNUALLY. INVASIVES NOT A PROBLEM.

Name of Biological Monitor: JACK UNDERWOOD Date: 08/27/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

PHOTOS 1, 2, 3, 4; ONE-YEAR GROWTH OF VEGETATION (HERBACIOUS) ON RIGHT OF INVERT WHITE LOOKING UPSTREAM.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK UNDERWOOD Date: 10/05/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 71

Special Permit Conditions (list):

Cleaning shall not occur beyond 20ft of the levee. Special permit conditions for unarmored threespine stickleback (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 herbaceous vegetation in maintained area. Some willows & cottonwoods present. Invasives not a problem.

Name of Biological Monitor: Jack Underwood Date: 08/17/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 2; alluvial sage scrub & a few cottonwoods remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 12/9/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 72

Special Permit Conditions (list):

No special permit conditions pertain 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.)

Herbaceous vegetation growth and several cottonwood saplings at mouth of reach. Tree of heaven also at mouth of reach.

Name of Biological Monitor: Erin Ruckman Date: Aug 25, 2021

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: _____ Date: _____

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 75/Orchard Village Dr. to Magic Mtn. Parkway

Special Permit Conditions (list):

The vegetation (15.37 acres) allowed to remain in 1997 shall not be impacted by future maintenance activities. (The protected vegetation is all between Magic Mountain Pkwy and Orchard Village Dr.)

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.)

Mostly unvegetated in areas maintained patch herbaceous vegetation otherwise. A few willow and cottonwood saplings at wet outlets. Invasives not a problem except for one small population of tree tobacco just north of Photo Point 4.

Name of Biological Monitor: Erin Ruckman Date: August 30, 2021

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.

All necessary vegetation removed. Willows & Cotton wood remain.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/05/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 75 (Lyons Ave to Orchard Village Dr.)

Special Permit Conditions (list):

The vegetation (15.37 acres) allowed to remain in 1997 shall not be impacted by future maintenance activities. (No vegetation allowed to remain between Lyons & Orchard Village Drive.)

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.)

Mix of cattails, willow saplings and herbaceous vegetation in area maintained. ~~no~~ Invasives not a problem.

Name of Biological Monitor: Erin Ruckman

Date: 8/30/21

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.

all necessary vegetation removed. willows & cottonwoods remain

Compliance with Permit Conditions:

Full

Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: JACK Underwood

Date: 10/05/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 76

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits 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 25, 26, 27; Rubus vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulis Date: August 25, 2021

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 22, 23, 24; All vegetation removed from channel.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moulis Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 77

Special Permit Conditions (list):

Vegetation (0.89 acre) allowed to remain in 1997 shall not be impacted by future 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.)

Photos 28, 29; Primarily unvegetated in area maintained, but a few residual species are present; invasives not a problem.

Name of Biological Monitor: Steve Munk Date: August 25, 2021

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 25, 26; some alluvial sage scrub vegetation at downstream end of reach (at confluence with Alhambra Creek - Reach 78), but otherwise bare dirt.

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 Munk Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 78

Special Permit Conditions (list):

Vegetation (0.89 acre) allowed to remain in 1997 shall not be
impacted by future 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.)

Photos 30, 31; Primarily unvegetated in area maintained; but a few
ruderal species are present; invasive not a problem.

Name of Biological Monitor: Steve Moritz Date: August 25, 2021

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 27, 28; alluvial vegetation on banks.

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 Moritz Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 79

Special Permit Conditions (list):

Vegetation allowed to remain in shall not be
impacted by future maintenance activities. Special permit
conditions for 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.)

Mostly unvegetated in area maintained. Small population
of Tree Tobacco.

Name of Biological Monitor:

Erin Ruckman

Date: 8/25/21

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 - Extremely sparse herbaceous vegetation. Minor
woody debris appears to have washed down.

Compliance with Permit Conditions:

Full

Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor:

Trevor Bristle

Date: 1/20/22

Biological Resources Monitoring Form

Reach Number: 80

Special Permit Conditions (list):

Clearing shall not occur more than 20 ft. beyond toe of levee. Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions for VTS 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.)

Sparse growth of vegetation in maintained area. Tree of heaven present.

Name of Biological Monitor: Erin Ruckman Date: 8/25/21

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, cottonwoods, mulefat, Great Basin sage brush. Unvegetated in 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: Trevor Bristle Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 82

Special Permit Conditions (list):

Clearing shall not extend more than 20ft beyond toe of levee. Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions for US 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.)

Cattails and herbaceous vegetation at mouth of side outlet but otherwise sparse (growth of herbaceous vegetation in area maintained). Invasives not a problem.

Name of Biological Monitor: Erin Ruckman Date: 8/28/21

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, cottonwoods, mulefat. Sparse herbaceous vegetation within 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: Trevor Bristle Date: 1/20/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 86

Special Permit Conditions (list):

Vegetation allowed to remain in 1997 shall not be impacted by future maintenance activities. Special permit conditions issued on 12/9/03 apply to this reach (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.)

Photos 6, 7, 8; Ruderal vegetation in low-flow channel maintained; invasives not a problem.

Name of Biological Monitor: Steve Monds Date: August 25, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4, 5; Willows and Cottonwoods in Certeis Creek at downstream 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):

Name of Biological Monitor: Steve Monds Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 87

Special Permit Conditions (list):

Special permit conditions issued on 12/09/03 apply to this reach
(Middleback - present in 2005 but not since).

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; Riparian herb and ruderal vegetation in area maintained;
Invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 25, 2021

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; Willows.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morik Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 88

Special Permit Conditions (list):

Impacts shall not exceed 0.42 acre (1,085 linear Ft by 17 Ft wide) by future 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.)

Photos 13, 14; sparse growth of reedbed vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 25, 2021

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 6, 7; sage scrub / alluvial sage 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: Steve Morris Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 89

Special Permit Conditions (list):

Vegetation (0.02 acre) allowed to remain in 1997 shall not be
impacted by future 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.)

Photo 9; very sparse growth of riparian vegetation in area maintained;
invasives not a problem.

Name of Biological Monitor: Steve Moul Date: August 25, 2021

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 8; alluvial sage scrub and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Moul Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 90

Special Permit Conditions (list):

*Vegetation (0.19 acre) allowed to remain in 1997 shall not be
impacted by future 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.)

*Photos 10, 11, 12; sparse growth of ruderal vegetation in area
maintained; invasives not a problem.*

Name of Biological Monitor: Steve Morley Date: August 25, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 9, 10, 11; alluvial sage scrub and/or alluvial sage 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: Steve Morley Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 91

Special Permit Conditions (list):

No special permit conditions apply to this reach, but the general conditions and measures of the permits apply.

Observation of Special Status Species: 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 21, 22; sparse growth of arundo vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Morris Date: August 25, 2021

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 14, 15; Ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 92

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits 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 23, 24; very sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve Moulh Date: August 25, 2021

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 16, 17; large scrub/alloved large 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: Steve Moulh Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 93

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits 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 19, 20; sparse growth of ruderal vegetation in area maintained; invasives not a problem.

Name of Biological Monitor: Steve North Date: August 28, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 12, 13; Oaks, Chaparral, and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve North Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 94

Special Permit Conditions (list):

No special permit conditions listed for this reach, but the general conditions and measures of the permits 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 15, 16, 17, 18; very sparse growth of riparian vegetation in area maintained; cholla not a problem.

Name of Biological Monitor: Steve Morris Date: August 25, 2021

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 18, 19, 20, 21; ornamental and riparian vegetation dominant, but some sage scrub/Chaparral 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: Steve Morris Date: November 3, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 95

Special Permit Conditions (list):

No special conditions apply to this reach.

Observation of Special Status Species:

None observed; potential Brown burrow

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 1-4; moderate growth of tumbleweeds in area maintained. Potential burrowing owl burrow in the access road.

Name of Biological Monitor:

Sarah Thomas

Date:

Aug. 24, 2021

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 - Unvegetated.

Compliance with Permit Conditions:

Full



Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor:

Trevor Bristle

Date:

Feb. 11, 2022

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 96

Special Permit Conditions (list):

Hand clearing only.

Observation of Special Status Species: No

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.)

Riparian herbaceous veg present on both sides of bridge. Flowing water. Large stand of Arundo on north side of bridge.

Name of Biological Monitor: Erin Ruckman Date: 8/24/2021

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 - some Arundo remains on N side of bridge.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (If more space is needed continue on the back of this form):

Name of Biological Monitor: Trevor Bristle Date: 5/5/22

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 97

Special Permit Conditions (list):

Operator shall not impact the vegetation (1.17 acres) allowed to remain in 1997. Special permit conditions issued on 12/9/03 apply to this reach (Mudflat - present in 2005, but not since).

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 3, 4, 5; Riparian herb and residual vegetation in area maintained; Invasives not a problem.

Name of Biological Monitor: Steve Morik Date: August 25, 2021

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; Willow, Cottonwood, and Mudflat.

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 Morik Date: November 14, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 98

Special Permit Conditions (list):

Impacts should not exceed 0.03 acres.

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.)

Vegetation that needs to be removed is primarily cattails & non-native grasses as well as some other herbaceous vegetation. (Photos 1, 2)

Name of Biological Monitor: Jack Underwood Date: 8/30/21

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; area is unvegetated. Date Palm tree has been 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: Jack Underwood Date: 12/21/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 99

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and manner of the permits 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 15, 16, 17, 18, 19, 20; Riparian herb, ornamental, willow branches and ruderal vegetation in area maintained; Arundo present and Tree-of-Heaven near Hazel Canyon Road Bridge.

Name of Biological Monitor: Steve Morley Date: August 16, 2021

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 9, 10, 11, 12, 13, 14; Mostly ornamental vegetation, but also some oaks, willows, and sycamores.

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 Morley Date: November 19, 2021

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 100

Special Permit Conditions (list):

No special permit conditions pertain to this reach, but the general conditions and measures of the permits 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 4, 5, 6; riparian herb, ornamental, and ruderal vegetation in area maintained; driveways not a problem.

Name of Biological Monitor: Steve Morris Date: August 23, 2021

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 18, 19, 20; willows, oaks, and ornamental vegetation

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morris Date: January 29, 2022

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 112

Special Permit Conditions (list):

No Special Permit conditions pertain to the upper section of this reach where work is now permitted

Observation of Special Status Species: None observed

Pre-Clearing Documentation

Pre-Monitoring Conditions – (briefly describe: Vegetation type, height of trees, invasive present & cover estimate. Attach photograph): List invasives present (Arundo, Castor Bean, Trash, etc.)

Photo 1; Upper section consists of bulrushes & cattails as well as herbaceous native & non-native vegetation in area maintained. Invasives were not an issue.

Name of Biological Monitor: Jack Underwood Date: 8/19/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photo 1; Native vegetation (ie. cattails & bulrushes) remains untouched in reach.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 12/7/21

County of Los Angeles Department of Public Works
Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 114

Special Permit Conditions (list):

No Special Permit conditions pertain 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, 6; Some low growing grasses & herbaceous vegetation persist on sediment banks at toe of left & right bank of levee between P.C.H & Anaheim St.

Name of Biological Monitor: Jack Underwood Date: 8/19/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 3, 4, 5; Show unvegetated slopes as herbaceous vegetation & invasives have been 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: Jack Underwood Date: 12/17/21

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 115

Special Permit Conditions (list):

clearing of vegetation on banks shall occur with avoidance measures implemented for avoiding impacts with green sea turtles & 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; both banks have a mix of ornamental trees & shrubs. The majority of dense vegetation is located upstream. The vegetation is less dense downstream. Some arundo & castor bean present.

Name of Biological Monitor: _____ Date: 08/19/21

Post-Clearing Documentation

Type of vegetation remaining adjacent to removal area (briefly describe, attach photograph, include arrows to indicate important features). Estimate amount of invasives removed.

Photos 1, 4, 5, 6, 7; Herbaceous & non-native vegetation removal completed on right (west) bank. LEFT (East) bank remains untouched w/ many ornamental shrubs & trees.

Compliance with Permit Conditions: Full Partial _____

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 12/23/22

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: Reach 118

Special Permit Conditions (list):

No special permits 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; dense Herbaceous vegetation in area maintained. Invasives are not an issue.

Name of Biological Monitor: Jack Underwood Date: 08/17/21

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; all vegetation has been removed from the channel. There is ornamental vegetation hanging over the channel, but it won't hinder any water flow.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/26/21

County of Los Angeles Department of Public Works

Flood Maintenance Division
Earth Bottom Channel Program

Biological Resources Monitoring Form

Reach Number: 119

Special Permit Conditions (list):

No special permit conditions 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; dense herbaceous vegetation in area maintained.
Invasives are not an issue.

Name of Biological Monitor: Jack Underwood Date: 08/19/21

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 channel. Some willows towards upper end of reach & some ornamental vegetation hang over the side of channel. Won't hinder any water flow.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Jack Underwood Date: 10/26/21

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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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January 6, 2022

Mr. Ahmet Tatlioglu
Los Angeles County Flood Control District
Stormwater Maintenance Division
900 South Fremont Avenue, Annex Building, 2nd Floor
Alhambra, California 91803-1331

VIA EMAIL
ATATLILIOGLU@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 Mr. Tatlioglu:

This Letter Report presents the results of biological monitoring of the 2021-2022 maintenance season, annual maintenance activities conducted by the Stormwater Maintenance Division (SWMD) of the Los Angeles County Flood Control District (LACFCD) at Soft-Bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) in the Community of Pacific Palisades, City of Los Angeles, California (hereinafter referred to as the “Project”).

PROJECT DESCRIPTION AND LOCATION

Soft-bottom Channel Reaches 118 (Rustic Canyon Channel) and 119 (Rivas Canyon Channel) were added to the LACFCD’s Long Term Lake or Streambed Alteration Agreement (LSAA) No. 1600-1999-0076-R5 for “Routine Maintenance of Earth Bottom Channels” per an amendment dated October 17, 2014. The maintenance plan for these two soft-bottom channel (SBC) reaches involves vegetation removal by hand tools and, as necessary, rubber-tracked skip loader or skid steer machines. Also permitted are minor repairs, under LSAA No. 1600-2014-0238-R5, such as filling small voids with onsite materials, repairing deficiencies in walls and/or support structures, and other miscellaneous items that may be encountered during the course of annual maintenance activities.

The Project is located within the coastal community of Pacific Palisades on the west side of the City of Los Angeles, California. SBC Reaches 118 and 119 are contiguous upper and lower segments of the Rustic/Rivas Canyon Creeks located south of Sunset Boulevard (Exhibit 1). SBC Reach 119 extends approximately 1,200 feet from Sunset Boulevard to its confluence with Rustic Canyon Channel (SBC Reach 118). SBC Reach 118 consists of a portion of Rustic Canyon Channel from the confluence with Rivas Canyon Creek downstream approximately 3,200 feet to Rustic Road, where the channel transitions to a concrete-lined storm drain. Project elevations range from approximately 190 to 275 feet above mean sea level (msl). The Project site is located within the Topanga U.S. Geological Survey’s (USGS’s) 7.5-minute quadrangle.

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Mr. Ahmet Tatlioglu
January 6, 2022
Page 2

METHODS

Biological clearance surveys were conducted for the two-striped garter snake (*Thamnophis hammondi*) and all wildlife species onsite during all days of maintenance activities by Psomas Biologists Sarah Thomas, Jack Underwood, Erin Ruckman, Trevor Bristle and Senior Biologists Marc Blain, Lindsay Messett, and Jonathan Aguayo. A total of twelve biological clearance surveys were conducted on October 5-8, 12-14, 17, 19-21, and 23, 2021. Weather conditions during the surveys included temperatures ranging from approximately 53 to 64 degrees Fahrenheit, with wind speeds ranging from 0 to 3 miles per hour, and zero to 100 percent cloud cover.

Clearance surveys were conducted prior to ground disturbing activities. The surveys were conducted early in the morning at areas planned for vegetation removal. The biologists thoroughly searched rock crevices, animal burrows, leaf litter, loose rocks, logs, and debris to determine if any wildlife species were present. If any wildlife species were observed during clearance surveys, the biological monitor was prepared to relocate animals to appropriate habitat a safe distance away from maintenance activities. All wildlife species observed onsite during clearance surveys were recorded in field notes. Photographs documenting Reach 118 and 119 before, during, and after maintenance monitoring are provided in Exhibits 2a, 2b, and 2c.

RESULTS

No sensitive plant or wildlife species were observed at the site before and during the maintenance of these facilities. No wildlife species were relocated for this project. A complete list of all wildlife species detected during the surveys is provided in Attachment A.

Psomas appreciates the opportunity to assist on this project. If you have any comments or questions, please call Marc Blain at (626) 351-2000.

Sincerely,

P S O M A S



Ann M. Johnston

Vice President, Resource Management

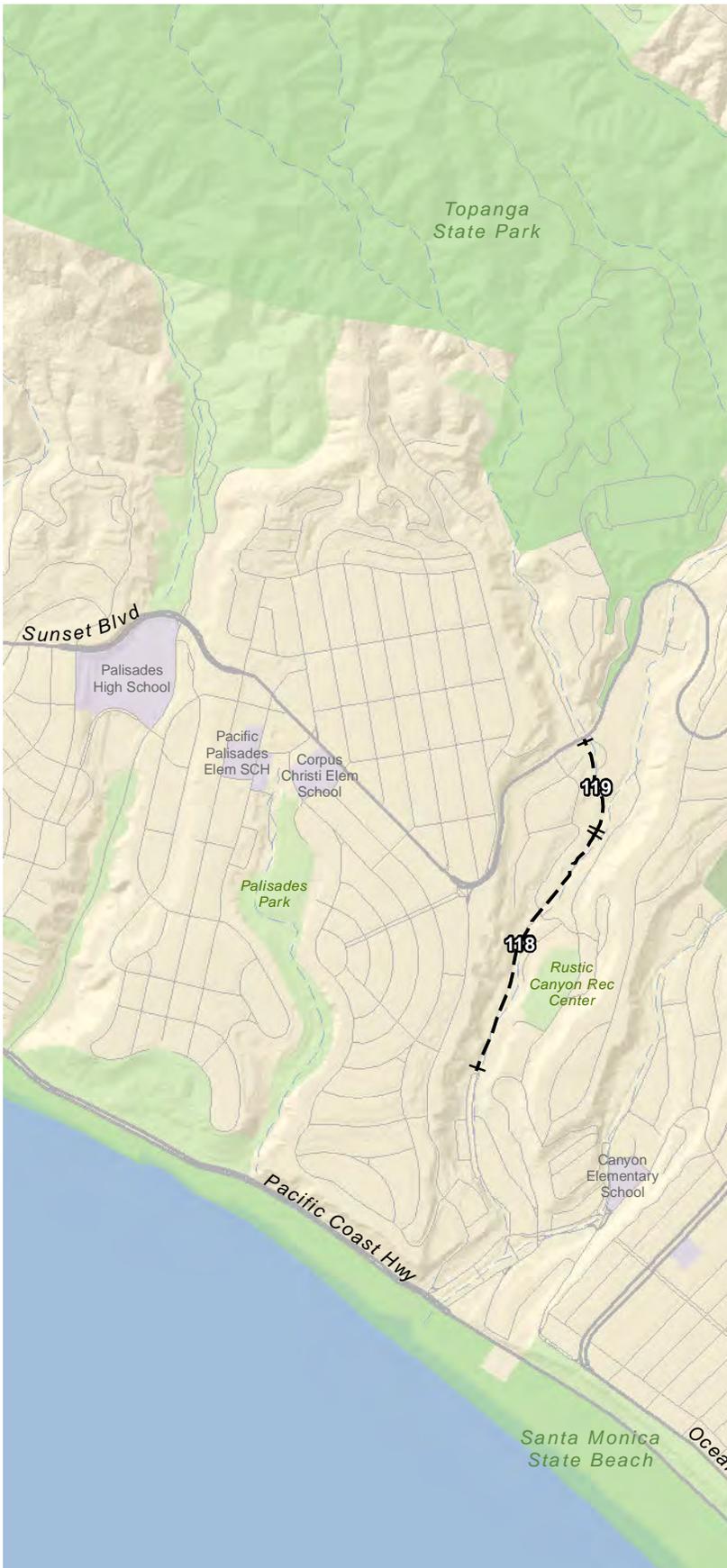


Marc T. Blain

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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Regional Location and Local Vicinity

Exhibit 1

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





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



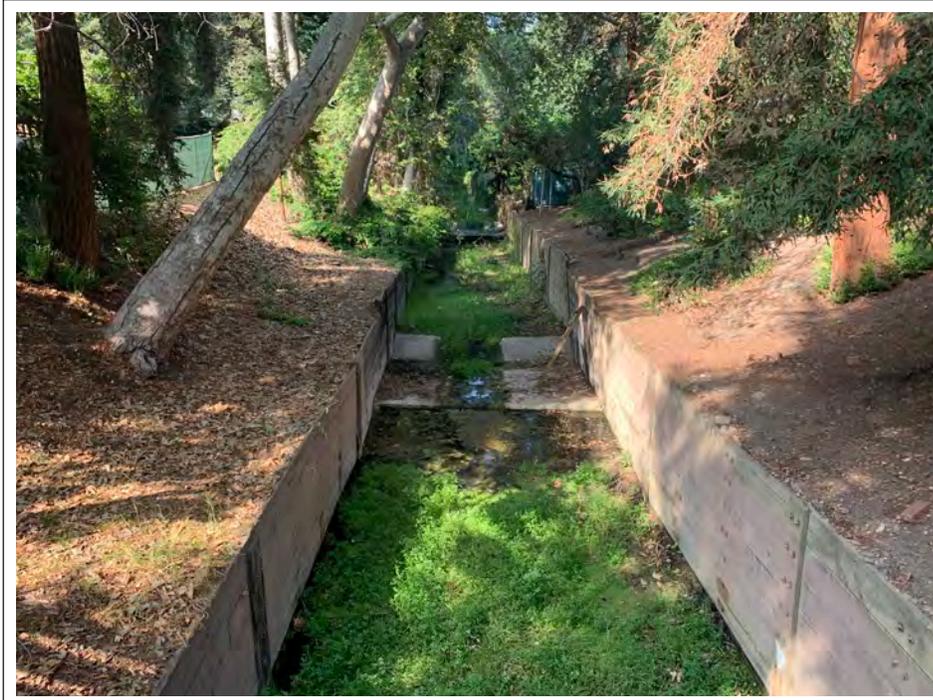
View of Reach 118 Rustic Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

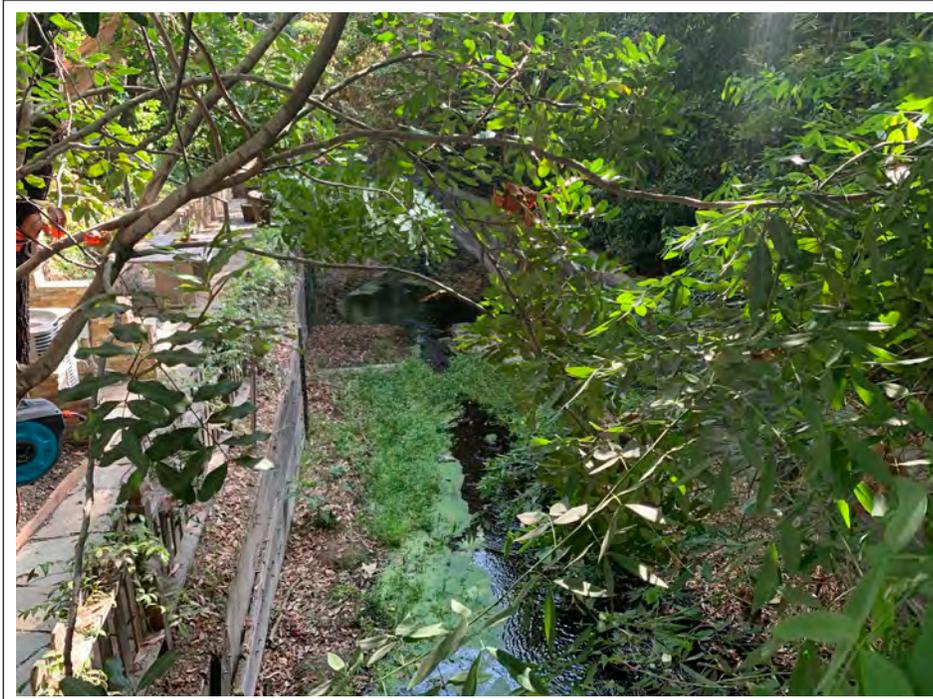
Exhibit 2a-1

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





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



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

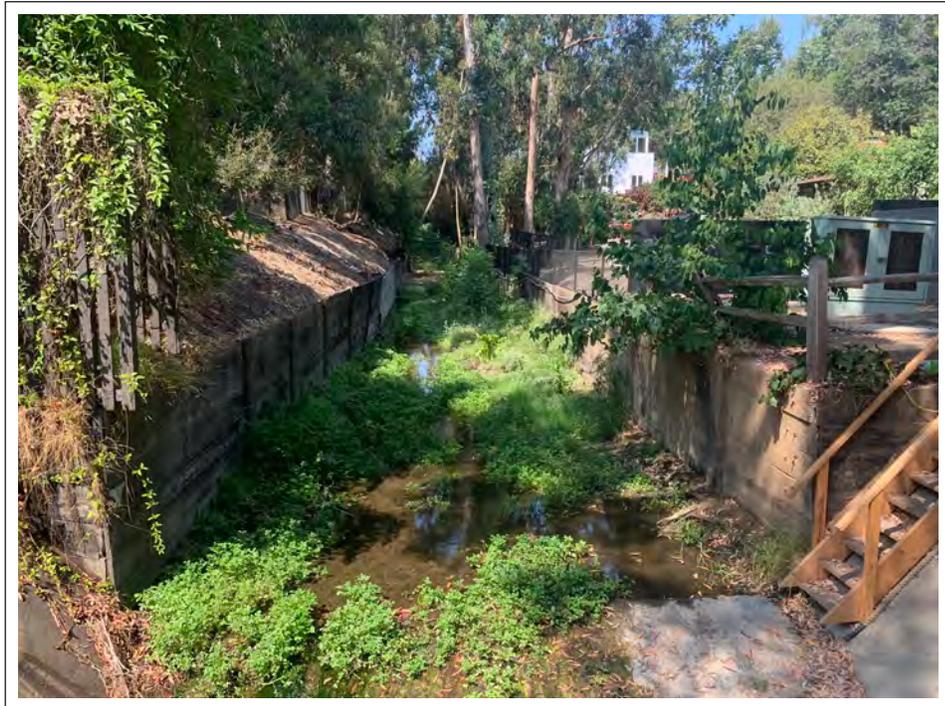
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Pre-monitoring Photos

Exhibit 2a-2

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





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



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-3

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





View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon before biological monitoring of vegetation removal.

Pre-monitoring Photos

Exhibit 2a-4

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

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





View of Reach 118-119 during biological monitoring of vegetation removal.



View of Reach 118-119 during biological monitoring of vegetation removal.

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Monitoring Photos

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

Exhibit 2b





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



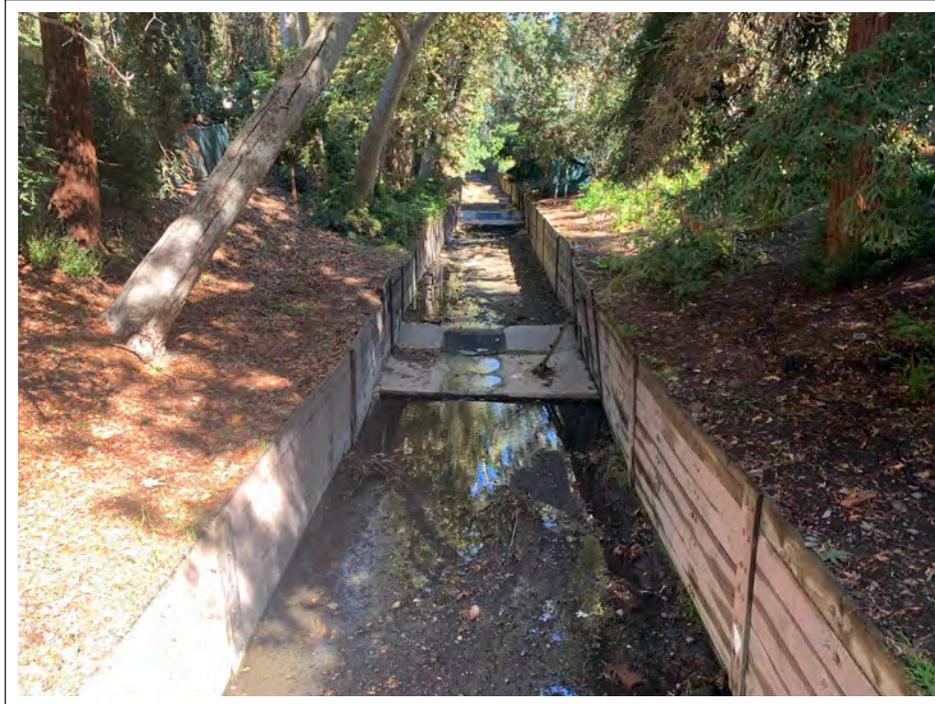
View of Reach 118 Rustic Canyon after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c-1

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.

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Post-monitoring Photos

Exhibit 2c-2

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





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



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c-3

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





View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.



View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c-4

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





View of Reach 119 Rivas Canyon after biological monitoring of vegetation removal.

Post-monitoring Photos

Exhibit 2c-5

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



ATTACHMENT A
WILDLIFE COMPENDIUM

WILDLIFE SPECIES DETECTED DURING THE SURVEYS

Species	
Scientific Name	Common Name
AMPHIBIANS	
HYLIDAE – TREEFROG FAMILY	
<i>Pseudacris hypochondriaca</i>	Baja California treefrog
BIRDS	
COLUMBIDAE – PIGEON AND DOVE FAMILY	
<i>Columba livia*</i>	rock pigeon
<i>Zenaida macroura</i>	mourning dove
TROCHILIDAE – HUMMINGBIRD FAMILY	
<i>Calypte anna</i>	Anna's hummingbird
<i>Selasphorus sasin</i>	Allen's hummingbird
ACCIPITRIDAE – HAWK FAMILY	
<i>Accipiter cooperii</i>	Cooper's hawk
<i>Buteo lineatus</i>	red-shouldered hawk
PICIDAE – WOODPECKER FAMILY	
<i>Melanerpes formicivorus</i>	acorn woodpecker
<i>Picoides nuttallii</i>	Nuttall's woodpecker
<i>Colaptes auratus</i>	northern flicker
TYRANNIDAE – TYRANT FLYCATCHER FAMILY	
<i>Sayornis nigricans</i>	black phoebe
CORVIDAE – JAY AND CROW FAMILY	
<i>Cyanocitta stelleri</i>	Steller's jay
<i>Aphelocoma californica</i>	California scrub-jay
<i>Corvus brachyrhynchos</i>	American crow
<i>Corvus corax</i>	common raven
PARIDAE – TITMOUSE FAMILY	
<i>Baeolophus inornatus</i>	oak titmouse
AEGITHALIDAE – BUSHTIT FAMILY	
<i>Psaltriparus minimus</i>	bushtit
SITTIDAE – NUTHATCH FAMILY	
<i>Sitta carolinensis</i>	white-breasted nuthatch
TROGLODYTIDAE – WREN FAMILY	
<i>Troglodytes aedon</i>	house wren
MIMIDAE – MOCKINGBIRD AND THRASHER FAMILY	
<i>Mimus polyglottos</i>	northern mockingbird
FRINGILLIDAE – FINCH FAMILY	
<i>Haemorhous mexicanus</i>	house finch
<i>Spinus psaltria</i>	lesser goldfinch
PASSERELLIDAE – NEW WORLD SPARROW FAMILY	
<i>Junco hyemalis</i>	dark-eyed junco
<i>Zonotrichia leucophrys</i>	white-crowned sparrow
<i>Melospiza melodia</i>	song sparrow
<i>Melospiza crissalis</i>	California towhee
<i>Pipilo maculatus</i>	spotted towhee

WILDLIFE SPECIES DETECTED DURING THE SURVEYS

Species	
Scientific Name	Common Name
PARULIDAE – WOOD-WARBLER FAMILY	
<i>Leiothlypis celata</i>	orange-crowned warbler
<i>Geothlypis trichas</i>	common yellowthroat
<i>Setophaga coronata</i>	yellow-rumped warbler
MAMMALS	
SCIURIDAE – SQUIRREL FAMILY	
<i>Sciurus griseus</i>	western gray squirrel
CERVIDAE – CERVID FAMILY	
<i>Odocoileus hemionus</i>	southern mule deer
* Non-native and invasive species	

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ATTACHMENT NO. 5
2021-22 SOFT-BOTTOM CHANNEL PRE- AND
POST-MAINTENANCE PHOTOS

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2021-2022 Soft Bottom Channels

Reach 1

Bell Creek — MTD 963 M.C.I.

Before Photos 8/23/21

After Photos 2/7/22



2021-2022 Soft Bottom Channels

Reach 2

Dry Canyon (Calabasas) P.D. T1845

Before Photos 8/23/21



2021-2022 Soft Bottom Channels

Reach 3

Santa Susana Creek M.C.I.

Before Photos 8/23/21



After Photos 2/7/22



2021-2022 Soft Bottom Channels

Reach 4

Browns Creek

Before Photos 8/23/21

After Photos 2/7/22



2021-2022 Soft Bottom Channels

Reach 5

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

Before Photos 8/23/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 6

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

Before Photos 8/23/21



After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 7

Bull Creek M.C.O.

Before Photo 8/27/21

After Photos 11/18/21



2021-2022 Soft Bottom Channels

Reach 8

Hayvenhurst Drain — Project 470 Outlet

Before Photos 8/23/21



After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 9

Project 106 Outlet

Before Photos 8/23/21

After Photos 2/7/22



2021-2022 Soft Bottom Channels

Reach 10

Project No. 469

Before Photos 8/23/21

After Photos 3/19/22



2021-2022 Soft Bottom Channels

Reach 10

Project No. 469

Before Photos 8/23/21



After Photos 3/19/22



2021-2022 Soft Bottom Channels

Reach 12

Before Photos 8/13/21



After Photos 5/5/22



2021-2022 Soft Bottom Channels

Reach 13

Project No. 5215 Unit 1

Before Photos 08/25/21



After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 14

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

Before Photos 08/25/21



After Photos 12/22/21



2021-2022 Soft Bottom Channels

Reach 15

Pacoima Wash

Before Photos 8/23/21

After Photos 11/14/21



2021-2022 Soft Bottom Channels

Reach 15

Pacoima Wash

Before Photos 8/23/21



After Photos 11/14/21



2021-2022 Soft Bottom Channels

Reach 16

Verdugo Wash — Las Barras Canyon (Channel Inlet)

Before Photos 8/16/21



After Photos 2/7/22



2021-2022 Soft Bottom Channels

Reach 18

Engleheard Channel

Before Photos 8/16/21

After Photos 1/14/22



2021-2022 Soft Bottom Channels

Reach 19

Pickens Canyon

Before Photos 8/16/21

After Photos 3/11/22



2021-2022 Soft Bottom Channels

Reach 20

Webber Channel (Storm at Private Bridge)

Before Photos 8/16/21

After Photos 3/11/22



2021-2022 Soft Bottom Channels

Reach 21

Webber Channel (Main Channel Inlet d/s Bridge)

Before Photos 8/16/21

After Photos 03/11/22



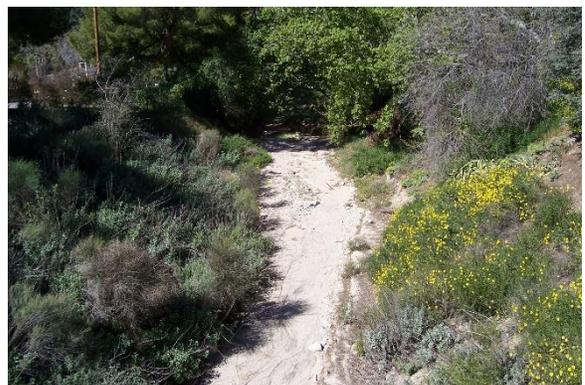
2021-2022 Soft Bottom Channels

Reach 22

Halls Canyon

Before Photos 8/16/21

After Photos 3/11/22



2021-2022 Soft Bottom Channels

Reach 24

Compton Creek

Before Photos 8/15/21

After Photos 11/28/21



2021-2022 Soft Bottom Channels

Reach 24

Compton Creek

Before Photos 8/15/21

After Photos 11/28/21



2021-2022 Soft Bottom Channels

Reach 25a

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

Before Photos 8/21/21



2021-2022 Soft Bottom Channels

Reach 25a

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

Before Photos 8/21/21



After Photos 12/12/21



2021-2022 Soft Bottom Channels

Reach 25b

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

Before Photos 8/21/21

After Photos 12/12/21



2021-2022 Soft Bottom Channels

Reach 25b

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

Before Photos 8/21/21



After Photos 12/12/21



20201-2022 Soft Bottom Channels

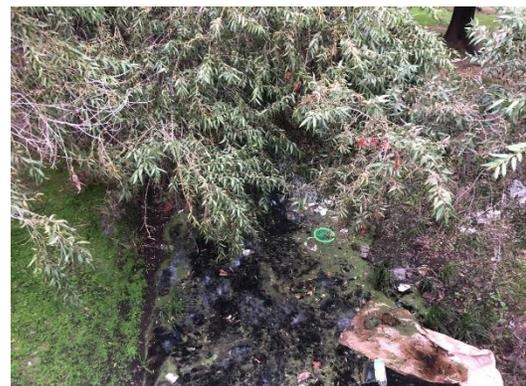
Reach 26

Project 740

Before Photos 8/15/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 26

Project 740

Before Photos 8/15/21



2021-2022 Soft Bottom Channels

Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/27/21

After Photos 1/11/22



2021-2022 Soft Bottom Channels

Reach 27

Wilmington Drain (110 Freeway to s/o PCH)

Before Photos 8/27/21

After Photos 1/11/22



2021-2022 Soft Bottom Channels

Reach 28

Triunfo Creek (P.D. T2200)

Before Photos 8/21/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 29

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

Before Photos 8/21/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/21/21

After Photos 12/4/21



2021-2022 Soft Bottom Channels

Reach 32

Stokes Canyon Channel (P.D. T043)

Before Photos 8/21/21



After Photos 12/4/21



2021-2022 Soft Bottom Channels

Reach 33

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

Before Photos 8/21/21

After Photos 3/12/22



2021-2022 Soft Bottom Channels

Reach 35

Medea Creek Main Channel Inlet — Under Route 101

Before Photos 8/21/21



After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 36

Cheseboro Main Channel Inlet

Before Photos 8/21/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 37

Medea Creek/Cheseboro Creek Outlet

Before Photos 8/21/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 38

Lindero Main Channel Outlet

Before Photos 8/21/21



After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/30/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 39

Beatty Channel Outlet at SGR 25+99.00

Before Photos 8/30/21



After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/25/21

After Photos 5/26/22



2021-2022 Soft Bottom Channels

Reach 40a

San Gabriel River — Santa Fe Dam to I-10 Freeway

Before Photos 8/25/21



After Photos 8/25/21



2021-2022 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/20/21

After Photos 5/26/22



2021-2022 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/20/21

After Photos 5/26/22



2021-2022 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/20/21

After Photos 5/26/22



2021-2022 Soft Bottom Channels

Reach 40b

San Gabriel River — I-10 Freeway to Thienes Avenue

Before Photos 8/20/21

After Photos 5/26/22



2021-2022 Soft Bottom Channels

Reach 41

Walnut Creek — Baldwin Park to San Gabriel River

Before Photos 8/19/21

After Photos 12/21/22



2021-2022 Soft Bottom Channels

Reach 42

San Jose Creek d/s 1000 feet from end of concrete channel

Before Photos 8/19/21

After Photos 2/16/22



2021-2022 Soft Bottom Channels

Reach 43a

San Gabriel River — Upper

Before Photos 8/23/21

After Photos 10/20/21



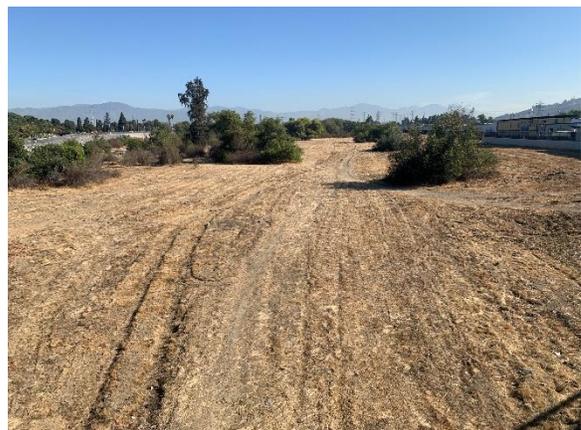
2021-2022 Soft Bottom Channels

Reach 43a

San Gabriel River — Upper

Before Photos 8/23/21

After Photos 10/20/21



2021-2022 Soft Bottom Channels

Reach 43b

San Gabriel River — Lower

Before Photos 8/23/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 43b

San Gabriel River — Lower

Before Photos 8/23/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/21

After Photos 10/28/21



2021-2022 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/21

After Photos 10/28/21



2021-2022 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/21

After Photos 10/28/21



2021-2022 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/21

After Photos 10/28/21



2021-2022 Soft Bottom Channels

Reach 44

San Gabriel River — Rubber Dams

Before Photos 8/21/21



After Photos 10/28/21



2021-2022 Soft Bottom Channels

Reach 45

Sand Canyon (P.D. T1307) Main Channel Inlet

Before Photos 8/23/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 46

Sand Canyon (P.D. T1307) Main Channel Outlet

Before Photos 8/23/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/23/21

After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 47

Santa Clara River Main Channel (P.D. T1733-Unit 1)

Before Photos 8/23/21



After Photos 1/20/22



2021-2022 Soft Bottom Channels

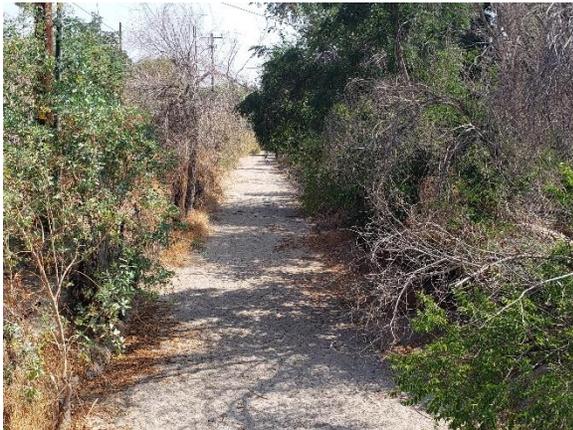
Reach 48

Mint Canyon Channel between Sierra Highway & Adon Avenue

Before Photos 8/23/21



After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 49

Mint Canyon Channel between Adon Avenue & Scherzinger Lane

Before Photos 8/23/21



After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 50

Mint Canyon Channel between Solamint Road and Soledad Canyon Road

Before Photos 8/23/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 51

Mint Canyon M.C.O. (P.D. 1894)/Santa Clara River — Main Channel

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 52

Sierra Highway Road Drainage (CDR 523.203)

Before Photos 8/23/21



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 53

Santa Clara River Non-Main Channel (P.D. 832) Main Channel Inlet

Before Photos 8/31/21

After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 54

Santa Clara River Non-Main Channel (P.D. 832) Main Outlet Channel

Before Photos 8/28/21

After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 55

Santa Clara River Main Channel — Right Bank Reach

(P.D.'s 910, 832, 1758, and 1562 Unit 2)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 56

Santa Clara River Main Channel — Left Bank Reach (P.D. 832)

Before Photos 8/26/20_ND

After 2/15/22



2021-2022 Soft Bottom Channels

Reach 57

Whites Canyon (P.D. T704 Main Channel Inlet)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 58 (combined with Reach 59)

Santa Clara River Main Channel — Right Bank Reach (P.D. 374)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 58 (combined with Reach 59)

Santa Clara River Main Channel — Right Bank Reach (P.D. 374)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 60

Santa Clara River Main Channel — Right Bank Reach (P.D.'s 1339 and 374)

Before Photos 8/28/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/30/21

After Photos 12/9/21



2021-2022 Soft Bottom Channels

Reach 61 (combined with Reach 62)

Santa Clara River Main Channel (P.D.'s 659 and 754)

Before Photos 8/30/21

After Photos 12/9/21



2021-2022 Soft Bottom Channels

Reach 63

Oak Avenue Road Drainage (CDR 523.081)

Before Photos 8/30/21

After Photos 12/9/21



2021-2022 Soft Bottom Channels

Reach 64

Soledad Canyon Road Drainage (CDR 523.071 D Outlet)

Before Photos 8/30/21

After Photos 12/9/21



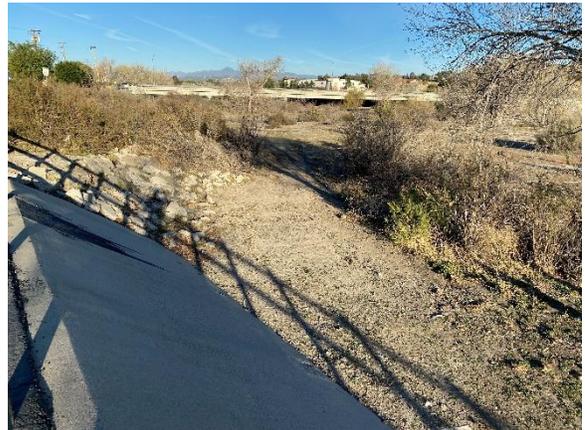
2021-2022 Soft Bottom Channels

Reach 66

Santa Clara River Main Channel (P.D. 1538)

Before Photos 8/13/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 67

Bouquet Canyon Upper (P.D.'s 1201, 802, 700B, and 625)

Before Photos 8/27/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 69

Bouquet Canyon Middle (P.D.'s 722, 773, 1365, 1065, and 451)

Before Photos 8/27/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/27/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 70

Bouquet Canyon Lower (P.D.'s 544 and 345)

Before Photos 8/27/21



After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 71

Santa Clara River Main Channel (P.D. 1946)

Before Photos 8/17/21

After Photos 12/9/21



2021-2022 Soft Bottom Channels

Reach 72

South Fork — SCR (Smizer Ranch Main Channel Inlet)

Before Photos 8/25/21



After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 73

Wildwood Canyon Channel (P.D. T361) Main Channel Inlet

Before Photos 8/25/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

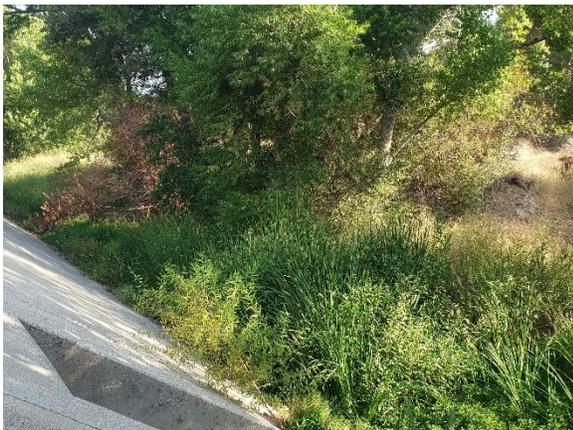
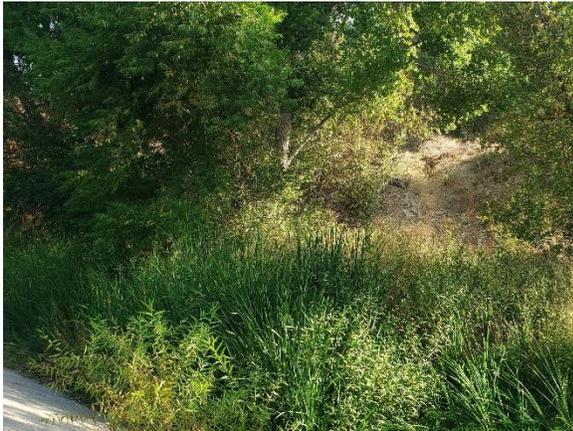
2021-2022 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/30/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/30/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/30/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/30/21

After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 75

South Fork — Santa Clara River (P.D.'s 725, 916, 1041, and 1300)

Before Photos 8/30/21



After Photos 10/05/21



2021-2022 Soft Bottom Channels

Reach 76

Pico Canyon (P.D. 813)

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 77

Newhall Creek Outlet

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 78

Placerita Creek

Before Photos 8/25/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 79

South Fork — Santa Clara River (Valencia Boulevard Bridge Stabilizer)

Before Photos 8/25/21

After photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/25/21

After photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 80

South Fork — Santa Clara River (P.D.'s 1947 and 1946)

Before Photos 8/25/21



After photos 1/20/22



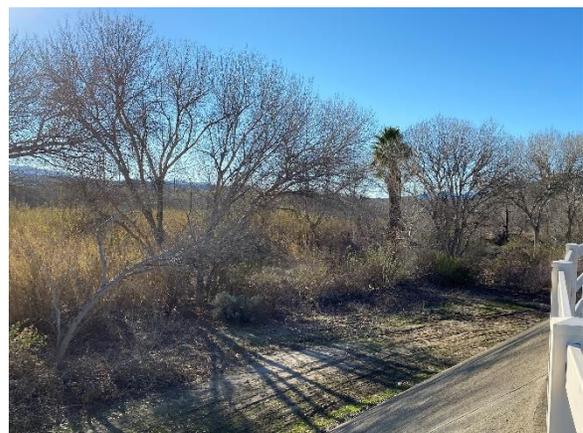
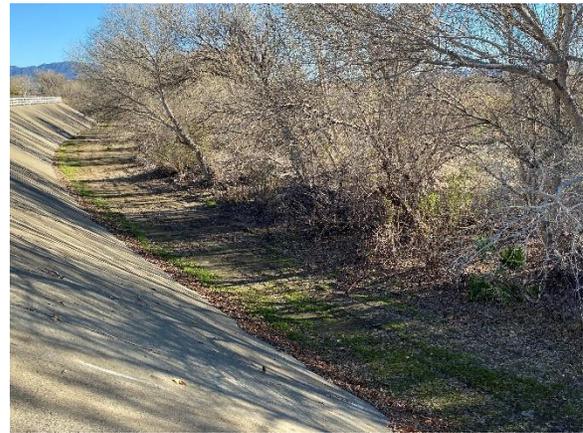
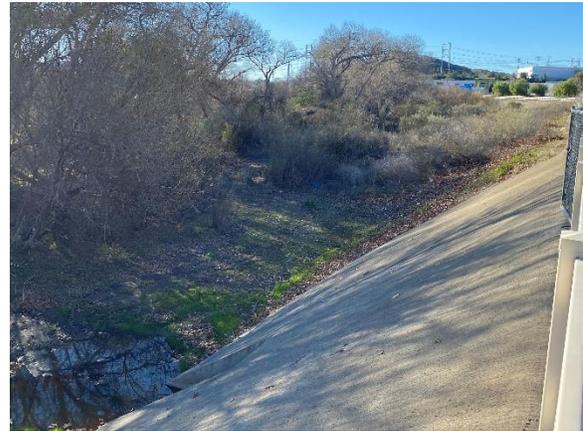
2021-2022 Soft Bottom Channels

Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/28/21

After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 82

Santa Clara River Main Channel (P.D. 2278)

Before Photos 8/28/21

After Photos 1/20/22



2021-2022 Soft Bottom Channels

Reach 86

Violin Canyon Main Channel Outlet

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 87

Castaic — Old Road Drainage (CDR 525.021D) Outlet

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 88

Hasley Canyon Upper (P.D. T1496)

Before Photos 8/25/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 89

Hasley Canyon South Fork (P.D. T1496)

Before Photos 8/25/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 90

Hasley Canyon Lower (North Fork P.D. T1496)

Before Photos 8/25/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 91

San Martinez Chiquito Canyon Channel u/s of Kennington Road

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 92

San Martinez Chiquito Canyon (North Fork) Unnamed

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 93

San Martinez Chiquito Canyon between Kenington Road and Val Verde Park

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/25/21

After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 94

San Martinez Chiquito Canyon between Val Verde Park and d/s of Madison Street

Before Photos 8/25/21



After Photos 11/3/21



2021-2022 Soft Bottom Channels

Reach 95

Project No. 1224

Before Photos 8/25/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 95

Project No. 1224

Before Photos 8/25/21



After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 96

PD 1591, Calabasas

Before Photos 8/24/21

After Photos 05/05/22



2021-2022 Soft Bottom Channels

Reach 97

P.D. T1982, Castaic Creek

Before Photos 8/25/21

After Photos 11/14/21



2021-2022 Soft Bottom Channels

Reach 98

Walnut Creek — Channel Inlet

Before Photos 8/30/21

After Photos 12/21/21



2021-2022 Soft Bottom Channels

Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/16/21

After Photos 11/14/21



2021-2022 Soft Bottom Channels

Reach 99

Kagel Canyon — Tujunga Wash

Before Photos 8/16/21

After Photos 11/14/21



2021-2022 Soft Bottom Channels

Reach 100

Dry Canyon, Calabasas Creek Inlet

Before Photos 8/23/21

After Photos 1/29/22



2021-2022 Soft Bottom Channels

Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 101

Violin Canyon (P.D. 2312)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 102

Violin Canyon (P.D. 2275)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 103

Bouquet Canyon Channel (P.D. 2225)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 104

Castaic Creek (P.D. 2441 Unit 2)

NO WORK DONE

Photos 8/27/21



2021-2022 Soft Bottom Channels

Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 105

San Francisquito Canyon Channel (P.D. 2456)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/13/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 108

Pico Canyon (P.D. 2528)

Before Photos 8/13/21

After Photos 2/15/22



2021-2022 Soft Bottom Channels

Reach 109

Santa Clara River — South Bank West of McBean Parkway (MTD1510)

NO WORK DONE

Photos 8/24/21



2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



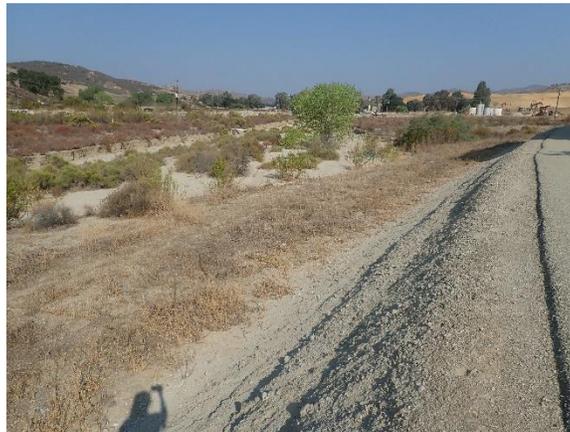
2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



2021-2022 Soft Bottom Channels

Reach 110

Hasley Canyon Channel (P.D. 2262)

NO WORK DONE

Photos 8/26/21



2021-2022 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/19/21

After Photos 12/7/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/19/21

After Photos 12/7/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 112

Ballona Creek

Before Photos 8/19/21



After Photos 12/7/21



2021-2022 Soft Bottom Channels

Reach 114

Los Angeles River

Before Photos 8/19/21

After Photos 12/7/21



**NO WORK DONE
IN THIS AREA**



**NO WORK DONE
IN THIS AREA**



2021-2022 Soft Bottom Channels

Reach 114

Los Angeles River

Before Photos 8/19/21

After Photos 12/7/21



**NO WORK DONE
IN THIS AREA**

2021-2022 Soft Bottom Channels

Reach 115

San Gabriel River

Before Photos 8/19/21

After Photos 12/23/21



2021-2022 Soft Bottom Channels

Reach 115

San Gabriel River

Before Photos 8/19/21

After Photos 12/23/21



2021-2022 Soft Bottom Channels

Reach 115

San Gabriel River

Before Photos 8/19/21



After Photos 12/23/21



2021-2022 Soft Bottom Channels

Reach 116

Los Cerritos Channel

NO WORK DONE

Photos 8/25/21



2021-2022 Soft Bottom Channels

Reach 116

Los Cerritos Channel

NO WORK DONE

Photos 8/25/21



2021-2022 Soft Bottom Channels

Reach 117

Centinela Creek Channel

NO WORK DONE

Photos 8/25/21



2021-2022 Soft Bottom Channels

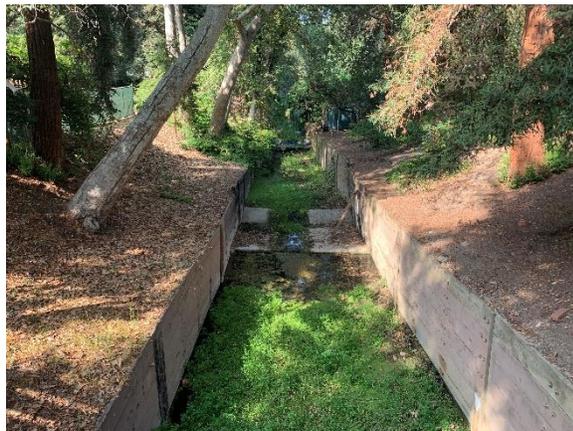
Reach 118

Rustic Canyon

Before Photos 8/17/21



After Photos 10/26/21



2021-2022 Soft Bottom Channels

Reach 118

Rustic Canyon

Before Photos 8/17/21



After Photos 10/26/21



2021-2022 Soft Bottom Channels

Reach 119

Rivas Canyon Channel

Before Photos 8/19/21



2021-2022 Soft Bottom Channels

Reach 119

Rivas Canyon Channel

Before Photos 8/19/21



After Photos 10/26/21



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ATTACHMENT NO. 6
WATER QUALITY MONITORING SUMMARY REPORTS

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**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Ballona Creek Reach 112 North				11/15/2021
LATITUDE (approx.)	33.986765	33.984031	33.98031	Pre-Clearing/Baseline For 11/15, 1st day of field operations, I arrived on-site at 1200 to and met with Max Dizon from Stormwater Maintenance 83rd Yard, and performed water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Baseline was also established on the first day as well, due to the contractor placing the BMP on the north side of Ballona Creek instead of the scheduled south side. BMPs were placed in the channel as field crews were removing vegetation. The water levels were very low due to no tides in the water stream. Between 1209 to 1241 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16.
LONGITUDE (approx.)	-118.41591	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	12:09	12:24	12:41	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	25	23.3	24	
pH	8.45	8.75	7.42	
TURBIDITY (NTUs)	1.51	1.44	2.82	
DISSOLVED O ₂ (mg/L)	9.76	10	9.93	
TOTAL SUSPENDED SOLIDS (mg/L)	12	22	18	
Ballona Creek Reach 112 North				11/16/2021
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results For 11/16, 2nd day of field operations, I arrived on-site at 1130 to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. BMPs were placed in the channel as field crews continue to were removing vegetation. The water levels were very low due to no tides in the water stream. Between 1147 to 1221 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/16 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/17. I informed Jasson Velez via phone call about the turbidity results.
LONGITUDE (approx.)	-118.41591	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	11:47	12:05	12:21	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	22.9	21	21.7	
pH	8.04	8.68	7.66	
TURBIDITY (NTUs)	3.89	1.6	1.95	
DISSOLVED O ₂ (mg/L)	9.94	9.94	9.52	
TOTAL SUSPENDED SOLIDS (mg/L)	14	18	28	
Ballona Creek Reach 112 North				11/17/2021
LATITUDE (approx.)	33.986765	33.984031	33.98031	During Maintenance WQ Monitoring & Sampling Results For 11/17, 3rd day of field operations, I arrived on-site at 1118 to and met with Max Dizon from Stormwater Maintenance 83rd yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. BMPs was moved down at the midway section of the channel covering the internal sampling point, as field crews continue to were removing vegetation (photo attached). The water levels rose a little from the previous day, however I was still seeing the bottom of soft bottom. Between 1125 to 1145 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/17 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/18. I informed Max Dizon on-site about the turbidity results.
LONGITUDE (approx.)	-118.41591	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	11:25	11:36	11:45	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	21	20.2	19.6	
pH	8.16	7.98	7.86	
TURBIDITY (NTUs)	6.13	2.88	2.11	
DISSOLVED O ₂ (mg/L)	9.77	9.8	9.77	
TOTAL SUSPENDED SOLIDS (mg/L)	21	41	66	
Ballona Creek Reach 112 North				11/18/2021
LATITUDE (approx.)	33.986765	33.984031	33.98031	Post-Work WQ Monitoring & Sampling Results For 11/18, I arrived on-site at 1050 to and met with Max Dizon from Stormwater Maintenance 83rd yard to perform post water quality sampling and monitoring for Upper Ballona Creek Reach 112 North Side. Private contractor finished all vegetation cleanout in the mid-morning and moved BMP to the south side of Ballona Creek to commence their work on the south side. The water levels rose slightly more than previous day. Between 1100 to 1139 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/18 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/19. I informed Max Dizon on-site about the turbidity results.
LONGITUDE (approx.)	-118.41591	-118.419688	-118.424731	
ELEVATION (approx.)	6	6	6	
TIME	11:00	11:16	11:39	
SAMPLE NO.	BCNS-1	BCNS-2	BCNS-3	
TEMPERATURE (°C)	20.5	19.6	19.9	
pH	8.16	8.66	7.55	
TURBIDITY (NTUs)	3.21	2.66	2.35	
DISSOLVED O ₂ (mg/L)	9.79	9.99	9.83	
TOTAL SUSPENDED SOLIDS (mg/L)	32	13	17	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Ballona Creek Reach 112 South 11/12/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	Pre-Clearing/Baseline For Friday 11/12, I arrived on-site at 1100 to perform baseline water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Entered through the south side double gate doors off of Centinela Ave into the levee above the channel. Baseline was done three (3) days prior to start date. Water level was low throughout the water channel. During sampling I noticed lots of ducks, vegetation and trash inside the channel. Between 1106 to 1126 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/12 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/15. From a water quality standpoint, project is "good to go" for start on Monday 11/15.
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	11:06	11:15	11:26	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	24.8	23.1	21.5	
pH	9.19	8.19	7.53	
TURBIDITY (NTUs)	5.36	5.84	2.14	
DISSOLVED O ₂ (mg/L)	9.58	9.97	9.69	
TOTAL SUSPENDED SOLIDS (mg/L)	10	15	23	
Ballona Creek Reach 112 South 11/18/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/18, 1st day of field work, I arrived on-site at 1145 and met with Max Dizon from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Baseline from Friday November 12, 2021 were still valid. The work started late due to the private contractor placing the BMP and working on the north side first. Work was completed their vegetation cleanout in three (3) days. Prior to my arrival, the BMP was placed on the south side (photo attached), and are now cutting and removing vegetation. Water level was slightly high throughout the water channel. During sampling I noticed lots of ducks, vegetation and trash inside the channel. Turbidity readings were high at the internal point due to the water level rising as well as the vegetation and debris in the water. Between 1149 to 1213 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/18 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/19. I informed Max Dizon on-site of the turbidity readings
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	12:13	12:03	11:49	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	20.7	19.7	19.5	
pH	8	8.75	7.61	
TURBIDITY (NTUs)	2.49	3.42	2.02	
DISSOLVED O ₂ (mg/L)	10	9.98	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	15	33	39	
Ballona Creek Reach 112 South 11/19/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Friday 11/19, 2nd day of field work, I arrived on-site at 0915 and met with Ricardo Blas from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. BMP is placed at the upstream point. Water level is now normal. During sampling I noticed lots of ducks, vegetation and trash inside the channel. Between 0921 to 0952 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/19 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/22. I informed Ricardo Blas on-site of the turbidity readings
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	9:52	9:35	9:21	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	18.6	18.3	18.7	
pH	7.86	8.23	7.39	
TURBIDITY (NTUs)	1.16	1.02	0.96	
DISSOLVED O ₂ (mg/L)	9.83	9.92	10.01	
TOTAL SUSPENDED SOLIDS (mg/L)	3	14	11	
Ballona Creek Reach 112 South 11/22/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Monday 11/22, 3rd day of field work, I arrived on-site at 0915 and met with Daryl Ellison from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. BMP has been moved as private contractor is now removing vegetation from the slope around the internal sampling point (photo attached) Water level is now normal. During sampling I noticed lots of ducks, vegetation and trash inside the channel. Between 0922 to 0947 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/22 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/23. I informed Daryl Ellison on-site of the turbidity readings
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	9:22	9:47	9:36	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	16.7	18.4	17.6	
pH	8.31	7.71	7.58	
TURBIDITY (NTUs)	1.47	1.29	1.04	
DISSOLVED O ₂ (mg/L)	9.67	9.57	9.45	
TOTAL SUSPENDED SOLIDS (mg/L)	11	27	14	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Ballona Creek Reach 112 South				
11/23/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/23, last day of field work, I arrived on-site at 0755 and met with Daryl Ellison from Stormwater Maintenance 83rd Yard to perform water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. BMP is placed in the channel and was going to be moved down south as private contractor informed me of vegetation removal will be completed today. Water level is now normal as well as lots of ducks, vegetation and trash inside the channel. Between 0810 to 0840 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/23 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/24. I informed Jasson Velez via phone call of the turbidity readings
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	8:10	8:24	8:40	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	20.7	19.7	17.6	
pH	8	7.72	8.03	
TURBIDITY (NTUs)	2.96	1.15	1.22	
DISSOLVED O ₂ (mg/L)	9.88	10	9.93	
TOTAL SUSPENDED SOLIDS (mg/L)	5	24	16	
Ballona Creek Reach 112 South				
11/29/2021				
LATITUDE (approx.)	33.986641	33.984285	33.980196	Post-Work WQ Monitoring & Sampling Results For Monday 11/29, I arrived on-site at 0700 to perform post water quality sampling and monitoring for Upper Ballona Creek Reach 12 South Side. Private contractor completed all vegetation removal on Wednesday November 24, 2021. Water level is now normal as well as lots of ducks, vegetation and trash inside the channel. Between 0706 to 00733 samples were collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/29 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/30.
LONGITUDE (approx.)	-118.41576	-118.418752	-118.424032	
ELEVATION (approx.)	5	5	5	
TIME	7:06	7:19	7:33	
SAMPLE NO.	BCSS-1	BCSS-2	BCSS-3	
TEMPERATURE (°C)	15.4	14.7	14.7	
pH	7.46	7.28	7.09	
TURBIDITY (NTUs)	0.91	1.02	1.24	
DISSOLVED O ₂ (mg/L)	9.79	9.65	9.7	
TOTAL SUSPENDED SOLIDS (mg/L)	2	4	18	
Compton Creek Reach 24				
9/9/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	Pre-Clearing/Baseline For Thursday, 09/09 – arrived on the jobsite at 0940 met with Andrew Fernandez from Stormwater Maintenance Imperial Yard . Performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Compton Creek. At the upstream sampling point, there were lots of debris, as well both bad odor and white substance in the water. Baseline monitoring and sampling was performed seven (7) days prior of cleanout start date. Between 0924 and 1035, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/09 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/10. From a water quality standpoint, project is “good to go” for start on Thursday 09/16.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:35	10:14	9:24	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	23.5	23.1	24.4	
pH	7.26	6.55	6.72	
TURBIDITY (NTUs)	32.97	13.81	12.82	
DISSOLVED O ₂ (mg/L)	9.8	9.86	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	13	6	3	
Compton Creek Reach 24				
9/16/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/16 – 1st day of field work, I arrived on the jobsite at 1010 and met with David Martinez from Stormwater Maintenance Imperial Yard to performed water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point (photo attached). Field crew were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. Upstream had lots of vegetation, large debris, very bad odor, and white coloring in the water. Between 0758 and 0855, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/16 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/17.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	11:19	10:50	10:20	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.5	22.5	25	
pH	7.3	6.99	8.28	
TURBIDITY (NTUs)	25.84	34.94	2.74	
DISSOLVED O ₂ (mg/L)	9.38	10.01	9.96	
TOTAL SUSPENDED SOLIDS (mg/L)	6	3	4	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Compton Creek Reach 24				
9/17/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Friday, 09/17 – 2nd day of field work, I arrived on the jobsite at 0755 and met with Paul Briseno from Stormwater Maintenance Imperial Yard to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. There were very strong bad odors coming from both the upstream and internal sampling points. Upstream had lots of vegetation, large debris, very bad odor, white coloring in the water and lots of little larva. Between 0800 and 0851, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/17 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/20.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:25	8:51	8:00	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.2	21.4	18.9	
pH	7.16	7.4	7.35	
TURBIDITY (NTUs)	17.12	10.84	9.87	
DISSOLVED O ₂ (mg/L)	8.91	8.95	9.38	
TOTAL SUSPENDED SOLIDS (mg/L)	9	9	7	
Compton Creek Reach 24				
9/18/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Saturday, 09/18 – 3rd day of field work, I arrived on the jobsite at 0755 and met with Joaquin Valdez from Stormwater Maintenance Imperial Yard to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew had their trucks parked on the west side of the levee and were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. I parked half way of the levee on the west side of Compton Creek and walked towards the bridge area where the upstream sampling point is located. There is still very strong bad odors coming from the upstream sampling points. Upstream had lots of vegetation, large debris, very bad odor, white coloring in the water and lots of little larva. Between 0802 and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/20 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/21. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:15	8:40	8:02	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	20.3	19.9	19.2	
pH	6.7	7.54	8.47	
TURBIDITY (NTUs)	31.52	7.91	10.66	
DISSOLVED O ₂ (mg/L)	10.01	10.06	9.43	
TOTAL SUSPENDED SOLIDS (mg/L)	13	21	9	
Compton Creek Reach 24				
9/20/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Monday, 09/20 – 4th day of field work, Sam Hinojos and I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew had their trucks parked on the west side of the levee and were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. There is still very strong bad odors coming from the upstream sampling points. Upstream had lots of vegetation, large debris, very bad odor, white coloring in the water and lots of little larva. Between 0810 and 0911, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/20 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/21. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:11	8:44	8:10	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22.2	20.8	20.1	
pH	7.22	6.57	7.34	
TURBIDITY (NTUs)	31.6	9.92	10.98	
DISSOLVED O ₂ (mg/L)	9.98	9.84	10.03	
TOTAL SUSPENDED SOLIDS (mg/L)	9	12	4	
Compton Creek Reach 24				
9/21/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Tuesday, 09/21 – 5th day of field work, I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew had their trucks parked on the west side of the levee and were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. White coloring and odor are still present at the upstream. Also, I noticed a lot of larva and a turtle swimming in the water at the upstream point which is directly under the Train bridge. I notified Jeremy Winston from Imperial Yard regarding the turtle. Between 0800 and 0849, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 09/21 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 09/22. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:49	8:25	8:00	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22.8	21.9	21.5	
pH	7.26	6.91	7.3	
TURBIDITY (NTUs)	32.68	8.89	6.28	
DISSOLVED O ₂ (mg/L)	9.88	9.99	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	4	8	11	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Compton Creek Reach 24				9/22/2021
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Wednesday, 09/22 – 6th day of field work, I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew had their trucks parked on the west side of the levee and were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. White coloring and odor are still present at the upstream. Between 0805 and 0848, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 09/22 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 09/23. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:49	8:26	8:48	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	23.8	22.3	22.9	
pH	7.26	6.97	7.33	
TURBIDITY (NTUs)	33.18	16.24	6.285	
DISSOLVED O ₂ (mg/L)	10	9.99	10.04	
TOTAL SUSPENDED SOLIDS (mg/L)	7	22	7	
Compton Creek Reach 24				9/23/2021
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/23 – 7th day of field work, I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew had their trucks parked on the west side of the levee and were working at on north side of Compton Creek Channel between Santa Fe Ave and train bridge. White coloring and odor are still present at the upstream. Between 0801 and 0851, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/23 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/24. I informed Jeremy Winston on-site of the turbidity results. GMED will now transition to weekly water quality sampling and monitoring.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:51	8:25	8:01	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	23.2	21.5	21.9	
pH	7.34	6.94	7.32	
TURBIDITY (NTUs)	30.64	9.37	6.78	
DISSOLVED O ₂ (mg/L)	9.45	10.01	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	8	7	4	
Compton Creek Reach 24				9/30/2021
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/30 – 14th day of field work, Sam Hinojos and I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. The majority of the vegetation in the soft bottom channel between the north side of Santa Fe Ave bridge and the train bridge has been removed. Field crew continue to work on the north soft bottom channel side White coloring and odor are still present at the upstream. Between 0800 and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/30 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/01. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:45	8:20	8:00	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22.1	21.7	21.4	
pH	7.34	6.89	7.68	
TURBIDITY (NTUs)	28.02	11.6	9.73	
DISSOLVED O ₂ (mg/L)	9.23	10	9.32	
TOTAL SUSPENDED SOLIDS (mg/L)	7	5	7	
Compton Creek Reach 24				10/7/2021
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/07 – 20th day of field work, I arrived on the jobsite at 1010 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew were removing vegetation inside the channel between Santa Fe Ave and Del Amo. The upstream water is clear with white substance floating and no bad odor as well. However both the internal and downstream waters were very dirty (photo attached). Between 1012 and 1045, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/07 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/08. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:45	10:20	10:12	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	21.8	22.6	22.9	
pH	6.99	7	7.18	
TURBIDITY (NTUs)	18.99	29	42.29	
DISSOLVED O ₂ (mg/L)	9.18	9.92	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	11	26	20	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Compton Creek Reach 24				
10/14/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/14 – 24th day of field work, I arrived on the jobsite at 0755 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew were removing vegetation inside the channel between Santa Fe Ave and Del Amo. The upstream water had white substance floating in the water and no bad odor as well. Also both the internal and downstream waters were very dirty. Between 1012 and 1045, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/14 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/15. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:46	8:26	8:00	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	17	16.5	16.5	
pH	7.29	6.96	7.35	
TURBIDITY (NTUs)	42.93	21.6	41.2	
DISSOLVED O ₂ (mg/L)	9.98	9.98	10	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	22	5	
Compton Creek Reach 24				
10/21/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/21 – 30th day of field work, I arrived on the jobsite at 0915 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. Three (3) BMP's with sand bags within several feet distances were placed at the downstream point. Field crew were working near the soft bottom channel and concrete apron section of the channel east of 710 Fwy. The downstream had red substance floating along the water which came with my sampling (photo attached). Turbidity reading at the downstream sampling point due to the red substance in the water. Between 0921 and 0958, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/21 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/22. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	9:58	9:36	9:21	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	18	18.2	18.7	
pH	7.28	7.15	7.79	
TURBIDITY (NTUs)	7.85	9.02	24.32	
DISSOLVED O ₂ (mg/L)	9.97	9.97	9.65	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	6	26	
Compton Creek Reach 24				
10/28/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 10/28 – 37th day of field work, Humberto Rios Jr and I arrived on the jobsite at 1005 to perform water sampling at upstream, internal, and downstream points at the Compton Creek. The BMPs placed at the downstream point was washed away during the rain on Monday 10/25/2021 (photo attached). Field crew continue their work at the soft bottom channel both sides located below the 710 freeway. The downstream had high turbidity readings because of bad odor and some other red substance floating along the water which came with my sampling (photo attached). Turbidity reading at the downstream sampling point due to no BMPs at this location. Between 1010 and 1050, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/28 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/29. I informed Jeremy Winston on-site of the turbidity results.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	10:50	10:24	10:10	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	22	22.6	22.6	
pH	7.21	7.09	7.2	
TURBIDITY (NTUs)	10.35	5.33	18.86	
DISSOLVED O ₂ (mg/L)	9.96	9.9	9.94	
TOTAL SUSPENDED SOLIDS (mg/L)	4	2	9	
Compton Creek Reach 24				
11/4/2021				
LATITUDE (approx.)	33.8714707	33.8554341	33.8418536	During Maintenance WQ Monitoring & Sampling Results For Thursday, 11/04 – I arrived on the jobsite at 0755 to perform post water sampling at upstream, internal, and downstream points at the Compton Creek. There was no weekly water sampling done on November 04, 2021 because the crew was assigned to the Dominguez Channel. Field crew finished all vegetation cleanup and removed all the BMPs by the downstream. There was a light pink substance in the water at the downstream point (photo attached). The downstream had a very high turbidity readings because of light pink substance. Between 0802 and 0852, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/11 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/12.
LONGITUDE (approx.)	-118.21598	-118.2134476	-118.2041057	
ELEVATION (approx.)	26	94	25	
TIME	8:02	8:33	8:52	
SAMPLE NO.	CCRK-1	CCRK-2	CCRK-3	
TEMPERATURE (°C)	18.1	19.8	20.9	
pH	8.51	7.93	7.45	
TURBIDITY (NTUs)	10.34	2.85	37.74	
DISSOLVED O ₂ (mg/L)	9.87	8.71	8.41	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	11	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Haines Canyon Channel		2/2/2022			
LATITUDE (approx.)				Pre-Clearing/Baseline	
LONGITUDE (approx.)				<p>For Wednesday February 2, 2022, Garo Avoyan and I arrived on site at 7:30 and met with Manuel Moncada from Stormwater Maintenance Pickens Yard to perform baseline water quality sampling and monitoring at Haines Canyon Channel Reach 12. Baseline was done six (6) days from scheduled start date. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Baseline water sampling was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will now perform daily monitoring to the area to re-confirm conditions. The project is "good to go" for Tuesday February 8, 2022.</p>	
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Haines Canyon Channel		2/8/2022			
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results	
LONGITUDE (approx.)				<p>For Tuesday February 8, 2022, I arrived on site at 8:00 and met with Manuel Moncada from Stormwater Maintenance Pickens Yard to perform Day 1 water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Water quality sampling was not performed because the project did not meet Regional Water Quality Control Board permit requirements. GMED will now perform daily monitoring to the area to re-confirm conditions.</p>	
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Haines Canyon Channel		2/10/2022			
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results	
LONGITUDE (approx.)				<p>For Thursday February 10, 2022, I arrived on site at 8:00 and met with Manuel Moncada from Stormwater Maintenance Pickens Yard to perform post water quality sampling and monitoring at Haines Canyon Channel Reach 12. Attached is a photo of the downstream sampling point located on the south bank of the channel about 594' west of the open-box concrete. No water flow present. Water quality sampling was not performed because the project did not meet Regional Water Quality Control Board permit requirements.</p>	
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Los Angeles River Reach 114		11/3/2021			
LATITUDE (approx.)	33.790323	33.787342	33.782763	Pre-Clearing/Baseline	
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	<p>For Wednesday, 11/03 – I arrived on the jobsite at 0830am met with Anthony Hernandez from Stormwater Maintenance Imperial Yard and performed baseline water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River West. Los Angeles County Sheriff Department and Ocean Blue were at the south side of PCH and performing cleanout of homeless debris. Baseline monitoring and sampling was performed five (5) days prior of cleanout start date. Between 0845 and 0917, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/03 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/04. From a water quality standpoint, project is "good to go" for start on Monday 11/08.</p>	
ELEVATION (approx.)	6	6	5		
TIME	8:45	8:59	9:17		
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3		
TEMPERATURE (°C)	19.4	19.1	19		
pH	8.05	8.19	8.16		
TURBIDITY (NTUs)	2.31	2.37	2.26		
DISSOLVED O ₂ (mg/L)	9.4	9.38	9.85		
TOTAL SUSPENDED SOLIDS (mg/L)	27	17	20		

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 114 11/8/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Monday 11/08 – 1st day of field operations, I arrived on the jobsite at 0830am met with Thomas Fischer from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water flow was smooth but rising. There were lots of debris and ducks in the water channel. Between 0847 and 0904, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/08 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/09. I informed Jeremy Winston of the turbidity results. .
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:47	8:57	9:04	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	20	19	19	
pH	8.41	8.59	8.58	
TURBIDITY (NTUs)	1.85	1.8	2	
DISSOLVED O ₂ (mg/L)	9.94	9.74	10.02	
TOTAL SUSPENDED SOLIDS (mg/L)	13	10	16	
Los Angeles River Reach 114 11/9/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/09 – 2nd day of field operations, I arrived on the jobsite at 0800am met with Thomas Fischer from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level went down however there were still lots of debris and ducks in the water channel. Turbidity readings were slightly high at the downstream sampling point. Between 0804 and 0820, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/09 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/10. I informed Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	5	
TIME	8:20	8:14	8:04	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	18.4	18.6	18.6	
pH	8.6	8.85	9.33	
TURBIDITY (NTUs)	1.76	1.69	2.19	
DISSOLVED O ₂ (mg/L)	9.59	9.95	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	8	10	9	
Los Angeles River Reach 114 11/10/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Wednesday 11/10 – 3rd day of field operations, I arrived on the jobsite at 0750am met with Thomas Fischer from Stormwater Maintenance Imperial Yard and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was still down. There was a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Turbidity readings was high at the internal sampling point. Between 0800 and 0819, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/10 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/11. I informed Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	8:00	8:12	8:19	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	19.9	19.9	20.2	
pH	8.31	8.36	8.64	
TURBIDITY (NTUs)	2.09	3.88	2.18	
DISSOLVED O ₂ (mg/L)	9.99	9.58	9.84	
TOTAL SUSPENDED SOLIDS (mg/L)	9	32	16	
Los Angeles River Reach 114 11/11/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/11 – 4th day of field operations, I arrived on the jobsite at 0917am and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was low. There is still a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Turbidity readings was slightly high at the downstream sampling point. Between 0924 and 0955, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/11 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/12. I informed Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:55	9:42	9:24	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	22.3	22.3	21.3	
pH	8.19	7.6	9.02	
TURBIDITY (NTUs)	2.74	3.11	3.34	
DISSOLVED O ₂ (mg/L)	10.01	10.04	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	3	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 114 11/12/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Friday 11/12 – 5th day of field operations, I arrived on the jobsite at 0755am and met with Thomas Fischer from Stormwater Maintenance Imperial Yard, and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was low. There is still a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Water is not clear inside the channel. Turbidity readings was slightly high at the internal sampling point. Between 0810 and 0845, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/12 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/15. I informed Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	8:45	8:29	8:10	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	22.9	22.6	20.2	
pH	8.2	8.55	8.96	
TURBIDITY (NTUs)	1.86	2.46	1.89	
DISSOLVED O ₂ (mg/L)	10.02	9.86	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	9	12	16	
Los Angeles River Reach 114 11/13/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Saturday 11/13 – 6th day of field operations, I arrived on the jobsite at 0900 and met with Gilbert Ulloa from Stormwater Maintenance Imperial Yard, and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was low. There is still a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Between 0908 and 0936, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I informed Gilbert Ulloa of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	9:36	9:27	9:08	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	21.9	21.2	20.1	
pH	7.45	8.27	7.63	
TURBIDITY (NTUs)	1.94	2.04	2.03	
DISSOLVED O ₂ (mg/L)	9.48	9.94	9.87	
TOTAL SUSPENDED SOLIDS (mg/L)	10	16	12	
Los Angeles River Reach 114 11/15/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	During Maintenance WQ Monitoring & Sampling Results For Monday 11/15 – 7th day of field operations, I arrived on the jobsite at 0750 and met with Thomas Fischer from Stormwater Maintenance Imperial Yard, and performed water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Water level was low. Field crew has already cleared out the majority of the vegetation from the channel. There is still a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Between 0804 and 0828, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I informed Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	6	6	6	
TIME	8:28	8:17	8:04	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	20.8	20.9	19.7	
pH	7.59	8.21	8.07	
TURBIDITY (NTUs)	1.93	1.79	1.87	
DISSOLVED O ₂ (mg/L)	9.89	9.95	9.71	
TOTAL SUSPENDED SOLIDS (mg/L)	12	15	12	
Los Angeles River Reach 114 11/22/2021				
LATITUDE (approx.)	33.790323	33.787342	33.782763	Post-Work WQ Monitoring & Sampling Results For Monday 11/22 – I arrived on the jobsite at 0715 and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform post water quality monitoring and sampling at upstream, internal, and downstream points at the Los Angeles River Reach 114 West. Field crew completed all the vegetation removal in the channel. There is still a high presence of unknown substance floating on the top surface of the channel and the water was not partially clear. There was also lots of debris and ducks in the water channel. Between 0722 and 0753, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/22 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/23.
LONGITUDE (approx.)	-118.20623	-118.206238	-118.206115	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	10:45	10:30	10:10	
SAMPLE NO.	LARWR114-1	LARWR114-2	LARWR114-3	
TEMPERATURE (°C)	15.69	16.21	16.03	
pH	8.4	8.46	8.49	
TURBIDITY (NTUs)	1.34	1.35	1.09	
DISSOLVED O ₂ (mg/L)	10.92	10.31	10.77	
TOTAL SUSPENDED SOLIDS (mg/L)	5	4	5	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 East 11/8/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	Pre-Clearing/Baseline For Monday 11/08, I arrived 0940 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform baseline water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was high as water was coming above the surface and pouring around various areas of the channel. Baseline water quality monitoring and sampling was done seven (7) days prior to start date. Between 0940 and 1010, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/08 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/09. From a water quality standpoint, project is "good to go" for start on Monday 11/15.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:50	9:57	10:10	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	20.5	20.1	18.7	
pH	9.19	8.08	8.22	
TURBIDITY (NTUs)	2.11	2.98	2.21	
DISSOLVED O ₂ (mg/L)	9.99	9.96	9.71	
TOTAL SUSPENDED SOLIDS (mg/L)	3	18	14	
Los Angeles River Reach 25 East 11/12/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Friday 11/12, at the request of the field foreman, field operations started earlier than scheduled start date, I arrived 0910 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was low. Field crews were clearing vegetation underneath the gas pipeline bridge at the middle portion of the channel. There were lots of ducks and debris in the channel. Between 0920 and 1000, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/12 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/15.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:30	9:20	10:00	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	23	22.2	21.8	
pH	8.98	8.36	8.11	
TURBIDITY (NTUs)	4.32	2.75	1.55	
DISSOLVED O ₂ (mg/L)	9.97	10.01	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	9	8	9	
Los Angeles River Reach 25 East 11/13/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Saturday 11/13, 2nd day of field operations, I arrived 0750 on-site and met with Gilbert Ulloa from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was low. Field crews continue to clear vegetation at the channel. There were lots of ducks and debris in the channel. Turbidity readings were slightly high at both internal and downstream due to the debris and ducks in the water channel., Between 0809 and 0847, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I informed Gilbert Ulloa on-site of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:17	8:09	8:47	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	17.1	17.6	19.2	
pH	8.46	8.15	7.45	
TURBIDITY (NTUs)	1.6	2.64	2.12	
DISSOLVED O ₂ (mg/L)	10.05	9.7	9.61	
TOTAL SUSPENDED SOLIDS (mg/L)	26	14	27	
Los Angeles River Reach 25 East 11/15/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Monday 11/15, 3rd day of field operations, I arrived 0855 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was low. Field crews continue to clear vegetation at the channel. There were lots of ducks and debris in the channel. Between 0859 and 0940, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I informed Jeremy Winston via phone call of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:40	9:31	8:59	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	21.7	21.1	20.5	
pH	8.21	8.61	8.11	
TURBIDITY (NTUs)	3.6	2.48	1.78	
DISSOLVED O ₂ (mg/L)	9.86	9.72	9.96	
TOTAL SUSPENDED SOLIDS (mg/L)	17	2	9	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 East 11/16/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/16, 4th day of field operations, I arrived 0755 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was up. Field crews continue to clear vegetation at the channel. There were lots of ducks and debris in the channel. Between 0809 and 0859, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/16 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/17. I informed Jeremy Winston via phone call of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:59	8:51	8:09	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	18.6	18.6	19.2	
pH	8.95	8.15	8.58	
TURBIDITY (NTUs)	22.3	2.75	1.97	
DISSOLVED O ₂ (mg/L)	9.99	8.7	9.96	
TOTAL SUSPENDED SOLIDS (mg/L)	4	15	20	
Los Angeles River Reach 25 East 11/17/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Wednesday 11/17, 5th day of field operations, I arrived 0810 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level was up. Field crews continue have cleared half the vegetation from the channel. There were lots of ducks and debris in the channel. Between 0818 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/17 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/17. I informed Jeremy Winston via phone call of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	9:00	8:51	8:18	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	18.5	18.6	19.8	
pH	8.05	8.96	7.54	
TURBIDITY (NTUs)	4.12	1.25	2.36	
DISSOLVED O ₂ (mg/L)	9.79	9.95	9.83	
TOTAL SUSPENDED SOLIDS (mg/L)	17	1	7	
Los Angeles River Reach 25 East 11/18/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/18, 6th day of field operations, I arrived 0759 on-site and met with Thomas Fischer from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level keeps slightly rising. Field crews continue have cleared half the vegetation from the channel. There were lots of ducks and debris in the channel. Turbidity readings were high at the internal and downstream points. Between 0805 and 0840, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/18 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/19. I informed Jeremy Winston via phone call of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:05	8:15	8:40	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	16.5	16.3	16.9	
pH	8.45	7.83	8.34	
TURBIDITY (NTUs)	1.03	3.41	2.48	
DISSOLVED O ₂ (mg/L)	10	9.75	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	8	14	
Los Angeles River Reach 25 East 11/19/2021				
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Friday 11/19, 7th day of field operations, I arrived 0759 on-site and met with Gilbert Ulloa from Stormwater Maintenance Imperial Yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level keeps slightly rising. Field crews are making their way towards the PCH bridge area for vegetation cleanout. Water was not clear as well as a good presence ducks and debris across the channel. Turbidity readings were slightly high at the internal and downstream points. Between 0805 and 0835, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 11/19 on 24-hour TAT. Results for TSS will be available Monday afternoon, 11/22. I informed Jeremy Winston via phone call of the turbidity results. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:05	8:14	8:35	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	18.6	18.4	18.5	
pH	7.63	7.7	7.55	
TURBIDITY (NTUs)	1.39	3.17	2	
DISSOLVED O ₂ (mg/L)	10.01	9.76	9.74	
TOTAL SUSPENDED SOLIDS (mg/L)	6	10	6	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 East				12/2/2021
LATITUDE (approx.)	33.803965	33.800976	33.79033	During Maintenance WQ Monitoring & Sampling Results For Thursday 12/02, 16th day of field operations, I arrived 0759 on-site to perform water quality monitoring and sampling at the Los Angeles River Reach 25 East. Water level keeps slightly rising. Field crews continue with vegetation removal towards the PCH bridge. Water was not clear as well as a good presence ducks and debris across the channel. Turbidity readings were slightly high at the internal and downstream points. Between 0805 and 0836, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/02 on 24-hour TAT. Results for TSS will be available Friday afternoon, 12/03. I informed Jeremy Winston via phone call of the turbidity results.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	8:13	8:05	8:36	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	17.4	17.6	17.6	
pH	8.16	7.47	7.15	
TURBIDITY (NTUs)	2.27	3.56	3.36	
DISSOLVED O ₂ (mg/L)	9.96	9.61	9.92	
TOTAL SUSPENDED SOLIDS (mg/L)	4	5	18	
Los Angeles River Reach 25 East				12/16/2021
LATITUDE (approx.)	33.803965	33.800976	33.79033	Post-Work WQ Monitoring & Sampling Results For Thursday 12/16, Isaac Ochoa and I arrived 0700 on-site to perform post water quality monitoring and sampling at the Los Angeles River Reach 25 East. Field crew completed all vegetation removal. The heavy storm from Tuesday December 14, 2021 washed in lots of debris into the channel and lots of puddle scattered throughout the channel which even caused the water not be clear. There were lots of birds and even spotted turtles swimming in the water channel. Turbidity readings were extremely high at both internal and downstream due to debris washed into the. Between 0722 and 0753, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/16 on 24-hour TAT. Results for TSS will be available Friday afternoon, 12/17.
LONGITUDE (approx.)	-118.20493	-118.205477	-118.20497	
ELEVATION (approx.)	7	3	3	
TIME	7:22	7:39	7:53	
SAMPLE NO.	LARR25E-1	LARR25E-2	LARR25E-3	
TEMPERATURE (°C)	9.13	8.17	9.69	
pH	8.6	8.65	8.42	
TURBIDITY (NTUs)	11.87	14.53	33.93	
DISSOLVED O ₂ (mg/L)	9.9	9.76	9.82	
TOTAL SUSPENDED SOLIDS (mg/L)	12	11	39	
Los Angeles River Reach 25 West				10/13/2021
LATITUDE (approx.)	33.804022	33.800921	33.790174	Pre-Clearing/Baseline For Wednesday 10/13, I arrived on-site at 0655 and met with City Harvey from Stormwater Maintenance Imperial Yard to perform baseline water quality sampling and monitoring at Los Angeles River Reach 25 West. Water flow was steady throughout the channel, but there were lots of debris in the channel. All sampling points were down in the channel going down the rip-rap slope into the channel. Baseline was done three (3) days prior to start date. Between 0707 and 0802, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/13 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/14. From a water quality standpoint, project is "good to go" for start on Friday 10/15.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:02	7:37	7:07	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	16.9	16.6	16.9	
pH	8.23	7.69	7.69	
TURBIDITY (NTUs)	2.72	6.08	3.25	
DISSOLVED O ₂ (mg/L)	9.99	10	9.64	
TOTAL SUSPENDED SOLIDS (mg/L)	8	16	7	
Los Angeles River Reach 25 West				10/15/2021
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Friday 10/15, 1st day of field work, I arrived on site at 0845 and met Joaquin Valdez from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was high at the internal sampling point due to the massive debris and birds and ducks in the water. Between 0920 and 0952, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/15 on 24-hour TAT. Results for TSS will be available Monday afternoon, 10/18. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:52	9:40	9:20	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20.5	20.9	19.2	
pH	7.86	8.24	8.29	
TURBIDITY (NTUs)	3.61	16.67	3.36	
DISSOLVED O ₂ (mg/L)	10.05	10.03	10.06	
TOTAL SUSPENDED SOLIDS (mg/L)	10	20	18	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 West 10/16/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Saturday 10/16, 2nd day of field work, I arrived on site at 0800 and met Joaquin Valdez from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Also water level seems to have slightly risen from previous day (10/15/2021). Turbidity readings was high at the internal and downstream sampling points due to the massive debris and birds and ducks in the water. Between 0810 and 00859, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/18 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/19. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:59	8:39	8:10	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	17.7	17.9	16.7	
pH	8.86	7.95	8.24	
TURBIDITY (NTUs)	1.87	7.11	3.06	
DISSOLVED O ₂ (mg/L)	10	9.97	10.03	
TOTAL SUSPENDED SOLIDS (mg/L)	27	11	13	
Los Angeles River Reach 25 West 10/18/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Monday 10/18, 3rd day of field work, I arrived on site at 0815 and met Tom Fischer from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. Water levels were very high due to the high tide coming in from the rains at certain parts of the county. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was high at the internal and downstream sampling points due to the massive debris and birds and ducks in the water. Between 0831 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/18 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/19. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:20	9:05	8:31	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	18.8	18.8	18.8	
pH	8.99	7.98	8.41	
TURBIDITY (NTUs)	2	4.87	2.51	
DISSOLVED O ₂ (mg/L)	9.95	9.75	10	
TOTAL SUSPENDED SOLIDS (mg/L)	6	17	20	
Los Angeles River Reach 25 West 10/19/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/19, 4th day of field work, I arrived on site at 0800 and met Tom Fischer from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. Water levels were still very high due to the high tide caused by the rains at certain parts of the county from the previous day (10/18/2021).. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was high at the internal and downstream sampling points due to the massive debris and birds and ducks in the water. Between 0817 and 0855, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/19 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/20. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:55	8:48	8:17	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	17.1	18.3	17.2	
pH	8.82	8.27	8.84	
TURBIDITY (NTUs)	2.77	12.39	4.28	
DISSOLVED O ₂ (mg/L)	10.04	8.99	9.34	
TOTAL SUSPENDED SOLIDS (mg/L)	6	18	23	
Los Angeles River Reach 25 West 10/20/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Wednesday 10/20, 5th day of field work, I arrived on site at 0830 and met Tom Fischer from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. Water levels were still very high. There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was high at the internal sampling points due to the massive debris and birds and ducks in the water. Between 0839 and 0925, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/20 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/21. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:25	9:10	8:39	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	18.3	18.4	17.5	
pH	9.04	8.26	8.61	
TURBIDITY (NTUs)	2.16	4.47	2.58	
DISSOLVED O ₂ (mg/L)	9.97	9.31	10	
TOTAL SUSPENDED SOLIDS (mg/L)	6	18	15	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 West 10/21/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/21, 6th day of field work, I arrived on site at 0750 and met Tom Fischer from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The K-railings were placed on the north side of Willow Street bridge. Water levels went down little . There was mostly lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Turbidity readings was slightly high at the internal sampling points due to the massive debris and birds and ducks in the water. Between 0809 and 0858, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/21 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/22. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:58	8:38	8:09	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	17.6	17.7	17.1	
pH	8	8.07	8.73	
TURBIDITY (NTUs)	2.96	6.08	3.08	
DISSOLVED O ₂ (mg/L)	10.04	9.98	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	5	16	16	
Los Angeles River Reach 25 West 10/22/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Friday 10/22, 7th day of field work, I arrived on site at 0825 and met Paul Briseno from Stormwater Maintenance Imperial yard to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Water levels have gone down more than previous day. There is still lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Between 0839 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 10/22 on 24-hour TAT. Results for TSS will be available Monday afternoon, 10/25. I notified Jeremy Winston of the turbidity results. GMED will now transition to weekly water quality sampling.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:20	9:11	8:39	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20	19.7	20.3	
pH	7.41	8.01	8.68	
TURBIDITY (NTUs)	3.35	3.82	2.57	
DISSOLVED O ₂ (mg/L)	9.98	10	9.51	
TOTAL SUSPENDED SOLIDS (mg/L)	9	10	12	
Los Angeles River Reach 25 West 10/28/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/28, 12th day of field work, Humberto Rios Jr and I arrived on site at 0825 to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. There were lots of puddles scattered caused by water tides caused water overflow throughout the soft bottom channel due to the rain on Monday 10/25/2021. There is still lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Between 0845 and 0945, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/28 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/29. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	9:45	9:15	8:45	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	20.7	20.7	19.9	
pH	7.69	8.11	8.28	
TURBIDITY (NTUs)	4.47	3.95	2.7	
DISSOLVED O ₂ (mg/L)	10	9.99	19.9	
TOTAL SUSPENDED SOLIDS (mg/L)	15	8	5	
Los Angeles River Reach 25 West 11/4/2021				
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/04, 19th day of field work, I arrived on site at 0750 to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. The Los Angeles County Sheriff Department along with Ocean Blue were on site at the levee near Willow Street Bridge for the cleanup of the homeless encampment. The water level rose a lot causing eater flow in the channel at the internal sampling point (photo attached) There is still lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Between 0800 and 0835, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/04 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/05. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	8:00	8:14	8:35	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	19.4	19.5	19	
pH	8.46	7.32	7.75	
TURBIDITY (NTUs)	1.47	2.6	2.06	
DISSOLVED O ₂ (mg/L)	9.79	9.68	9.89	
TOTAL SUSPENDED SOLIDS (mg/L)	3	14	175	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Los Angeles River Reach 25 West		11/11/2021		
LATITUDE (approx.)	33.804022	33.800921	33.790174	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/11, 25th day of field work, I arrived on site at 0955 to perform water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew were working by the gas pipeline bridge clearing vegetation. There is still lots of debris spread throughout the soft bottom channel including furniture thrown off the PCH bridge. Water was not clear as well. Between 1000 and 1044, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/11 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/12. I notified Jeremy Winston of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	10:44	10:36	10:00	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	26.1	24.9	22.2	
pH	8.94	8.77	7.83	
TURBIDITY (NTUs)	3.06	3.65	2.95	
DISSOLVED O ₂ (mg/L)	9.66	9.96	10	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	1	25	
Los Angeles River Reach 25 West		11/13/2021		
LATITUDE (approx.)	33.804022	33.800921	33.790174	Post-Work WQ Monitoring & Sampling Results For Saturday 11/13, I arrived on site at 0939 and met with Gilbert Ulloa from Stormwater Maintenance Imperial Yard to perform post water quality monitoring and sampling at the Los Angeles River Reach 25 West. Field crew completed all vegetation cleanout on the west side of the channel. There is still lots of debris and ducks in the channel. Water was not clear as well. Between 0940 and 1020, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I notified Gilbert Ulloa of the turbidity results.
LONGITUDE (approx.)	-118.20572	-118.20572	-118.206032	
ELEVATION (approx.)	17.7	16.4	6.6	
TIME	10:20	10:10	9:40	
SAMPLE NO.	LARR25W-1	LARR25W-2	LARR25W-3	
TEMPERATURE (°C)	25.6	24.9	22.6	
pH	8.03	8.8	7.4	
TURBIDITY (NTUs)	3	2.59	1.91	
DISSOLVED O ₂ (mg/L)	9.77	9.91	9.89	
TOTAL SUSPENDED SOLIDS (mg/L)	9	8	9	
Pacoima Wash Reach 15		9/22/2021		
LATITUDE (approx.)				Pre-Clearing/Baseline For September 21, 2021, Sam Hinojos and I arrived on site to perform both baseline and 2nd day of water quality sampling and monitoring at Pacoima Wash Reach 15. The email request was received late Monday afternoon so we missed the 1st day of field operations. The attached photo is the downstream sampling point is approximately 1320' (1/4-mile) s/o intersection of Lanark Street and Saloma Ave in the bottom center of the open-box concrete channel adjacent to the boundary between the end of the soft bottom channel (SBC) and the start of the open-box concrete. Access is through the locked gate at the end of Lanark Street on the west side of the wash, south along the access road and the down the concrete slope to the channel bottom. As shown in the picture, the water is dry on the south side of the BMP. No water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Pacoima Wash Reach 15		9/22/2021		
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22, 2021, 2nd day of field work, Sam Hinojos and I arrived at 1135 on site to perform water quality sampling and monitoring at Pacoima Wash Reach 15. The attached photo is the downstream sampling point is approximately 1320' (1/4-mile) s/o intersection of Lanark Street and Saloma Ave in the bottom center of the open-box concrete channel adjacent to the boundary between the end of the soft bottom channel (SBC) and the start of the open-box concrete. Access is through the locked gate at the end of Lanark Street on the west side of the wash, south along the access road and the down the concrete slope to the channel bottom. As shown in the picture, there is some water flow but water is so thin, I was unable to collect sample. Also I observed the south portion of the channel and there was no water flow. No water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Pacoima Wash Reach 15					10/9/2021					
LATITUDE (approx.)						Post-Work WQ Monitoring & Sampling Results				
LONGITUDE (approx.)						For October 09, 2021, I arrived on-site at 0839 on site to perform post water quality sampling and monitoring at Pacoima Wash Reach 15. Field crew completed all the vegetation cleanout inside the channel and all the BMPs were pulled from site. The attached photo is the downstream sampling point is approximately 1320' (1/4-mile) s/o intersection of Lanark Street and Saloma Ave in the bottom center of the open-box concrete channel adjacent to the boundary between the end of the soft bottom channel (SBC) and the start of the open-box concrete. Access is through the locked gate at the end of Lanark Street on the west side of the wash, south along the access road and the down the concrete slope to the channel bottom. As shown in the picture, the water flow on the east side of the channel, but I was unable to collect sample because the water was thin. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).				
ELEVATION (approx.)										
TIME										
SAMPLE NO.										
TEMPERATURE (°C)										
pH										
TURBIDITY (NTUs)										
DISSOLVED O ₂ (mg/L)										
TOTAL SUSPENDED SOLIDS (mg/L)										
Project 74 Reach 26					9/9/2021					
LATITUDE (approx.)	33.874239	33.872023	33.871242			Pre-Clearing/Baseline				
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309							
ELEVATION (approx.)	10	10	7							
TIME	8:03	7:49	7:52			For Thursday, 09/09 – arrived on the jobsite at 0740am met with Cesar Brambila from Stormwater Maintenance 83rd Westchester Yard . Performed pre-work baseline monitoring and sampling at upstream, internal, and downstream points at the Project 74. Due to a tree branch falling down just several feet west of the upstream sampling point, the water was build up to a foot and there were lots of small fishes swimming around. There was a lot of trash underneath the Artesia Transient Center Bridge. The water was not very clear at the internal sampling point. Baseline monitoring and sampling was performed seven (7) days prior of cleanout start date. Between 0752 and 0803, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/09 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/1. From a water quality standpoint, project is “good to go” for start on Thursday 09/16.				
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3							
TEMPERATURE (°C)	20.3	20.4	20.5							
pH	6.85	7.25	7.28							
TURBIDITY (NTUs)	5.73	17.1	8.59							
DISSOLVED O ₂ (mg/L)	9.93	9.68	9.61							
TOTAL SUSPENDED SOLIDS (mg/L)	57	7	8							
Project 74 Reach 26					9/16/2021					
LATITUDE (approx.)	33.874239	33.872023	33.871242			During Maintenance WQ Monitoring & Sampling Results				
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309							
ELEVATION (approx.)	10	10	7							
TIME	12:16	12:00	12:05							
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3			For Thursday, 09/16 – I arrived on the jobsite at 1150 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal points (photo attached). Field crews were on-site clearing vegetation. Turbidity readings were high at both internal and downstream. Between 1207 and 1235, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Thursday 09/16 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/17.				
TEMPERATURE (°C)	21.6	22.7	22							
pH	7.62	7.89	7.99							
TURBIDITY (NTUs)	5.16	13.01	9.78							
DISSOLVED O ₂ (mg/L)	9.57	9.41	9.8							
TOTAL SUSPENDED SOLIDS (mg/L)	8	22	18							
Project 74 Reach 26					9/17/2021					
LATITUDE (approx.)	33.874239	33.872023	33.871242			During Maintenance WQ Monitoring & Sampling Results				
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309							
ELEVATION (approx.)	10	10	7							
TIME	11:10	10:53	10:58							
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3			For Friday, 09/17 – I arrived on the jobsite at 1049 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal points, however the BMP seemed to have been moved out of place causing an opening for water to go underneath the BMP. Field crews were on-site clearing vegetation. Turbidity readings was high at downstream point. I notified Ricardo Blas Crew Leader of Stormwater Maintenance 83rd Yard of the BMP being moved out of place at the internal point and advised him to also place sand bags as a precaution. Between 1053 and 1110, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Friday 09/17 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/20. I notified Ricardo Blas via phone call of the water sampling results.				
TEMPERATURE (°C)	22.3	25.5	26.6							
pH	7.34	8.43	9.01							
TURBIDITY (NTUs)	4.82	9.82	5.28							
DISSOLVED O ₂ (mg/L)	9.13	9.88	9.83							
TOTAL SUSPENDED SOLIDS (mg/L)	32	25	30							

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Project 74 Reach 26				9/18/2021
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Saturday, 09/18 – I arrived on the jobsite at 1055 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal points. the BMP at internal point was properly placed at location. Field crews were on-site clearing vegetation. Turbidity readings was high at internal point. I notified Ricardo Blas Crew Leader of Stormwater Maintenance 83rd Yard to place sandbags as extra measure. Between 1058 and 1110, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Monday 09/20 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/21. I notified Ricardo Blas via phone call of the turbidity results.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	11:10	10:58	11:03	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	22.3	25.1	26.2	
pH	7.46	8.27	9.03	
TURBIDITY (NTUs)	5.95	10.12	3.45	
DISSOLVED O ₂ (mg/L)	8.99	9.7	9.81	
TOTAL SUSPENDEDED SOLIDS (mg/L)	38	61	64	
Project 74 Reach 26				9/20/2021
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Monday, 09/20 – 4th day of field work, Sam Hinojos and I arrived on the jobsite at 1035 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal points. the BMP at internal point was properly placed at location. Field crews were on-site clearing vegetation. Between 1041 and 1052, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Monday 09/20 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/21. I notified Ricardo Blas via phone call of the turbidity results.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:52	10:41	10:46	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	22.9	24.5	27.4	
pH	7.34	7.27	8.36	
TURBIDITY (NTUs)	17.78	16.78	4.01	
DISSOLVED O ₂ (mg/L)	9.98	9.75	9.1	
TOTAL SUSPENDEDED SOLIDS (mg/L)	36	15	15	
Project 74 Reach 26				9/21/2021
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Tuesday, 09/21 – 5th day of field work, Sam Hinojos and I arrived on the jobsite at 0945 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal point and placed sand bags for both BMPs (photo attached). Field crews were on-site clearing vegetation. Turbidity readings was high at the internal due to a massive amount of larva present and more debris. Between 0948 and 0959, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Tuesday 09/21 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 09/22. I notified Ricardo Blas via phone call of the turbidity results.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	9:59	9:52	9:48	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	23.5	24.6	25.8	
pH	7.66	7.27	7.37	
TURBIDITY (NTUs)	4.92	20.41	3.32	
DISSOLVED O ₂ (mg/L)	9.97	9.25	9.34	
TOTAL SUSPENDEDED SOLIDS (mg/L)	10	12	5	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Project 74 Reach 26				9/22/2021
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Wednesday, 09/22 – 6th day of field work, Sam Hinojos and I arrived on the jobsite at 0945 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal point and placed sand bags for both BMPs. Field crews were on-site clearing vegetation. Between 0952 and 1008, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Wednesday 09/22 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 09/23. I notified Ricardo Blas via phone call of the turbidity results.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:08	9:52	9:58	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	24	24.8	25.7	
pH	7.05	7.26	6.97	
TURBIDITY (NTUs)	24.4	9.64	4.77	
DISSOLVED O ₂ (mg/L)	8.96	10.02	10.06	
TOTAL SUSPENDED SOLIDS (mg/L)	29	10	8	
Project 74 Reach 26				
LATITUDE (approx.)	33.874239	33.872023	33.871242	During Maintenance WQ Monitoring & Sampling Results For Thursday, 09/23 – 7th day of field work, Sam Hinojos and I arrived on the jobsite at 0945 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were placed at the upstream and internal point and placed sand bags for both BMPs. Field crews were on-site clearing vegetation. Between 0952 and 1033, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Thursday 09/23 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/24. I notified Ricardo Blas on-site of the turbidity results. GMED will now transition to weekly water quality and sampling.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	10:33	9:58	9:52	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	23.9	26.6	26.9	
pH	7.54	8.09	8.09	
TURBIDITY (NTUs)	16.41	8.93	2.66	
DISSOLVED O ₂ (mg/L)	9.95	9.59	9.34	
TOTAL SUSPENDED SOLIDS (mg/L)	12	13	7	
Project 74 Reach 26				
LATITUDE (approx.)	33.874239	33.872023	33.871242	Post-Work WQ Monitoring & Sampling Results For Wednesday, 10/06 – I arrived on-site at 0645 to perform post water quality sampling at upstream, internal, and downstream points at the Project 74. BMPs were removed and field crews have completed all work in the channel. The water flow was a lot due to the rain on Monday October 4, 2021. The water was not clear and lots of debris was in the internal sampling point area. Between 0655 and 0709, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) Wednesday 10/06 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/07.
LONGITUDE (approx.)	-118.2904	-118.29044	-118.290309	
ELEVATION (approx.)	10	10	7	
TIME	6:55	6:59	7:09	
SAMPLE NO.	Proj74-1	Proj74-2	Proj74-3	
TEMPERATURE (°C)	22.1	22	21.8	
pH	8.28	7.19	7	
TURBIDITY (NTUs)	28.53	53.72	56.86	
DISSOLVED O ₂ (mg/L)	8.5	8.64	9.95	
TOTAL SUSPENDED SOLIDS (mg/L)	19	18	14	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Rivas Canyon Channel Reach 119		9/29/2021	
LATITUDE (approx.)			Pre-Clearing/Baseline
LONGITUDE (approx.)			<p>For Wednesday September 29, 2021, Sam Hinojos and I arrived 1045 on-site and met with Gustavo Garcia and Jonathan Castillo from 83rd Yard to perform baseline water quality sampling and monitoring. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted. From a water quality standpoint, project is "good to go" for start on Monday 10/04.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rivas Canyon Channel Reach 119		10/4/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)			<p>For Monday October 4, 2021, I arrived 1045 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rivas Canyon Channel Reach 119		10/5/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results
LONGITUDE (approx.)			<p>For Tuesday October 5, 2021, 2nd day of field operations, I arrived at 1045 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.</p>
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Rivas Canyon Channel Reach 119		10/6/2021	
LATITUDE (approx.)			
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
During Maintenance WQ Monitoring & Sampling Results			
<p>For Wednesday October 6, 2021, 3rd day of field operations, I arrived at 0933 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.</p>			
Rivas Canyon Channel Reach 119		10/7/2021	
LATITUDE (approx.)			
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
During Maintenance WQ Monitoring & Sampling Results			
<p>For Thursday October 7, 2021, I arrived at 0933 on-site to perform post water quality sampling and monitoring at Rustic Canyon Channel Reach 119. Attached photo is the internal sampling point located west of the cul-da-sac of Rustic Creek Road, off the southeast side of Sunset Blvd. The section as well as the entire extent of Reach 119 was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements.</p>			

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Rustic Canyon Channel Reach 118				9/29/2021
LATITUDE (approx.)				Pre-Clearing/Baseline For Wednesday September 29, 2021, Sam Hinojos and I arrived 1040 on-site and met with Gustavo Garcia and Jonathan Castillo from 83rd Yard to perform baseline water quality sampling and monitoring. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted. From a water quality standpoint, project is "good to go" for start on Monday 10/04.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118				10/4/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Monday October 04, 2021, 1st day of field operations, I arrived at 1043 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118				10/5/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Tuesday October 05, 2021, 2nd day of field operations, I arrived at 1043 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Rustic Canyon Channel Reach 118				10/6/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For Wednesday October 06, 2021, 3rd day of field operations, I arrived at 0932 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Rustic Canyon Channel Reach 118		10/7/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For Thursday October 07, 2021, 4th day of field operations, I arrived at 1208 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rustic Canyon Channel Reach 118		10/8/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For Friday October 08, 2021, 5th day of field operations, due to work operations and short staff, I was unable to be on-site today at Rustic Canyon Channel Reach 118. However, I did request a picture from Jasson Velez of Stormwater Maintenance 83rd Yard to visually survey the sampling points. Jasson forwarded a picture of the upstream sampling point of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rustic Canyon Channel Reach 118		10/9/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For Saturday October 09, 2021, 6th day of field operations, I arrived at 1208 on-site to perform water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will perform daily site checks to evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
Rustic Canyon Channel Reach 118		10/13/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For Wednesday October 13, 2021, 8th day of field operations was conducted due to staff unavailability from the previous day. Due todays conflict schedule, I called Jason Velez from 83rd yard to send a photo of the Upstream Sampling point of Rustic Canyon Channel. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will now transition to weekly water quality sampling and monitoring evaluate site conditions and will perform water quality monitoring, if warranted.
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Rustic Canyon Channel Reach 118					10/19/2021				
LATITUDE (approx.)					During Maintenance WQ Monitoring & Sampling Results				
LONGITUDE (approx.)					<p>For Tuesday October 19, 2021, 15th day of field operations was conducted due to staff unavailability from the previous day. Due to today's conflict schedule, I called Jason Velez from 83rd yard to send a photo of the Upstream Sampling point of Rustic Canyon Channel. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements. GMED will now transition to weekly water quality sampling and monitoring evaluate site conditions and will perform water quality monitoring, if warranted.</p>				
ELEVATION (approx.)									
TIME									
SAMPLE NO.									
TEMPERATURE (°C)									
pH									
TURBIDITY (NTUs)									
DISSOLVED O ₂ (mg/L)									
TOTAL SUSPENDED SOLIDS (mg/L)									
Rustic Canyon Channel Reach 118									
LATITUDE (approx.)					Post-Work WQ Monitoring & Sampling Results				
LONGITUDE (approx.)					<p>For Tuesday October 26, 2021, I arrived at 1009 on-site to perform post water quality sampling and monitoring at Rustic Canyon Channel Reach 118. Attached photo is the upstream sampling of the concrete check dam located 220' north of the palm tree located west side of the creek. Water runs down from the top portion of the concrete check dam into creek. As shown there is no water fall on the concrete check dam and the creek was dry. No water sampling was performed because the project did not meet Regional Water Quality Board permit requirements.</p>				
ELEVATION (approx.)									
TIME									
SAMPLE NO.									
TEMPERATURE (°C)									
pH									
TURBIDITY (NTUs)									
DISSOLVED O ₂ (mg/L)									
TOTAL SUSPENDED SOLIDS (mg/L)									
San Gabriel River Reach 115 West									
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417		Pre-Clearing/Baseline				
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334		<p>For Wednesday 09/29, Sam Hinojos and I arrived 0750 and perform baseline water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. Then for each sampling point we walked down the rip-rap slope. Baseline water quality monitoring and sampling was done five (5) days prior to start date. Between 0800 and 0840, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 09/29 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 09/30. From a water quality standpoint, project is "good to go" for start on Monday 10/04.</p>				
ELEVATION (approx.)	14	16	19						
TIME	8:00	8:20	8:40						
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3						
TEMPERATURE (°C)	23.1	22.5	22.9						
pH	7.62	6.81	7.1						
TURBIDITY (NTUs)	1.34	4.04	3.78						
DISSOLVED O ₂ (mg/L)	9.15	8.9	9						
TOTAL SUSPENDED SOLIDS (mg/L)	31	28	1						
San Gabriel River Reach 115 West									
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417		During Maintenance WQ Monitoring & Sampling Results				
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334		<p>For Monday 10/04, I arrived 0550 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was placed along the channel where field crews were removing vegetation along the rip-rap slope (photo attached). Water was clean on the concrete apron, but was dirty with debris as well as greenish color as well along the sides. Turbidity readings were slightly high at both internal and downstream points. Between 0900 and 0940, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/04 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/05. I notified Elias Herrera of the turbidity results</p>				
ELEVATION (approx.)	14	16	19						
TIME	9:00	9:12	9:35						
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3						
TEMPERATURE (°C)	25.3	24.6	24.2						
pH	7.36	7.09	7.32						
TURBIDITY (NTUs)	2.25	4.35	3.52						
DISSOLVED O ₂ (mg/L)	9.99	9.5	9.6						
TOTAL SUSPENDED SOLIDS (mg/L)	3	32	15						

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 115 West 10/5/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/05, I arrived 0820 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was placed along the channel where field crews were removing vegetation along the rip-rap slope. Due to the rain from yesterday (10/4/2021) both the upstream water level reached the concrete slope and there were lots of debris inside the channel (photo attached). Between 0830 and 0910, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/05 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/06. I notified Elias Herrera of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	8:30	8:50	9:10	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	25.2	24.8	24.9	
pH	7.89	7.42	7.11	
TURBIDITY (NTUs)	17	19.73	18.98	
DISSOLVED O ₂ (mg/L)	8.99	8.62	9.96	
TOTAL SUSPENDED SOLIDS (mg/L)	1720	71	238	
San Gabriel River Reach 115 West 10/13/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Wednesday 10/13, 4th day in the job, 3rd day was not performed due to staff unavailability. I arrived 839 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was placed along the channel where field crews were removing vegetation along the rip-rap slope. There were lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream. Between 0842 and 0905, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/13 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/14. I notified Manuel Chavez of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	8:42	8:57	9:05	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	19.1	19.9	19.9	
pH	7.93	6.68	7.04	
TURBIDITY (NTUs)	1.61	5.06	4.02	
DISSOLVED O ₂ (mg/L)	10.01	9.72	9.55	
TOTAL SUSPENDED SOLIDS (mg/L)	2	35	28	
San Gabriel River Reach 115 West 10/14/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Thursday 10/14, 5th day in the job, I arrived 1029 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was placed along the channel where field crews were removing vegetation along the rip-rap slope. There were lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream. Between 1030 and 1050, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 10/14 on 24-hour TAT. Results for TSS will be available Friday afternoon, 10/15. I notified Manuel Chavez of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	10:30	10:37	10:50	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	23.3	22.7	22.1	
pH	8.62	7.32	7.31	
TURBIDITY (NTUs)	1.62	5.97	4.31	
DISSOLVED O ₂ (mg/L)	9.56	9.4	9.49	
TOTAL SUSPENDED SOLIDS (mg/L)	2	14	24	
San Gabriel River Reach 115 West 10/18/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Monday 10/18, 6th day in the job, I arrived 1000 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP has been moved from its previous location down south along the channel (photo attached). where field crews were removing vegetation along the rip-rap slope. Water levels were high due to the high tide due to some rains in certain cities in the county making its way do the channel. There were also lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream. Between 1005 and 1022, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 10/18 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 10/19. I notified Manuel Chavez of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	10:05	10:15	10:22	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.4	21.2	21.5	
pH	8.17	7.22	7.21	
TURBIDITY (NTUs)	2.15	3.63	4.39	
DISSOLVED O ₂ (mg/L)	9.7	9.25	9.1	
TOTAL SUSPENDED SOLIDS (mg/L)	14	39	50	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 115 West				
10/19/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/19, 7th day in the job, I arrived 0929 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP has been moved from its previous location down south along the channel. Field crews were removing vegetation along the rip-rap slope. Water levels were high due to the high tide due to some rains in certain cities in the county making it way do the channel. There were also lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream. Between 0934 and 0951, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/19 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/20. GMED will now transition to weekly water quality sampling. I notified Manuel Chavez of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	9:34	9:45	9:51	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.1	21.2	20.8	
pH	7.46	7.29	7.59	
TURBIDITY (NTUs)	3.01	3.22	4.2	
DISSOLVED O ₂ (mg/L)	9.41	9.65	9.74	
TOTAL SUSPENDED SOLIDS (mg/L)	28	62	57	
San Gabriel River Reach 115 West				
10/26/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Tuesday 10/26, 11th day in the job, I arrived 0800 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP is still placed at the same location. Water levels were normal even after rain from the previous day (10/25/2021). Field crews were removing vegetation along the rip-rap slope. There is still lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream due to the debris from that washed in from the rain from the previous day. Between 0817 and 00834, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 10/26 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 10/27. GMED will now transition to weekly water quality sampling. I notified Elias Herrera of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	8:17	8:23	8:34	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	19.4	18.8	18.5	
pH	8.21	7.72	7.52	
TURBIDITY (NTUs)	2.43	9.6	9.1	
DISSOLVED O ₂ (mg/L)	9.88	9.62	9.79	
TOTAL SUSPENDED SOLIDS (mg/L)	5	25	26	
San Gabriel River Reach 115 West				
11/2/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/02, 15th day in the job, Humberto Rios Jr and I arrived 0959 and performed water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was moved from its previous location as field crew is continuing vegetation removal as they make their way towards the 405 overpass bridge (photo attached). There is still lots of birds, ducks and underwater animals swimming in the channel. Also lots of debris in the water channel itself. Turbidity readings were high at both internal and downstream due to the debris and the green color in the river. Between 1008 and 1024, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/02 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/03. GMED will now transition to weekly water quality sampling. I notified Elias Herrera of the turbidity results.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	10:08	10:15	10:24	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.6	21.7	21.1	
pH	8.08	7.22	7.21	
TURBIDITY (NTUs)	1.58	6.53	5.44	
DISSOLVED O ₂ (mg/L)	9.91	8.94	8.98	
TOTAL SUSPENDED SOLIDS (mg/L)	1	22	27	
San Gabriel River Reach 115 West				
11/9/2021				
LATITUDE (approx.)	33.7910592	33.7888247	33.7872417	Post-Work WQ Monitoring & Sampling Results For Tuesday 11/09, I arrived on-site at 0915 and performed post water quality monitoring and sampling at the San Gabriel River Reach 115 West. The work limits are 4,760 feet south of Willow Street (transition of the concrete section to the soft bottom channel) to the 405 freeway north side of the bridge. The BMP was removed and all vegetation has been removed. Water inside the channel was still green as well as lots of birds, ducks and underwater animals swimming in the channel. Between 0906 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/09 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/10.
LONGITUDE (approx.)	-118.09208	-118.0930114	-118.0938334	
ELEVATION (approx.)	14	16	19	
TIME	9:06	9:11	9:20	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	22.2	21.9	21.7	
pH	8.58	7.41	7.45	
TURBIDITY (NTUs)	3.01	3.2	3.43	
DISSOLVED O ₂ (mg/L)	9.86	7.41	7.45	
TOTAL SUSPENDED SOLIDS (mg/L)	10	53	29	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 115 West North of College Parkway				
10/27/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	Pre-Clearing/Baseline For Wednesday 10/27, I arrived 0900 on site to perform baseline water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Entrance is off of the access gate door from College Park Drive along the levee all the way to the south side of the San Diego (405) Freeway. Baseline water quality monitoring and sampling was done seven (7) days prior to start date. Between and 0915, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 10/27 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 10/28. From a water quality standpoint, project is "good to go" for start on Wednesday 11/03.
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:15	9:35	9:45	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.3	21.3	21.3	
pH	7.4	7.5	7.47	
TURBIDITY (NTUs)	2.32	2.02	1.95	
DISSOLVED O ₂ (mg/L)	8.89	9.62	9.66	
TOTAL SUSPENDED SOLIDS (mg/L)	43	31	40	
San Gabriel River Reach 115 West North of College Parkway				
11/4/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/04, I arrived 0910 on site to perform baseline water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Due to change in start date for this project baseline had to redone again per regional water quality guidelines. Entrance is off of the access gate door from College Park Drive along the levee all the way to the south side of the San Diego (405) Freeway. Water levels rose where water was seen near the rip-rap slope. Baseline water quality monitoring and sampling was done five (5) days prior to start date. Between 0922 and 0954, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/04 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/05. From a water quality standpoint, project is "good to go" for start on Monday 11/08.
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:22	9:32	9:54	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	20.8	20.6	20.5	
pH	7.51	7.1	7.67	
TURBIDITY (NTUs)	2.41	2.25	2.2	
DISSOLVED O ₂ (mg/L)	9.67	9.61	9.7	
TOTAL SUSPENDED SOLIDS (mg/L)	31	37	31	
San Gabriel River Reach 115 West North of College Parkway				
11/8/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Monday 11/08, 1st day of field operations, I arrived 1039 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. BMP was placed along the channel where field crew are removing vegetation (photo attached). Water level is still rising and there were lots of debris and birds in the water. Turbidity reading was slightly high at the internal sampling point. Between 1048 and 1110, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/08 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/09. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	10:48	10:58	11:10	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	22	21.8	21.8	
pH	7.33	6.94	7.03	
TURBIDITY (NTUs)	1.5	2.2	1.31	
DISSOLVED O ₂ (mg/L)	9.37	9.44	9.71	
TOTAL SUSPENDED SOLIDS (mg/L)	35	42	33	
San Gabriel River Reach 115 West North of College Parkway				
11/9/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/09, 2nd day of field operations, I arrived 0920 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. BMP was placed along the channel where field crew are removing vegetation. Water level did go down little and water appeared al little clear the edge water channel. Between 0922 and 1016, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/09 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/10. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:22	10:00	10:16	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.7	22.4	22.2	
pH	7.38	7.6	7.24	
TURBIDITY (NTUs)	4.88	2.29	1.48	
DISSOLVED O ₂ (mg/L)	9.45	9.46	9.41	
TOTAL SUSPENDED SOLIDS (mg/L)	35	42	33	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 115 West North of College Parkway				
11/10/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Wednesday 11/10, 3rd day of field operations, I arrived 0910 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. BMP was placed along the channel as field crew continue removing vegetation by the 405 Freeway bridge south side. Water level did go down little and water appeared al little clear the edge water channel. Between 0916 and 0945, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/10 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/11. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:16	9:27	9:45	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	22.5	22.3	21.9	
pH	7.57	7.5	7.27	
TURBIDITY (NTUs)	2.79	2.5	1.89	
DISSOLVED O ₂ (mg/L)	9.41	9.44	9.65	
TOTAL SUSPENDED SOLIDS (mg/L)	28	35	31	
San Gabriel River Reach 115 West North of College Parkway				
11/15/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Monday 11/15, 4th day of field operations, I arrived 1010 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew returned after the long weekend (Veterans Day) and continue to perform clean outs from the channel and rip-rap slope. BMP was moved down south (photo attached). Between 1019 and 1047, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/15 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/16. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	10:19	10:30	10:47	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	23.4	24.7	24.4	
pH	6.91	7.12	7.11	
TURBIDITY (NTUs)	3.12	3.22	2.43	
DISSOLVED O ₂ (mg/L)	9.81	9.75	9.8	
TOTAL SUSPENDED SOLIDS (mg/L)	26	59	49	
San Gabriel River Reach 115 West North of College Parkway				
11/16/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Monday 11/16, 5th day of field operations, I arrived 1010 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew continue to work down south of the channel to perform clean outs from the channel and rip-rap slope. BMP was moved down south. Between 1032 and 1052, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/16 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/17. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	10:32	10:38	10:52	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	20.8	20	21.4	
pH	7.58	7.12	7.5	
TURBIDITY (NTUs)	2.05	3.89	1.52	
DISSOLVED O ₂ (mg/L)	9.72	9.84	9.8	
TOTAL SUSPENDED SOLIDS (mg/L)	34	16	56	
San Gabriel River Reach 115 West North of College Parkway				
11/17/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Wednesday 11/17, 6th day of field operations, I arrived 0958 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew continue to work down south of the channel to perform clean outs from the channel and rip-rap slope. BMP was moved down south. Between 1005 and 1024, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 11/17 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 11/18. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	10:15	10:24	10:05	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	21.4	21.7	21.5	
pH	7.2	7.23	7.16	
TURBIDITY (NTUs)	2.37	1.79	1.33	
DISSOLVED O ₂ (mg/L)	9.7	9.78	9.79	
TOTAL SUSPENDED SOLIDS (mg/L)	37	43	31	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 115 West North of College Parkway				
11/18/2021				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Thursday 11/18, 7th day of field operations, I arrived 0939 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew continue to work down south of the channel to perform clean outs from the channel and rip-rap slope. BMP was moved down south. Between 0945 and 1000, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 11/18 on 24-hour TAT. Results for TSS will be available Friday afternoon, 11/19. I informed Elias Herrera via phone call of the turbidity results
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:53	10:00	9:45	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	19.9	20.5	20.3	
pH	7.23	7.22	7.02	
TURBIDITY (NTUs)	2.45	1.87	1.82	
DISSOLVED O ₂ (mg/L)	9.2	8.9	9.46	
TOTAL SUSPENDED SOLIDS (mg/L)	36	42	32	
San Gabriel River Reach 115 West North of College Parkway				
12/2/2022				
LATITUDE (approx.)	33.78608	33.78375	33.78251	During Maintenance WQ Monitoring & Sampling Results For Thursday 12/02, 13th day of field operations, there was no water sampling on November 25, 2021 due to the Thanksgiving Holiday, I arrived 0920 on site to perform water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew continue to work down south of the channel to perform clean outs from the channel and rip-rap slope. BMP was moved down further south (photo attached). Turbidity reading was high at internal point due to lots of debris and ducks in the water. Between 0935 and 1000, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 12/02 on 24-hour TAT. Results for TSS will be available Friday afternoon, 12/03
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	9:35	9:47	10:00	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	18.9	18.9	18.3	
pH	6.92	7.44	7.77	
TURBIDITY (NTUs)	1.92	4.36	1.97	
DISSOLVED O ₂ (mg/L)	9.68	9.39	9.69	
TOTAL SUSPENDED SOLIDS (mg/L)	13.4	34.8	46	
San Gabriel River Reach 115 West North of College Parkway				
1/10/2022				
LATITUDE (approx.)	33.78608	33.78375	33.78251	Post-Work WQ Monitoring & Sampling Results For Monday 01/10, Isaac Ochoa and I arrived 0700 on site to perform post water quality monitoring and sampling at the San Gabriel River Reach 115 West between San Diego (405) Freeway to College Park Drive. Field crew completed all vegetation removal and BMP was removed. Turbidity reading was high at internal and downstream points due to lots of debris and ducks in the water. Between 0713 and 0734, I collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 01/10 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 01/11.
LONGITUDE (approx.)	-118.09446	-118.09562	-118.09623	
ELEVATION (approx.)	5	4	4	
TIME	7:13	7:24	7:34	
SAMPLE NO.	SGRR115-1	SGRR115-2	SGRR115-3	
TEMPERATURE (°C)	14	14.4	14.1	
pH	7.55	7.72	7.65	
TURBIDITY (NTUs)	1.35	7.09	3.34	
DISSOLVED O ₂ (mg/L)	9.12	8.72	8.96	
TOTAL SUSPENDED SOLIDS (mg/L)	12	29	16	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 43		9/13/2021						Pre-Clearing/Baseline
LATITUDE (approx.)								For September 13, 2021, Sam Hinojos and I arrived on site about 1035 to evaluate surface water flow prior to initiating baseline monitoring and sampling at upstream, internal, and downstream. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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. From a water quality standpoint, project is "good to go" for start on Thursday 09/16.
LONGITUDE (approx.)								
ELEVATION (approx.)								
TIME								
SAMPLE NO.								
TEMPERATURE (°C)								
pH								
TURBIDITY (NTUs)								
DISSOLVED O ₂ (mg/L)								
TOTAL SUSPENDED SOLIDS (mg/L)								
San Gabriel River Reach 43		9/20/2021						Pre-Clearing/Baseline
LATITUDE (approx.)								For September 20, 2021, Sam Hinojos and I arrived on site about 1204 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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.
LONGITUDE (approx.)								
ELEVATION (approx.)								
TIME								
SAMPLE NO.								
TEMPERATURE (°C)								
pH								
TURBIDITY (NTUs)								
DISSOLVED O ₂ (mg/L)								
TOTAL SUSPENDED SOLIDS (mg/L)								
San Gabriel River Reach 43		9/21/2021						During Maintenance WQ Monitoring & Sampling Results
LATITUDE (approx.)								For September 21, 2021, Sam Hinojos arrived on site about 0819 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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.
LONGITUDE (approx.)								
ELEVATION (approx.)								
TIME								
SAMPLE NO.								
TEMPERATURE (°C)								
pH								
TURBIDITY (NTUs)								
DISSOLVED O ₂ (mg/L)								
TOTAL SUSPENDED SOLIDS (mg/L)								
San Gabriel River Reach 43		9/22/2021						During Maintenance WQ Monitoring & Sampling Results
LATITUDE (approx.)								For September 22, 2021, Sam Hinojos arrived on site about 0820 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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.
LONGITUDE (approx.)								
ELEVATION (approx.)								
TIME								
SAMPLE NO.								
TEMPERATURE (°C)								
pH								
TURBIDITY (NTUs)								
DISSOLVED O ₂ (mg/L)								
TOTAL SUSPENDED SOLIDS (mg/L)								

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 43				9/22/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22, 2021, Sam Hinojos arrived on site about 0820 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				9/23/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 23, 2021, Sam Hinojos arrived on site about 0825 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				9/24/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 24, 2021, I arrived on site about 0854 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				9/27/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 27, 2021, 6th day of field work, Sam Hinojos arrived on site about 0810 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 43		9/28/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For September 28, 2021, 7th day of field work, Sam Hinojos arrived on site about 0800 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The area was dry. Baseline water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring to continue to monitor the area to re-confirm conditions
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
San Gabriel River Reach 43		10/5/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For October 5, 2021, 14th day of field work, I arrived on site about 0745 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The west side of the channel has water due to the discharge from the outlet located on the west side of the Rubber dam #2. The area was dry. Water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring to continue to monitor the area to re-confirm conditions
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
San Gabriel River Reach 43		10/19/2021	
LATITUDE (approx.)			During Maintenance WQ Monitoring & Sampling Results For October 19, 2021, 28th day of field work, I arrived on site about 1248 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The west side of the channel has water due to the discharge from the outlet located on the west side of the Rubber dam #2. The area was dry. Water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring to continue to monitor the area to re-confirm conditions
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			
San Gabriel River Reach 43		11/2/2021	
LATITUDE (approx.)			Post-Work WQ Monitoring & Sampling Results For November 02, 2021, unable to report on October 26, 2021 due to emergency assistance 37th day of field work, I arrived on site about 1248 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The west side of the channel has water due to the discharge from the outlet located on the west side of the Rubber dam #2. The area was dry. Water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring to continue to monitor the area to re-confirm conditions
LONGITUDE (approx.)			
ELEVATION (approx.)			
TIME			
SAMPLE NO.			
TEMPERATURE (°C)			
pH			
TURBIDITY (NTUs)			
DISSOLVED O ₂ (mg/L)			
TOTAL SUSPENDED SOLIDS (mg/L)			

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 43				11/9/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For November 09 2021, I arrived on site about 1139 to perform water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The west side of the channel has water due to the discharge from the outlet located on the west side of the Rubber dam #2. The area was dry. Water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring to continue to monitor the area to re-confirm conditions
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 43				11/16/2021
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For November 16 2021, I arrived on site about 0705 to perform post water monitoring at San Gabriel River Reach 44. Attached is a photo of the upstream sampling point located end of Reach 44 Lower @ at Rubber Dam #2. Reach extends south to Firestone Blvd with the San Gabriel Coastal Spreading Grounds. The west side of the channel has water due to the discharge from the outlet located on the west side of the Rubber dam #2. The area was dry. Water quality monitoring and sampling not performed because the site did not meet Regional Water Quality Control Board (RWQCB).
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				9/13/2021
LATITUDE (approx.)				Pre-Clearing/Baseline For September 13, 2021, Sam Hinojos and I arrived on site about 1023 am, to evaluate surface water flow prior to initiating baseline monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. Baseline water quality monitoring and 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 From a water quality standpoint, project is "good to go" for start on Thursday 09/16.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				9/16/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 16, 2021, I arrived on site about 1330, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 44				9/17/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 17, 2021, I arrived on site about 1251, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				9/20/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 20, 2021, Sam Hinojos and I arrived on site about 1155, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				9/21/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 21, 2020, Sam Hinojos arrived on site about 0805, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44				9/22/2021
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 22, 2021, Sam Hinojos arrived on site about 0809, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 44		9/23/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 23, 2021, Sam Hinojos arrived on site about 0819, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and 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.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
San Gabriel River Reach 44		9/24/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 24, 2021, I arrived on site about 0845, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB). GMED will now transition to weekly water monitoring the area to re-confirm conditions.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
San Gabriel River Reach 44		9/30/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 30, 2021, 11th day of field work, Sam Hinojos and I arrived on site about 0955, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Gabriel River Reach 44		10/14/2021		
LATITUDE (approx.)				<p align="center">During Maintenance WQ Monitoring & Sampling Results</p> <p align="center">For October 14, 2021, 24th day of field work, I arrived on site about 1141, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
San Gabriel River Reach 44		10/21/2021		
LATITUDE (approx.)				<p align="center">Post-Work WQ Monitoring & Sampling Results</p> <p align="center">For October 21, 2021, I arrived on site about 1140, to perform post water quality monitoring and sampling at upstream, internal, and downstream points. Attached is a photo of the downstream sampling point of Reach 43 at the Beverly Blvd bridge. The view is northwest from the top of the east levee. As shown, the downstream was dry. No water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).</p>
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Jose Creek Reach 42				1/11/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	Pre-Clearing/Baseline For Tuesday 01/11, I arrived on site at 0800 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform baseline water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Baseline water quality monitoring and sampling was done one (1) day prior to start date. There were lots of debris inside the channel as the private contractor is removing trees that came in through the storms and lots of vegetation. Was unable to sample at the middle of the channel for the internal point because the water levels were very high, so sampled by the rip rap slope. Between 0819 and 0835, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 01/11 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 01/12. From a water quality standpoint, project is "good to go" for start on Wednesday 01/12.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	8:19	8:27	8:35	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	11.7	11.2	10.1	
pH	8.81	8.17	8.42	
TURBIDITY (NTUs)	2.39	1.71	2.11	
DISSOLVED O ₂ (mg/L)	9.89	9.98	9.97	
TOTAL SUSPENDED SOLIDS (mg/L)	ND	ND	ND	
San Jose Creek Reach 42				1/12/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Tuesday 01/12, 1st day of field operations, I arrived on site at 0750 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. BMPs were placed at the downstream point (photo attached). Private contractor, with the use of heavy equipment, was clearing vegetation on the south side of channel near the rip rap slope. The turbidity reading for the internal and downstream points were high. I advised additional BMPs to be placed at internal sampling point and the half way point between the internal and downstream point. Between 0809 and 0828, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 01/12 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 01/13. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	8:09	8:17	8:28	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	11.1	9.73	9.64	
pH	8.53	8.47	8.43	
TURBIDITY (NTUs)	1.7	4.73	4.73	
DISSOLVED O ₂ (mg/L)	10.01	9.73	9.64	
TOTAL SUSPENDED SOLIDS (mg/L)	4	ND	ND	
San Jose Creek Reach 42				1/13/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Thursday 01/13, 2nd day of field operations, Isaac Ochoa and I arrived on site at 0750 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Additional BMPs were placed between the internal and downstream points (photo attached). Private contractor, with the use of heavy equipment, is continuing to clear vegetation on the south side of channel near the rip rap slope. The turbidity reading for the internal and downstream points were high. I advised Miguel Mendoza to place additional BMPs around the internal point. Between 0803 and 0819, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 01/13 on 24-hour TAT. Results for TSS will be available Friday afternoon, 01/14. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	8:03	8:12	8:19	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	12.4	11.5	11.5	
pH	8.65	8.55	8.43	
TURBIDITY (NTUs)	1.61	2.92	3.11	
DISSOLVED O ₂ (mg/L)	9.81	9.8	9.98	
TOTAL SUSPENDED SOLIDS (mg/L)	3	4	6	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Jose Creek Reach 42				1/14/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Friday 01/14, 3rd day of field operations, I arrived on site at 0730 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Additional BMPs were placed at the internal sampling point (photo attached), along with the additional BMPs placed between the internal and downstream points. Private contractor is continuing to remove vegetation inside the channel using heavy equipment. The turbidity reading for the internal and downstream points were high. I advised Miguel Mendoza to place additional BMPs on top of the BMP already placed at the internal point. Between 0739 and 0757, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 01/14 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 01/18. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	7:39	7:48	7:57	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	13.3	11.9	11.5	
pH	8.45	8.46	8.4	
TURBIDITY (NTUs)	1.94	2.68	3.68	
DISSOLVED O ₂ (mg/L)	10	9.59	9.99	
TOTAL SUSPENDED SOLIDS (mg/L)	1	5	6	
San Jose Creek Reach 42				1/18/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Tuesday 01/18, 4th day of field operations, I arrived on site at 0730 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. A slight delay from preparations to continuing work in basin. New BMPs were placed at the Internal and downstream points. The existing BMPs were washed away from the rain on Monday 1/17. Private contractor is continuing to remove vegetation inside the channel using heavy equipment. The turbidity reading for the internal and downstream points were high. I advised Miguel Mendoza that we will continue motoring before adding additional BMPs due to new one recently being placed. The water level seemed to have increased slightly. Between 0905 and 0920, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 1/18 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 01/19. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	9:05	9:13	9:20	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	16.79	15.98	15.32	
pH	8.63	8.53	8.6	
TURBIDITY (NTUs)	1.95	4.03	3.37	
DISSOLVED O ₂ (mg/L)	9.95	9.87	9.91	
TOTAL SUSPENDED SOLIDS (mg/L)	7	4	8	
San Jose Creek Reach 42				1/19/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Wednesday 01/19, 5th day of field operations, I arrived on site at 0730 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Water flow inside the channel was very dirty due to the heavy equipment in the channel (photo attached) removing vegetation and sediment removal is causing minor sediments to flow with the water flow. All BMPs were submerged underwater due to the high level of water flow. The turbidity reading for the internal and downstream points were extremely high. I advised Miguel Mendoza Between 0748 and 0803, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Wednesday 1/19 on 24-hour TAT. Results for TSS will be available Thursday afternoon, 01/20. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	7:48	7:56	8:03	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	13.6	13.2	13.1	
pH	8.77	8.51	8.4	
TURBIDITY (NTUs)	1.37	115	103	
DISSOLVED O ₂ (mg/L)	13.6	13.2	13.1	
TOTAL SUSPENDED SOLIDS (mg/L)	4	332	298	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

San Jose Creek Reach 42				1/20/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Thursday 1/20, 6th day of field operations, I arrived on site at 0700 and met with Miguel Mendoza from Stormwater Maintenance Longden Yard to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Water flow inside the channel was slightly dirty to the heavy equipment along the sides of the channel removing vegetation and sediment removal is causing minor sediments to flow with the water flow. All BMPs were in place, some were damaged but were replaced and to add more BMPs between the internal and downstream. The turbidity reading for the internal and downstream points were high. I advised Miguel Mendoza. Between 0812 and 0823, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 1/20 on 24-hour TAT. Results for TSS will be available Friday afternoon, 01/21. I informed Miguel Mendoza about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	8:12	8:19	8:23	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	11.61	12.06	11.09	
pH	8.65	8.47	8.05	
TURBIDITY (NTUs)	1.75	8.44	9.64	
DISSOLVED O ₂ (mg/L)	9.89	9.98	9.94	
TOTAL SUSPENDED SOLIDS (mg/L)	4	17	31	
San Jose Creek Reach 42				1/21/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	During Maintenance WQ Monitoring & Sampling Results For Friday 1/21, 7th day of field operations, I arrived on site at 0715 to perform water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 42. Water flow inside the channel was dirty due to the heavy equipment along the sides of the channel removing vegetation and sediment removal is causing sediments to flow with the water flow. All BMPs were in place, some submerged but were adjusted. More BMPs were added at and between the internal and downstream points. The turbidity reading for the internal and downstream points were high. I advised Rigoberto Yescas. Between 0741 and 0753, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. A sample collected after BMPs were added at internal and downstream at 10:00 and retested turbidity. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 1/21 on 24-hour TAT. Results for TSS will be available Monday afternoon, 01/24. I informed Rigoberto Yescas about the turbidity results.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	7:41	7:48	7:53	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	10.57	10.72	11.13	
pH	8.72	8.55	11.13	
TURBIDITY (NTUs)	1.46	25.99	34.1	
DISSOLVED O ₂ (mg/L)	9.7	9.64	9.66	
TOTAL SUSPENDED SOLIDS (mg/L)	1	59	77	
San Jose Creek Reach 42				1/31/2022
LATITUDE (approx.)	34.0325436	34.032474	34.032311	Post-Work WQ Monitoring & Sampling Results For Monday 1/31/22, I arrived on site at 0730 to perform post water quality monitoring and sampling at the San Jose Creek Soft Bottom Channel (SBC) Reach 24. Water flow inside the channel was pretty high. A lot of birds in the internal point of the channel resting and feeding. The turbidity reading for the internal and downstream points were slightly high. Between 0755 and 0809, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 1/31/2022 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 02/01.
LONGITUDE (approx.)	-118.00571	-118.007214	-118.0824	
ELEVATION (approx.)	16	21	10	
TIME	7:55	8:03	8:09	
SAMPLE NO.	SJCRK-1	SJCRK-2	SJCRK-3	
TEMPERATURE (°C)	8.58	8.31	8.2	
pH	8.98	8.27	8.35	
TURBIDITY (NTUs)	2.12	3.97	3.67	
DISSOLVED O ₂ (mg/L)	9.92	9.98	9.65	
TOTAL SUSPENDED SOLIDS (mg/L)	2	14	9	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Walnut Creek Reach 98				
11/1/2021				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline For Monday 11/01, I arrived 0825 on site and met with both Lloyd Sanchez and Carlos Gomez from Stormwater Maintenance San Dimas Yard to perform baseline water quality monitoring and sampling at the Walnut Creek Inlet Reach 98. The BMP was inflated at the channel. Baseline water quality monitoring and sampling was done one (1) days prior to start date. Between 0835 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 11/01 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 11/02. From a water quality standpoint, project is "good to go" for start on Tuesday 11/02.
LONGITUDE (approx.)	-118.28815	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME	8:35	8:37	9:00	
SAMPLE NO.	WCRK-1	WCRK-2	WCRK-3	
TEMPERATURE (°C)	15.8	15.4	15.7	
pH	7.89	7.8	8.43	
TURBIDITY (NTUs)	3.45	4.3	1.53	
DISSOLVED O ₂ (mg/L)	9.95	9.99	10	
TOTAL SUSPENDED SOLIDS (mg/L)	17	5	8	
Walnut Creek Reach 98				
11/2/2021				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results For Tuesday 11/02, 1st and only day of field work, Humberto Rios Jr and I arrived on site at 1215 to perform water quality monitoring and sampling at the Walnut Creek Inlet Reach 98. Field crew were removing vegetation at the soft bottom channel. Water flow was steady and clear. Between 1222 and 1247, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and will be submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Tuesday 11/02 on 24-hour TAT. Results for TSS will be available Wednesday afternoon, 11/03.
LONGITUDE (approx.)	-118.28815	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME	12:22	12:25	12:47	
SAMPLE NO.	WCRK-1	WCRK-2	WCRK-3	
TEMPERATURE (°C)	17.8	17.5	19.9	
pH	8.02	8.04	7.84	
TURBIDITY (NTUs)	3.68	2.49	1.99	
DISSOLVED O ₂ (mg/L)	9.98	9.9	9.81	
TOTAL SUSPENDED SOLIDS (mg/L)	7	6	1	
Walnut Creek Reach 98				
11/4/2021				
LATITUDE (approx.)				Post-Work WQ Monitoring & Sampling Results For November 4, 2021, I arrived on-site at 1050 to perform post water quality sampling and monitoring at Walnut Creek Inlet Reach 98. Field crew from San Dimas Yard completed all vegetation removal in one day. Attached is a photo of downstream sampling point Located slightly over 1-1/2mile downstream and southwest of the upstream sampling point #1; Entrance is through locked gate on the west side of open-box channel off of Fairway Lane, w/o Grand Ave: Sampling point is in the bottom of open-box concrete channel in pool created by inflated rubber dam. At the inflated rubber dam, there was no water flow coming from the south side, while all the water was accumulating on the north side. There was a flood gate door open (see yellow circle drawn on the picture) on the west side of the channel where water was diverging into the debris basin. No water sampling was done because the project did not meet Regional Water Quality Board permit requirements.
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain				
9/13/2021				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	Pre-Clearing/Baseline For Monday, 9/13 – Sam Hinojos and I arrived on-site about 0730 and met with Steve Cuevas from Storm Water Maintenance Imperial Yard to perform baseline monitoring and sampling. Baseline monitoring and sampling was performed with three (3) days prior to star date. During sampling at each locations we noticed the upstream had lots of vegetations floating on the water surface and lots of debris including shopping carts in the downstream. The field crew did cut a pathway for me to for access to the internal sampling point. Between 0750 and 0900, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Monday 09/13 on 24-hour TAT. Results for TSS will be available Tuesday afternoon, 09/14. From a water quality standpoint, project is good to go for the proposed start of Thursday 09/16/2020.
LONGITUDE (approx.)	-118.28815	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME	7:50	8:20	9:00	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	21.5	21.2	21	
pH	7.49	7.04	6.78	
TURBIDITY (NTUs)	7.1	1.73	1.95	
DISSOLVED O ₂ (mg/L)	9.21	9.34	9.23	
TOTAL SUSPENDED SOLIDS (mg/L)	17	5	16	

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Wilmington Drain 9/16/2021				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results For Thursday, 9/16 – 1st day of field operations; arrived on-site about 0800 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points. I met with Paul Lopez of Stormwater Maintenance Imperial Yard. Field crew was meeting with the biologist for site inspection for vegetation removal. At the upstream point and internal sampling points, lots of vegetation on the water surface. Between 0807 and 0859, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Thursday 09/16 on 24-hour TAT. Results for TSS will be available Friday afternoon, 09/17. Informed FMD Foreman Paul Lopez on-site of water quality results.
LONGITUDE (approx.)	-118.28815	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME	8:00	8:30	9:00	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	22.2	20.9	22.3	
pH	7.42	7.23	7.44	
TURBIDITY (NTUs)	7.77	3.19	1.23	
DISSOLVED O ₂ (mg/L)	9.75	9.5	9.23	
TOTAL SUSPENDED SOLIDS (mg/L)	445	9	5	
Wilmington Drain 9/17/2020				
LATITUDE (approx.)	33.7990511	33.803466	33.7916791	During Maintenance WQ Monitoring & Sampling Results For Friday, 9/17 – 2nd day of field operations; arrived on-site about 0930 to perform during maintenance water quality monitoring and sampling at the upstream, internal, and downstream points at Wilmington Drain Reach 25. Public Works and private contractors were working at both the north and south sides of the soft bottom channel off of Lomita Blvd. At the upstream point and internal sampling points, lots of vegetation on the water surface, however after close observation, the upstream has lots of debris that is submerged underwater and is not visible due to the tiny green vegetation covering the water surface. Between 0936 and 1000, collected and recorded water quality parameters of temperature, pH, turbidity, and dissolved oxygen. Samples collected and submitted to American Environmental Testing Labs (AETL) for analysis of total suspended solids (TSS) on Friday 09/17 on 24-hour TAT. Results for TSS will be available Monday afternoon, 09/20. Informed Steven Cuevas via phone call of the water quality results.
LONGITUDE (approx.)	-118.28815	-118.2889966	-118.2870848	
ELEVATION (approx.)	38.84	23.57	10	
TIME	9:36	9:48	10:00	
SAMPLE NO.	WDR27-1	WDR27-2	WDR27-3	
TEMPERATURE (°C)	22.6	21.8	22.7	
pH	7.18	6.79	6.76	
TURBIDITY (NTUs)	39.27	7.19	3.6	
DISSOLVED O ₂ (mg/L)	8.99	10.08	9.35	
TOTAL SUSPENDED SOLIDS (mg/L)	99	92	8	
Wilmington Drain 9/18/2021				
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 18, 2021, I arrived on site about 1000, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached are photos of the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge) and the internal sampling point located west edge of Wilmington Drain about 825' south of Lomita Blvd. As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				
Wilmington Drain 9/20/2021				
LATITUDE (approx.)				During Maintenance WQ Monitoring & Sampling Results For September 20, 2021, Sam Hinojos and I arrived on site about 1007, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached are photos of the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge) and the internal sampling point located west edge of Wilmington Drain about 825' south of Lomita Blvd. As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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
LONGITUDE (approx.)				
ELEVATION (approx.)				
TIME				
SAMPLE NO.				
TEMPERATURE (°C)				
pH				
TURBIDITY (NTUs)				
DISSOLVED O ₂ (mg/L)				
TOTAL SUSPENDED SOLIDS (mg/L)				

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Wilmington Drain		9/21/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 21, 2021, I arrived on site about 0922, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached are photos of the north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge) and the internal sampling point located west edge of Wilmington Drain about 825' south of Lomita Blvd. As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Wilmington Drain		9/22/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 22, 2021, I arrived on site about 0933, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached are photos of the south side of Wilmington Drain (photo taken from the Lomita Blvd Bridge) and the internal sampling point located west edge of Wilmington Drain about 825' south of Lomita Blvd. As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Wilmington Drain		9/23/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 23, 2021, I arrived on site about 0925, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached are photos of the both the south and north side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Wilmington Drain		9/30/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For September 30, 2021, Sam Hinojos and I arrived on site about 0920, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the south side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					

**Los Angeles Basin Watershed - Soft Bottom Channels
WATER QUALITY SAMPLING TESTING AND MONITORING RESULTS (2021-2022)**

Wilmington Drain		10/7/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For October 07, 2021, I arrived on site about 1120, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the south side of Wilmington Drain (photo taken from the Lomita Blvd Bridge). As shown in the picture and after visual observation, there is no water flow from either points just puddles scattered around the soft bottom channel. No water quality monitoring and 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.</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Wilmington Drain		10/14/2021		During Maintenance WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For October 14, 2021, I arrived on site about 0937, to evaluate surface water flow prior to initiating water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is 500 feet south of internal sampling point that had some puddles and muddy areas. No water flow beyond that location. No water quality monitoring and 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</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					
Wilmington Drain		11/2/2021		Post-Work WQ Monitoring & Sampling Results	
LATITUDE (approx.)				<p>For November 02, 2021, I arrived on site about 0800, to perform post water quality monitoring and sampling at upstream, internal, and downstream points for Wilmington Drain Reach 25. Attached photo is the internal sampling point located West edge of Wilmington Drain about 825' south of Lomita Blvd; access is from driveway on the south side of Lomita Blvd about .3 miles West of Figueroa St and about .15 miles east of Vermont Ave and down the concrete ramp. The area had scattered puddles with no water flow. As shown in the picture and after visual observation, so no water quality monitoring and sampling was not performed because the site did not meet Regional Water Quality Control Board (RWQCB).</p>	
LONGITUDE (approx.)					
ELEVATION (approx.)					
TIME					
SAMPLE NO.					
TEMPERATURE (°C)					
pH					
TURBIDITY (NTUs)					
DISSOLVED O ₂ (mg/L)					
TOTAL SUSPENDED SOLIDS (mg/L)					

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ATTACHMENT NO. 7
CURRENT NATIONWIDE PERMIT NO. 31

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DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BLVD. STE 930
LOS ANGELES, CALIFORNIA 90017

May 11, 2018

Mr. Sree Kumar
Los Angeles County Flood Control District
900 S. Fremont Ave., Annex Bldg. 2nd Floor
Alhambra, California 91893

DEPARTMENT OF THE ARMY NATIONWIDE PERMIT VERIFICATION

Dear Sree Kumar:

I am responding to your request (SPL-2013-00723-BLR) dated August 2, 2017, for a Department of the Army permit for your proposed project, Los Angeles County Soft-Bottom Channels (SBC) Maintenance Program. The proposed project is located within various soft-bottom channels throughout Los Angeles County, California (as listed on enclosed Table 1).

Because this project would result in a discharge of fill material into waters of the United States, a Department of the Army permit is required pursuant to Section 404 of the Clean Water Act (33 USC 1344; 33 CFR parts 323 and 330).

I have determined construction of your proposed project, if constructed as described in your application, including avoidance and minimization measures, would comply with Nationwide Permit (NWP) 31 *Maintenance of Existing Flood Control Facilities*. Specifically, and as shown in the enclosed figure(s), you are authorized to:

1. To discharge sidecast associated with mechanized sediment, debris, and vegetation removal within the following "non-sensitive" soft-bottom channel reaches (those that do not exhibit potential for federally threatened or endangered species (T/E) to occur): 1, 2, 3, 4, 5, 6, 8, 9, 10, 13, 15, 16, 18, 19, 20, 21, 22, 24, 25a, 25b, 26, 29, 32, 33, 35, 36, 37, 38, 40a, 41, 42, 44, 45, 46, 48, 49, 50, 52, 53, 57, 72, 73, 76, 77, 78, 88, 89, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100, 108 (58 reaches in sum).
2. To discharge material associated with mechanized sediment, debris, and vegetation removal within "sensitive" soft-bottom channel reaches (those that exhibit potential for T/E to occur): 7, 12, 14, 27, 28, 39, 40b, 43a, 43b, 47, 51, 54, 55, 56, 58, 60, 61, 63, 64, 66, 67, 69, 70, 71, 75, 79, 80, 82, 86, 87, 97, 112*, 114*, 115* (34 reaches in sum).

* Reaches with prior Corps authorization, added to this Nationwide Permit.

For this NWP verification letter to be valid, you must comply with all of the terms and conditions in **Enclosure 1**. Furthermore, you must comply with the non-discretionary **Special Conditions** listed below:

Definitions:

Focused surveys: Focused surveys, also known as ‘protocol surveys’, are those conducted for the subject species following USFWS Protocols. Focused surveys include a comprehensive set of instructions for conducting an inventory via monitoring and require coordination with the USFWS prior to initiation. For this permit, focused surveys are conducted where species have been known to occur.

Presence/absence surveys: Presence/absence surveys, also known as ‘pre-construction surveys’ are those surveys which determine whether a subject species is present within the area. For this permit, presence/absence surveys are conducted where suitable habitat exists. Presence/absence surveys can result in the need to conduct more rigorous analysis via focused surveys.

1. To avoid impacts and adverse effects to federally listed threatened or endangered species, maintenance activities in waters of the United States shall be subject to the following restrictions or prohibitions (please refer to the attached Table 1 for a list of authorized reaches):

a. In “non-sensitive” lower functioning soft-bottom channel reaches, 1, 2, 3, 4, 5, 6, 8, 9, 10, 13, 15, 16, 18, 19, 20, 21, 22, 24, 25a, 25b, 26, 29, 32, 33, 35, 36, 37, 38, 40a, 41, 42, 44, 45, 46, 48, 49, 50, 52, 53, 57, 72, 73, 76, 77, 78, 88, 89, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100, and 108 (58 reaches in sum) removal of vegetation in waters of the United States by mechanized clearing methods is not authorized during the primary nesting season (March 15 – August 31) of any year. If activities requiring mechanized equipment are requested during the nesting season due to unforeseen circumstances (e.g., West Nile virus emergency), the permittee must notify and coordinate with the Corps and U.S. Fish and Wildlife Service. Nesting bird surveys are required prior to any authorized work and any active bird nest of a federally listed species must be avoided within a buffer zone as first approved by the Corps and U.S. Fish and Wildlife Service.

b. In “sensitive” higher functioning soft-bottom channel reaches 7, 12, 14, 27, 28, 39, 40b, 43a, 43b, 71, 75, 79, 80, 82, 86, 87, and 97 (17 reaches in sum) removal of vegetation in waters of the United States by mechanized clearing methods is not authorized during the primary nesting season (March 15 – September 15) of any year. If activities requiring mechanized equipment are requested during nesting bird season due to unforeseen circumstances (e.g., West Nile virus emergency), the permittee must notify and coordinate with the Corps and U.S. Fish and Wildlife Service.

Nesting bird surveys are required prior to any authorized work and any active bird nest of a federally listed species must be avoided within a buffer zone as first approved by the Corps and U.S. Fish and Wildlife Service.

2. In “sensitive” soft-bottom channel reaches as specified below, the following restrictions or prohibitions are required to meet requirements of the Endangered Species Act and avoid take:

a. Least Bell’s Vireo (*Vireo bellii pusillus*, LBV) and southwestern willow flycatcher (*Empidonax traillii extimus*, SWWF):

A qualified avian biologist will conduct monitoring via focused surveys for the LBV and SWWF in Reaches 7, 12, 14, 27, 28, 39, 40b, 43a, 43b, 71, 75, 79, 80, 82, 86, 87, and 97 to determine presence or absence.

b. If results of focused surveys are positive and to avoid and minimize impacts to the LBV and SWWF, the permittee shall have a qualified avian biologist on site to identify and flag seasonally occupied habitat immediately prior to conducting activities in waters of the United States. The qualified avian biologist shall monitor all clearing activities within those reaches and shall have the authority to stop and/or modify the activities if the activity has the potential to affect a listed species. If surveys document the presence of LBV or SWWF at other reaches during pre-construction surveys, this measure will also apply to those reaches.

In addition, to avoid effects to SWWF in Reaches 87 and 97 (refer to attached BO), construction activities in waters of the United States may only occur outside (September 16 – March 14) the nesting season (March 15 – September 15) of any year, regardless of results of avian focused surveys. These reaches are located within designated critical habitat for SWWF.

c. Western yellow-billed cuckoo (*Coccyzus americanus*, YBC):

Reaches 14, 27, 40b, 43a, 43b, 71, 79, 80, 82, 87, and 97 contain or may contain suitable habitat for YBC. Therefore, the permittee’s agreement to avoid impacts to seasonally occupied LBV and SWWF nesting habitat should also avoid impacts to potential YBC. The permittee shall also conduct protocol surveys for YBC during the next breeding season to provide additional information on the status of the species in the project area. If the YBC is detected, the applicant should contact the Ventura Fish and Wildlife Office (VFWO) or Carlsbad Fish and Wildlife Office (CFWO) and the Corps to determine if further consultation is required.

d. Santa Ana sucker (*Catostomus santaanae*, SAS):

To avoid any effect to the SAS, no discharges of fill material in waters of the United States are authorized under this permit when surface flow is present within Reaches 12 and 39. Pre-construction surveys shall be conducted prior to clearing activities at all reaches with potential to support the SAS. If the SAS is present, the permittee would not conduct channel-clearing in that reach until surveys are negative or until the following year. If delaying channel clearing activities for 1 year is not possible, the permittee shall leave a 10-foot buffer of vegetation adjacent to the active channel and vegetation outside of the 10-foot buffer shall be cleared by hand. Clearing will be monitored by a qualified biologist who would have the authority to stop and/or modify the clearing activities if, in the professional opinion of the biologist, the activity has the potential to adversely affect the SAS. Modifications to the clearing activities may include restricting the use of heavy equipment and conducting only hand clearing in those areas.

e. Unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*, UTS):

To avoid any effect to the UTS within Reaches 47, 51, 54, 55, 56, 58, 60, 61, 63, 64, 66, 67, 69, 70, 71, 79, 80, 82, 86, 87, and 97 (21 reaches), discharges of fill material and/or heavy equipment is not authorized in waters of the United States between November 2 and August 31 where flowing or pooled water is present. For the shorter part of the year (September 1 to November 1) presence/absence surveys shall be conducted prior to channel-clearing activities in the above reaches, if water is present. If the UTS is present, the permittee shall not conduct channel-clearing in that reach until the surveys are negative. If delaying channel clearing activities is needed to avoid UTS, but delay for 1 year is not feasible, the permittee shall leave a 10-foot buffer of vegetation adjacent to the active channel and vegetation outside of the 10-foot buffer would be cleared by hand. Clearing will be monitored by a qualified biologist who has the authority to stop and/or modify the clearing activities if, in the professional opinion of the biologist, the activity has the potential to adversely affect the UTS. Potential modifications to the clearing activities may include prohibiting the use of heavy equipment and conducting only hand clearing in those areas.

f. Arroyo toad (*Anaxyrus californicus*, ARTO):

To avoid effects to ARTO, a qualified biologist will conduct focused pre-construction surveys in Reaches 71, 75, 79, 80, 82, 86, 87, and 97 that have been identified as potential habitat for ARTO to determine presence or absence of the species, as well focused surveys in Reaches 87 and 97, which contain critical habitat for ARTO. If ARTO is present in any reach, then no channel clearing activities shall occur within waters of the United States and the permittee must notify the Corps and USFWS.

3. This Corps permit does not authorize you to take any threatened or endangered species, in particular the unarmored threespine stickleback (reaches 67, 69, 70, 71, 80, 82, 87, and 97), arroyo toad (reaches 87 and 97) and southwestern willow flycatcher (reaches 87 and 97), or adversely modify its designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g. ESA Section 10 permit, or a Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply). The enclosed USFWS BO (2014-F-0524) dated November 19, 2015 contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the BO. Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached BO, the terms and conditions of which are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its BO and with the ESA.

4. The permittee shall ensure that all vehicle maintenance, staging, storage, and dispensing of fuel occurs in designated upland areas. The permittee shall ensure these designated upland areas are situated to prevent any runoff from entering waters of the United States.

5. The permittee shall employ all standard Best Management Practices to ensure that toxic materials, silt, debris, or excessive erosion do not enter waters of the United States, inclusive of the Los Angeles River, Santa Clara River, San Gabriel River and Malibu Creek during project activities.

6. The permittee shall avoid and minimize impacts to riparian vegetation in all authorized soft-bottom flood control channel reaches by implementing all the terms and conditions in the Maintenance Plan, "Draft Master Maintenance Plan Annual Maintenance of Soft-Bottom Flood Control Channel Reaches 1-121" dated March 2018 (see attached), including all proposed avoidance and minimization measures. The permittee shall continue to submit Annual Maintenance and Monitoring Reports to the Corps. A final version will be provided once approved by all regulatory agencies. Upon submittal, this final version will take precedence over the March 2018 draft version.

7. The permittee shall retain a qualified biologist(s) to review grading plans, oversee all aspects of construction monitoring that pertain to biological resource protection, ensure compliance with the avoidance and minimization measures, and implement and monitor the program. Information shall be provided upon request and in Annual Monitoring Reports provided to the Corps.

8. This verification is contingent on a Water Quality Certification (WQC) by the Regional Water Quality Control Board, Los Angeles Region. A Waste Discharge Requirements (WDR) amended April 4, 2016, 401 WQC (file #99-011), and Order (R4-2015-0032-A1) amended February 11, 2016, were issued. A WDR, and/or a 401 WQC must be obtained and active prior to work in waters of the United States.

This verification is valid through **March 18, 2022**. If on March 18, 2022 you have commenced or are under contract to commence the permitted activity you will have an additional twelve (12) months to complete the activity under the present NWP terms and conditions. However, if I discover noncompliance or unauthorized activities associated with the permitted activity I may request the use of discretionary authority in accordance with procedures in 33 CFR § 330.4(e) and 33 CFR § 330.5(c) or (d) to modify, suspend, or revoke this specific verification at an earlier date. Additionally, at the national level the Chief of Engineers, any time prior to March 18, 2022, may choose to modify, suspend, or revoke the nationwide use of a NWP after following procedures set forth in 33 CFR § 330.5. It is incumbent upon you to comply with all of the terms and conditions of this NWP verification and to remain informed of any change to the NWPs.

A NWP does not grant any property rights or exclusive privileges. Additionally, it does not authorize any injury to the property, rights of others, nor does it authorize interference with any existing or proposed Federal project. Furthermore, it does not obviate the need to obtain other Federal, state, or local authorizations required by law.

Thank you for participating in the Regulatory Program. If you have any questions, please contact Bonnie Rogers at 213-452-3372 or via e-mail at Bonnie.L.Rogers@usace.army.mil. Please help me to evaluate and improve the regulatory experience for others by completing the customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

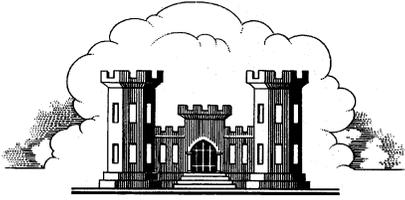
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ou=PKI, ou=USA,
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Antal J. Szijj
Team Lead, North Coast Branch
Regulatory Division

Enclosures



**LOS ANGELES DISTRICT
U.S. ARMY CORPS OF ENGINEERS**

**CERTIFICATE OF COMPLIANCE WITH
DEPARTMENT OF THE ARMY NATIONWIDE PERMIT**

Permit Number: *SPL-2014-00707-BLR*

Name of Permittee: *Los Angeles County Flood Control District, Sree Kumar*

Date of Issuance: *May 11, 2018*

Upon completion of the activity authorized by this permit and the mitigation required by this permit, sign this certificate, and return it by **ONE** of the following methods;

- 1) Email a digital scan of the signed certificate to Bonnie.L.Rogers@usace.army.mil
- OR**
- 2) Mail the signed certificate to

U.S. Army Corps of Engineers
ATTN: Regulatory Division SPL-2013-00723-BLR
LOS ANGELES DISTRICT CORPS OF ENGINEERS
915 Wilshire Blvd. Ste 930
LOS ANGELES, CALIFORNIA 90017

I hereby certify that the authorized work and any required compensatory mitigation has been completed in accordance with the NWP authorization, including all general, regional, or activity-specific conditions. Furthermore, if credits from a mitigation bank or in-lieu fee program were used to satisfy compensatory mitigation requirements I have attached the documentation required by 33 CFR 332.3(l)(3) to confirm that the appropriate number and resource type of credits have been secured.

Signature of Permittee

Date

70	Y	Bouquet Canyon Lower(PD's 544 & 345)	Santa Clara River	34.432715	-118.525845	-		x	x							x		SPL-2013-00723
71	Y	Santa Clara River Main Channel(PD 1946)	Santa Clara River	34.423989	-118.561404	1.01		x	x		x	x	x	x		x	x	SPL-2013-00723
72	Y	72 - South Fork- SCR (Smizer Ranch M.C.I.)	Santa Clara River	34.36934	-118.556492	0.14				x								SPL-2013-00723
73	Y	73 - Wildwood Cyn Chnl (PD T361) M.C.I.	South Fork-SCR	34.372029	-118.539258	0.05				x								SPL-2013-00723
74	N/A	74 - Wildwood Cyn Chnl (PD T361)	South Fork-SCR	-	-	-												N/A
75	Y	75 - South Fork-SCR (PD's 725, 916, 1041, & 1300)	South Fork-SCR	34.379995	-118.552084	18.92		x			x	x	x				x	SPL-2013-00723
76	Y	76 - Pico Cyn (PD 813)	South Fork-SCR	34.388412	-118.558123	4.26				x								SPL-2013-00723
77	Y	77 - Newhall Ck Outlet	South Fork-SCR	34.390323	-118.536485	6.29				x								SPL-2013-00723
78	Y	78 - Placenta Creek	South Fork-SCR	34.391623	-118.536818	1.16				x								SPL-2013-00723
79	Y	79 - South Fork- SCR (Valencia Blvd Bridge Stabilizer)	South Fork-SCR	34.419087	-118.548784	1.17		x			x	x	x	x		x	x	SPL-2013-00723
80	Y	South Fork-Santa Clara River(PD's 1947 & 1946)	South Fork-SCR	34.420139	-118.553501	8.18		x	x		x	x	x	x		x	x	SPL-2013-00723
81	N/A	N/A (concrete/storm drain)	Santa Clara River	-	-	-												N/A
82	Y	Santa Clara River Main Channel(PD 2278)	Santa Clara River	34.427601	-118.568179	4.8		x	x		x	x	x	x		x	x	SPL-2013-00723
83	N/A	N/A (concrete/storm drain)	Santa Clara River	-	-	-												N/A
84	N/A	N/A (concrete/storm drain)	Santa Clara River	-	-	-												N/A
85	N/A	N/A (concrete/storm drain)	Santa Clara River	-	-	-												N/A
86	Y	86 - Violin Cyn M.C.O.	Castaic Creek	34.491678	-118.61348	1.3		x			x	x	x			x	x	SPL-2013-00723
87	Y	Castaic- Old Road Drainage(CDR 525.021D) Outlet	Castaic Creek	34.451707	-118.615757	0.19		x	x		x	x	x	x		x	x	SPL-2013-00723
88	Y	88 - Hasley Cyn Upper (PD T1496)	Castaic Creek	34.470902	-118.662974	0.42				x								SPL-2013-00723
89	Y	89 - Hasley Cyn South Fork (PD T1496)	Castaic Creek	34.466149	-118.662262	0.28				x								SPL-2013-00723
90	Y	90 - Hasley Cyn Lower (North Fork PD T1496)	Castaic Creek	34.467945	-118.661412	0.68				x								SPL-2013-00723
91	Y	91 - San Martinez Chiquito Cyn w/s Kenningston Rd	Santa Clara River	34.448552	-118.672715	0.31				x								SPL-2013-00723
92	Y	92 - San Martinez Chiquito Cyn (N. Fork) unname	Santa Clara River	34.45057	-118.67357	0.29				x								SPL-2013-00723
93	Y	93 - S.M.C.C. b/w Kenningston/Val Verde Park	Santa Clara River	34.447666	-118.670963	0.56				x								SPL-2013-00723
94	Y	94 - S.M.C.C. b/w Val Verde Park/ d/s of Madison St	Santa Clara River	34.445366	-118.661487	1.57				x								SPL-2013-00723
95	Y	95 - Project No 1224	Little Rock Wash	34.543034	-117.981501	7.95				x								SPL-2013-00723
96	Y	96 - PD 1591, Calabassas	Calabassas Creek	34.145353	-118.630228	0.92				x								SPL-2013-00723
97	Y	PD T1982, Castaic Creek, SD5	Castaic Creek	34.451338	-118.616047	2.3		x	x		x	x	x	x		x	x	SPL-2013-00723
98	Y	98 - Walnut Creek - Channel Inlet	San Gabriel River	34.079808	-117.860498	0.03				x								SPL-2013-00723
99	Y	99 - Kagel Canyon - Tujung Wash	Tujung Wash	34.296137	-118.377709	1.67				x								SPL-2013-00723
100	Y	100 - Dry Canyon Calabassas Creek Inlet	Calabassas Creek	34.155374	-118.632628	0.05				x								SPL-2013-00723
401	N	Violin Canyon (PD 2312)	Castaic Creek	34.503071	-118.625792	-												-
402	N	Violin Canyon (PD 2275)	Santa Clara River	34.507955	-118.640603	-												-
403	N	Bouquet Canyon Channel (PD 2225)	Castaic Creek	34.428004	-118.540372	-												-
404	N	Castaic Creek (PD 2441 Unit 2)	Castaic Creek	34.447172	-118.615835	-												-
405	N	San Francisquito Canyon Channel (PD 2456)	Santa Clara River	34.445475	-118.557532	-												-
406	N	N/A	-	-	-	-												-
407	N	N/A	-	-	-	-												-
108	Y	Pico Canyon (PD 2528)	Santa Clara River	34.38179	-118.581749	1.13				x								none required
409	N	Santa Clara River - South Bank West of Mcbean Parkway (MTD1510)	Santa Clara River	34.42403	-118.56259	-												-
440	N	Hasley Canyon Channel (PD2262)	Santa Clara River	34.451551	-118.633728	-												-
441	N/A	N/A	N/A	-	-	-												-
112	Y	Ballona Creek	Ballona Creek	33.98671	-118.415782	-		x										none required
443	N	Dominguez Channel	Dominguez Chnl	33.870938	-118.290348	-												-
114	Y	Los Angeles River	Los Angeles River	33.790122	-118.205489	-		x										none required
115	Y	San Gabriel River	San Gabriel River	33.790896	-118.09172	-		x										none required
446	N	Los Cerritos Channel	San Gabriel River	33.788562	-118.103555	-												-
447	N	Centinele Creek	Ballona Creek	33.979274	-118.424174	-												-
118	Y	Rustic Canyon	Malibu	34.043136	-118.513261	-				x								SPL-2014-00707
119	Y	Rivas Canyon	Malibu	34.046101	-118.513788	-				x								SPL-2014-00707
420	N	Jake's Way (PD 2496)	Santa Clara River	34.413959	-118.444169	-												-
421	N	San Francisquito Creek (PD 2271)	San Francisquito Crk	34.436246	-118.664165	-												-

x = Biological Opinion indicates May Affect Likely to Adversely Affect the species and/or its designated Critical Habitat.

SC' = Permit Special Condition

Enclosure 1: NATIONWIDE PERMIT NUMBER(S) NWP 31 Maintenance of Existing Flood Control Facilities

1. Nationwide Permit(s) NWP 31 Maintenance of Existing Flood Control Facilities Terms:

31. Maintenance of Existing Flood Control Facilities. Discharges of dredged or fill material resulting from activities associated with the maintenance of existing flood control facilities, including debris basins, retention/detention basins, levees, and channels that: (i) were previously authorized by the Corps by individual permit, general permit, or 33 CFR 330.3, or did not require a permit at the time they were constructed, or (ii) were constructed by the Corps and transferred to a non-Federal sponsor for operation and maintenance. Activities authorized by this NWP are limited to those resulting from maintenance activities that are conducted within the maintenance baseline, as described in the definition below. Discharges of dredged or fill materials associated with maintenance activities in flood control facilities in any watercourse that have previously been determined to be within the maintenance baseline are authorized under this NWP. To the extent that a Corps permit is required, this NWP authorizes the removal of vegetation from levees associated with the flood control project. This NWP does not authorize the removal of sediment and associated vegetation from natural water courses except when these activities have been included in the maintenance baseline. All dredged and excavated material must be deposited and retained in an area that has no waters of the United States unless otherwise specifically approved by the district engineer under separate authorization. Proper sediment controls must be used. Maintenance Baseline: The maintenance baseline is a description of the physical characteristics (e.g., depth, width, length, location, configuration, or design flood capacity, etc.) of a flood control project within which maintenance activities are normally authorized by NWP 31, subject to any case-specific conditions required by the district engineer. The district engineer will approve the maintenance baseline based on the approved or constructed capacity of the flood control facility, whichever is smaller, including any areas where there are no constructed channels but which are part of the facility. The prospective permittee will provide documentation of the physical characteristics of the flood control facility (which will normally consist of as-built or approved drawings) and documentation of the approved and constructed design capacities of the flood control facility. If no evidence of the constructed capacity exists, the approved capacity will be used. The documentation will also include best management practices to ensure that the adverse environmental impacts caused by the maintenance activities are no more than minimal, especially in maintenance areas where there are no constructed channels. (The Corps may request maintenance records in areas where there has not been recent maintenance.) Revocation or modification of the final determination of the maintenance baseline can only be done in accordance with 33 CFR 330.5. Except in emergencies as described below, this NWP cannot be used until the district engineer approves the maintenance baseline and determines the need for mitigation and any regional or activity-specific conditions. Once determined, the maintenance baseline will remain valid for any subsequent reissuance of this NWP. This NWP does not authorize maintenance of a flood control facility that has been abandoned. A flood control facility will be considered abandoned if it has operated at a significantly reduced capacity without needed maintenance being accomplished in a timely manner. A flood control facility will not be considered abandoned if the prospective permittee is in the process of obtaining other authorizations or approvals required for maintenance activities and is experiencing delays in obtaining those authorizations or approvals. Mitigation: The district engineer will determine any required mitigation one-time only for impacts associated with maintenance work at the same time that the maintenance baseline is approved. Such one-time mitigation will be required when necessary to ensure that adverse environmental effects are no more than minimal, both individually and cumulatively. Such mitigation will only be required once for any specific reach of a flood control project. However, if one-time mitigation is required for impacts associated with maintenance activities, the district engineer will not delay

needed maintenance, provided the district engineer and the permittee establish a schedule for identification, approval, development, construction and completion of any such required mitigation. Once the onetime mitigation described above has been completed, or a determination made that mitigation is not required, no further mitigation will be required for maintenance activities within the maintenance baseline (see Note, below). In determining appropriate mitigation, the district engineer will give special consideration to natural water courses that have been included in the maintenance baseline and require mitigation and/or best management practices as appropriate. Emergency Situations: In emergency situations, this NWP may be used to authorize maintenance activities in flood control facilities for which no maintenance baseline has been approved. Emergency situations are those which would result in an unacceptable hazard to life, a significant loss of property, or an immediate, unforeseen, and significant economic hardship if action is not taken before a maintenance baseline can be approved. In such situations, the determination of mitigation requirements, if any, may be deferred until the emergency has been resolved. Once the emergency has ended, a maintenance baseline must be established expeditiously, and mitigation, including mitigation for maintenance conducted during the emergency, must be required as appropriate. Notification: The permittee must submit a pre-construction notification to the district engineer before any maintenance work is conducted (see general condition 32). The pre-construction notification may be for activity-specific maintenance or for maintenance of the entire flood control facility by submitting a five-year (or less) maintenance plan. The pre-construction notification must include a description of the maintenance baseline and the disposal site for dredged or excavated material. (Authorities: Sections 10 and 404) Note: If the maintenance baseline was approved by the district engineer under a prior version of NWP 31, and the district engineer imposed the one-time compensatory mitigation requirement on maintenance for a specific reach of a flood control project authorized by that prior version of NWP 31, during the period this version of NWP 31 is in effect (March 19, 2017, to March 18, 2022) the district engineer will not require additional compensatory mitigation for maintenance activities authorized by this NWP in that specific reach of the flood control project.

2. General Conditions: The following general conditions must be followed in order for any authorization by an NWP to be valid:

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to

sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which “may affect” a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate

documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have “no effect” on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWP.

(e) Authorization of an activity by an NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take” provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where “take” means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take” means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether “incidental take” permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-

Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed.

(d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal

adverse environmental effects. For the NWP, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)).

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWP. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWP.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not

provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be

provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the “study river” (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is an NWP PCN and must

include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWP's and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWP's, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

3. Regional Conditions for the Los Angeles District:

1. For all activities in waters of the U.S. that are suitable habitat for federally listed fish species, including designated critical habitat for such species, the permittee shall design all new or substantially reconstructed

linear transportation crossings (e.g. roads, highways, railways, trails, bridges, culverts) to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed, unless determined to be impracticable by the Corps.

2. Nationwide Permits (NWP) 3, 7, 12-15, 17-19, 21, 23, 25, 29, 35, 36, or 39-46, 48-54 cannot be used to authorize structures, work, and/or the discharge of dredged or fill material that would result in the "loss" of wetlands, mudflats, vegetated shallows or riffle and pool complexes as defined at 40 CFR Part 230.40-45. The definition of "loss" for this regional condition is the same as the definition of "loss of waters of the United States" used for the Nationwide Permit Program. Furthermore, this regional condition applies only within the State of Arizona and within the Mojave and Sonoran (Colorado) desert regions of California. The desert regions in California are limited to four USGS Hydrologic Unit Code (HUC) accounting units (Lower Colorado -150301, Northern Mojave-180902, Southern Mojave-181001, and Salton Sea-181002).
3. When a pre-construction notification (PCN) is required, the Los Angeles District shall be notified in accordance with General Condition 32 using either the South Pacific Division PCN Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. The PCN Checklist and application form are available at: <http://www.spl.usace.army.mil/Missions/Regulatory/PermitProcess.aspx>. In addition, unless specifically waived by the Los Angeles District, the PCN shall include:
 - a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;
 - b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings shall follow the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program (Feb 2016), or most recent update (available at the South Pacific Division website at: <http://www.spd.usace.army.mil/Missions/Regulatory/PublicNoticesandReferences.aspx/>);
 - c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the project site, and all waters proposed to be avoided on and immediately adjacent to the project site. The compass angle and position of each photograph shall be documented on the plan-view drawing required in subpart b of this regional condition.
 - d. Delineation of aquatic resources in accordance with the current Los Angeles District's Minimum Standards for Acceptance of Aquatic Resources Delineation Reports (available at: <http://www.spl.usace.army.mil/Missions/Regulatory/Jurisdictional-Determination/>).

4. Submission of a PCN pursuant to General Condition 32 and Regional Condition 3 shall be required for specific regulated activities in the following locations:
 - a. All perennial waterbodies and special aquatic sites throughout the Los Angeles District as well as intermittent waters within the State of Arizona for any regulated activity that would result in a loss of waters of the United States. The definition of “loss of waters of the United States” for this regional condition is the same as the definition used for the Nationwide Permit Program.
 - b. All areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council, and that would result in an adverse effect to EFH, in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. EFH Assessment Guidance and other supporting information can be found at:
http://www.westcoast.fisheries.noaa.gov/habitat/fish_habitat/efh_consultations_go.html.
 - c. All watersheds in the Santa Monica Mountains in Los Angeles and Ventura counties bounded by Calleguas Creek on the west, by Highway 101 on the north and east, and by Sunset Boulevard and Pacific Ocean on the south.
 - d. The Santa Clara River watershed in Los Angeles and Ventura counties, including but not limited to Aliso Canyon, Agua Dulce Canyon, Sand Canyon, Bouquet Canyon, Mint Canyon, South Fork of the Santa Clara River, San Francisquito Canyon, Castaic Creek, Piru Creek, Sespe Creek and the main-stem of the Santa Clara River.
 - e. The Murrieta and Temecula Creek watersheds in Riverside County, California for any regulated activity that would result in a loss of waters of the U.S. The definition of “loss of waters of the United States” for this regional condition is the same as the definition used for the Nationwide Permit Program.
 - f. All waterbodies designated by the Arizona Department of Environmental Quality as Outstanding Arizona Waters (OAWs), within 1600 meters (or 1 mile) upstream and/or 800 meters (1/2 mile) downstream of a designated OAW, and on tributaries to OAWs within 1600 meters of the OAW (see <http://www.azdeq.gov/index.html>).
 - g. All waterbodies designated by the Arizona Department of Environmental Quality as 303(d)-impaired surface waters, within 1600 meters (or 1 mile) upstream and/or 800 meters (1/2 mile) downstream of a designated impaired surface water, and on tributaries to impaired waters within 1600 meters of the impaired water (see <http://www.azdeq.gov/index.html>).
5. Individual Permits shall be required for all discharges of fill material in jurisdictional vernal pools, with the exception that discharges for the purpose of restoration, enhancement, management or scientific study of vernal pools may be authorized under NWP 5, 6, and 27 with the submission of a PCN in accordance with General Condition 32 and Regional Condition 3.

6. Within the Murrieta Creek and Temecula Creek watersheds in Riverside County the use of NWP 29, 39, 42 and 43, and NWP 14 combined with any of those NWPs shall be restricted. The loss of waters of the U.S. cannot exceed 0.25 acre. The definition of “loss of waters of the United States” for this regional condition is the same as the definition used for the Nationwide Permit Program.
7. Individual Permits (Standard Individual Permit or 404 Letter of Permission) shall be required in San Luis Obispo Creek and Santa Rosa Creek in San Luis Obispo County for bank stabilization projects, and in Gaviota Creek, Mission Creek and Carpinteria Creek in Santa Barbara County for bank stabilization projects and grade control structures.
8. In conjunction with the Los Angeles District's Special Area Management Plans (SAMPs) for the San Diego Creek Watershed and San Juan Creek/Western San Mateo Creek Watersheds in Orange County, California, the Corps' Division Engineer, through his discretionary authority has revoked the use of the following 26 selected NWPs within these SAMP watersheds: 03, 07, 12, 13, 14, 16, 17, 18, 19, 21, 25, 27, 29, 31, 33, 39, 40, 41, 42, 43, 44, 46, 49, and 50. Consequently, these NWPs are no longer available in those watersheds to authorize impacts to waters of the United States from discharges of dredged or fill material under the Corps' Clean Water Act section 404 authority.
9. Any requests to waive the applicable linear foot limitations for NWPs 13, 21, 29, 39, 40 and 42, 43, 44, 51, 52, and 54, must include the following:
 - a. A narrative description of the affected aquatic resource. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characters observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line, or scour marks) or Mean High Water Line; a description of the adjacent vegetation community and a statement regarding the wetland status of the associated vegetation community (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information.
 - b. An analysis of the proposed impacts to the waterbody in accordance with General Condition 32 and Regional Condition 3;
 - c. Measures taken to avoid and minimize losses, including other methods of constructing the proposed project; and
 - d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated, in accordance with 33 CFR Part 332.
10. The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

4. Further information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

- (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

- (a) This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
- (b) This permit does not grant any property rights or exclusive privileges.
- (c) This permit does not authorize any injury to the property or rights of others.
- (d) This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- (a) Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- (b) Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- (c) Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- (d) Design or construction deficiencies associated with the permitted work.
- (e) Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- (a) You fail to comply with the terms and conditions of this permit.
- (b) The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- (c) Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 330.5 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measure ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. This letter of verification is valid for a period not to exceed two years unless the nationwide permit is modified, reissued, revoked, or expires before that time.

7. You must maintain the activity authorized by this permit in good condition and in conformance with the

terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition H below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

8. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished with the terms and conditions of your permit.



GAVIN NEWSOM
GOVERNOR



JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

CLEAN WATER ACT SECTION 401 WATER QUALITY CERTIFICATION AND ORDER

Effective Date: June 6, 2022

Program Type: Fill/Excavation

Reg. Meas. ID:	401455
Place ID:	815800
WDID:	4WQC40115038
NWP:	31
USACOE#:	2013-00723-BLR
	2014-00707-BLR
R4 File No:	15-038

Project Type: Channel Construction and Maintenance

Project: Annual Maintenance of Soft Bottom Channel Reaches (SBC) Reach 112 (Ballona Creek), Reach 114 (Lower Los Angeles River), Reach 115 (Lower San Gabriel River), and Reaches 118 and 119 (Rustic and Rivas Canyons) (Project)

Applicant: Los Angeles County Flood Control District

Applicant Contact: Steven Sheridan
Assistant Deputy Director
Los Angeles County Flood Control District
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Phone: (626) 458-4145; Email: Ssherida@dpw.lacounty.gov

Applicant's Agent: Nandini Moran
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Water Board Contact Person:

If you have any questions, please call the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) Staff listed above or (213) 576-6600 and ask to speak with the Water Quality Certification and Wetlands Unit Program Manager.

LAWRENCE YEE, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

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I. Order

This Clean Water Act (CWA) section 401 Water Quality Certification action and Order (Order) is issued at the request of the Los Angeles County Flood Control District (hereinafter Permittee) for the Project. This Order is for the purpose described in the application and supplemental information submitted by the Permittee. The application was received on March 23, 2018. The application was deemed complete on July 25, 2020.

II. Public Notice

The Los Angeles Water Board provided public notice of the application pursuant to California Code of Regulations, title 23, section 3858 from May 8, 2018 to the effective date of the Order. The Los Angeles Water Board did not receive any comments during the comment period.

III. Project Purpose

The Project purpose is to conduct annual maintenance in five Soft Bottom Channel reaches to diminish the significant risk of flooding to the adjacent communities, and to address any deficiencies from the U.S. Army Corps of Engineers (USACE) Periodic Inspections for the Levee Safety Program.

IV. Project Description

These reaches are not included in the Permittees' larger, Earth Bottom Channel Maintenance Waste Discharge Requirements and CWA section 401 Water Quality Certification, Order No. R4-2018-0099 (File No. 99-011). In addition, this Order combines the renewal for four CWA section 401 Water Quality Certifications: Maintenance of Reach 112, originally certified in 2015, under File No. 14-125; Maintenance of Reach 114, originally certified in 2015, under File No. 15-038; Maintenance of Reach 115, originally certified in 2015, under File No. 14-132; and Maintenance of Reaches 118 and 119, originally certified in 2015, under File No. 15-038.

In addition, in the fall of 2013, the Permittee obtained a USACE CWA section 404 Regional General Permit (RGP) No. 41 to authorize removal of the invasive giant reed (*Arundo donax*) along a portion of SBC Reach 114, including the Los Angeles River from Pacific Coast Highway to Anaheim Street, in the City of Long Beach. The invasive vegetation removal activities were issued CWA section 401 Water Quality Certification, File No.13-110.

Reach 112: The Permittee will restore Soft-Bottom Channel (SBC) Reach 112 in Ballona Creek to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the riprap and concrete levees and maintenance of outlet structures) throughout the channel reach as necessary. Weeds and grasses may be controlled by mowing or hand labor, and the channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of 2.6 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Reach 114: The Permittee will restore SBC Reach 114 in the Los Angeles River to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work (such as repair of the flap gates, riprap, and concrete levees) throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, the Permittee must provide maintenance and repair activities, including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

Only non-native vegetation will be removed from levee banks using manual and mechanical equipment. Areas mapped as Coastal Salt Marsh (disturbed or not, generally, areas with pickleweed) will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species. Native vegetation will remain in place, per the Lake and Streambed Alteration Agreement with the California Department of Fish and Wildlife for this facility.

Specifically, work in Reach 114 will include:

- Non-native woody vegetation on the riverside levee slopes will be removed down to the roots annually per the original baseline condition.
- Weeds and grasses may be controlled by mowing or hand labor.
- Vegetation, trash, and debris on the reach right-of-way and in the riprap will be cleared.
- When root removal creates a cavity in the riprap, the cavity will be filled in and the soil compacted.
- The freshwater wetlands (formerly *Arundo* areas) in the upstream portion between Pacific Coast Highway and Anaheim Street will be maintained annually through mowing and trash removal. The sediment benches will not be removed.

Reach 115: The Permittee will restore SBC Reach 115 in the San Gabriel River Estuary to design capacities, and then it will be maintained annually. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. Permanent impacts are comprised of removal of 0.6 acres of giant reed (*Arundo donax*) and 5.0 acres of non-native vegetation in the stream channel. No wetlands will be impacted.

In order to comply with USACE Periodic Inspections for the Levee Safety Program and assure public safety, LACFCD must provide maintenance and minor repair activities including removal of vegetation overgrowth from levee side slopes and rip-rap repair work.

No heavy equipment will be used in areas mapped as Coastal Salt Marsh (disturbed or not; generally, areas with pickleweed). These areas will be avoided and not impacted in order to prevent impacts to native species and potentially sensitive species.

Specifically, work in Reach 115 will include:

- All invasive vegetation with roots greater than ½ inch will be removed per the USACE Levee Certification Vegetation Removal Project.
- Vegetation will be removed by mechanical and manual methods on both banks annually until all non-compliant vegetation is removed.
- Strips of riprap will be removed in strategic locations from the access road down to no more than halfway down the levee face. Steel track equipment will be driven on it. Riprap will be replaced before the end of the work day after work in that location is completed.
- Voids left by extracting the woody vegetation's root mass will be filled with native soil or non-native fill from other large excavation projects nearby. The soil will be tested before leaving its origin to ensure it is safe for usage within the levee material. The imported fill will be compacted with sheepsfoot attachment and the riprap replaced.
- Weeds and grasses may be controlled by mowing or hand labor.
- Annual clearing of all woody vegetation will occur along the entire reach on both banks below the access roads using mechanical equipment placed on the access road.
- Vegetation, debris, and brush growing on the reach right-of-way and in the riprap will be cleared.
- Non-native trees and shrubs will be trimmed in order to reduce the impact on flow in the reach as future growth occurs.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

Reaches 118 and 119: The Permittee will restore SBC Reaches 118 and 119 in Rustic Canyon and Rivas Canyon Channels to design capacities, and then will be maintained annually. Rivas Canyon Channel is tributary to Rustic Canyon Channel. Annual maintenance will include, but not be limited to, mechanically removing accumulated sediment and debris, mowing the vegetation in the channel to ensure the proper functioning of the flood control infrastructure, and minor repair work throughout the channel reach as necessary. The channel will be cleared annually to the same baseline condition. This reach has been regularly maintained and no new permanent impacts are proposed.

The site will be accessed through a private property, located at 14470 Rustic Creek Lane, Pacific Palisades, California 90272, that is also to be used as a staging area.

Specifically, work in Reaches 118 and 119 will include:

- All vegetation within the reach will be removed using hand tools.
- Mapped wetlands will be cleared by hand only and machinery will not enter these areas.
- New non-native vegetation will be removed by hand using hand tools, such as weed eaters, hedge trimmers, chainsaws, hoes, pitch forks, loppers, machetes, and using a rubber-tracked skidsteer loader as necessary.
- Sediment benches will be mechanically mowed annually.
- Minor repair work to the wooden wall structures and eroded banks will be conducted on an as-needed basis.
- These structural repairs may include filling voids with onsite material, repairing small portions of the wood walls, replacing support structures for the walls and appurtenant structures, and other miscellaneous items encountered.

- To move a skidsteer loader from one section of the channel to the next, temporary earthen ramps will be constructed at the drop structures with available onsite soils. The earthen ramps will be removed after vegetation is removed and earthen material will be redistributed evenly throughout the site.
- Trash, debris, and non-native vegetation will be cleared by hand within easement boundaries.

V. Project Location

The Project is located in multiple locations in Los Angeles County.

Reach 112:

<u>Latitude</u>	<u>Longitude</u>
33.986970	-118.415848
33.986630	-118.415579
33.980722	-118.424186
33.980655	-118.423362
33.964644	-118.451612
33.963839	-118.451054
33.979642	-118.424490
33.978993	-118.425350

Reach 114:

<u>Latitude</u>	<u>Longitude</u>
33.790017	-118.206244
33.790205	-118.204770
33.783967	-118.204714
33.773990	-118.204669
33.767159	-118.204661
33.767083	-118.206268
33.773942	-118.206243
33.783912	-118.206222

Reach 115:

<u>Latitude</u>	<u>Longitude</u>
33.790701	-118.091318
33.778072	-118.097137
33.775056	-118.098192
33.782067	-118.096517
33.781784	-118.095645
33.775061	-118.097249
33.778168	-118.098083
33.791020	-118.092197

Reaches 118 and 119:

<u>Latitude</u>	<u>Longitude</u>
34.046107	-118.513778
34.044522	-118.513307
34.041824	-118.514181
34.037860	-118.516645

34.045400	-118.513429
34.043159	-118.513300
34.040217	-118.515775
34.035450	-118.517726

Maps showing the Project location are found in Attachment A of this Order.

VI. Project Impact and Receiving Waters Information

The Project is located within the jurisdiction of Los Angeles Water Board. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the applicable water quality control plan (Basin Plan) for the region and other plans and policies which may be accessed online at: http://www.waterboards.ca.gov/plans_policies/. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring discharges to meet contaminant levels designed to protect human health and ensure that water is safe for domestic use.

Reach 112

Receiving Water: Ballona Creek Reach 2
(Hydrologic Unit Code: 180701040200)

Designated Beneficial Uses: MUN*, REC-1, REC-2, WARM, WILD
*Conditional beneficial use

Reach 114

Receiving Water: Los Angeles River
(Hydrologic Unit Code: 180701050402)

Designated Beneficial Uses: IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL, WET

Reach 115

Receiving Water: San Gabriel River Estuary
(Hydrologic Unit Code: 180701060606)

Designated Beneficial Uses: IND, NAV, REC-1, REC-2, COMM, EST, MAR, WILD, RARE, MIGR, SPWN, SHELL

Reach 118 and 119

Receiving Water: Rustic Canyon Channel
(Hydrologic Unit Code: 180701040402)

Designated Beneficial Uses: MUN*, REC-1, REC-2, WARM, WILD

*Conditional beneficial use

VII. Description of Direct Impacts to Waters of the State

Total Project fill/excavation quantities for all impacts are summarized in Table 1. Permanent impacts are categorized as those resulting in a physical loss in area and also those degrading ecological condition only.

Table 1: Total Project Fill/Excavation Quantity

Aquatic Resource Type	Temporary Impact ¹			Permanent Impact		
				Physical Loss of Area		
	Acres	CY ²	LF	Acres	CY	LF
Stream Channel Reach 112	77.83			2.6		
Stream Channel Reach 114	100.40					
Stream Channel Reach 115	109.42			5.6		
Stream Channel Reach 118 and 119	1.54					
TOTAL	289.19			8.20		

VIII. Compensatory Mitigation

The Permittee has agreed to provide the compensatory mitigation described in section XII. H. for temporary impacts that include temporal loss and/or degradation of ecological condition.

The Permittee has agreed to provide the compensatory mitigation described in section XIII. I. for permanent impacts.

IX. California Environmental Quality Act (CEQA)

The Los Angeles Water Board has determined that the Project is exempt from review under CEQA pursuant to California Water Code of Regulations, title 14, section 15061. Specifically, the issuance of this Order and the activities described herein meet the exemption criteria under California Code of Regulations title 14, section(s) 15301 Existing Facilities. Additionally, the Los Angeles Water Board concludes that no exceptions to the CEQA exemption apply to the activities approved by this Order.

¹ Includes only temporary direct impacts to waters of the state and does not include upland areas of temporary disturbance which could result in a discharge to waters of the state.

² Cubic Yards (CY); Linear Feet (LF)

X. Petitions for Reconsideration

Any person aggrieved by this action may petition the State Water Board to reconsider this Order in accordance with California Code of Regulations, title 23, section 3867. A petition for reconsideration must be submitted in writing and received within 30 calendar days of the issuance of this Order.

XI. Fees Received

The fee amount for the proposed project has been determined as required by California Code of Regulations, title 23, sections 3833(b)(3) and 2200(a)(3), and was calculated as Fill and Excavation Discharges with the dredge and fill fee calculator.

Table 2: Record of Fees Received		
Date Received	Check No.	Amount
March 23, 2018	0026220756	\$720
March 23, 2018	0026220758	\$720
March 23, 2018	0026220755	\$720
March 23, 2018	0026220757	\$720
October 18, 2019	0028491393	\$139,200
	Total	\$142,100

XII. Conditions

The Los Angeles Water Board has independently reviewed the record of the Project to analyze impacts to water quality and designated beneficial uses within the watersheds of the Project. In accordance with this Order, the Permittee may proceed with the Project under the following terms and conditions:

A. Authorization

Impacts to waters of the state shall not exceed quantities shown in Table 1.

B. Reporting and Notification Requirements

Requirements for the content of these reporting and notification types are detailed in Attachment C, including specifications for photo and map documentation during the Project. Written reports and notifications must be submitted using the Reporting and Notification Cover Sheet located in Attachment C, which must be signed by the Permittee or an authorized representative.

1. Project Reporting

- a. **Annual Reporting:** The Permittee shall submit an Annual Report each year on the anniversary of Project effective date. Annual Reporting requirements are detailed in Attachment C. Annual reporting shall continue until a Notice of Project Complete Letter is issued to the Permittee.

2. Project Status Notifications

- a. Request for Notice of Completion of Discharges Letter:** The Permittee shall submit a Request for Notice of Completion of Discharges Letter following completion of active Project construction activities, including any required restoration and permittee-responsible mitigation. This request shall be submitted to the Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities. Upon acceptance of the request, Los Angeles Water Board staff shall issue a Notice of Completion of Discharges Letter to the Permittee, which will end the active discharge period and associated annual fees.
- b. Request for Notice of Project Complete Letter:** The Permittee shall submit a Request for Notice of Project Complete Letter when construction and/or any post-construction monitoring is complete,³ and no further Project activities will occur. This request shall be submitted to Los Angeles Water Board staff within thirty (30) days following completion of all Project activities. Upon approval of the request, the Los Angeles Water Board staff shall issue a Notice of Project Complete Letter to the Permittee which will end the post discharge monitoring period and associated annual fees.
- 3. Conditional Notifications and Reports:** The following notifications and reports are required as appropriate.
- a. Accidental Discharges of Hazardous Materials⁴**

Following an accidental discharge of a reportable quantity of a hazardous material, sewage, or an unknown material, the following applies (Wat. Code, § 13271):

- i. As soon as (A) Permittee has knowledge of the discharge or noncompliance, (B) notification is possible, and (C) notification can be provided without substantially impeding cleanup or other emergency measures then:
- first call – 911 (to notify local response agency)
 - then call – Office of Emergency Services (OES) State Warning Center at: (800) 852-7550 or (916) 845-8911
 - Lastly, follow the required OES procedures as set forth in:
[http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill Booklet Feb2014 FINAL BW Acc.pdf](http://www.caloes.ca.gov/FireRescueSite/Documents/CalOES-Spill%20Booklet%20Feb2014%20FINAL%20BW%20Acc.pdf)
- ii. Following notification to OES, the Permittee shall notify the Los Angeles Water Board, as soon as practicable (ideally within 24 hours). Notification may be via telephone, e-mail, or delivered written notice.

³ Completion of post-construction monitoring shall be determined by Los Angeles Water Board staff and shall be contingent on successful attainment of restoration and mitigation performance criteria.

⁴ "Hazardous material" means any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. "Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. (Health & Saf. Code, § 25501.)

- iii. Within five (5) working days of notification to the Los Angeles Water Board, the Permittee must submit an Accidental Discharge of Hazardous Material Report.

b. Violation of Compliance with Water Quality Standards: The Permittee shall notify the Los Angeles Water Board of any event causing a violation of compliance with water quality standards. Notification may be via telephone, e-mail, or delivered written notice.

- i. Examples of noncompliance events include: lack of any reporting in a timely manner, lack of storm water treatment following a rain event, discharges causing a visible plume in a water of the state, water contact with uncured concrete, and exceedances of limits for the analytes for *In-Water Work or Diversions* listed below.
- ii. This notification must be followed within three (3) working days by submission of a Violation of Compliance with Water Quality Standards Report.

c. In-Water Work or Diversion

- i. If stream diversion will be necessary, the Permittee shall submit to the Los Angeles Water Board staff a Stream Diversion Plan, with a diagram and a narrative description of the method to divert the stream and associated BMPs for acceptance, at least 30 days in advance of any stream diversion.
- ii. During stream diversion, water quality monitoring shall be conducted. Requirements for water quality monitoring are below.
- iii. The Permittee shall notify the Los Angeles Water Board at least forty-eight (48) hours prior to initiating work in water or stream diversions. Notification may be via telephone, e-mail, or delivered written notice.
- iv. Within three (3) working days following completion of work in water or stream diversions, an In-Water Work/Diversions Water Quality Monitoring Report must be submitted to Los Angeles Water Board staff.

d. Modifications to Project

Project modifications may require an amendment of this Order. The Permittee shall give advance notice to Los Angeles Water Board staff if Project implementation as described in the application materials is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority by submitting a Modifications to Project Report. The Permittee shall inform Los Angeles Water Board staff of any Project modifications that will interfere with the Permittee's compliance with this Order.

e. Transfer of Property Ownership: This Order is not transferable in its entirety or in part to any person or organization except after notice to the Los Angeles Water Board in accordance with the following terms:

- i. The Permittee must notify the Los Angeles Water Board of any change in ownership or interest in ownership of the Project area by submitting a Transfer of Property Ownership Report. The Permittee and purchaser must sign and date the notification and provide such notification to the Los Angeles Water Board at least 10 days prior to the transfer of ownership.

- ii. Until such time as this Order has been modified to name the purchaser as the permittee, the Permittee shall continue to be responsible for all requirements set forth in this Order.

C. Water Quality Monitoring

1. **General:** If surface water is present, continuous visual surface water monitoring shall be conducted to detect accidental discharge of construction related pollutants (e.g. oil and grease, turbidity plume, or uncured concrete).
2. **Accidental Discharges/Noncompliance:** Upon occurrence of an accidental discharge of hazardous materials or a violation of compliance with a water quality standard, Los Angeles Water Board staff may require water quality monitoring based on the discharge constituents and/or related water quality objectives and beneficial uses.
3. **In-Water Work or Diversions:**

During planned work in water or stream diversions any discharge(s) to waters of the state shall conform to the following water quality standards:

- a. **Oil and Grease.** Waters shall not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect beneficial uses.
- b. **Dissolved Oxygen.** At a minimum, the mean annual dissolved oxygen concentration of all waters shall be greater than 7 mg/L, and no single determination shall be less than 5.0 mg/L, except when natural conditions cause lesser concentrations. The dissolved oxygen content of all surface waters designated as WARM shall not be depressed below 5 mg/L as a result of waste discharges.
- c. **pH.** The pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.
- d. **Turbidity.** Downstream TSS shall be maintained at ambient levels. Where natural turbidity is between 0 and 50 Nephelometric Turbidity Units (NTU), increases shall not exceed 20%. Where natural turbidity is greater than 50 NTU, increases shall not exceed 10%.

Sampling shall be conducted in accordance with Table 3 sampling parameters.⁵

⁵ Pollutants shall be analyzed using the analytical methods described in 40 Code of Federal Regulations Part 136; where no methods are specified for a given pollutant, the method shall be approved by Los Angeles Water Board staff. Grab samples shall be taken between the surface and mid-depth and not be collected at the same time each day to get a complete representation of variations in the receiving water. A hand-held field meter may be used, provided the meter utilizes a U.S. EPA-approved algorithm/method and is calibrated and maintained in accordance with the manufacturer's instructions. A calibration and maintenance log for each meter used for monitoring shall be maintained onsite.

Parameter	Unit of Measurement	Type of Sample	Minimum Frequency
Oil and Grease	N/A	Visual	Continuous
Dissolved Oxygen	mg/L & % saturation	Grab	Daily for the first week, weekly, thereafter
pH	Standard Units	Grab	Daily for the first week, weekly, thereafter
Turbidity	NTU	Grab	Daily for the first week, weekly, thereafter
Temperature	°F (or as °C)	Grab	Daily for the first week, weekly, thereafter

Baseline sampling shall be conducted at a minimum of one location within the project boundary for each phase. All other sampling shall take place at a minimum of two locations. In streams or flowing water, the sample locations shall be upstream and downstream of the Project. Results of the analyses shall be submitted to this Regional Board by the 15th day of each subsequent sampling month. A map or drawing indicating the locations of sampling points shall be included with each submittal. A summary of results shall discuss the analysis. Every measurement not meeting the compliance limits shall be accompanied by an explanation, the actions taken to correct the degradation to waters, and addressed in *Violation of Compliance with Water Quality Standards* report described above.

D. Standard

1. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330, and California Code of Regulations, title 23, chapter 28, Article 6 commencing with sections 3867-3869, inclusive. Additionally, the Los Angeles Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Permittee, if the Los Angeles Water Board determines that: the Project fails to comply with any of the conditions of this Order; or, when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) or federal Clean Water Act section 303 (33 U.S.C. § 1313). For purposes of Clean Water Act section 401(d), the condition constitutes a limitation necessary to assure compliance with water quality standards and appropriate requirements of state law.
2. This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license, unless the pertinent certification application was filed pursuant to subsection 3855(b) of chapter 28, title 23 of the California Code of Regulations, and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. This Order is conditioned upon total payment of any fee required under title 23 of the California Code of Regulations and owed by the Permittee.
4. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under state and federal law. For purposes of Clean Water Act, section 401(d), the

applicability of any state law authorizing remedies, penalties, processes, or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Order.

E. General Compliance

1. Failure to comply with any condition of this Order shall constitute a violation of the Porter-Cologne Water Quality Control Act and the Clean Water Act. The Permittee and/or discharger may then be subject to administrative and/or civil liability pursuant to Water Code section 13385.
2. Permitted actions must not cause a violation of any applicable water quality standards, including impairment of designated beneficial uses for receiving waters as adopted in the Basin Plans by any applicable Los Angeles Water Board or any applicable State Water Board (collectively Water Boards) water quality control plan or policy. The source of any such discharge must be eliminated as soon as practicable.
3. In response to a suspected violation of any condition of this Order, the Los Angeles Water Board may require the holder of this Order to furnish, under penalty of perjury, any technical or monitoring reports the Water Boards deem appropriate, provided that the burden, including costs, of the reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The additional monitoring requirements ensure that permitted discharges and activities comport with any applicable effluent limitations, water quality standards, and/or other appropriate requirement of state law.
4. The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports submitted to support this Order; and all subsequent submittals required as part of this Order. The conditions within this Order and Attachments supersede conflicting provisions within Permittee submittals.
5. This Order and all of its conditions contained herein continue to have full force and effect regardless of the expiration or revocation of any federal license or permit issued for the Project. For purposes of Clean Water Act, section 401(d), this condition constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements of state law.
6. **Construction General Permit Requirement:** If enrolled, the Permittee shall maintain compliance with conditions described in, and required by, NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 2009-0009-DWQ and NPDES No. CAS 000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit).

F. Administrative

1. Signatory requirements for all document submittals required by this Order are presented in Attachment B of this Order.
2. This Order does not authorize any act which results in the taking of a threatened, endangered or candidate species or any act, which is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish & G. Code, §§ 2050-2097) or the federal Endangered Species Act (16 U.S.C. §§ 1531-1544). If a "take" will result from any act

authorized under this Order held by the Permittee, the Permittee must obtain authorization for the take prior to any construction or operation of the portion of the Project that may result in a take. The Permittee is responsible for meeting all requirements of the applicable endangered species act for the Project authorized under this Order.

3. The Permittee shall grant Los Angeles Water Board staff, or an authorized representative (including an authorized contractor acting as a Water Board representative), upon presentation of credentials and other documents as may be required by law, permission to:
 - a. Enter upon the Project or compensatory mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records are kept.
 - b. Have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order.
 - c. Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order.
 - d. Sample or monitor for the purposes of assuring Order compliance.
4. A copy of this Order shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.
5. A copy of this Order must be available at the Project site(s) during construction for review by site personnel and agencies. All personnel performing work on the Project shall be familiar with the content of this Order and its posted location at the Project site.
6. Lake and Streambed Alteration Agreement – The Permittee shall submit a signed copy of the Department of Fish and Wildlife’s lake and streambed alteration agreement to the Los Angeles Water Board immediately upon execution and prior to any discharge to waters of the state.
7. This Order shall expire **five (5) years** from date of this Order. The Applicant shall submit a complete application at least 90 days prior to termination of this Order if renewal is requested.

G. Best Management Practices

1. The Permittee shall follow best management practices for all excavation, construction, or maintenance activities to minimize impacts to water quality and beneficial uses.
2. The Permittee shall install a debris fence at the base of the slopes and sand bags or stop logs along the base of the work site to prohibit dust/debris from leaving the site that could later find its way into the watercourse.
3. The Permittee shall have a qualified biological monitor available on-site if necessary.
4. The Permittee shall schedule all work to occur outside of bird nesting season. If work needs to be conducted within nesting bird season (March 15 - August 31), vegetation that provides potentially suitable habitat for nesting shall be surveyed weekly by a biologist within 48 hours of the start of work. Work shall only proceed once the biologist has confirmed that no nesting

birds are present. If a nest is discovered, an appropriate buffer determined by the biologist shall be designated and demarked with flagging for crews to avoid.

5. The Permittee shall ensure that fueling, lubrication, maintenance, operation, and storage of vehicles and equipment does not result in a discharge or a threatened discharge to waters of the State. At no time shall the Permittee use any vehicle or equipment which leaks any substance that may impact water quality. Staging and storage areas for vehicles and equipment shall be located outside of waters of the State.
6. The Permittee shall not locate construction material, spoils, debris, or any other substances associated with this project that may adversely impact water quality standards in a manner which may result in a discharge or a threatened discharge to waters of the State. Designated spoil and waste areas shall be visually marked prior to any excavation and/or construction activity, and storage of the materials shall be confined to these areas.
7. The Permittee shall relocate all waste or dredged material removed to a legal point of disposal.
8. The Permittee shall ensure that the application of pesticides is supervised by a certified applicator and in conformance with manufacturer's specifications for use. Compounds used shall be appropriate to target species and habitat. Pesticide use shall be in accordance with State Water Resources Control Board Water Quality Orders for pesticide usage.
9. The Permittee shall not conduct any construction activities within waters of the State during a rainfall event. The Permittee shall maintain a five-day (5-day) clear weather forecast before conducting any operations within waters of the State.
10. If rain is predicted after operations have begun, the Permittee shall cease activities immediately and the site shall be stabilized to prevent impacts to water quality and minimize erosion and runoff from the site.
11. The Permittee shall utilize the services of a qualified biologist with expertise in riparian assessments during any vegetation clearing activities. The biologist shall be available on site during construction activities to ensure that all protected areas are marked properly and ensure that no vegetation outside the specified areas is removed. The biologist shall have the authority to stop the work, as necessary, if instructions are not followed. The biologist shall be available upon request from this Regional Board for consultation within 24 hours of request of consultation.
12. No activities shall involve wet excavations (i.e., no excavations shall occur below the seasonal high water table). A minimum 5-foot buffer zone shall be maintained above the existing groundwater level. If construction or groundwater dewatering is proposed or anticipated, the Permittee shall file a Report of Waste Discharge (ROWD) to the Los Angeles Water Board and obtain any necessary NPDES permits/Waste Discharge Requirements prior to discharging waste.
13. The monitoring biologist will identify locations with a New Zealand mudsnail population before work begins. If equipment comes into contact near the four 78-inch flapgate location, the Permittee will follow the practices listed in the 2010 Hazard Analysis and Critical Control Point

(HACCP) Soft-Bottom Channel Maintenance Activities Within the Malibu and Santa Monica Canyon Watersheds.

14. The project shall comply with the local regulations associated with the Los Angeles Water Board’s Municipal Stormwater Permit issued to Discharges within the Coastal Watersheds of Los Angeles and Ventura Counties under NPDES No. CAS004004 and Waste Discharge Requirements Order No. R4-2021-0105 or subsequent order.

H. On-site Mitigation for Temporary Impacts

1. The Permittee shall restore all areas of temporary impacts to waters of the state and all Project site upland areas of temporary disturbance which could result in a discharge of waters of the state.
2. Restoration shall include grading of disturbed areas to pre-project contours. Areas of temporary impacts will revegetate naturally until the next annual maintenance.

Table 4: Required Project Mitigation Quantity for Temporary Impacts								
Aquatic Resource Type	Mit. Type ⁶	Units	Method ⁷					
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown
Stream Channel	PR	Acres			289.19			

I. Compensatory Mitigation for Permanent Impacts⁸

1. Total Required Compensatory Mitigation

- a. The Permittee is required to provide compensatory mitigation for the authorized permanent impact to stream channel by enhancement at a minimum 1:1 area replacement ratio (8.2 acres). Mitigation will consist of enhancement in the area by allowing native vegetation to reestablish itself after non-natives have been removed. Mitigation requirements have been set based the understanding of the strict USACE flood levee requirements. Additional compensatory mitigation will be assessed in future renewals of this certification if impacts exceed the original footprint.
- b. Total required Project compensatory mitigation information for permanent physical loss of area, ecological degradation and temporal loss is summarized in Table 5.

⁶ Mitigation type for onsite restoration of temporary impacts is Permittee Responsible (PR).

⁷ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

⁸ Compensatory Mitigation is for permanent physical loss and permanent ecological degradation of a water of the state.

Table 5: Required Project Compensatory Mitigation Quantity								
Aquatic Resource Type	Comp Mit. Type ⁹	Units	Method ¹⁰					
			Est.	Re-est.	Reh.	Enh.	Pres.	Unknown
Stream Channel	PR	Acres				8.2		

XIII. Water Quality Certification

I hereby issue the Order for the Annual Maintenance of Soft Bottom Channel Reaches (SBC) Reach 112 (Ballona Creek), Reach 114 (Lower Los Angeles River), Reach 115 (Lower San Gabriel River), and Reaches 118 and 119 (Rivas and Rustic Canyons), 4WQC40115038, certifying that as long as all of the conditions listed in this Order are met, any discharge from the referenced Project will comply with the applicable provisions of Clean Water Act sections 301 (Effluent Limitations), 302 (Water Quality Related Effluent Limitations), 303 (Water Quality Standards and Implementation Plans), 306 (National Standards of Performance), and 307 (Toxic and Pretreatment Effluent Standards).

This discharge is also regulated pursuant to State Water Board Water Quality Order No. 2003-0017-DWQ which authorizes this Order to serve as Waste Discharge Requirements pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

Except insofar as may be modified by any preceding conditions, all Order actions are contingent on: (a) the discharge being limited and all proposed mitigation being completed in strict compliance with the conditions of this Order and the attachments to this Order; and, (b) compliance with all applicable requirements of Statewide Water Quality Control Plans and Policies, the Regional Water Boards' Water Quality Control Plans and Policies.

June 6, 2022

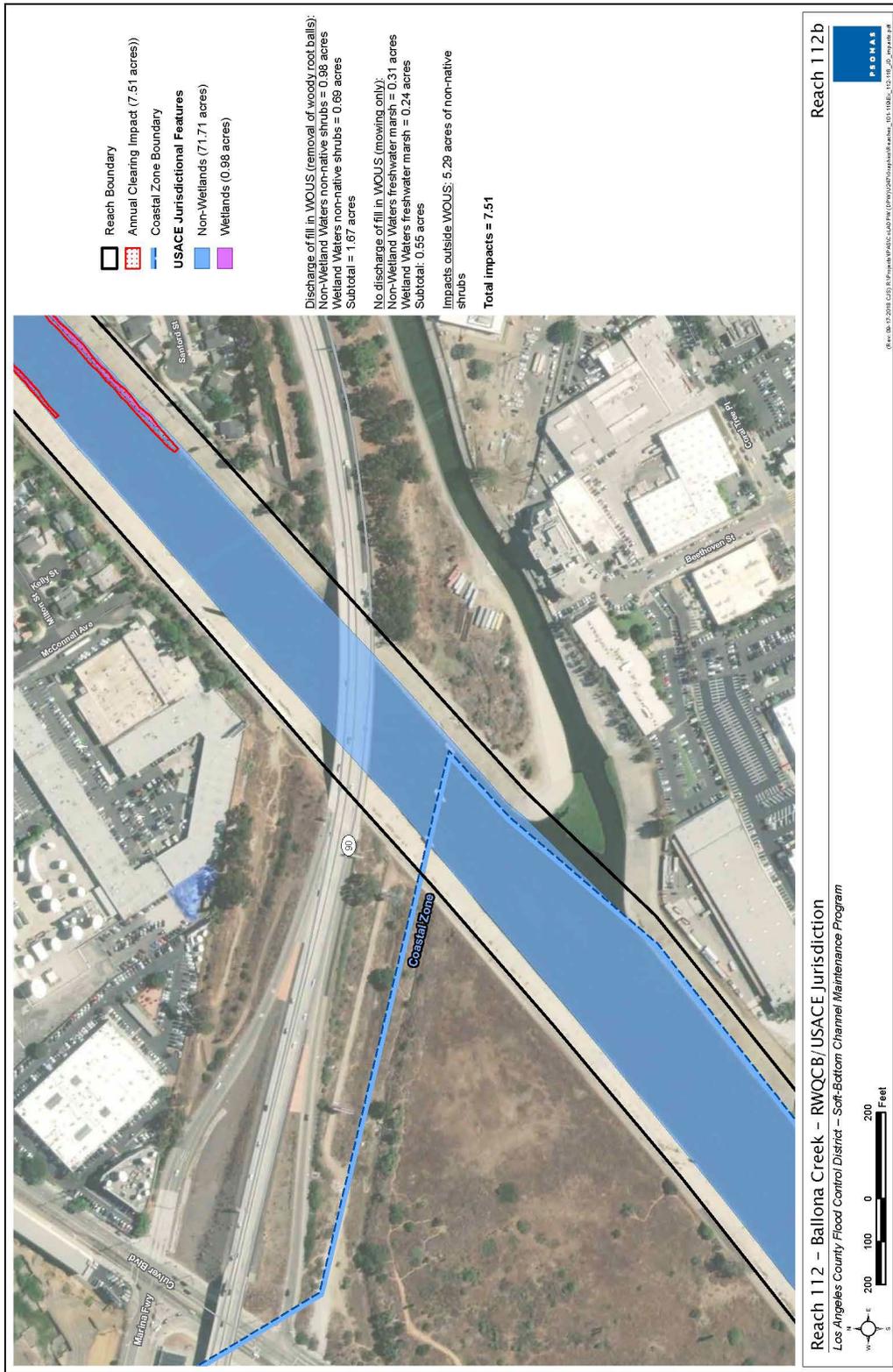
 Renee Purdy
 Executive Officer
 Los Angeles Water Quality Control Board

 Date

⁹ Compensatory mitigation type may be: In-Lieu-Fee (ILF); Mitigation Bank (MB); Permittee-Responsible (PR)

¹⁰ Methods: establishment (Est.), reestablishment (Re-est.), rehabilitation (Reh.), enhancement (Enh.), preservation (Pres.). Unknown applies to advance credits with an unknown method and or location.

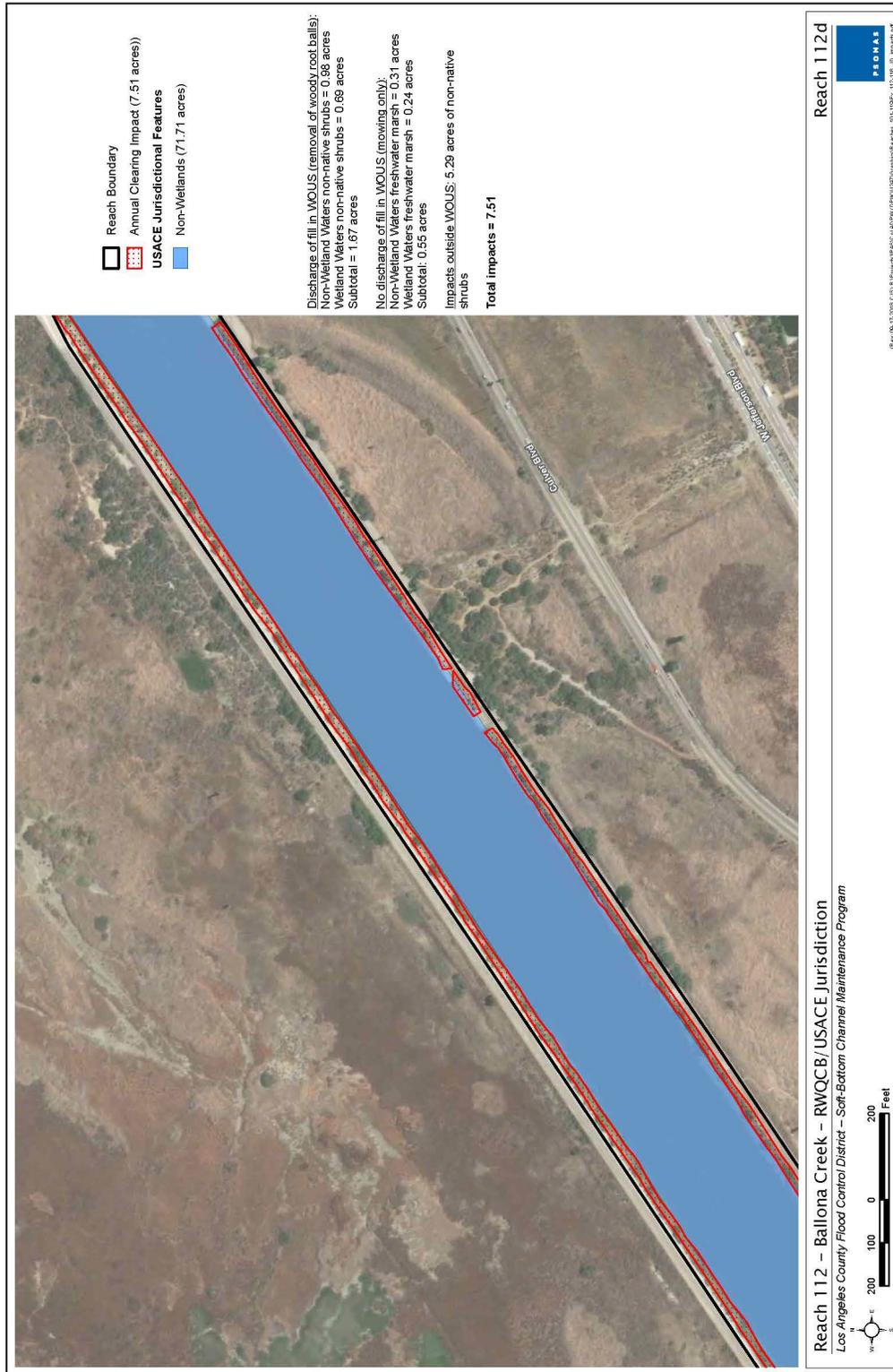
Reach 112



Reach 112



Reach 112



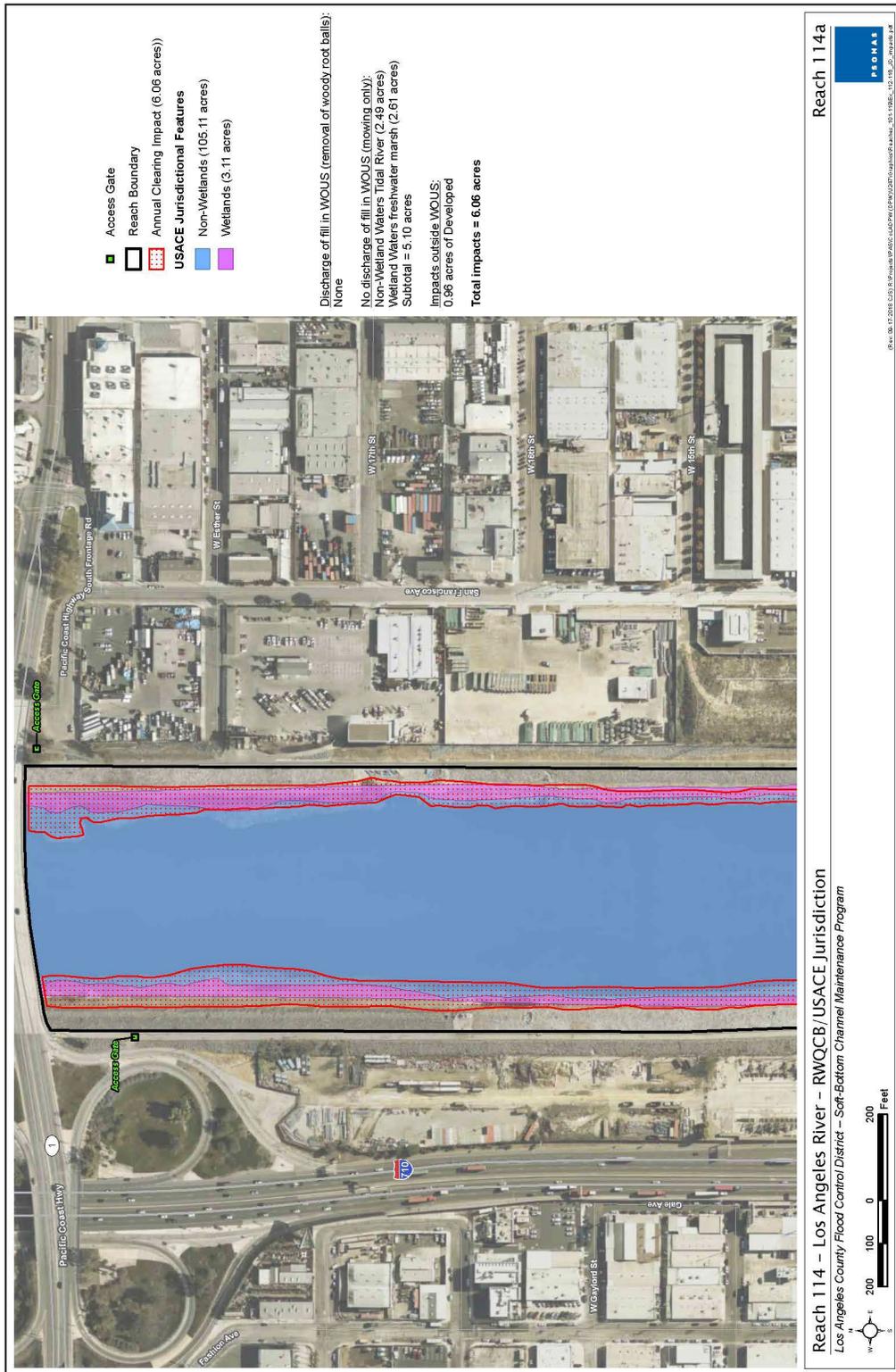
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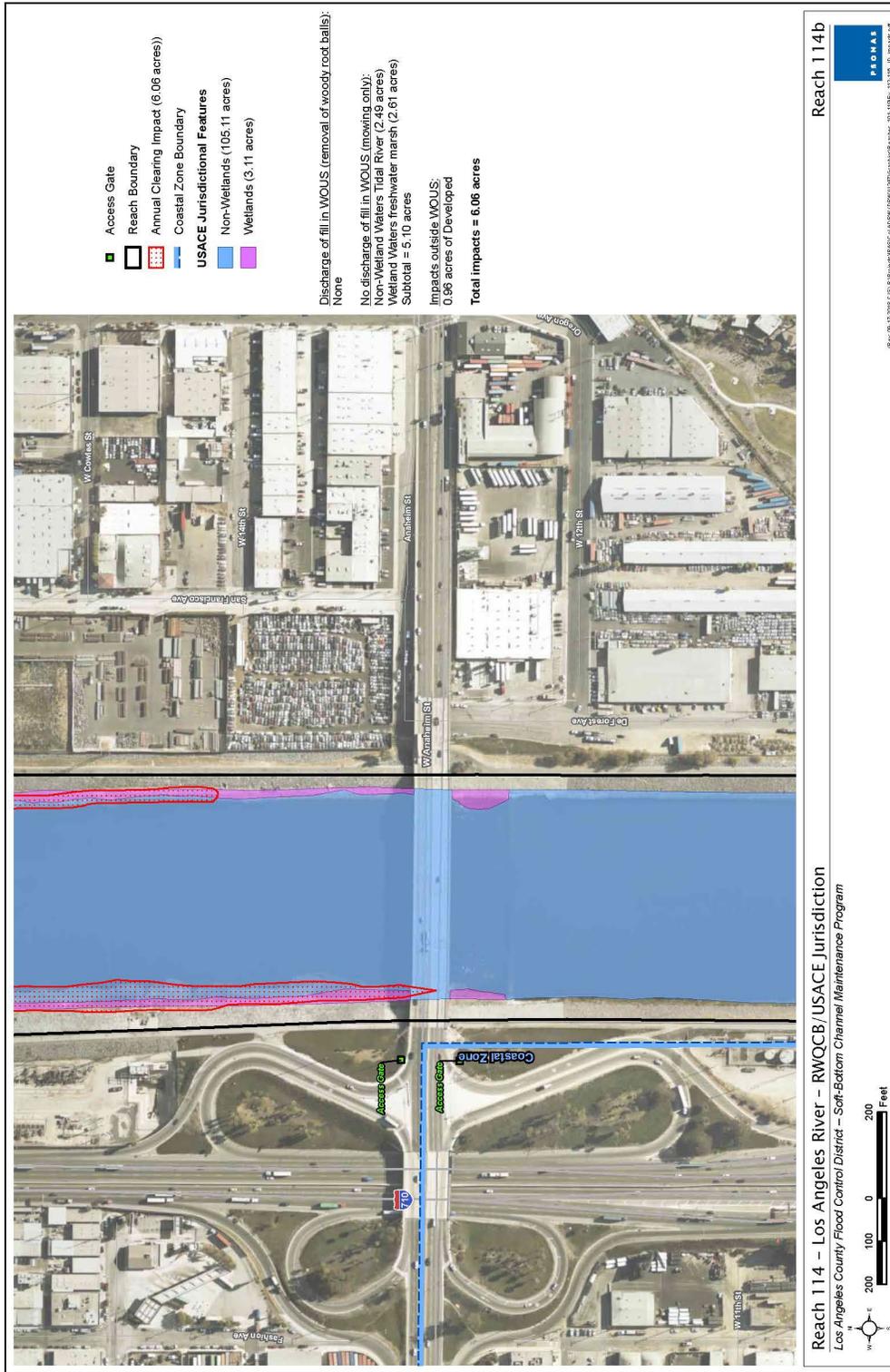
Reach 112



Reach 114



Reach 114



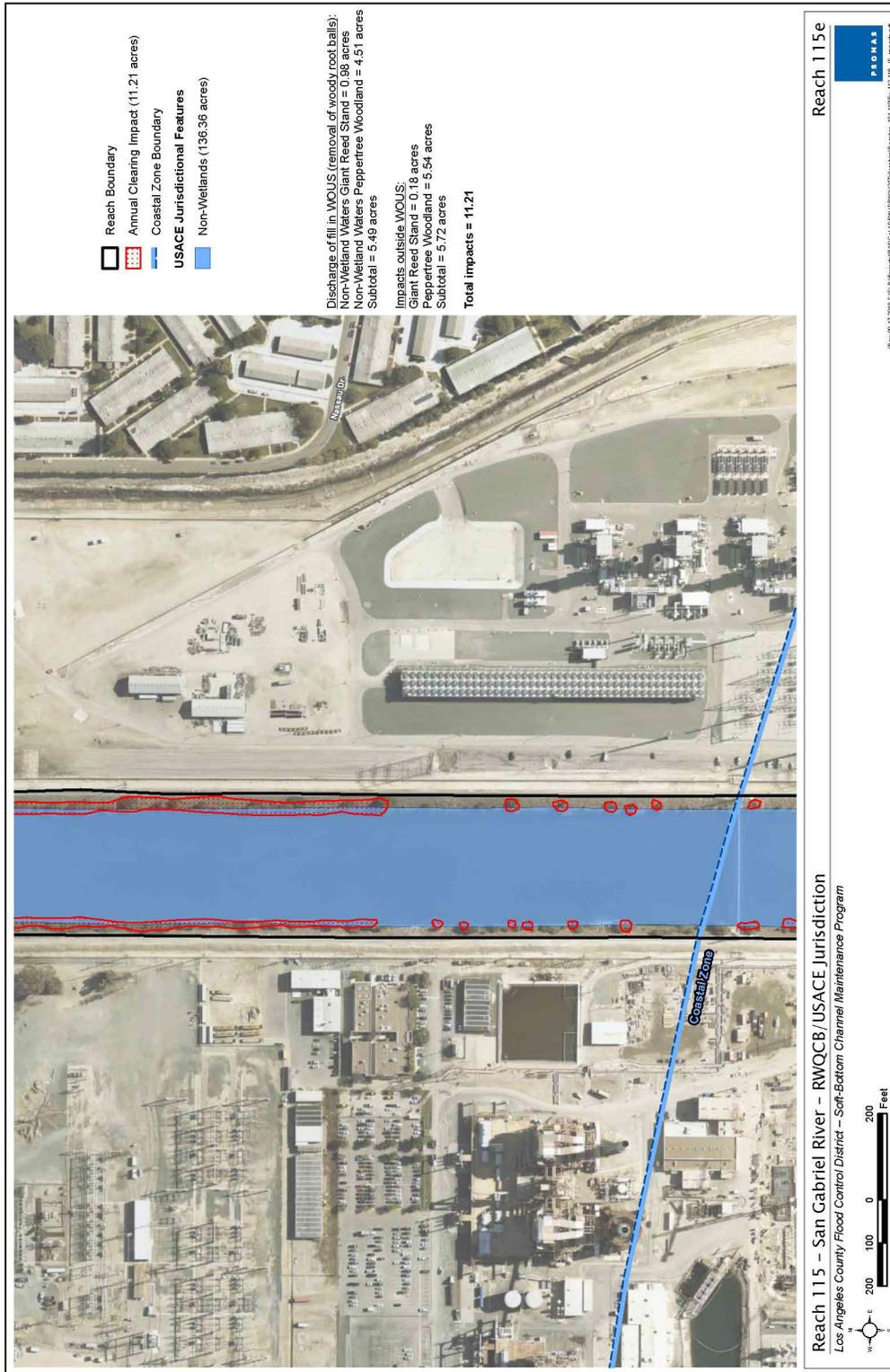
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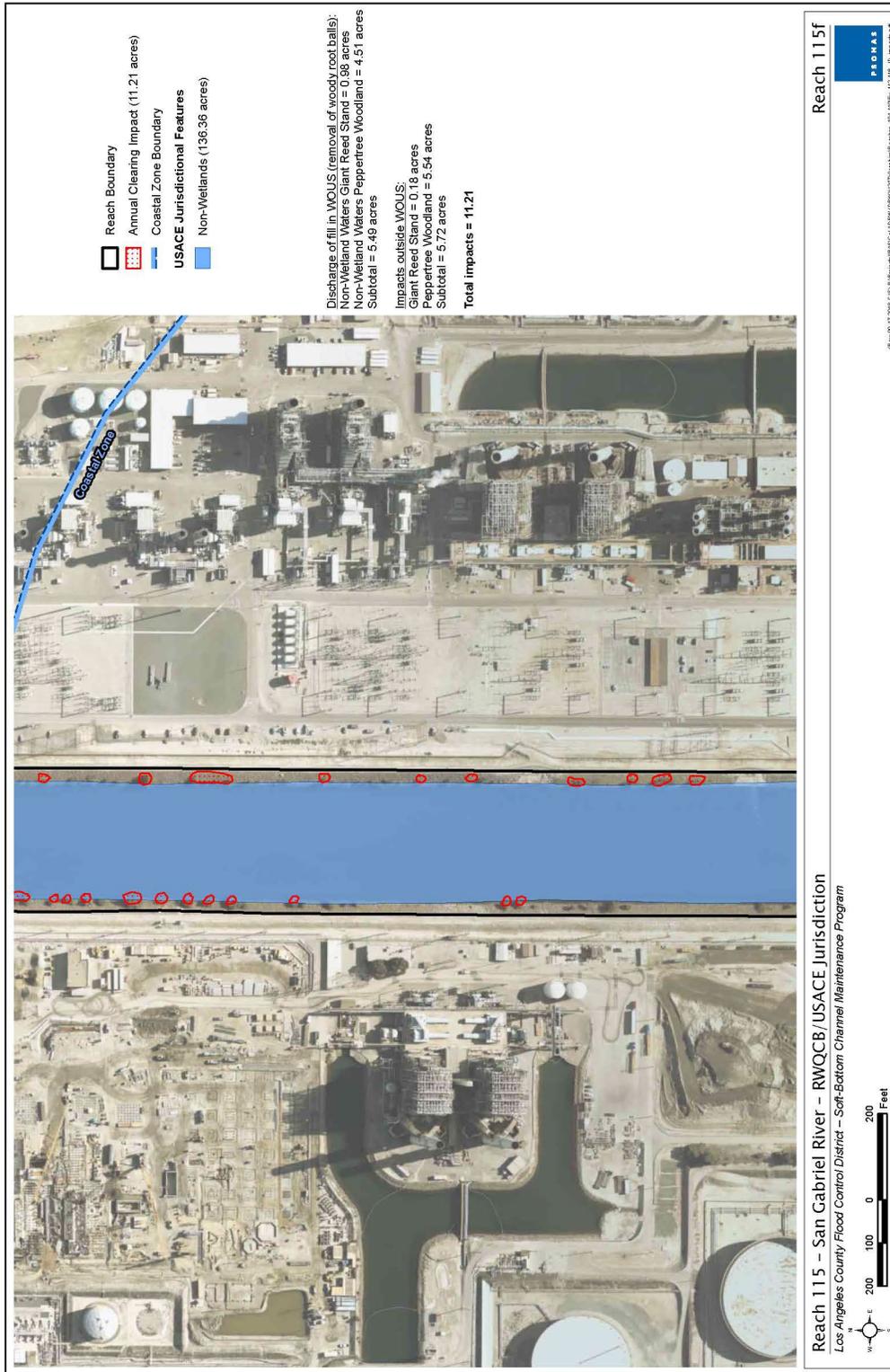
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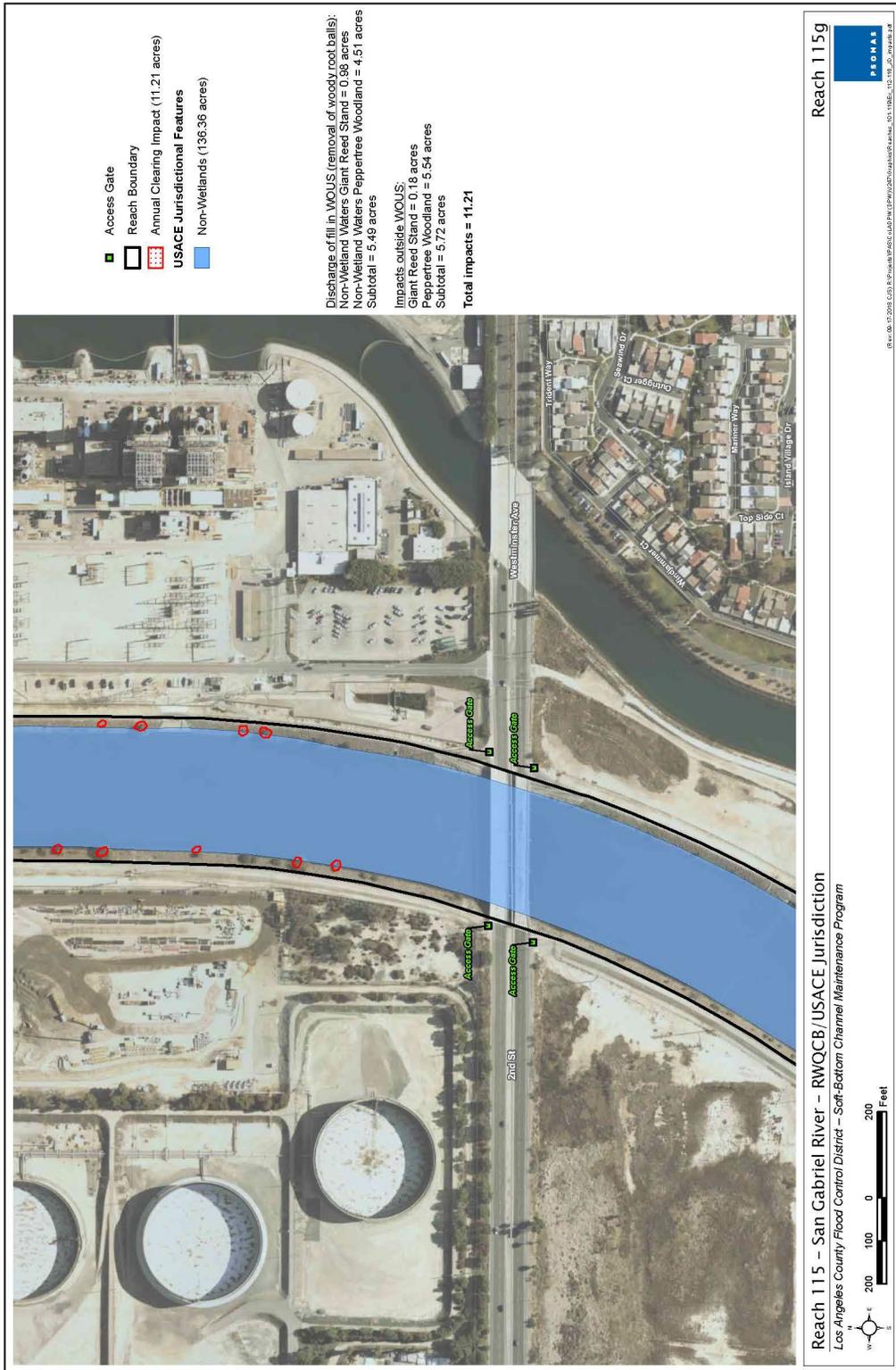
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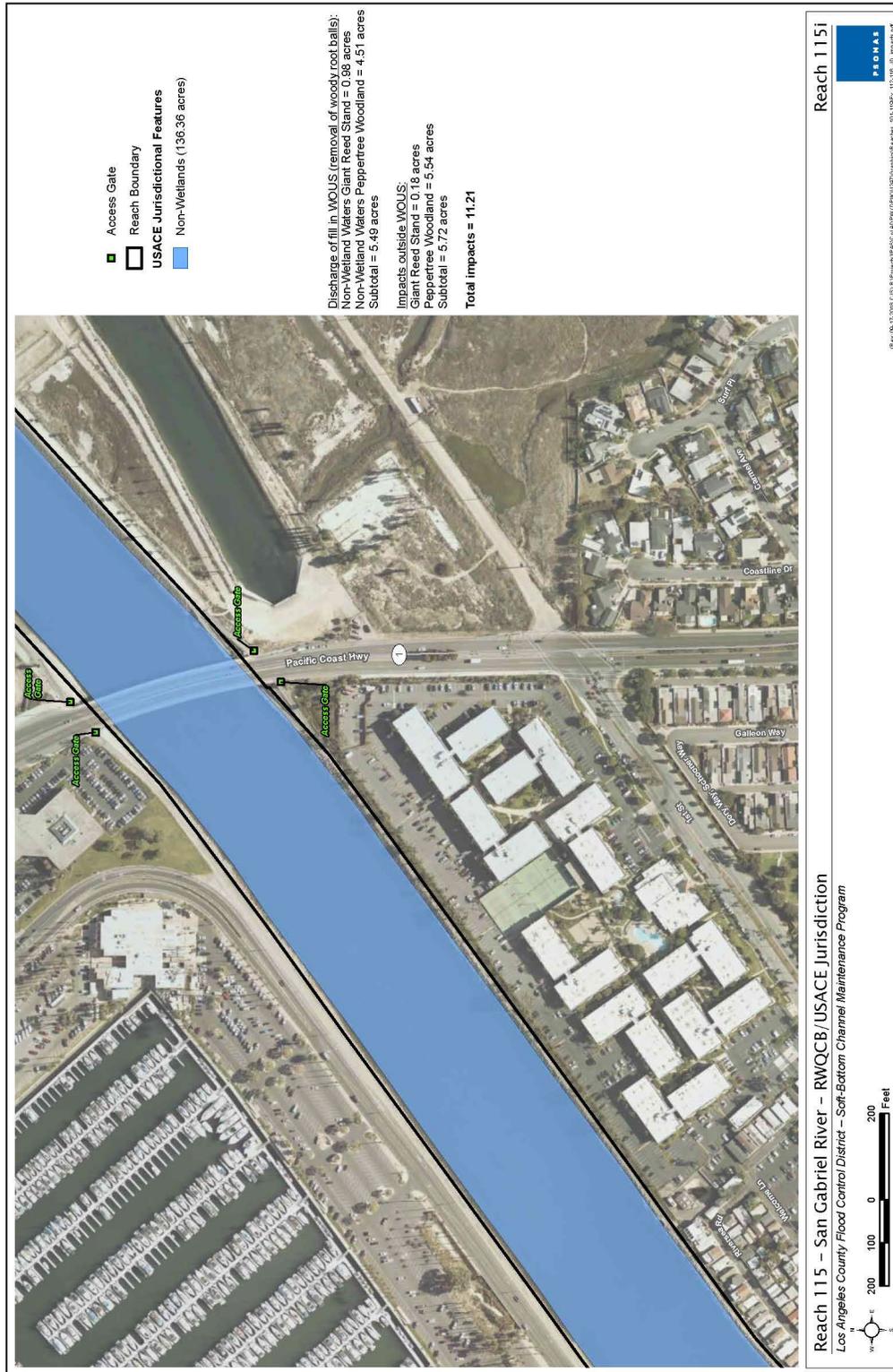
Reach 115



Reach 115



Reach 115



Reaches 118 and 119



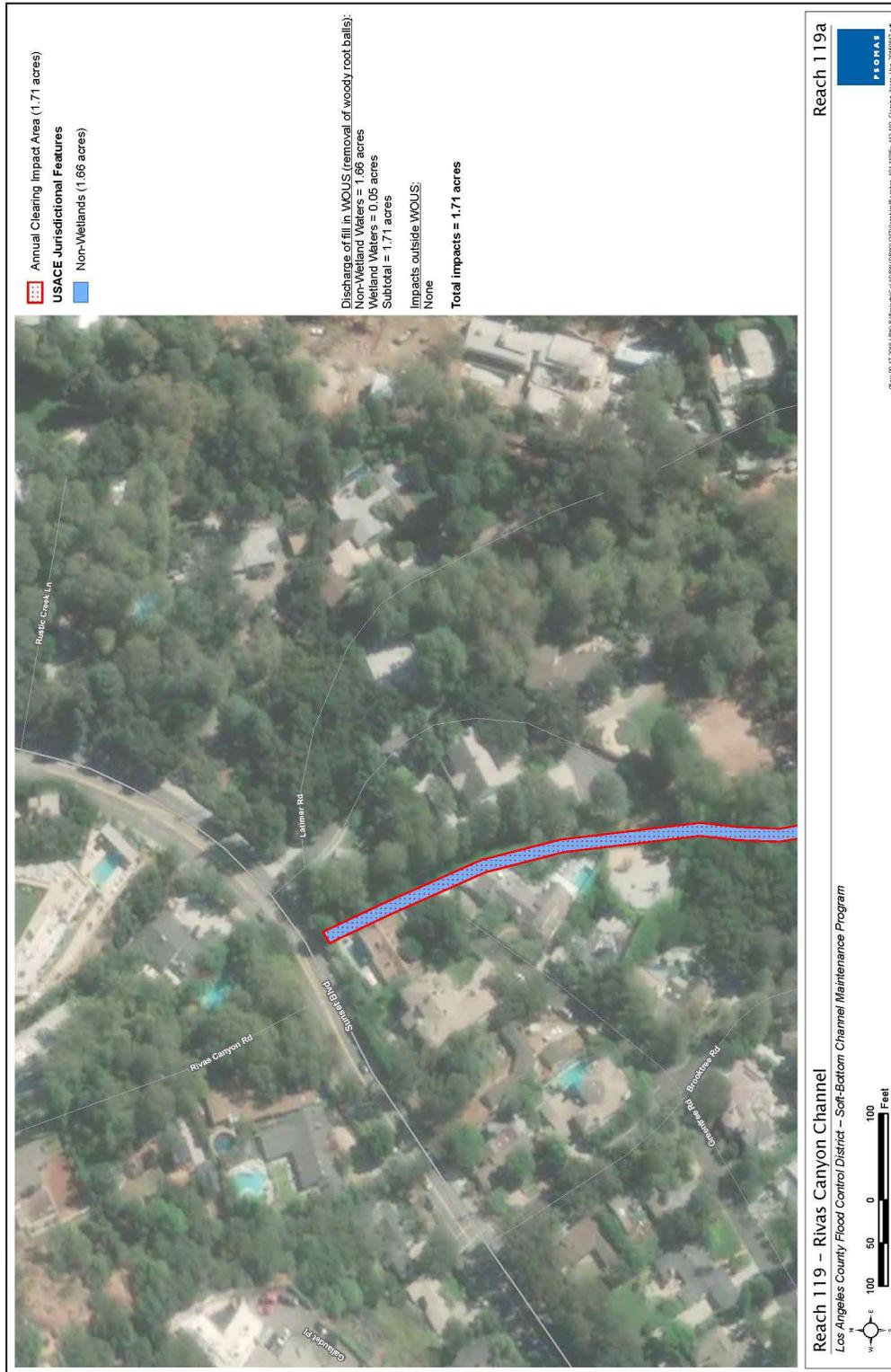
Reaches 118 and 119



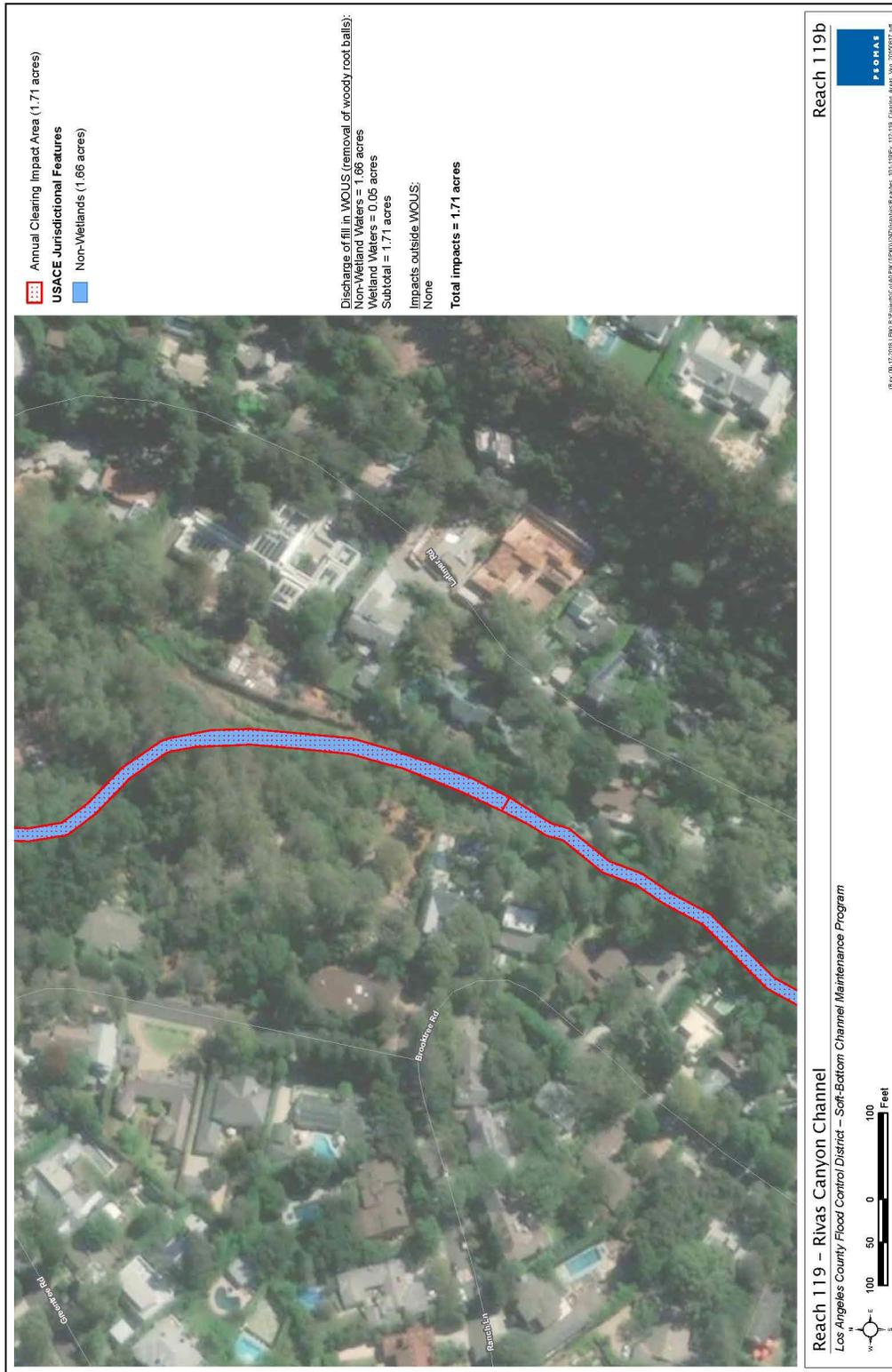
Reaches 118 and 119



Reaches 118 and 119



Reaches 118 and 119



Attachment B
Signatory Requirements

SIGNATORY REQUIREMENTS

*All Documents Submitted In Compliance With This Order
Shall Meet The Following Signatory Requirements:*

1. All applications, reports, or information submitted to the Los Angeles Water Quality Control Board (Los Angeles Water Board) must be signed and certified as follows:
 - a) For a corporation, by a responsible corporate officer of at least the level of vice-president.
 - b) For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
 - c) For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:
 - a) The authorization is made in writing by a person described in items 1.a through 1.c above.
 - b) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
 - c) The written authorization is submitted to the Los Angeles Water Board Staff Contact prior to submitting any documents listed in item 1 above.
3. Any person signing a document under this section shall make the following certification:

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

Copies of this Form

Include a copy of the Project specific Cover Sheet below with your report: please retain a copy for your records.

Report Submittal Instructions

1. Check the box on the Report and Notification Cover Sheet next to the report or notification you are submitting.
 - **Part A (Annual Report):** This report will be submitted annually from the anniversary of Project effective date until a Notice of Project Complete Letter is issued.
 - **Part B (Project Status Notifications):** Used to notify the Los Angeles Water Board of the status of the Project schedule that may affect Project billing.
 - **Part C (Conditional Notifications and Reports):** Required on a case by case basis for accidental discharges of hazardous materials, violation of compliance with water quality standards, notification of in-water work, or other reports.
2. Sign the Report and Notification Cover Sheet and attach all information requested for the Report Type.
3. **Electronic Report Submittal Instructions:**
 - Submit signed Report and Notification Cover Sheet and required information via email to: Valerie.CarrilloZara@waterboards.ca.gov
 - Include in the subject line of the email:
Subject: ATTN: Valerie CarrilloZara; File No: 15-038, Reg. Measure ID: 401455 Report

Definition of Reporting Terms

1. **Active Discharge Period:** The active discharge period begins with the effective date of this Order and ends on the date that the Permittee receives a Notice of Completion of Discharges Letter or, if no post-construction monitoring is required, a Notice of Project Complete Letter. The Active Discharge Period includes all elements of the Project including site construction and restoration, and any Permittee responsible compensatory mitigation construction.
2. **Request for Notice of Completion of Discharges Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that have post construction monitoring requirements, e.g. if site restoration was required to be monitored for 5 years following construction. Los Angeles Water Board staff will review the request and send a Completion of Discharges Letter to the Permittee upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee.

3. **Request for Notice of Project Complete Letter:** This request by the Permittee to the Los Angeles Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements, and no further Project activities are planned. Los Angeles Water Board staff will review the request and send a Project Complete Letter to the Permittee upon approval. Termination of annual invoicing of fees will correspond with the date of this letter.
4. **Post-Discharge Monitoring Period:** The post-discharge monitoring period begins on the date of the Notice of Completion of Discharges Letter and ends on the date of the Notice of Project Complete Letter issued by the Los Angeles Water Board staff. The Post-Discharge Monitoring Period includes continued water quality monitoring or compensatory mitigation monitoring.
5. **Effective Date:** Date of Order issuance.

Map/Photo Documentation Information

When submitting maps or photos, please use the following formats.

1. **Map Format Information:**

Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference):

- **GIS shapefiles:** The shapefiles must depict the boundaries of all project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and if possible, provide map with a North American Datum of 1983 (NAD38) in the California Teale Albers projection in feet.
 - **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
 - **Other electronic format** (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
 - Aquatic resource maps marked on paper **USGS 7.5 minute topographic maps** or **Digital Orthophoto Quarter Quads (DOQQ)** printouts. Maps must show the boundaries of all project areas and extent/type of aquatic resources impacted. If this format is used include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted.
2. **Photo-Documentation:** Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post construction conditions.

REPORT AND NOTIFICATION COVER SHEET

Project:	Soft-Bottom Channel Reach 114 Annual Maintenance		
Permittee:	Los Angeles County Flood Control District		
Reg. Meas. ID:	401455	Place ID:	401455
		File No:	15-038

Report Type Submitted

Part A – Project Reporting	
Report Type	<input type="checkbox"/> Annual Report
Part B - Project Status Notifications	
Report Type	<input type="checkbox"/> Commencement of Construction
Report Type	<input type="checkbox"/> Request for Notice of Completion of Discharges Letter
Report Type	<input type="checkbox"/> Request for Notice of Project Complete Letter
Part C - Conditional Notifications and Reports	
Report Type	<input type="checkbox"/> Accidental Discharge of Hazardous Material Report
Report Type	<input type="checkbox"/> Violation of Compliance with Water Quality Standards Report
Report Type	<input type="checkbox"/> In-Water Work/Diversions Water Quality Monitoring Report
Report Type	<input type="checkbox"/> Modifications to Project Report
Report Type	<input type="checkbox"/> Transfer of Property Ownership Report

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

Print Name ¹

Affiliation and Job Title

Signature

Date

¹STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize _____ to act in my behalf as my representative in the submittal of this report, and to furnish upon request, supplemental information in support of this submittal.

Permittee's Signature

Date

***This Report and Notification Cover Sheet must be signed by the Permittee or a duly authorized representative and included with all written submittals.**

Part A – Project Reporting

Report Type	Annual Report
Report Purpose	Notify the Los Angeles Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit	Annual reports shall be submitted each year on the anniversary of Project effective date. Annual reports shall continue until a Notice of Project Complete Letter is issued to the Permittee.
Report Contents	<p>The contents of the annual report shall include the topics indicated below for each project period. Report contents are outlined in Annual Report Topics below.</p> <p><u>During the Active Discharge Period</u></p> <ul style="list-style-type: none"> • Topic 1: Construction Summary • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status <p><u>During the Post-Discharge Monitoring Period</u></p> <ul style="list-style-type: none"> • Topic 2: Mitigation for Temporary Impacts Status • Topic 3: Compensatory Mitigation for Permanent Impacts Status
Annual Report Topics (1-3)	
Annual Report Topic 1	Construction Summary
When to Submit	With the annual report during the Active Discharge Period.
Report Contents	<ol style="list-style-type: none"> 1. Project progress and schedule including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water best management practices (BMPs). If construction has not started, provide estimated start date and reasons for delay. 2. Color photos, pre-project and current. 3. Map showing general Project progress. 4. If applicable: <ol style="list-style-type: none"> a. Summary of any conditional reports sent during the year such as “Accidental Discharge of Hazardous Material Report” or “Accidental Discharge of Hazardous Material Report” b. Copies of revised permits from other agencies c. Compilation of all water quality monitoring results for the year in a spreadsheet format.
Annual Report Topic 2	Mitigation for Temporary Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.

Report Contents	<p>*If not applicable report N/A.</p> <ol style="list-style-type: none"> 1. Planned date of initiation and map showing locations of mitigation for temporary impacts to waters of the state and all upland areas of temporary disturbance which could result in a discharge to waters of the state. 2. If mitigation for temporary impacts has already commenced, provide a map and information concerning attainment of mitigation success.
Annual Report Topic 3	Compensatory Mitigation for Permanent Impacts Status
When to Submit	With the annual report during both the Active Discharge Period and Post-Discharge Monitoring Period.
Report Contents	<p>*If not applicable report N/A.</p> <p>Part A. Permittee Responsible</p> <ol style="list-style-type: none"> 1. Planned date of initiation of compensatory mitigation site installation. 2. If installation is in progress, a map of what has been completed to date. 3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan. <p>Part B. Mitigation Bank or In-Lieu Fee</p> <ol style="list-style-type: none"> 1. Status or proof of purchase of credit types and quantities. 2. Include the name of bank/ILF Program and contact information. 3. If ILF, location of project and type if known.

Part B – Project Status Notifications

Report Type	Request for Notice of Completion of Discharges Letter
Report Purpose	Notify Los Angeles Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and permittee responsible compensatory mitigation, is complete.
When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project construction activities.
Report Contents	<ol style="list-style-type: none"> 1. Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. 2. An updated monitoring schedule for mitigation for temporary impacts to waters of the state and permittee responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type	Request for Notice of Project Complete Letter
Report Purpose	Notify Los Angeles Water Board staff that construction and/or any post-construction monitoring is complete, or is not required, and no further Project activity is planned.

When to Submit	Must be received by Los Angeles Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents	<p>Part A: Mitigation for Temporary Impacts</p> <ol style="list-style-type: none"> 1. A report establishing that areas of temporary impacts to waters of the state, and upland areas of temporary disturbance which could result in a discharge to waters of the state, have been successfully restored and all identified success criteria have been met. Pre- and post-photo documentation of all restoration sites. <p>Part B: Permittee Responsible Compensatory Mitigation</p> <ol style="list-style-type: none"> 2. A report establishing that the performance standards outlined in the compensatory mitigation plan have been met. 3. Status on the implementation of the long-term maintenance and management plan and funding of endowment. 4. Pre- and post-photo documentation of all compensatory mitigation sites. 5. Final maps of all compensatory mitigation areas (including buffers). <p>Part C: Post-Construction Storm Water BMPs</p> <ol style="list-style-type: none"> 6. Date of storm water permit Notice of Termination(s), if applicable. 7. Report status and functionality of all post-construction BMPs.

Part C – Conditional Notifications and Reports

Report Type	Accidental Discharge of Hazardous Material Report
Report Purpose	Notifies Los Angeles Water Board staff that an accidental discharge of hazardous material has occurred.
When to Submit	Within five (5) working days following the date of an accidental discharge. Continue reporting as required by Los Angeles Water Board staff.
Report Contents	<ol style="list-style-type: none"> 1. The report shall include the OES Incident/Assessment Form, a full description and map of the accidental discharge incident (i.e. location, time and date, source, discharge constituent and quantity, aerial extent, and photo documentation). If applicable, the OES Written Follow-Up Report may be substituted. 2. If applicable, any required sampling data, a full description of the sampling methods including frequency/dates and times of sampling, equipment, locations of sampling sites. 3. Locations and construction specifications of any barriers, including silt curtains or diverting structures, and any associated trenching or anchoring.

Report Type	Violation of Compliance with Water Quality Standards Report
Report Purpose	Notifies Los Angeles Water Board staff that a violation of compliance with water quality standards has occurred.

When to Submit	The Permittee shall report any event that causes a violation of water quality standards within three (3) working days of the noncompliance event notification to Los Angeles Water Board staff.
Report Contents	The report shall include: the cause; the location shown on a map; and the period of the noncompliance including exact dates and times. If the noncompliance has not been corrected, include: the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and any monitoring results if required by Los Angeles Water Board staff.

Report Type	In-Water Work and Diversions Water Quality Monitoring Report
Report Purpose	Notifies Los Angeles Water Board staff of the completion of in-water work.
When to Submit	Within three (3) working days following the completion of in-water work. Continue reporting in accordance with the approved water quality monitoring plan.
Report Contents	As required by the approved water quality monitoring plan.

Report Type	Modifications to Project Report
Report Purpose	Notifies Los Angeles Water Board staff if the Project, as described in the application materials, is altered in any way or by the imposition of subsequent permit conditions by any local, state or federal regulatory authority.
When to Submit	Prior to any alteration or modification of Project activities.
Report Contents	A description and location of any alterations of Project activities. Identify any Project modifications that will interfere with the Permittee's compliance with the Order. Any alteration may require an Amendment, to be determined by Los Angeles Water Board staff.

Report Type	Transfer of Property Ownership Report
Report Purpose	Notifies Los Angeles Water Board staff of change in ownership of the Project or Permittee-responsible mitigation area.
When to Submit	At least 10 working days prior to the transfer of ownership.
Report Contents	<ol style="list-style-type: none"> 1. A statement that the Permittee has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: <ol style="list-style-type: none"> a. the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and b. responsibility for compliance with any long-term BMP¹ maintenance plan requirements in this Order. 2. A statement that the Permittee has informed the purchaser to submit a written request to the Los Angeles Water Board to be named as the permittee in a revised order.

¹ Best Management Practices (BMPs) is a term used to describe a type of water pollution or environmental control.

Compliance with Code of Federal Regulations, title 40, section 121.7, subdivision (d).

The purpose of this attachment is to comply with Title 40, Code of Federal Regulations (CFR) Part 121.7(d)(1), which requires an explanation of why a condition is necessary to assure that the authorized discharge will comply with water quality requirements, and a citation to federal, state, or tribal law that authorizes the condition.

This Attachment uses the same organizational structure as the *Conditions* Section, and the statements below correspond with the conditions set forth in the *Conditions* Section. The Sections preceding the *Conditions* Section are not “conditions” as used in 40 CFR section 121.7.(A).

The following three sources of authority are applicable to almost all conditions. Because these authorities are relevant to so many conditions, they are described in greater detail here and then cross-referenced below.

The state’s Statement of Policy with respect to Maintaining High Quality of Waters in California (“Antidegradation Policy”, State Board Resolution No. 68-16), requires that any “activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters will be required to meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the state will be maintained.” All Regional Board Water Quality Control Plans incorporate the state’s Antidegradation Policy by reference. The state Antidegradation Policy incorporates the federal Antidegradation Policy (40 CFR Part 131.12), which requires “[e]xisting instream water uses and the level of water quality necessary to protect the existing uses shall be maintained and protected.” According to U.S. EPA, for dischargers of dredged or fill material comply with the federal Antidegradation Policy by complying with U.S. EPA’s section 404(b)(1) Guidelines. The State Water Board adopted a modified version of U.S. EPA’s section 404(b)(1) Guidelines in the Dredge or Fill Procedures (also referred as State Supplemental Guidelines).

The State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Dredge or Fill Procedures) were adopted on April 2, 2019 and went into effect on May 28, 2020. The Dredge or Fill Procedures were adopted pursuant to the State Water Board’s authority under Water Code section 13140 (state policy for water quality control) and 13170 (water quality control plan), and accordingly have regulatory effect. Consistent with Government Code, section 11353, a clear and concise summary of the Dredge or Fill Procedures is available in California Code of Regulations, section 3013. Per the Dredge or Fill Procedures, the permitting authority may only approve a project if the demonstrations set forth in Section IV.B.1 have been made. The information required by Section IV.A is necessary to ensure compliance with Section IV.B.1.

In addition, the conditions within the Order are generally required pursuant to the Los Angeles Water Board’s Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan). The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. For instance, the Basin Plan

includes water quality objectives for chemical constituents, oil and grease, pH, dissolved oxygen, temperature, , toxicity, pesticides, solid, suspended or settleable materials, floating material, turbidity, exotic vegetation, color, and taste and odor which ensure protection of beneficial uses.

Furthermore, the conditions within the Order are also required, where applicable, pursuant to statewide water quality control plans and policies which were adopted and are periodically revised pursuant to Water Code section 13240, including, but not limited to, the following:

- Inland Surface Waters, Enclosed Bays, and Estuaries (ISWEBE) Plan,
- Plan for California's Nonpoint Source (NPS) Pollution Control Program,
- Policy for the Implementation and Enforcement of the Nonpoint Source (NPS) Pollution Control Program, and
- State of California Executive Order W-59-93 (Wetlands "No Net Loss" Policy).

Furthermore, California Code of Regulations, title 23, Chapter 28 also sets forth regulations pertaining to water quality certifications. Section 3856 sets forth information that must be included in water quality certification requests, includes a description of steps that have or will be taken to avoid, minimize, and compensate for impacts to waters of the state.

Conditions

Authorization

Authorization under this Order is granted based on the application information submitted. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Reporting and Notification Requirements

The reports confirm that the best management practices required under this Order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges also ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the benefits to be obtained from the reports. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities). The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Authorization under this Order is granted based on the application information submitted, including identification of the legally responsible party. Conditions regarding transfers are necessary to confirm whether the new owner wishes to assume legal responsibility for compliance with this Order. If not, the original discharger remains responsible for compliance with this Order. Confirmation is also necessary to confirm whether liability for long-term best

management practices maintenance is accepted by another entity. If not, the original discharger remains responsible for compliance with this Order. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Water Quality Monitoring

General

This monitoring condition is authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of monitoring, including costs, bears a reasonable relationship to the need for the monitoring, and the benefits to be obtained from the monitoring. The anticipated costs are minimal as only visual monitoring and in-field measurements are required. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Accidental Discharges/Noncompliance

See explanation for the *Reporting and Notification Requirements* Section

In-Water Work or Diversions

Consistent with the Dredge or Fill Procedures, section IV.A.2.c, water quality monitoring plans are required for any in-water work, including temporary dewatering or diversions. These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water quality is maintained. A water quality monitoring plan is necessary to conform to water quality standards for oil and grease, dissolved oxygen, pH, turbidity, and temperature. The Regional Water Board's Basin Plan and/or applicable statewide plans and policies contains provisions related to all these constituents.

These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need for, and benefits of, the reports. The anticipated costs are minimal as the sampling requirements are either visual or only require a grab sample on a daily and/or weekly basis. Specifically, the reports are necessary to demonstrate protection of beneficial uses and compliance with the requirements of the Order and relevant laws (including the Clean Water Act and other authorities

Post-Construction

The reports confirm that the best management practices required under this order are sufficient to protect beneficial uses and water quality objectives. The reports related to accidental discharges ensure that corrective actions, if any, that are necessary to minimize the impact or clean up such discharges are taken as soon as possible. These monitoring and reporting conditions are authorized because the Water Boards have the authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. The burden of preparing these reports, including costs, bears a reasonable relationship to the need

for, and benefits of, the reports. The anticipated costs are minimal as the reporting obligations require only visual monitoring, in-field measurements, and notification reporting.

Standard Conditions

“This Order is subject to modification or revocation ...”

“This Order is not intended and shall not be construed to apply to any activity involving a hydroelectric facility ...”

“This Order is conditioned upon total payment of any fee ...”

These Conditions are standard conditions that “shall be included as conditions of all water quality certification actions.” (Cal. Code of Regs., section 3860.)

General Compliance

“Permitted actions must not cause a violation of any applicable water quality standards ...”

By the plain language of section 401 of the Clean Water Act, permitted actions may not cause a violation of applicable water quality standards. This condition related to compliance with water quality objectives and designated beneficial uses is required pursuant to the Los Angeles Water Board’s Basin Plan and/or other applicable statewide plans and policies. The Basin Plan’s water quality standards consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies. The Antidegradation Policy requires that the quality of existing high-quality water be maintained unless any change will be consistent with the maximum benefit to the people of the state, will not unreasonably affect present or anticipated future beneficial uses of such water, and will not result in water quality less than that prescribed in water quality control plans or policies. The Antidegradation Policy further requires best practicable treatment or control of the discharge necessary to assure that pollution or nuisance will not occur and the highest water quality consistent with maximum benefit to the people of the state will be maintained. Applicable beneficial uses and water quality objectives to protect those uses include the designated beneficial uses (Basin Plan, Chapter 2, Tables 2-1, 2-1a, 2-3, 2-3a, 2-4, and 2-4a, and water quality objectives for chemical constituents (Basin Plan, page 3-29), color (Basin Plan, page 3-32), exotic vegetation (Basin Plan, page 3-32), floating material (Basin Plan, page 3-33), oil and grease (Basin Plan, page 3-34), dissolved oxygen (Basin Plan, page 3-39), pesticides (Basin Plan, page 3-40), pH (Basin Plan, page 3-40), solid, suspended and settleable material (Basin Plan, page 3-44), taste and odor (Basin Plan, page 3-44), temperature (Basin Plan, page 3-44), toxicity (Basin Plan, page 3-45), and turbidity (Basin Plan, page 3-46).

“The Permittee must, at all times, fully comply with engineering plans, specifications, and technical reports...”

Authorization under this Order is granted based on the application information submitted, including engineering plans, specifications, and technical reports. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order.

Administrative

“Signatory requirements for all document submittals...”

Conditions related to signatory requirements are also authorized by Water Code sections 13383 and 13267, which requires any person discharging waste that could affect the quality of waters to provide to the Water Boards, under penalty of perjury, any technical or monitoring program reports as required by the Water Boards. The signatory requirements are consistent with 40 C.F.R. section 122.22.

“The Permittee shall grant Los Angeles Water Board staff ...”

Conditions related to site access requirements are authorized pursuant to the Water Boards' authority to investigate the quality of any waters of the state within its region under Water Code sections 13383 and 13267. Water Code section 13267(c) provides that “the regional board may inspect the facilities of any person to ascertain whether the purposes of this division are being met and waste discharge requirements are being complied with.”

“A copy of this Order shall be provided to any consultants, contractors, and subcontractors ...”

“A copy of this Order must be available at the Project site(s) during construction...”

These conditions require site personnel (agents of the applicant) and agencies to be familiar with the content of the Order and mandate availability of the document at the project site. These conditions are required to assure that any authorized discharge will comply with the terms and conditions of the Order and is inherently tied to the signature requirements required by Water Code section 13267.

“Lake or Streambed Alteration Agreement”

This condition is required pursuant to California Code of Regulations section 3856(e), which requires that copies be provided to the Water Boards of “any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included.”

Best Management Practices

All the conditions related to best management practices are consistent with the Water Board's authority to establish, “[w]ater quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area” pursuant to Water Code section 13241(c). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The activities authorized under this Order have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263. As required by Water Code section 13369, all Water Quality Control Plans incentivize the use of best management practices to prevent prohibited discharges into waters of the state.

Dewatering and/or Stream Diversion

These conditions are required to assure that 1) the discharge shall not adversely affect the beneficial uses of the receiving water or cause a condition of nuisance; 2) the discharge shall comply with all applicable water quality objectives; and 3) treatment and control of the discharge shall be implemented to assure that pollution and nuisance will not occur and the highest water quality is maintained. Accordingly, these conditions require implementation of best practicable treatments and controls to prevent pollution and nuisance, and to maintain water quality. If surface waters or ponded waters are not appropriately diverted from areas undergoing grading, construction, excavation, and/or vegetation removal, the waters will be susceptible to erosion and increased sediment loads, contamination and pollution from construction equipment, temperature fluctuations, etc. Dewatered/ diverted areas must also be stabilized prior to a rainfall event to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Dewatering and stream diversions have the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Site Management

This condition is necessary to prevent violation of state discharge prohibitions that protect water quality objectives. For instance, fuels and lubricants associated with the use of mechanized equipment have the potential to result in toxic discharges to waters of the state in violation of water quality standards, including the floating material and toxicity and floating material water quality objectives (Basin Plan, pages 3-33 & 3-45). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Failure to appropriately manage site conditions has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, Antidegradation Policy and Water Code section 13263.

Hazardous Materials

These conditions are required pursuant to the Los Angeles Basin Plan (toxicity objective, page 3-40), and the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (SIP), which prohibit the discharge of substances in concentrations toxic to human, plant, animal, or aquatic life. Toxic compounds can impair the beneficial uses of cold freshwater habitat, estuarine habitat, marine habitat, preservation of rare and endangered species, fish migration, fish spawning, warm freshwater habitat, and wildlife habitat. Conditions related to toxic and hazardous materials are necessary to assure that discharges comply with any water quality objectives adopted or approved under sections 13170 or 13245 of the Water Code.

Conditions related to concrete/cement are required pursuant to the Los Angeles Basin Plan, which require discharges to waters do not adversely raise or lower pH levels (Basin Plan, page 3-40). Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. The release of hazardous materials has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the

Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Sediment Control and Stabilization/Erosion Control

Conditions related to erosion and sediment control design requirements are required to sustain fluvial geomorphic equilibrium. Improperly designed and installed BMPs result in excess sediment, which impairs surface waters, adversely affect beneficial uses, and results in exceedance of water quality objectives.

Conditions on projects that result in a hydromodification to a water of the state are necessary to assure that the discharge from the proposed project will comply with water quality objectives established for surface waters. Hydromodification is a general term that encompasses effects of projects on the natural hydrologic, geochemical, and physical functions of streams and wetlands that maintain or enhance water quality. Improper project design and installation of any project that results in a hydromodification to a water of the state may trigger bank failure and channel incision which results in excess sediment impacts to downstream beneficial uses. Water Code section 13264 prohibits any discharge that is not specifically authorized in this Order. Erosion has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

Wildlife and Special Status Species

Pursuant to the California Endangered Species Act (Fish & Wildlife Code, sections 2050 et seq.) and federal Endangered Species Act (16 U.S.C. sections 1531 et seq.), the Order does not authorize any act which results in the taking of a threatened, endangered, or candidate species. In the event a Permittee requires authorization from the state or federal authorities, California Code of Regulations, title 23, section 3856(e), requires that copies be provided to the Los Angeles Water Board of "any final and signed federal, state, and local licenses, permits, and agreements (or copies of the draft documents, if not finalized) that will be required for any construction, operation, maintenance, or other actions associated with the activity. If no final or draft document is available, a list of all remaining agency regulatory approvals being sought shall be included."

Stormwater

Conditions related to stormwater management are required to comply with the Los Angeles Region's Basin Plan and the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order No. 20090009-DWQ; NPDES No. CAS000002 as amended by Order No. 2010-0014-DWQ, Order No. 2012-0006-DWQ, and any amendments thereto) (General Construction Permit). Post-rain erosion and sedimentation problems can contribute to significant degradation of the waters of the state; therefore, it is necessary to take corrective action to eliminate such discharges to avoid or minimize such degradation. Implementation of control measures and best management practices (BMPs) described in the condition will assure compliance with water quality objectives including floating material, temperature, suspended and settleable material, and turbidity. (Basin Plan, pages 3-33, 3-44, 3-44, 3-46) Water Code section 13264 prohibits any discharge that is not specifically

authorized in this Order. Stormwater has the potential to result in a discharge that exceeds water quality objectives, which is prohibited by the Clean Water Act, the Antidegradation Policy, the Los Angeles Basin Plan, the ISWEBE Plan, the Plan for California's NPS Control Program, the Policy for the Implementation and Enforcement of the NPS Control Program, the Dredge or Fill Procedures and Water Code section 13263.

On-site Mitigation for Temporary Impacts

Conditions in this section related to restoration and/or mitigation of temporary impacts are required by the Dredge or Fill Procedures, which requires "in all cases where temporary impacts are proposed, a draft restoration plan that outlines design, implementation, assessment, and maintenance for restoring areas of temporary impacts to pre-project conditions." (Dredge or Fill Procedures section IV. A.2(d) & B.4.)

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Water Code section 13263 (discharges must implement water quality control plans and water quality objectives)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.10 (a) (no discharge permitted if there is a practicable alternative with less impacts)
- 40 CFR 230.10 (b) (discharges may not cause or contribute to violations of water quality standards)
- 40 CFR 230.10 (c) (discharges may not cause degradation)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

- Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)

Compensatory Mitigation for Permanent Impacts

Conditions related to mitigation requirements are required by the Dredged or Fill Procedures, section IV.A.2.b. In addition, section IV.B.1.a of the Procedures require that the Water Boards will approve a project only after it has been determined that a sequence of actions has been taken to first avoid, then to minimize, and lastly compensate for adverse impacts that cannot be practicably avoided or minimized. (See also State Supplemental Guidelines, section 230.10, restrictions on discharge & Cal. Code of Regs., section 3856(h) (requiring submittal of proposed mitigation and description of steps taken to avoid, minimize, or compensate).) Accordingly, compensatory mitigation may be required for projects that would result in permanent impacts. Conditions regarding compensatory mitigation are necessary to ensure compliance with state and federal anti-degradation policies. Compensatory mitigation conditions are consistent with Executive Order W-59-93 commonly referred to as California's "no net loss" policy for wetlands. Compensatory mitigation requirements are also authorized by Water Code, section 13263, which requires the imposition of requirements that implement water quality control plans, takes into consideration the beneficial uses to be protected, and the need to prevent nuisance.

Additional authorities applying to this condition include:

- Clean Water Act Section 401 (a discharge shall comply with water quality standards, which are established in Water Quality Control Plans)
- California Code of Regulations, Title 23, section 3859 (conditions shall be added to ensure compliance with water quality standards and other appropriate requirements)
- 40 CFR 230.12 (conditions shall be included to minimize adverse effects to aquatic ecosystems)
- 40 CFR 230.70 (minimize effects of discharge through various actions)
- 40 CFR 230.71 (minimize effects of discharge through treatment of or limitations on the material)
- 40 CFR 230.72 (effects of discharge may be controlled by containment areas and other best management practices)
- 40 CFR 230.73 (minimize effects of discharged by controlling dispersion)
- 40 CFR 230.74 (minimize effects through use of appropriate equipment and techniques)
- 40 CFR 230.75 (minimize adverse effects on plant and animal populations)
- 40 CFR 230.76 (minimize adverse effects on human use, including timing of discharge)
- 40 CFR 230.77 (control runoff, maintain desired water quality, consider ecological changes)
- 40 CFR 230.91 (take all appropriate and practicable steps to avoid and minimize adverse impacts to waters of the United States)
- 40 CFR Part 230, Subpart J (sections 230.92 *et seq.*) (compensatory mitigation for losses of aquatic resources)
- The National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) (require identifying alternatives to avoid and minimize effects (40 CFR 1500.2 and California Code of Regulations, Title 144, section 15021))
- Dredge or Fill Procedures section IV. A.2(c) (water quality monitoring plan to monitor compliance with water quality objectives)

- Dredge or Fill Procedures section IV. A.2(d) (restoration plan for temporary impacts).
- Dredge or Fill Procedures, Subpart H (actions to minimize adverse effects)

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ATTACHMENT NO. 8
2021 MAINTENANCE METHODOLOGY PILOT PROJECTS

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2021 MAINTENANCE METHODOLOGY PILOT PROJECT

Soft-Bottom Channel Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)



Prepared by:

**Los Angeles County Flood Control District
County of Los Angeles Public Works
900 S. Fremont Avenue, Alhambra, CA 91803**

July 2022

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2021 MAINTENANCE METHODOLOGY PILOT PROJECT

At

Reach 20 (Webber Channel Private Bridge) and Reach 21 (Webber Channel Main Inlet)

1.0 INTRODUCTION

Los Angeles County Flood Control District (LACFCD) is responsible for providing flood protection to County residents through the maintenance of its network of flood control channels. On an annual basis, channel capacity is maintained by clearing vegetation and debris within the flood control channels to reduce the risk of loss of life and/or property damages from flooding during large storm events. All soft-bottom channel (SBC) clearing activities are typically started after the bird-nesting season from September 1 through March 15 and are performed in accordance with all applicable environmental/regulatory permits. If work is needed during the bird nesting season, a qualified biologist conducts nesting bird surveys prior to the start of any maintenance activities.

During the 2017 SBC clearing, in cooperation with stakeholders and regulatory agencies, LACFCD volunteered to conduct a Maintenance Methodology Pilot Project (MMPP) at Soft-Bottom Channel (SBC) Reaches 20 (Webber Channel Private Bridge) and 21 (Webber Channel Main Inlet). Past vegetation maintenance methodology for these two SBC reaches were altered as part of the MMPP. The intent was to investigate whether an alternative vegetation maintenance method can be used that will minimize impact on channel vegetation and associated habitat while maintaining the existing channel capacity. Leaving additional vegetation within these SBC reaches requires further approval from all regulatory agencies, especially the U. S. Army Corps of Engineers (USACE).

The MMPP for SBC Reaches 20 and 21 is on its fifth year. In this report, LACFCD will go over the 2021 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).

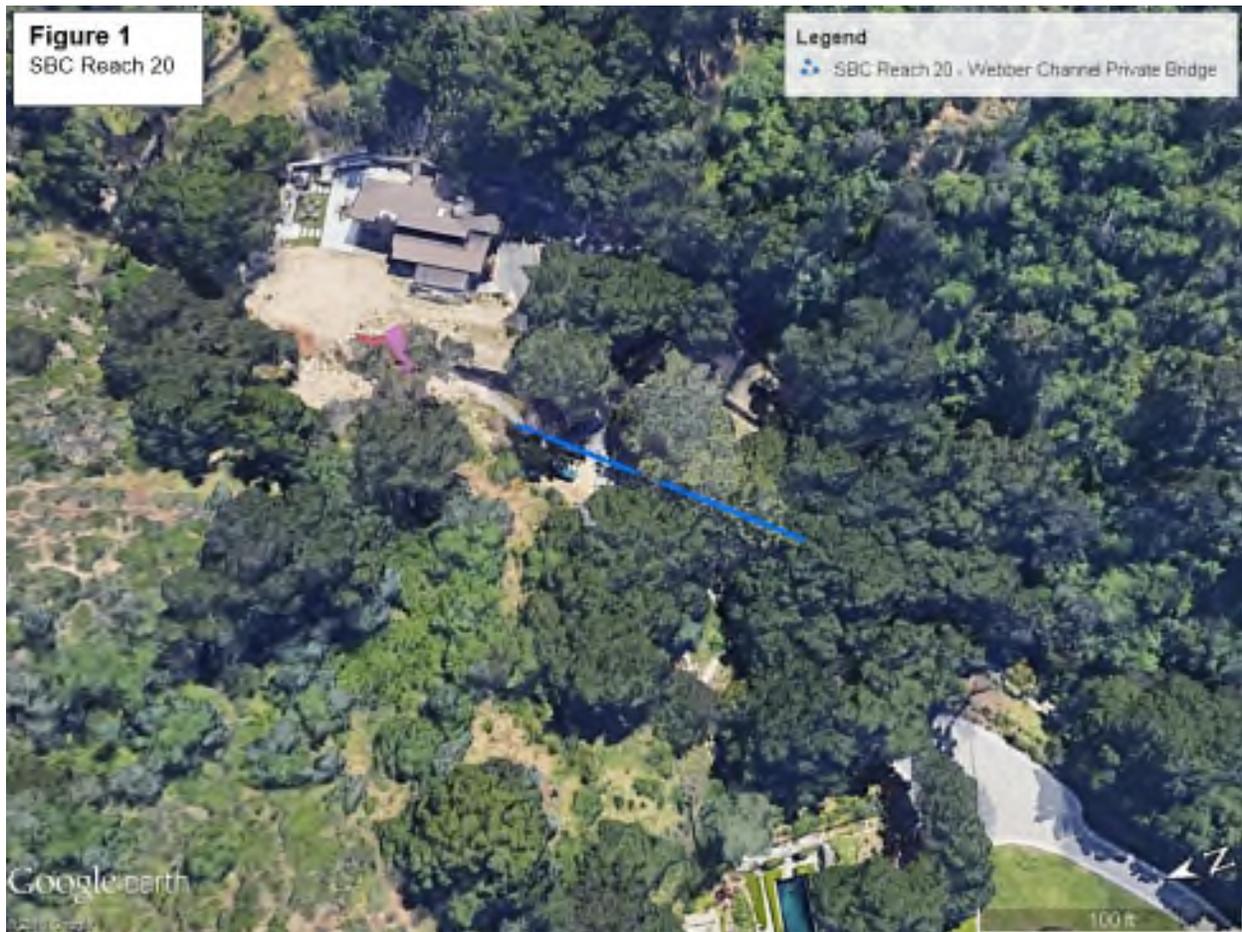


Figure 1: SBC Reach 20 – Webber Channel Private Bridge

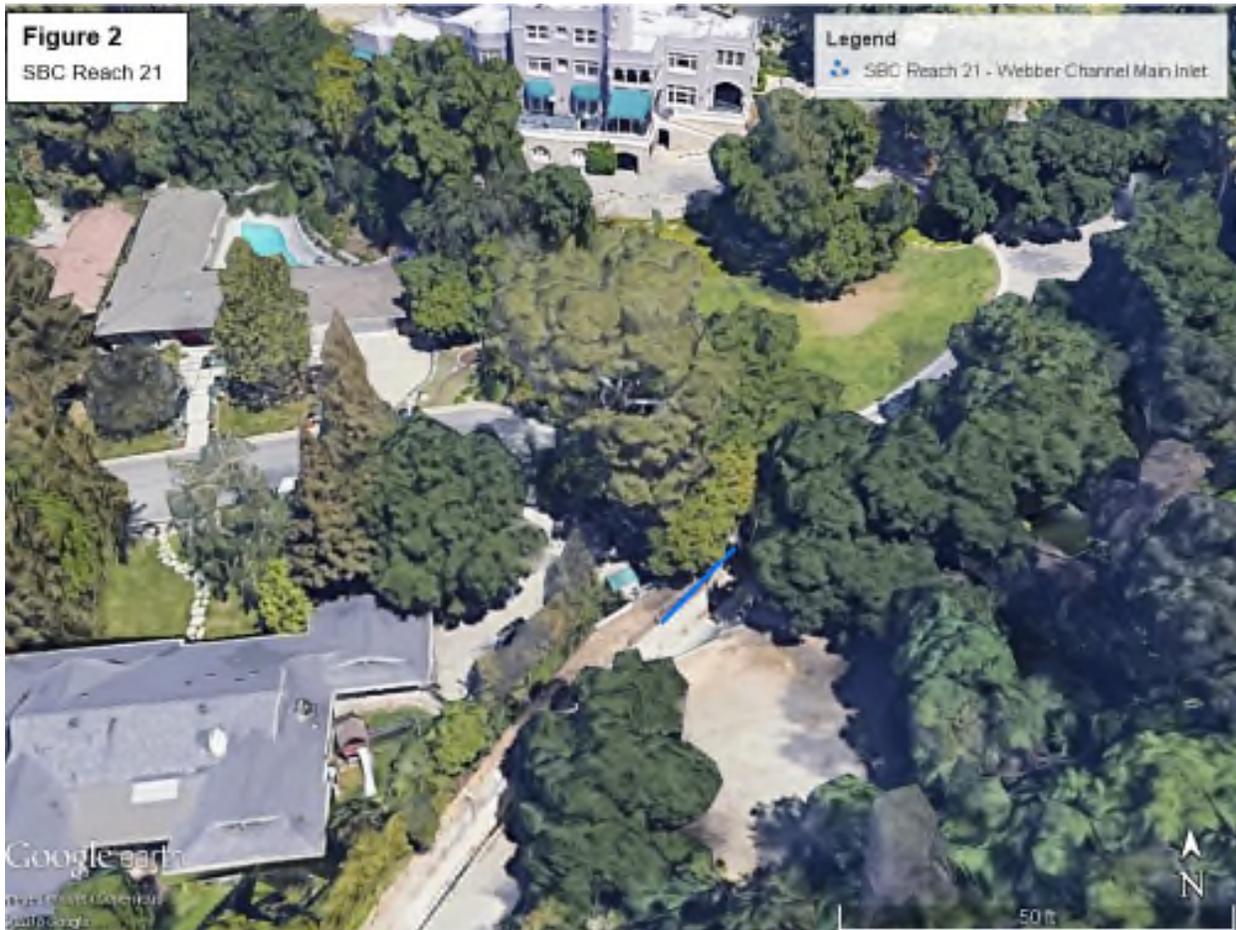


Figure 2: SBC Reach 21 - Webber Channel Main Inlet

2.0 VEGETATION MAINTENANCE

2.1 2021 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 28, 2022, 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 2021 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 2021 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 16, 2021. Standard data were recorded and photos were taken from previously established photo stations. Attachment C includes the associated photos from the 2021-22 SBC maintenance-clearing season, while Attachment D includes the 2021-22 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 December 14, 2018. 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 COMPARISON

LACFCD's initial observation of the 2020-21 MMPP is as follows:

5.1 Maintenance Observation

During the 2020 MMPP for SBC Reaches 20 and 21, by implementing hand clearing and allowing more vegetation to grow within both reaches, we observed the following:

- 1) There was no detectable change in the maintenance duration for both Reaches 20 and 21.
- 2) It was observed that there was a slight overall increase in maintenance cost.
- 3) There was no change in the number of staff required to perform the maintenance.
- 4) With hand clearing maintenance methodology, there was less impact on the earthen bottom of the reaches.

6.0 NEXT STEP

LACFCD will continue to implement the MMPP for Reaches 20 and 21 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)

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**EQUIPMENT USED IN MMPP
Tools Used For Clearing Reaches 20 and 21**



Handheld Tools

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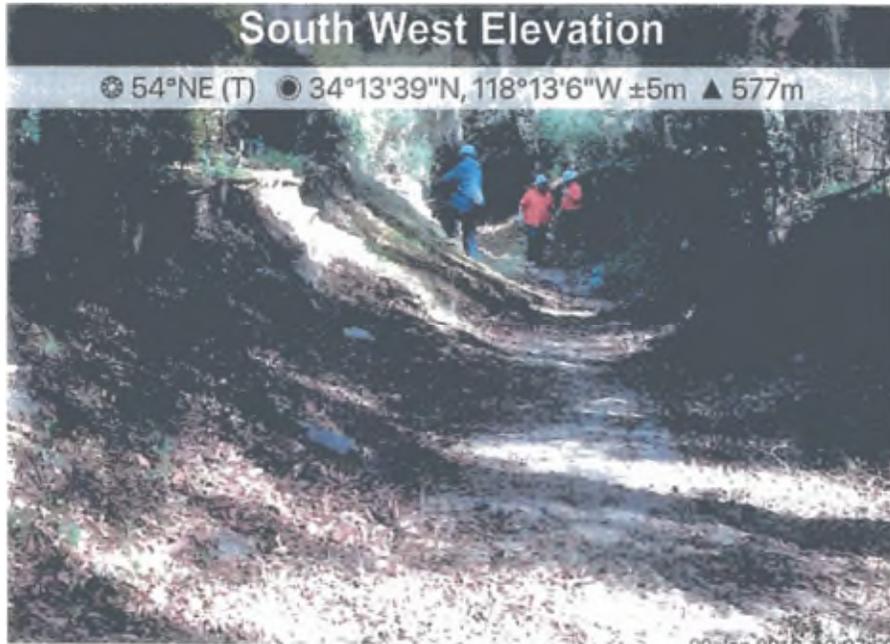
EQUIPMENT USED IN MMPP
Equipment Used For Clearing Reaches 20 and 21



Stakebed/Dump Truck

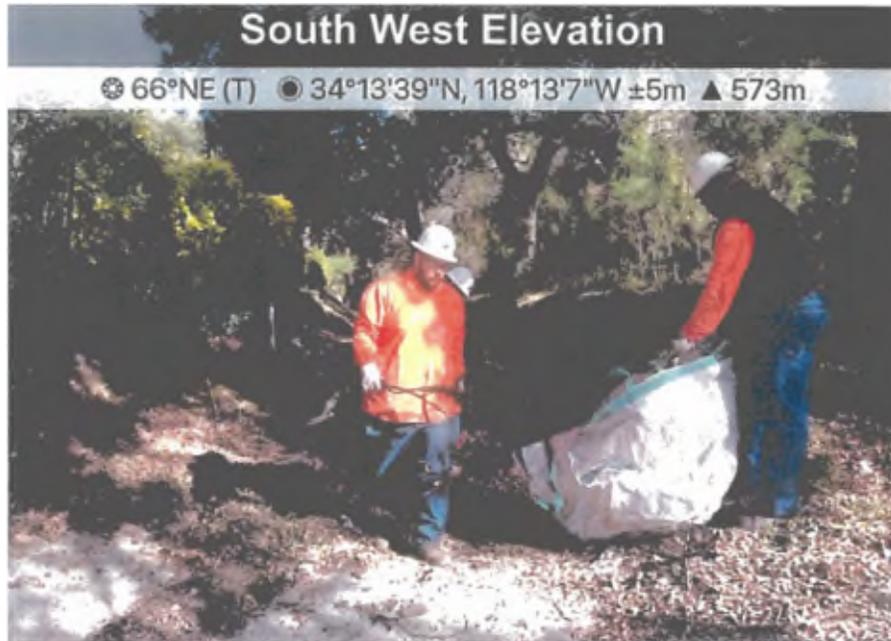
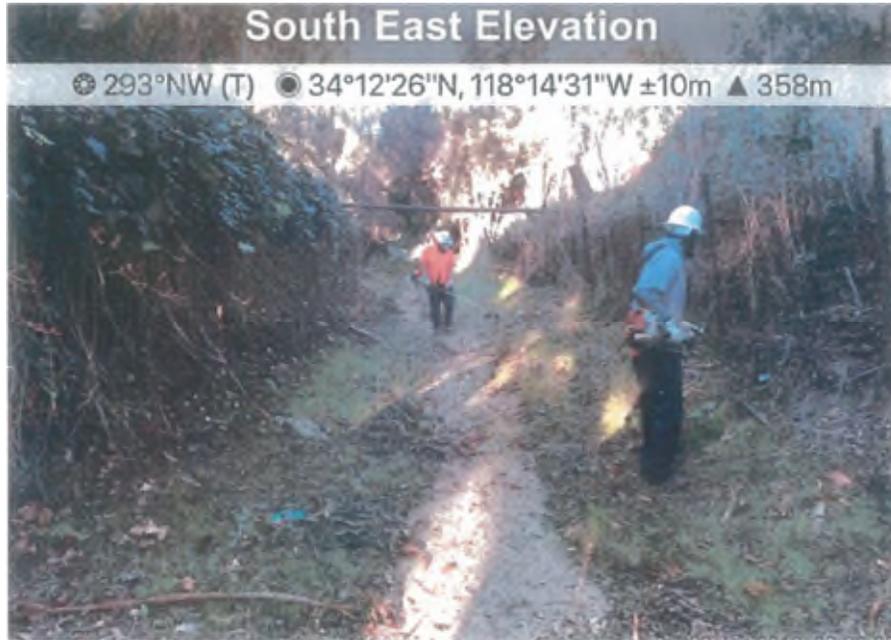
ATTACHMENT B
DURING MMPP CLEARING PHOTOS
SBC REACHES 20 AND 21

**DURING MMPP CLEARING PHOTOS
SBC Reach 20 - Webber Channel Private Bridge**



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**DURING MMPP CLEARING PHOTOS
SBC Reach 21 - Webber Channel Main Inlet**



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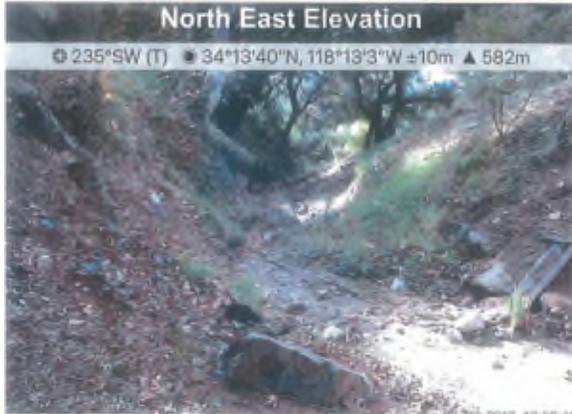
ATTACHMENT C

PRE- AND POST-CLEARING PHOTOS
SBC REACHES 20 AND 21

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PRE- AND POST-CLEARING PHOTOS SBC Reach 20 - Webber Channel Private Bridge

Before Photos 1/26/2022



After Photos 1/26/2022



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PRE- AND POST-CLEARING PHOTOS SBC Reach 21- Webber Channel Main Inlet

Before Photos 1/26/2022



After Photos 1/26/2022



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ATTACHMENT D

PRE- AND POST-CLEARING FORMS

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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):

Clearing shall not exceed 0.13 acre (115 FT linear by 50 FT wide).

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 12, 13; sparse Medial Vegetation in area maintained; Castor Bean present upstream of bridge.

Name of Biological Monitor: Steve Morin 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.

Photos 5, 6; oak woodland and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Castor Bean present at upper end of reach above bridge.

Name of Biological Monitor: Steve Morin Date: December 14, 2018

Revised 2016

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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 clearing only; impacts shall not exceed 0.03 acre.

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 10, 11; Primarily unvegetated in area maintained; cholla not a problem.

Name of Biological Monitor: Steve Morin 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.

Photos 3, 4; Oak woodland and ornamental vegetation.

Compliance with Permit Conditions: Full Partial

If partial compliance is apparent, describe circumstances:

Problems or Recommendations (if more space is needed continue on the back of this form):

Name of Biological Monitor: Steve Morin Date: December 14, 2018

Revised 2016

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2021 MAINTENANCE METHODOLOGY PILOT PROJECT FINAL REPORT AND RECOMMENDATIONS

Soft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet) and Reach 19 (Pickens Canyon)

Prepared by:

**Los Angeles County Flood Control District
County of Los Angeles Public Works
900 S. Fremont Avenue, Alhambra, CA 91803**



January 2023

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5.0 NEXT STEP

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Figure 1: Sampling Location for SBC Reach 7

Figure 2: Sampling Location for SBC Reach 19

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2021 MAINTENANCE METHODOLOGY PILOT PROJECT

At

Soft-Bottom Channel Reach 7 (Bull Creek Main Channel Outlet) and Reach 19 (Pickens Canyon)

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 7 (Bull Creek Main Channel Outlet) and 19 (Pickens Canyon). The intent of the study is to investigate alternative vegetation maintenance methodology which leaves more vegetation and root systems in the channel while maintaining the channel's designed flood flow capacity.

This MMPP was completed last year in the 2020-21 maintenance season. In this final report, LACFCD will discuss its observation of the 5-year MMPP and provide its maintenance recommendation whether to go back to the previous SBC reaches maintenance methodologies or implement the maintenance methodology used for the 5-year MMPP. LACFCD will continue to implement the MMPP for Reaches 7 and 19 until a proper flow capacity analysis is performed and reviewed.

2.0 BACKGROUND

2.1 SBC REACHES

SBC Reach 7 and Reach 19 are in the Los Angeles River (LAR) watershed. Both reaches were originally designed by the USACE. Based on the research of the State and/or Federal list of special status species and previous biological surveys, there were no sensitive species identified in these reaches.

These reaches were chosen for the 5-year pilot study since both facilities had adequate capacity to allow more vegetation.

SBC Reach 7, Bull Creek Main Channel Outlet (MCO) is approximately 9.5 miles, it originates at Bull Creek Retention Basin and discharges to the Sepulveda Dam. (see Figure 1).

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) 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..



Figure 1: SBC Reach 7 – Bull Creek MCO

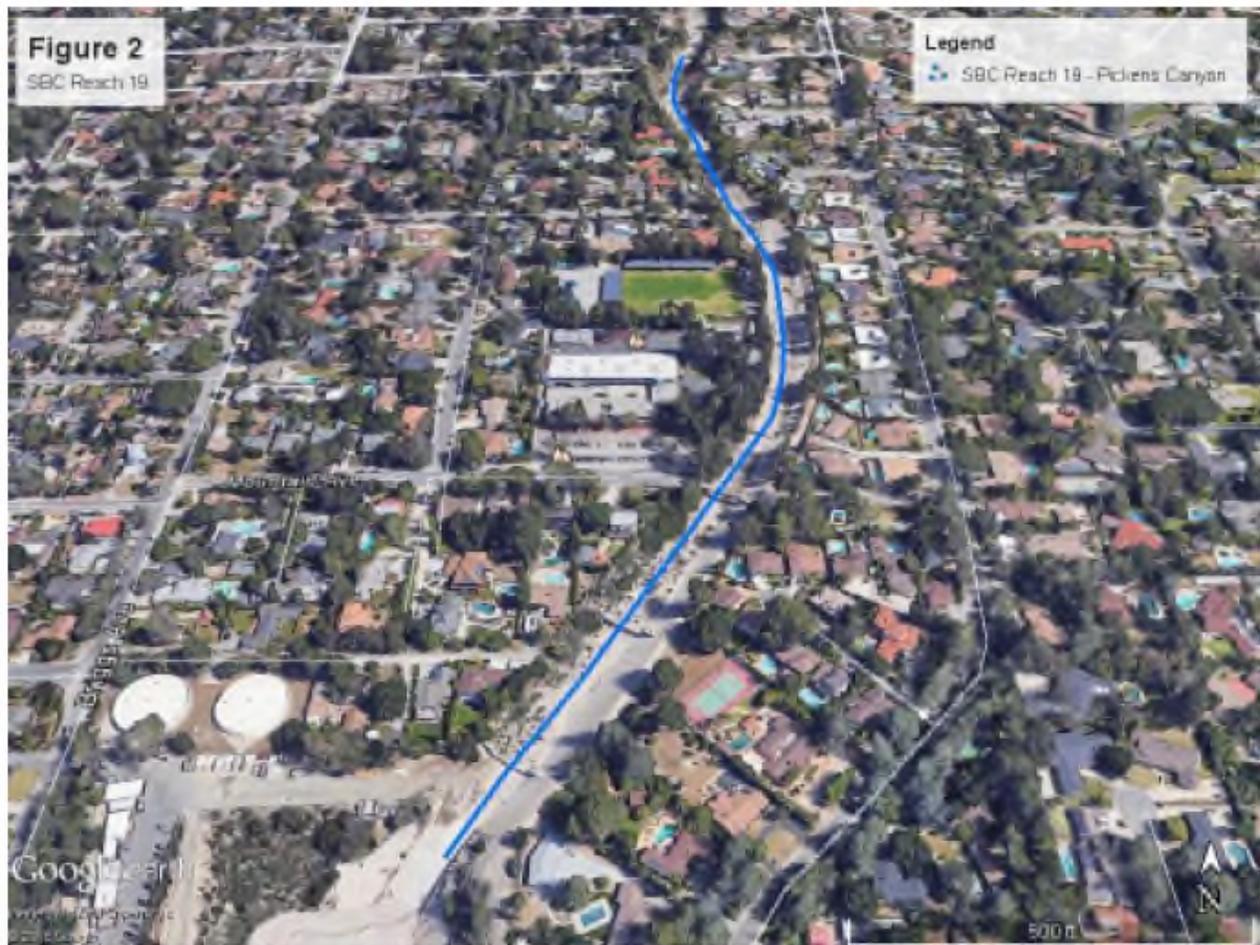


Figure 2: SBC Reach 19 – Pickens Canyon

2.2 VEGETATION MAINTENANCE

2.2.1 PAST VEGETATION MAINTENANCE

In the past, SBC Reach 7 maintenance activities included hand clearing of vegetation and debris along the invert. This was done to ensure unimpeded flow within the reach. The maintenance area is limited to the first 275 feet of natural channel downstream from “Orange Line Busway” to the “foot bridge”. Thus, ensuring that flow does not back up into the concrete channel upstream of Victory Boulevard. This method was utilized during the November 2015 maintenance of SBC Reach 7.

For the maintenance of SBC Reach 19, hand clearing was used to clear vegetation adjacent to or growing out of the crib structures. This clearing method was last used on this reach on October 21, 2015. All cuttings generated from the removal of the invasive vegetation from Reaches 7 and 19 were placed in tarps to ensure seedlings did not fall on the ground to further spread growth.

As part of LACFCD's standard practice for SBC clearing activities at these two non-sensitive channels reaches, a qualified biologist was on site or consulted prior to start of work to ensure proper removal of vegetation. Water Quality (WQ) was monitored in accordance with the Waste Discharge Requirements (WDR), Order No. 22 and Best Management Practices (BMPs) were implemented accordingly per WDR, Order No. 15. All the removed vegetation and incidental sediment were placed in dump trucks and properly transported to an approved off-site disposal/landfill facility.

2.2.2 MMPP VEGETATION MAINTENANCE

Before the implementation of the MMPP, SBC Reach 7 maintenance activities included hand clearing of vegetation and debris along the invert. This method was last utilized during the November 2015 maintenance. During the 2016 to 2020 implementation of the MMPP, the maintenance of this channel was slightly modified. Hand clearing is still being used to clear vegetation and debris along the invert of the channel, but additional willow growth is being allowed in a single line (no more than 1 tree every 10 feet) at the toe of the slope on the right (west) side bank of the channel.

In 2015, SBC Reach 19 maintenance activities included hand clearing of vegetation adjacent to or growing out of the crib structures. During the October 2016 to 2020 implementation of the MMPP, the same maintenance activities were conducted with some minor amendments. For example, more native shrubs were allowed to grow on the invert of the channel except on the crib structures. Additionally, native shrubs were protected by removing non-native and ornamental vegetation.

There was no heavy equipment other than the super ten dump truck was used during the 2016 maintenance for SBC Reaches 7 and 19.

A qualified biologist was on site or consulted prior to mowing and to ensure proper removal of invasive vegetation. WQ was monitored and BMPs were implemented accordingly. Invasive vegetation and sediment were placed in dump trucks and properly transported to an approved disposal/landfill facility.

3.0 PILOT STUDY OBSERVATION

3.1 BIOLOGICAL ASSESSMENT

During the 5-year implementation of the MMPP, it has been observed that SBC reaches 7 and 19 has increased in native dominated vegetation. Proposed modified maintenance methods at SBC Reach 7 and 19 include allowing additional vegetation (i.e. willows and alluvial sage respectively) to grow and spread on the banks and inverts of the reaches. In time, allowing more willows

and alluvial sage in these reaches would provide additional habitat for 2020 Maintenance Methodology Pilot Project riparian species already using this reach including the endangered least Bell's vireo.

Implementation of the MMPP's modified maintenance methods at the two reaches, the biological conditions of the site have improved to a small degree. The alluvial vegetation has successfully been avoided during maintenance and has both persisted and expanded. Most species associated with this vegetation types are slow growing, and five years would represent a short growing period. However, with continuation of this maintenance approach, the native vegetation should continue to growth and become less susceptible to flood damages or other negative environmental influences. This vegetation type is expected to remain somewhat sparse which is consistent with natural conditions.

The shifting of the plant and wildlife composition of these reaches may continue over the course of many years but is eventually expected to stabilize if the pilot study's modified maintenance method was implemented on a permanent basis (provided the new growth does not impact flow and capacity of the reaches).

3.2 MAINTENANCE COST AND DURATION

During the 5-year MMPP for SBC Reaches 7 and 19, there was no detectable change in time or equipment used for the pilot methodology since the vegetation clearance work for these reaches are by hand only. During the methodology comparison, LACFCD has the following general observations and comments:

- 1) There was a slight decrease in the maintenance duration due to less vegetation to remove at both reaches
- 2) There was a slight increase in the maintenance total cost as a result to the implementation of the MMPP's maintenance method for both reaches. The maintenance cost has been increasing due the use of in-house forces instead of contractors, and higher rental equipment, water, and disposal rates

3.3 WATER QUALITY

During the 5-Year MMPP, no Water Quality (WQ) monitoring was performed 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 MMPP maintenance method.

4.0 RECOMMENDATION

LACFCD would like to hold its maintenance recommendation until proper flow capacity analysis can be performed for SBC Reaches 7 and 19. The analysis is

needed to ensure that allowing more vegetation to remain in the reaches will not make the facilities inadequate when it comes to providing flood protection for the surrounding communities in the areas.

5.0 NEXT STEP

LACFCD will continue to implement the MMPP for Reaches 7 and 19 until a proper flow capacity analysis is performed and reviewed. At which time, LACFCD will provide its maintenance recommendation to the Regional Board.

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