

APPENDIX Q -
FEMA CONDITIONAL LETTER OF MAP
REVISION

Camarillo Springs Golf Course

FEMA Conditional Letter of Map Revision (CLOMR)

April 2019

Prepared For:

NUWI Camarillo LLC
1733 Ocean Avenue, Suite 350
Santa Monica, CA 90401
310-394-3379



Prepared By:



Pacific Advanced Civil Engineering, Inc.
17520 Newhope Street, Suite 200
Fountain Valley, CA 92708
714-481-7300



Contact Persons:
Mark E. Krebs, PE
Jenny M. Robinet, PE, CFM
Andrew Ronnau, PE, Ph.D

PACE JN #B306

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 - ii. Steady 10yr, 50yr, 500yr Model (Full Reach)
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 - i. Unsteady 100yr Model (Full Reach)
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Additional Enclosures

HEC-RAS Models

- a. Duplicate Effective
- b. Corrected Effective Existing / Proposed

1 Introduction

The following report documents a Conditional Letter of Map Revision (CLOMR) application for the Camarillo Springs Golf Course project, in Camarillo, CA.

1.1 Project Description

The existing Camarillo Springs Golf Course is located in the City of Camarillo, CA in southeastern Ventura County (*Figure 1*). The project site is south of Ridge View Street, about 1,000 feet east of Conejo Creek. The proposed project improvements will consist of an approximately 32-acre of residential development, revised golf course area, parks, and open space within the current Golf Course property boundary. The project flood protection improvements include elevating 32-acres of development area, and constructing a drainage system for flows developed on the local tributary watershed. The proposed improvements will provide new residential area, create new neighborhood recreation facilities, and remove more than 150 existing residential structures from the effective floodplain.

1.2 Limits of Study and Effective FEMA Flood Hazards

The present study is for the reach of Conejo Creek from approximately 1,300 feet upstream of Howard Road, to just downstream of the Highway 101 Bridge. The downstream study limit corresponds to FEMA effective model cross section number 48073, and the upstream study limit corresponds to FEMA effective model cross section number 54749.

The project property is on FIRM Panels 06111C0934E and 06111C0953E, each with an effective date of January 20, 2010. The floodplain boundaries in the area have since been revised by two Letters of Map Revision (LOMR). The effective floodplain boundary data in digital format (DFIRM) was obtained and used to create the effective mapping of the area shown in *Figure 2*.

The flood hazard from Conejo Creek is shown mapped as Zone AE with floodway. Complete FIRM panels showing the published FIRM mapping are included in *Appendix A*, but these do not include the Letters of Map Change approved after the published date of the panels.

2 CLOMR HEC-RAS Modeling

2.1 HEC-RAS Models

A complete set of HEC-RAS models are presented for the CLOMR application, including duplicate effective, corrected effective, and proposed conditions models. The corrected effective, and proposed conditions models are based on the effective models, which were obtained as part of a FEMA backup data library request.

2.1.1 Effective FEMA Hydraulic Models

Downstream Portion of Study Reach, XS 48073 to XS 51231

The effective mapping for the downstream portion of the study reach, from XS 48073 to XS 51231, was developed with a steady state HEC-RAS model using VCRat peak flowrates from a VCWPD Watershed Hydrology Study of Calleguas Creek, which includes Conejo Creek. This model was originally used to develop 10-yr, 50-yr, 100-yr and 500-yr water surface elevations for the entire study reach, however the results for the upstream portion of the study reach have been superseded by the models from a 2015 LOMR.

Upstream Portion of Study Reach, XS 51491 to XS 54749

The effective modelling for the upstream portion of the study reach consists of an unsteady HEC-RAS model for the 100-yr event mapping and floodway analysis, and a steady state HEC-RAS model for the 500-yr event mapping. These models are part of a Letter of Map Revision (Case No. 10-09-2501P), approved by FEMA in 2011, and reissued in 2015 as part of Case No. 15-09-1145P.

The BFE information from the models were verified against the BFEs listed in the Ventura County FIS study and on the effective FIRM panels.

2.1.2 Corrected Effective / Existing Condition Model

A single corrected effective HEC-RAS geometry for the entire study reach was created using the stream centerline, cross section numbering, and cross section alignments from the two effective models. The cross sections were revised using updated topographic data. The roughness values, boundary conditions, and flowrates are unchanged.

The 100-yr event and the floodway were analyzed using an unsteady model, and the 500-yr event was analyzed using a steady state model. Both models use the same geometry. The hydrographs for unsteady model and the flowrates for the steady state modelling are exactly the same as in the effective models. The two corrected effective models are provided in the *Additional Enclosures* folder.

2.1.3 Proposed Condition Model

The proposed conditions HEC-RAS geometry model was created from the corrected effective geometry by modifying certain cross sections to reflect the proposed grading. As with the corrected effective modelling, the 100-yr event was analyzed using an unsteady model, and the 500-yr event was analyzed using a steady state model. A Topographic Workmap is shown on *Figure 3*. The two proposed condition models are provided in the *Additional Enclosures* folder.

2.2 HEC-RAS Model Input

The input parameters for the model follow the guidelines of the HEC-RAS Modeling User's Manual (v5.0) and the HEC-RAS Supplemental User's Manual (v5.0.4). The input variables were adjusted to match the conditions of the project area.

2.2.1 Topographic Data

The topographic data was provided by the County of Ventura and covers the entire reach of Conejo Creek from the creek's confluence with Calleguas Creek upstream to near the Upland Road Drain. The digital LiDAR topographic mapping data was flown by the County of Ventura in July 2013, and is high resolution LiDAR with a 10-ft x 10-ft grid resolution. The vertical accuracy was 9.25 cm. The digital topographic data, used to generate a TIF (Tagged Image File) which stores raster information, was applied as the terrain for computations in the HEC-RAS Model. Two terrains, existing condition (unchanged) and proposed condition (with proposed grading) were used in the models. The proposed grading was supplemented with local topography flown in May 2018 for grading and contour development.

2.2.2 Model Extents

The model of Conejo Creek extends from approximately 4,250 ft upstream of Highway 101 downstream to a point just upstream of the junction between Conejo Creek and Calleguas Creek. Approximately 18,800 ft of Conejo Creek is modelled. The study limits for the present CLOMR are from just downstream of the Highway 101 Bridge to a point approximately 1,300 feet upstream of the Howard Road crossing.

2.2.3 Manning's Roughness

The roughness values in the corrected effective and proposed conditions models are the same as in the effective models.

2.2.4 Boundary Conditions

The downstream boundary condition in the corrected effective and proposed conditions models is the same as in the effective model from the downstream portion of the project reach.

The upstream boundary condition in the unsteady corrected effective and proposed conditions models, for 100yr event analysis, is the same inflow hydrograph in the unsteady effective model from the upstream portion of the project reach.

No upstream boundary condition is necessary for the steady state corrected effective and proposed conditions models because the subcritical flow regime is used.

2.2.5 Flowrates/Inflow Hydrographs

The flowrates for the steady state modelling are the same as in the corrected effective model. The hydrograph inputs for the unsteady 100-yr modeling are the same as in the corrected effective model, except for one of the lateral inflow hydrographs which comes from the Camarillo Springs Creek watershed at XS 53187. That lateral inflow hydrograph is reduced, in proposed conditions, to reflect the proposed conditions interior lake storage by scaling the ordinates so that the new volume has been reduced by 90 ac-ft.

3 HEC-RAS Model Results

3.1 Conejo Creek Model Results, Base Flood (100-yr) Event

The water surface elevation results from the models are shown in *Table 3-1*. Included in the table are the effective base flood elevations (BFE), the calculated water surface elevations for the duplicate effective, corrected effective/existing, and proposed models, and proposed new base flood elevations for the study reach. The water surface elevation results from the models show that there are minimal changes to flow depth on the main property area, and decreases observed near the south area where floodplain overbank storage is increased.

Table 3-1 Calculated Water Surface Elevations

Section	Effective BFE	Duplicate Effective	Corrected Effective / Existing	Proposed	New BFE
54800	Highway 101				
54749	XS Q = 118.0	118.0	117.2	117.8	XS Q = 117.8
54668		118.1	117.5	117.9	
54330		118.0	117.4	117.3	
53914		118.0	117.4	117.8	
53451		118.0	117.4	117.7	
53187		118.0	117.3	117.5	
53057	XS P = 118.0	118.0	117.3	117.4	XS Q = 117.4
53000	Ridge View Street				
52939	XS O = 117.9	117.9	117.3	117.3	XS O = 117.3
52809		117.5	117.1	117.2	
52620	XS N = 117.1	117.2	116.8	116.8	XS N = 116.8
52377		116.7	116.1	116.2	
52059		116.1	115.3	115.4	
51699		113.9	113.5	113.5	
51593		113.5	112.6	112.6	
51491	XS M = 113.6	113.6	112.9	113.0	XS M = 113.0
51231		113.1	112.5	112.5	
50917		112.5	111.8	111.7	
50597		112.0	111.3	111.2	
50305		111.2	110.7	110.1	
50231		111.0	110.6	109.9	
50143	XS L = 110.8	110.8	110.6	109.7	XS L = 109.7
49815		110.5	110.2	109.3	
49746		110.0	110.1	109.4	
49667		110.0	110.0	109.4	
49405		109.9	109.7	109.4	
49043		109.7	109.4	109.3	
48736		109.6	109.3	109.3	
48408	XS K = 109.3	109.3	109.1	109.2	XS K = 109.2
48258		109.3	109.0	109.0	
48073		109.2	108.9	108.9	

The HEC-RAS results show that FEMA base flood elevations do not increase. Revised floodplain boundaries are shown on the Floodplain Comparison Map, *Figure 4*. New base flood elevations are provided in *Table 3-1* and on the Annotated FIRM in *Figure 5*.

3.2 Conejo Creek Model Results, Floodway

The floodway for Conejo Creek was determined using the unsteady 100-yr corrected effective model. Floodway results are provided in *Table 3-2*. Both the effective floodway and the revised floodway are shown on the Floodplain Comparison Map, *Figure 4*, and on the Annotated FIRM, *Figure 8*.

Table 3-2 Floodway Elevation Results

Section	Corrected Effective / Existing	Floodway	Difference
54800	Highway 101		
54749	117.2	118.1	0.3
54668	117.5	118.5	1.0
54330	117.4	118.4	1.0
53914	117.4	118.2	0.8
53451	117.4	118.0	0.6
53187	117.3	117.9	0.6
53057	117.3	117.7	0.4
53000	Ridge View Street		
52939	117.3	117.7	0.4
52809	117.1	117.5	0.4
52620	116.7	117.1	0.4
52377	116.1	116.6	0.5
52059	115.3	115.7	0.4
51699	113.5	114.1	0.6
51593	112.6	112.8	0.2
51491	112.9	113.3	0.4
51231	112.5	112.8	0.3
50917	111.8	112.1	0.3
50597	111.3	111.6	0.3
50305	110.7	111.0	0.3
50231	110.6	110.9	0.3
50143	110.6	110.8	0.2
49815	110.2	110.5	0.3
49746	110.1	110.4	0.3
49667	110.0	110.3	0.3
49405	109.7	110.1	0.4
49043	109.4	109.8	0.4
48736	109.3	109.7	0.4
48408	109.1	109.5	0.4
48258	109.0	109.4	0.4
48073	108.9	109.3	0.4

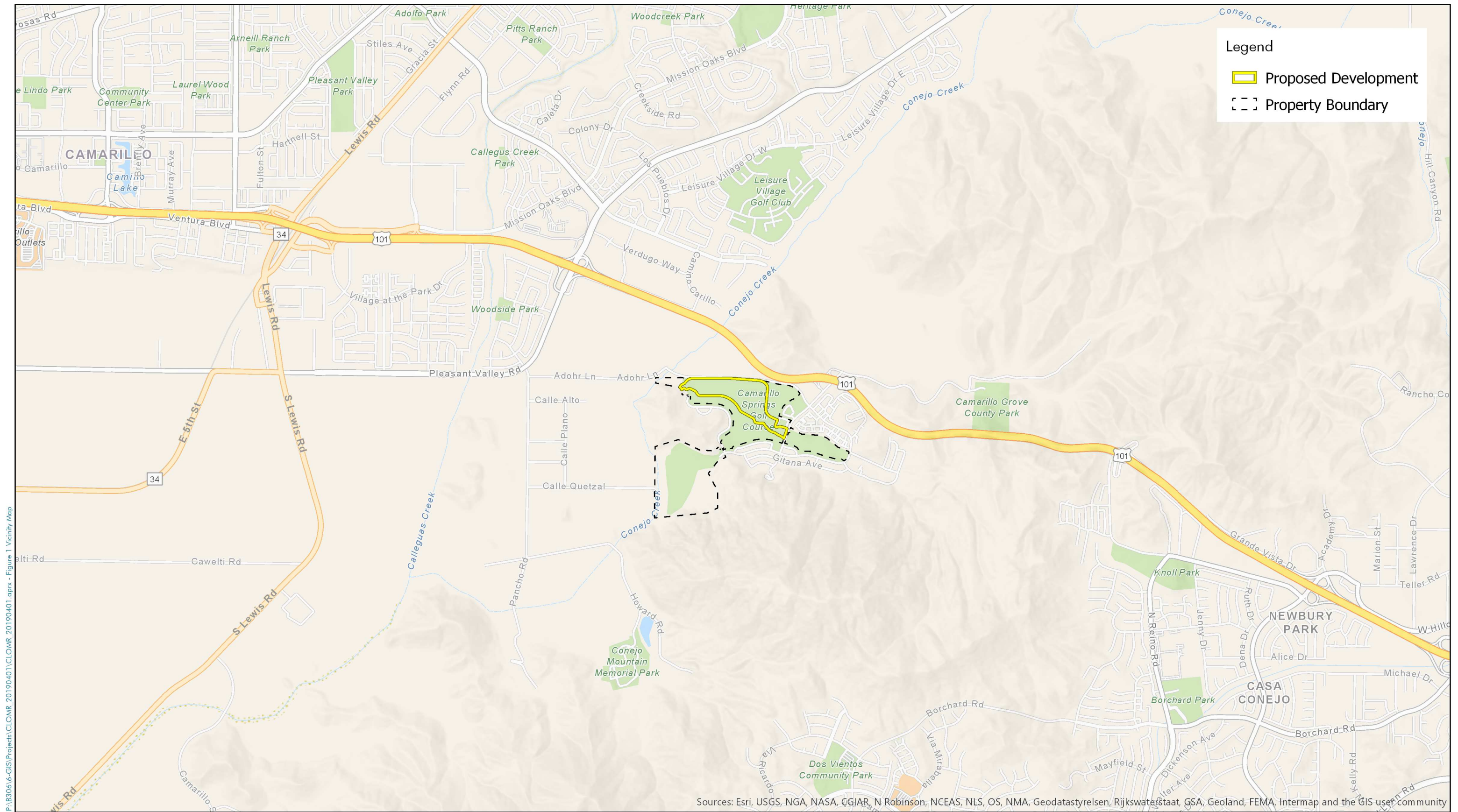
4 Floodplain Mapping and CLOMR Application FORMS

The proposed revised Conejo Creek floodplain and floodway boundaries are shown on the Floodplain Comparison Map, *Figure 4*.

Note that ponded water from Calleguas Creek to the west abuts the Conejo Creek Zone AE floodplain, and is shown on the FIRM panels as a broad area of Zone AO. The limits of the Conejo Creek Zone AE on the effective mapping are shown on the overbank where the Conejo Creek flow is one foot deep, thus matching the Zone AO area between Conejo Creek and Calleguas Creek at one foot of depth. This Zone AO was retained on the proposed revised floodplain mapping.

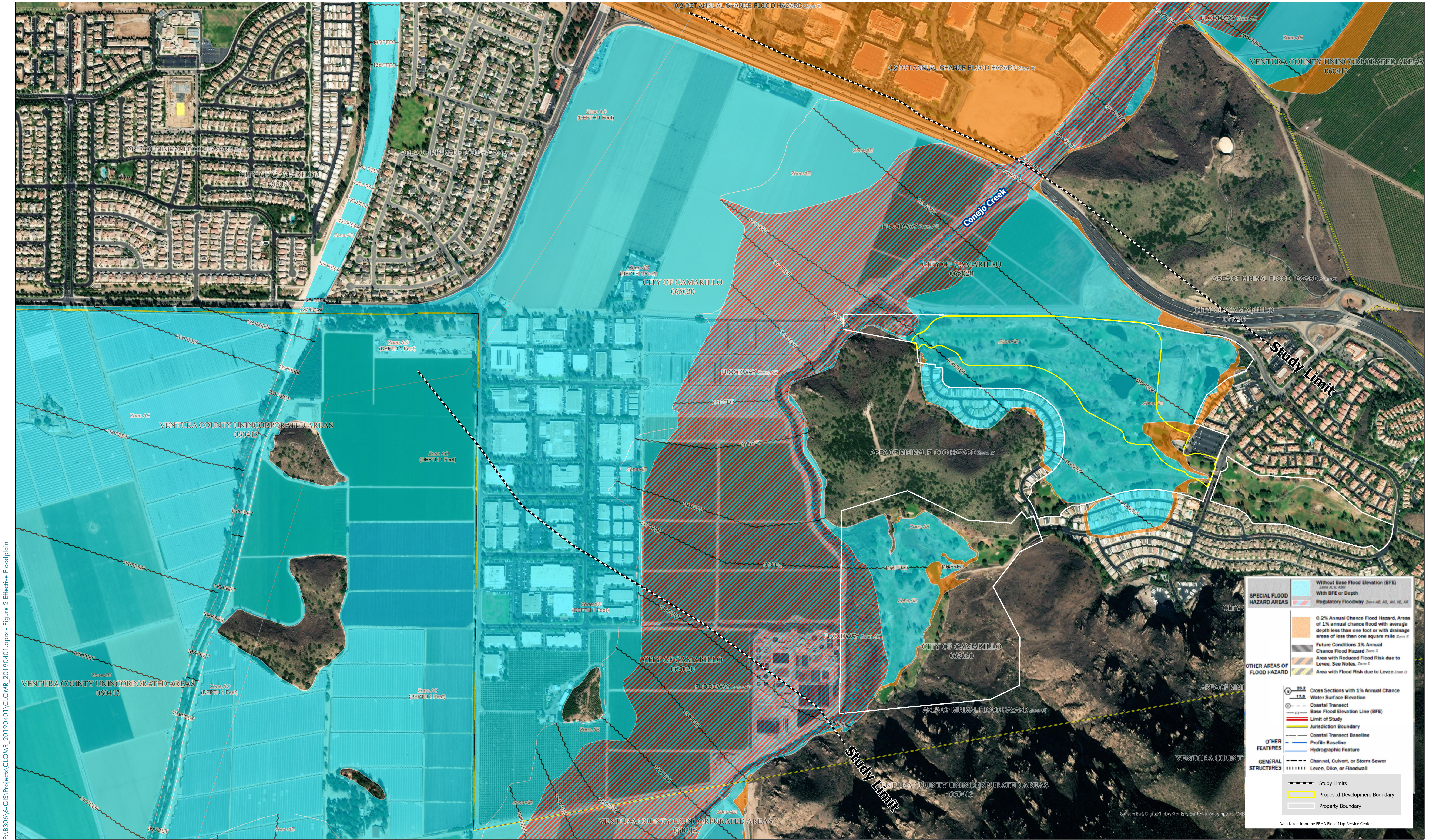
The proposed revised floodplain mapping is shown on the Annotated FIRM, *Figure 5*.

A complete set of FEMA MT forms are included in *Appendix A*.

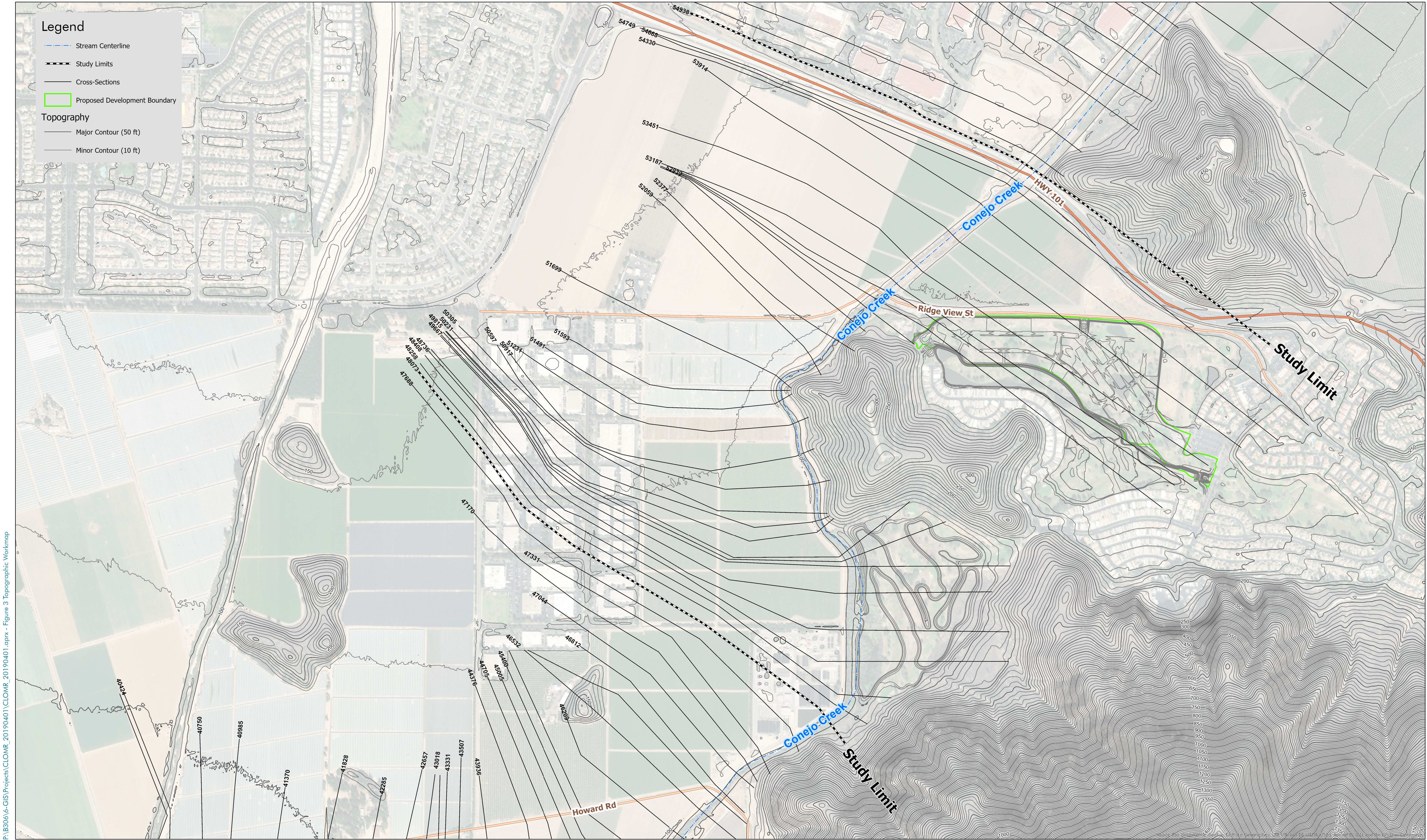


CAMARILLO SPRINGS

VICINITY MAP



P:\B306\6-GIS\Projects\CLOWR_2019\0401\CLOWR_2019\0401.aprx - Figure 2 Effective Floodplain



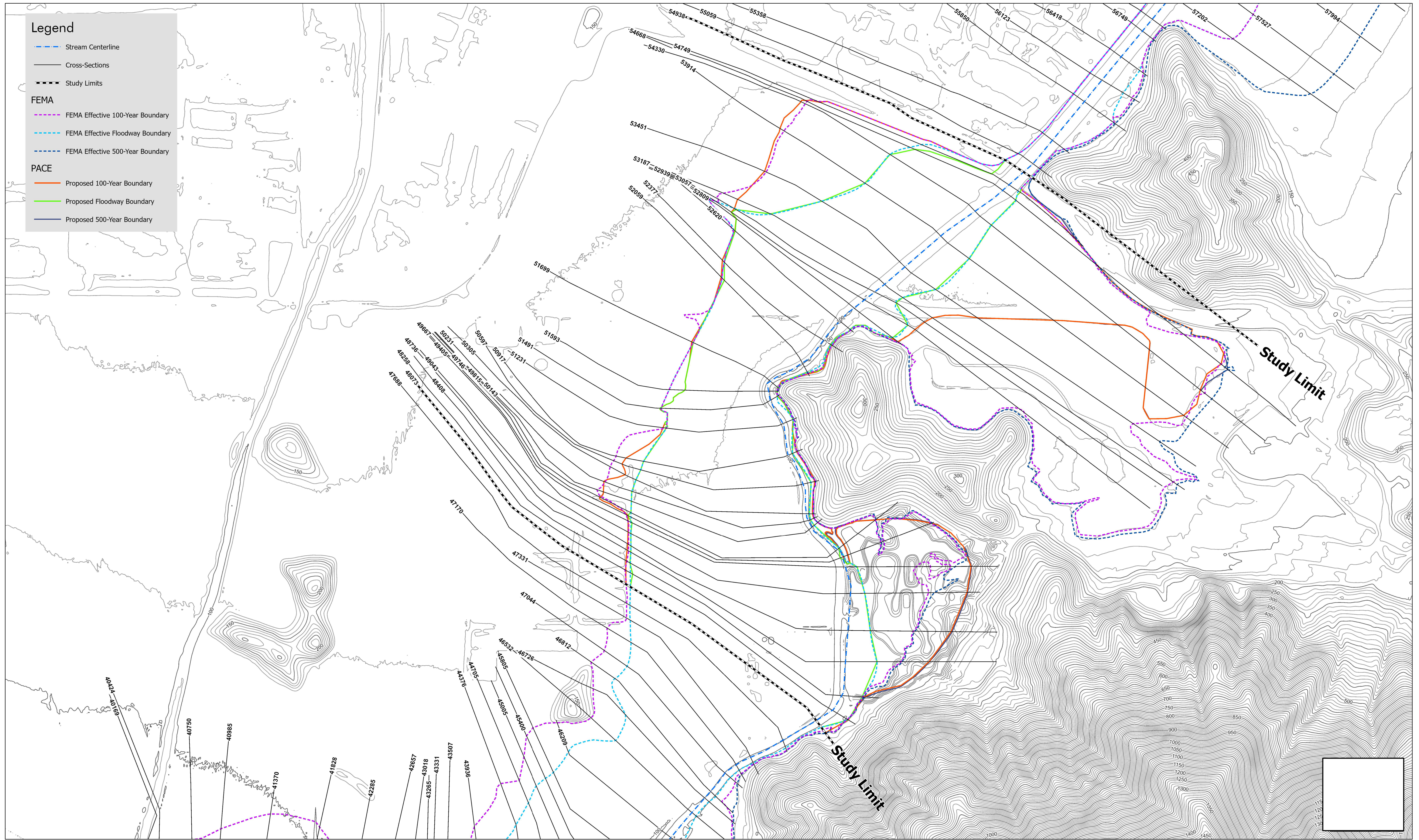
P:\B306\6-GIS\Projects\CLOWR_20190401\CLOWR_20190401.aprx - Figure 3 Topographic Workmap

CAMARILLO SPRINGS

TOPOGRAPHIC WORKMAP

Figure 3

P:\B306\6-GIS\Projects\CLOWR_20190401\CLOWR_20190401.aprx - Figure 4 Floodplain Comparison Map



CAMARILLO SPRINGS

FLOODPLAIN COMPARISON MAP



0 400 800 1,600
Feet
Date: 2/11/2020
Vertical Datum: NAVD88
Job Number: B306

Figure 4



MT-2 Forms

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
OVERVIEW & CONCURRENCE FORM

O.M.B No. 1660-0016
Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20958-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

PRIVACY ACT STATEMENT

AUTHORITY: The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

PRINCIPAL PURPOSE(S): This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

ROUTINE USE(S): The information on this form may be disclosed as generally permitted under 5 U.S.C § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program (NFIP); Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7990.

DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a (NFIP) Flood Insurance Rate Maps (FIRM).

A. REQUESTED RESPONSE FROM DHS-FEMA

This request is for a (check one):

☒ CLOMR: A letter from DHS-FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60, 65 & 72).

☐ LOMR: A letter from DHS-FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See 44 CFR Ch. 1, Parts 60, 65 & 72)

B. OVERVIEW

1. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Example: 480301 480287	City of Katy Harris County	TX TX	48473C 48201C	0005D 0220G	02/08/83 09/28/90
065020	City of Camarillo	CA	06111C	0934E	1/20/201
065020	City of Camarillo	CA	06111C	0953E	1/20/201

2. a. Flooding Source: Conejo Creek

b. Types of Flooding: ☒ Riverine ☐ Coastal ☐ Shallow Flooding (e.g., Zones AO and AH)
☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

3. Project Name/Identifier: Camarillo Springs Golf Course

4. FEMA zone designations affected: AE, X (choices: A, AH, AO, A1-A30, A99, AE, AR, V, V1-V30, VE, B, C, D, X)

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply)

☒ Physical Change ☒ Improved Methodology/Data ☐ Regulatory Floodway Revision ☐ Base Map Changes
☐ Coastal Analysis ☒ Hydraulic Analysis ☐ Hydrologic Analysis ☐ Corrections
☐ Weir-Dam Changes ☐ Levee Certification ☐ Alluvial Fan Analysis ☐ Natural Changes
☒ New Topographic Data ☐ Other (Attach Description)

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

b. The area of revision encompasses the following structures (check all that apply)

Structures: ☐ Channelization ☐ Levee/Floodwall ☒ Bridge/Culvert
☐ Dam ☒ Fill ☐ Other (Attach Description)

6. ☒ Documentation of ESA compliance is submitted (required to initiate CLOMR review). Please refer to the instructions for more information.

C. REVIEW FEE

Has the review fee for the appropriate request category been included?

☒ Yes

Fee amount: \$7,250

☐ No, Attach Explanation

Please see the DHS-FEMA Web site at http://www.fema.gov/plan/prevent/fhm/fm_fees.shtml for Fee Amounts and Exemptions.

D. SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: Jonathan Frankel

Company: New Urban West, Inc.

Mailing Address: 16935 W. Bernardo Dr., Ste 260
San Diego, Ca 92127

Daytime Telephone No.: 925-708-3638

Fax No.:

E-Mail Address: jonathanf@newurbanwest.com

Signature of Requester (required): 

Date: 4/8/19

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirements for when fill is placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. For Conditional LOMR requests, the applicant has documented Endangered Species Act (ESA) compliance to FEMA prior to FEMA's review of the Conditional LOMR application. For LOMR requests, I acknowledge that compliance with Sections 9 and 10 of the ESA has been achieved independently of FEMA's process. For actions authorized, funded, or being carried out by Federal or State agencies, documentation from the agency showing its compliance with Section 7(a)(2) of the ESA will be submitted. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title: *Natallia Tucker, P.E.*

Assist. Director of PW / City Engineer (Floodplain Administrator)


Community Name: *City of Camarillo*

Mailing Address: *601 Carmen Drive*
Camarillo, CA 93012

Daytime Telephone No. *805/388-5343*

Fax No.:

E-Mail Address: *htucker@cityofcamarillo.org*

Community Official's Signature (required): 

Date: 4/15/19

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information data, hydrologic and hydraulic analysis, and any other supporting information as per NFIP regulations paragraph 65.2(b) and as described in the MT-2 Forms Instructions. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: Andrew Ronnau

License No.: 72851

Expiration Date: 06/30/2020

Company Name: *Pacific Advanced Civil Engineering*

Telephone No.: 714-481-7300

Fax No.: 714-481-7299

Signature: 

Date: *03-28-19*

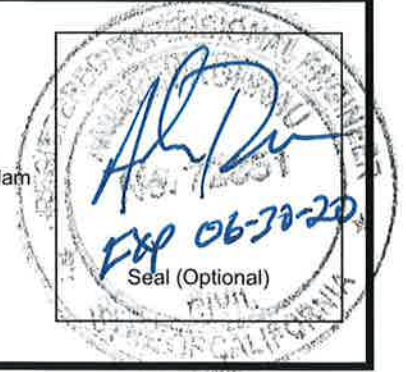
E-Mail Address: aronnau@pacewater.com

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)

Required if ...

- | | |
|---|--|
| <input checked="" type="checkbox"/> Riverine Hydrology and Hydraulics Form (Form 2) | New or revised discharges or water-surface elevations |
| <input checked="" type="checkbox"/> Riverine Structures Form (Form 3) | Channel is modified, addition/revision of bridge/culverts,
addition/revision of levee/floodwall, addition/revision of dam |
| <input type="checkbox"/> Coastal Analysis Form (Form 4) | New or revised coastal elevations |
| <input type="checkbox"/> Coastal Structures Form (Form 5) | Addition/revision of coastal structure |
| <input type="checkbox"/> Alluvial Fan Flooding Form (Form 6) | Flood control measures on alluvial fans |



U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
RIVERINE HYDROLOGY & HYDRAULICS FORM

O.M.B No. 1660-0016
Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 3.5 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington VA 20958-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

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DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a NFIP Flood Insurance Rate Maps (FIRM).

Flooding Source: Conejo Creek

Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

- | | | |
|--|---|---|
| <input type="checkbox"/> Not revised (skip to section B) | <input type="checkbox"/> No existing analysis | <input type="checkbox"/> Improved data |
| <input type="checkbox"/> Alternative methodology | <input checked="" type="checkbox"/> Proposed Conditions (CLOMR) | <input checked="" type="checkbox"/> Changed physical condition of watershed |

2. Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi.)	Effective/FIS (cfs)	Revised (cfs)
Section D/S of Adohr Lane	Tributary to Conejo	2,079 cfs, 390 af	1,582 cfs, 300 af

3. Methodology for New Hydrologic Analysis (check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Statistical Analysis of Gage Records | <input type="checkbox"/> Precipitation/Runoff Model → Specify Model: _____ |
| <input type="checkbox"/> Regional Regression Equations | <input checked="" type="checkbox"/> Other (please attach description) |

Please enclose all relevant models in digital format, maps, computations (including computation of parameters), and documentation to support the new analysis.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5. Impacts of Sediment Transport on Hydrology

Is the hydrology for the revised flooding source(s) affected by sediment transport? ☐ Yes ☒ No

If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation..

B. HYDRAULICS

1. Reach to be Revised

	Description	Cross Section	Water-Surface Elevations (ft.)	
			Effective	Proposed/Revised
Downstream Limit*	<u>1,300 feet U/S of Howard Road Bridge</u>	<u>XS 48073</u>	<u>109.2</u>	<u>108.9</u>
Upstream Limit*	<u>D/S of Highway 101 Bridge</u>	<u>XS 54749</u>	<u>118.0</u>	<u>117.8</u>

*Proposed/Revised elevations must tie-into the Effective elevations within 0.5 foot at the downstream and upstream limits of revision.

2. Hydraulic Method/Model Used: HEC-RAS 5.0.5

3. Pre-Submittal Review of Hydraulic Models*

DHS-FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS.

4.

<u>Models Submitted</u>	<u>Natural Run</u>		<u>Floodway Run</u>		<u>Datum</u>
Duplicate Effective Model*	File Name: FEMA Ventura FP	Plan Name: FloodplainAnalysis	File Name: FEMA Ventura FW	Plan Name: FloodwayAnalysis_Br	NAVD 88
Corrected Effective Model*	File Name: FEMA Conejo Creek	Plan Name: CorrectedEffective	File Name: _____	Plan Name: _____	NAVD 88
Existing or Pre-Project Conditions Model	File Name: FEMA Conejo Creek	Plan Name: CorrectedEffective	File Name: Encroachment Study	Plan Name: Encroachment	NAVD 88
Revised or Post-Project Conditions Model	File Name: FEMA Conejo Creeks	Plan Name: Proposed	File Name: _____	Plan Name: _____	NAVD 88
Other - (attach description)	File Name: _____	Plan Name: _____	File Name: _____	Plan Name: _____	_____

* For details, refer to the corresponding section of the instructions.

☒ Digital Models Submitted? (Required)

C. MAPPING REQUIREMENTS

A **certified topographic work map** must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.); current community easements and boundaries; boundaries of the requester's property; certification of a registered professional engineer registered in the subject State; location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

☒ Digital Mapping (GIS/CADD) Data Submitted (preferred)

Topographic Information: LiDAR

Source: Ventura County

Date: July 2013

Accuracy: 10' x 10' grid, 9.25 cm vertical accuracy

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach **a copy of the effective FIRM and/or FBFM**, at the same scale as the original, annotated to show the boundaries of the revised 1%-and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%-and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area on revision.

☒ Annotated FIRM and/or FBFM (Required)

D. COMMON REGULATORY REQUIREMENTS*

1. For LOMR/CLOMR requests, do Base Flood Elevations (BFEs) increase? ☐ Yes ☒ No
- a. For CLOMR requests, if either of the following is true, please submit **evidence of compliance with Section 65.12 of the NFIP regulations**:
- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot compared to pre-project conditions.
 - The proposed project encroaches upon a SFHA with or without BFEs established and would result in increases above 1.00 foot compared to pre-project conditions.
- b. Does this LOMR request cause increase in the BFE and/or SFHA compared with the effective BFEs and/or SFHA? ☐ Yes ☐ No
If Yes, please attach **proof of property owner notification and acceptance (if available)**. Elements of and examples of property owner notifications can be found in the MT-2 Form 2 Instructions.
2. Does the request involve the placement or proposed placement of fill? ☒ Yes ☐ No
- If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60.3(A)(3), 65.5(a)(4), and 65.6(a)(14). Please see the MT-2 instructions for more information.
3. For LOMR requests, is the regulatory floodway being revised? ☐ Yes ☐ No
- If Yes, attach **evidence of regulatory floodway revision notification**. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being established. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)
4. For CLOMR requests, please submit documentation to FEMA and the community to show that you have complied with Sections 9 and 10 of the Endangered Species Act (ESA).

For actions authorized, funded, or being carried out by Federal or State agencies, please submit documentation from the agency showing its compliance with Section 7(a)(2) of the ESA. Please see the MT-2 instructions for more detail.

* Not inclusive of all applicable regulatory requirements. For details, see 44 CFR parts 60 and 65.

DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
RIVERINE STRUCTURES FORM

O.M.B. NO. 1660-0016
Expires February 28, 2014

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 7 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

PRIVACY ACT STATEMENT

AUTHORITY: The National Flood Insurance Act of 1968, Public Law 90-448, as amended by the Flood Disaster Protection Act of 1973, Public Law 93-234.

PRINCIPAL PURPOSE(S): This information is being collected for the purpose of determining an applicant's eligibility to request changes to National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM).

ROUTINE USE(S): The information on this form may be disclosed as generally permitted under 5 U.S.C § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA/NFIP/LOMA-1 National Flood Insurance Program; Letter of Map Amendment (LOMA) February 15, 2006, 71 FR 7990.

DISCLOSURE: The disclosure of information on this form is voluntary; however, failure to provide the information requested may delay or prevent FEMA from processing a determination regarding a requested change to a NFIP Flood Insurance Rate Maps (FIRM).

Flooding Source: Conejo Creek

Note: Fill out one form for each flooding source studied.

A. GENERAL

Complete the appropriate section(s) for each Structure listed below:

Channelization.....complete Section B
Bridge/Culvert.....complete Section C
Dam.....complete Section D
Levee/Floodwall.....complete Section E
Sediment Transport.....complete Section F (if required)

Description Of Modeled Structure

1. Name of Structure: Existing Highway 101

Type (check one): ☐ Channelization ☒ Bridge/Culvert ☐ Levee/Floodwall ☐ Dam

Location of Structure: At Highway 101 Crossing of Conejo Creek

Downstream Limit/Cross Section: XS 54749

Upstream Limit/Cross Section: XS 54938

2. Name of Structure: Existing Adohr Lane Bridge (Ridge View St)

Type (check one): ☐ Channelization ☒ Bridge/Culvert ☐ Levee/Floodwall ☐ Dam

Location of Structure: At Adhor Lane/Ridge View Street Crossing of Conejo Creek

Downstream Limit/Cross Section: XS 52939

Upstream Limit/Cross Section: XS 53057

3. Name of Structure: _____

Type (check one) ☐ Channelization ☐ Bridge/Culvert ☐ Levee/Floodwall ☐ Dam

Location of Structure: _____

Downstream Limit/Cross Section: _____

Upstream Limit/Cross Section: _____

NOTE: FOR MORE STRUCTURES, ATTACH ADDITIONAL PAGES AS NEEDED.

B. CHANNELIZATION

Flooding Source: _____

Name of Structure: _____

1. Hydraulic Considerations

The channel was designed to carry _____ (cfs) and/or the _____-year flood.

The design elevation in the channel is based on (check one):

☐ Subcritical flow ☐ Critical flow ☐ Supercritical flow ☐ Energy grade line

If there is the potential for a hydraulic jump at the following locations, check all that apply and attach an explanation of how the hydraulic jump is controlled without affecting the stability of the channel.

☐ Inlet to channel ☐ Outlet of channel ☐ At Drop Structures ☐ At Transitions☐ Other locations (specify): _____**2. Channel Design Plans**

Attach the plans of the channelization certified by a registered professional engineer, as described in the instructions.

3. Accessory Structures

The channelization includes (check one):

☐ Levees [Attach Section E (Levee/Floodwall)] ☐ Drop structures ☐ Superelevated sections
☐ Transitions in cross sectional geometry ☐ Debris basin/detention basin [Attach Section D (Dam/Basin)] ☐ Energy dissipator
☐ Weir ☐ Other (Describe): _____**4. Sediment Transport Considerations**Are the hydraulics of the channel affected by sediment transport? ☐ Yes ☐ No

If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

C. BRIDGE/CULVERTFlooding Source: Conejo CreekName of Structure: Ridge View Street Crossing**1. This revision reflects (check one):**☐ Bridge/culvert not modeled in the FIS
☐ Modified bridge/culvert previously modeled in the FIS
☒ Revised analysis of bridge/culvert previously modeled in the FIS**2. Hydraulic model used to analyze the structure (e.g., HEC-2 with special bridge routine, WSPRO, HY8): HEC-RAS 5.0.5**

If different than hydraulic analysis for the flooding source, justify why the hydraulic analysis used for the flooding source could not analyze the structures. Attach justification.

3. Attach plans of the structures certified by a registered professional engineer. The plan detail and information should include the following (check the information that has been provided):

<input type="checkbox"/> Dimensions (height, width, span, radius, length)	<input type="checkbox"/> Distances Between Cross Sections
<input type="checkbox"/> Shape (culverts only)	<input type="checkbox"/> Erosion Protection
<input type="checkbox"/> Material	<input checked="" type="checkbox"/> Low Chord Elevations – Upstream and Downstream
<input type="checkbox"/> Beveling or Rounding	<input checked="" type="checkbox"/> Top of Road Elevations – Upstream and Downstream
<input type="checkbox"/> Wing Wall Angle	<input type="checkbox"/> Structure Invert Elevations – Upstream and Downstream
<input type="checkbox"/> Skew Angle	<input type="checkbox"/> Stream Invert Elevations – Upstream and Downstream
	<input type="checkbox"/> Cross-Section Locations

4. Sediment Transport ConsiderationsAre the hydraulics of the structure affected by sediment transport? ☐ Yes ☒ No

If Yes, then fill out Section F (Sediment Transport) of Form 3. If no, then attach an explanation.

B. CHANNELIZATION

Flooding Source: _____

Name of Structure: _____

1. Hydraulic Considerations

The channel was designed to carry _____ (cfs) and/or the _____-year flood.

The design elevation in the channel is based on (check one):

- ☐ Subcritical flow ☐ Critical flow ☐ Supercritical flow ☐ Energy grade line

If there is the potential for a hydraulic jump at the following locations, check all that apply and attach an explanation of how the hydraulic jump is controlled without affecting the stability of the channel.

- ☐ Inlet to channel ☐ Outlet of channel ☐ At Drop Structures ☐ At Transitions

☐ Other locations (specify): _____**2. Channel Design Plans**

Attach the plans of the channelization certified by a registered professional engineer, as described in the instructions.

3. Accessory Structures

The channelization includes (check one):

- ☐ Levees [Attach Section E (Levee/Floodwall)] ☐ Drop structures ☐ Superelevated sections
☐ Transitions in cross sectional geometry ☐ Debris basin/detention basin [Attach Section D (Dam/Basin)] ☐ Energy dissipator
☐ Weir ☐ Other (Describe): _____

4. Sediment Transport ConsiderationsAre the hydraulics of the channel affected by sediment transport? ☐ Yes ☐ No

If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

C. BRIDGE/CULVERTFlooding Source: Conejo CreekName of Structure: Highway 101 Crossing**1. This revision reflects (check one):**

- ☐ Bridge/culvert not modeled in the FIS
☐ Modified bridge/culvert previously modeled in the FIS
☒ Revised analysis of bridge/culvert previously modeled in the FIS

2. Hydraulic model used to analyze the structure (e.g., HEC-2 with special bridge routine, WSPRO, HY8): HEC-RAS 5.0.5

If different than hydraulic analysis for the flooding source, justify why the hydraulic analysis used for the flooding source could not analyze the structures. Attach justification.

3. Attach plans of the structures certified by a registered professional engineer. The plan detail and information should include the following (check the information that has been provided):

- | | |
|--|--|
| <input checked="" type="checkbox"/> Dimensions (height, width, span, radius, length) | <input type="checkbox"/> Distances Between Cross Sections |
| <input type="checkbox"/> Shape (culverts only) | <input type="checkbox"/> Erosion Protection |
| <input type="checkbox"/> Material | <input checked="" type="checkbox"/> Low Chord Elevations – Upstream and Downstream |
| <input type="checkbox"/> Beveling or Rounding | <input checked="" type="checkbox"/> Top of Road Elevations – Upstream and Downstream |
| <input type="checkbox"/> Wing Wall Angle | <input type="checkbox"/> Structure Invert Elevations – Upstream and Downstream |
| <input type="checkbox"/> Skew Angle | <input type="checkbox"/> Stream Invert Elevations – Upstream and Downstream |
| | <input type="checkbox"/> Cross-Section Locations |

4. Sediment Transport ConsiderationsAre the hydraulics of the structure affected by sediment transport? ☐ Yes ☒ No

If Yes, then fill out Section F (Sediment Transport) of Form 3. If no, then attach an explanation.

FIRM Panels

Duplicate Effective Model Results

Duplicate Effective (Unsteady 100yr): XS 54749 – XS 51491

HEC-RAS Plan: FP_Bridge River: Reach #1 Reach: Conejo Creek Cro Profile: Max WS

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Max WS	22595.31	102.00	118.04		118.10	0.000219	2.85	16011.72	3037.61	0.14
Conejo Creek Cro	54668	Max WS	22620.03	102.00	118.07		118.11	0.000159	2.53	19810.61	3905.82	0.12
Conejo Creek Cro	54330	Max WS	22595.16	102.00	118.04		118.06	0.000094	2.11	26960.86	4984.33	0.10
Conejo Creek Cro	53914	Max WS	22593.29	101.00	118.00		118.03	0.000085	2.24	27345.99	5055.66	0.11
Conejo Creek Cro	53451	Max WS	22590.86	101.00	117.98		118.00	0.000073	2.19	27326.76	4605.61	0.10
Conejo Creek Cro	53187	Max WS	22589.48	100.20	117.97		117.99	0.000082	2.31	27495.52	5385.86	0.10
Conejo Creek Cro	53057	Max WS	22797.82	100.00	117.96	112.30	117.98	0.000079	2.28	28132.62	5257.44	0.10
Conejo Creek Cro	53000		Bridge									
Conejo Creek Cro	52939	Max WS	22787.99	100.00	117.92		117.95	0.000115	2.39	25303.98	5339.95	0.11
Conejo Creek Cro	52809	Max WS	22778.38	100.00	117.54		117.82	0.000723	5.86	9696.21	2336.63	0.27
Conejo Creek Cro	52620	Max WS	22774.46	99.65	117.17		117.79	0.001319	7.96	6733.77	1786.14	0.37
Conejo Creek Cro	52377	Max WS	22774.25	99.68	116.74		117.48	0.001747	9.52	6338.65	1595.29	0.42
Conejo Creek Cro	52059	Max WS	22773.77	100.00	116.11		117.00	0.002195	9.97	5596.98	1425.03	0.46
Conejo Creek Cro	51699	Max WS	22770.74	99.45	113.92	114.86	116.18	0.005027	14.26	2576.74	733.26	0.69
Conejo Creek Cro	51593	Max WS	18540.85	99.45	113.50	112.95	114.82	0.003314	11.09	2842.61	966.18	0.55
Conejo Creek Cro	51491	Max WS	22771.65	99.45	113.55	113.00	114.72	0.003670	11.23	3477.25	1077.37	0.58

Duplicate Effective (Steady 10yr, 50yr, 500yr): XS 54749 – XS 51491

HEC-RAS Plan: FP-Steady_101 River: Reach #1 Reach: Conejo Creek Cro

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Existing 10yr	9563.00	102.00	114.95	107.45	115.19	0.000505	3.89	2459.33	2242.34	0.21
Conejo Creek Cro	54749	Existing 50yr	18298.00	102.00	117.40	109.70	117.95	0.000996	5.93	3115.52	2957.76	0.31
Conejo Creek Cro	54749	Existing 500yr	36481.00	102.00	120.29	113.44	120.36	0.000215	3.16	23321.43	3413.54	0.15
Conejo Creek Cro	54668	Existing 10yr	9563.00	102.00	115.02		115.07	0.000176	2.30	9078.23	3056.83	0.13
Conejo Creek Cro	54668	Existing 50yr	18298.00	102.00	117.64		117.67	0.000129	2.23	18159.13	3755.48	0.11
Conejo Creek Cro	54668	Existing 500yr	36481.00	102.00	120.29		120.34	0.000150	2.73	28994.04	4525.22	0.12
Conejo Creek Cro	54330	Existing 10yr	9563.00	102.00	114.98		115.01	0.000118	2.02	12645.87	4283.74	0.11
Conejo Creek Cro	54330	Existing 50yr	18298.00	102.00	117.61		117.63	0.000078	1.88	24846.10	4910.28	0.09
Conejo Creek Cro	54330	Existing 500yr	36481.00	102.00	120.26		120.29	0.000090	2.27	38454.53	5408.76	0.10
Conejo Creek Cro	53914	Existing 10yr	9563.00	101.00	114.94		114.97	0.000087	1.93	13199.76	3826.43	0.10
Conejo Creek Cro	53914	Existing 50yr	18298.00	101.00	117.58		117.60	0.000069	1.98	25214.27	4966.38	0.09
Conejo Creek Cro	53914	Existing 500yr	36481.00	101.00	120.23		120.25	0.000081	2.42	39115.25	5538.98	0.11
Conejo Creek Cro	53451	Existing 10yr	9563.00	101.00	114.92		114.94	0.000068	1.81	14432.21	3804.49	0.09
Conejo Creek Cro	53451	Existing 50yr	18298.00	101.00	117.56		117.58	0.000058	1.91	25425.96	4499.73	0.09
Conejo Creek Cro	53451	Existing 500yr	36481.00	101.00	120.20		120.23	0.000085	2.58	38534.38	5595.86	0.11
Conejo Creek Cro	53187	Existing 10yr	9563.00	100.20	114.91		114.94	0.000078	1.93	13631.50	3802.40	0.10
Conejo Creek Cro	53187	Existing 50yr	18298.00	100.20	117.55		117.57	0.000065	2.01	25325.72	5117.59	0.09
Conejo Creek Cro	53187	Existing 500yr	36481.00	100.20	120.19		120.22	0.000081	2.50	40034.19	5920.55	0.11
Conejo Creek Cro	53057	Existing 10yr	9560.00	100.00	114.90	106.69	114.92	0.000075	1.92	13995.64	4032.05	0.10
Conejo Creek Cro	53057	Existing 50yr	18292.00	100.00	117.54	111.75	117.56	0.000062	1.99	25980.93	5117.04	0.09
Conejo Creek Cro	53057	Existing 500yr	36469.00	100.00	120.18	113.43	120.20	0.000074	2.41	40413.98	5676.62	0.10
Conejo Creek Cro	53000	Bridge										
Conejo Creek Cro	52939	Existing 10yr	9560.00	100.00	114.86		114.89	0.000112	2.02	11616.70	3569.15	0.10
Conejo Creek Cro	52939	Existing 50yr	18292.00	100.00	117.51		117.54	0.000092	2.10	23199.34	5101.20	0.10
Conejo Creek Cro	52939	Existing 500yr	36469.00	100.00	120.15		120.18	0.000100	2.45	37775.11	5696.05	0.10
Conejo Creek Cro	52809	Existing 10yr	9560.00	100.00	114.35		114.68	0.000767	5.13	3635.84	1473.47	0.27
Conejo Creek Cro	52809	Existing 50yr	18292.00	100.00	117.13		117.36	0.000577	5.14	8764.78	2232.52	0.24
Conejo Creek Cro	52809	Existing 500yr	36469.00	100.00	119.75		119.98	0.000636	6.03	15369.49	2739.23	0.26
Conejo Creek Cro	52620	Existing 10yr	9560.00	99.65	113.97		114.48	0.001078	6.11	2472.91	923.45	0.32
Conejo Creek Cro	52620	Existing 50yr	18292.00	99.65	116.68		117.18	0.001057	6.97	5923.60	1613.11	0.33
Conejo Creek Cro	52620	Existing 500yr	36469.00	99.65	119.19		119.78	0.001300	8.62	10821.70	2211.35	0.37

HEC-RAS Plan: FP-Steady_101 River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	52377	Existing 10yr	9560.00	99.68	113.56		114.17	0.001377	7.28	2603.18	789.03	0.36
Conejo Creek Cro	52377	Existing 50yr	18292.00	99.68	116.19		116.84	0.001494	8.60	5490.30	1491.42	0.39
Conejo Creek Cro	52377	Existing 500yr	36469.00	99.68	118.61		119.35	0.001836	10.51	9757.32	2000.47	0.44
Conejo Creek Cro	52059	Existing 10yr	9560.00	100.00	113.12		113.74	0.001576	7.24	2445.74	703.40	0.38
Conejo Creek Cro	52059	Existing 50yr	18292.00	100.00	115.73		116.42	0.001695	8.61	5068.11	1327.91	0.40
Conejo Creek Cro	52059	Existing 500yr	36469.00	100.00	117.72		118.77	0.002690	11.84	8259.96	1891.59	0.52
Conejo Creek Cro	51699	Existing 10yr	9560.00	99.45	111.40	108.38	112.84	0.003285	10.01	1198.07	372.58	0.54
Conejo Creek Cro	51699	Existing 50yr	18292.00	99.45	113.45	113.44	115.31	0.004128	12.62	2256.24	650.95	0.62
Conejo Creek Cro	51699	Existing 500yr	36469.00	99.45	116.33	116.33	117.57	0.003084	12.49	5768.02	1676.45	0.56
Conejo Creek Cro	51593	Existing 10yr	9560.00	99.45	111.24	108.91	112.37	0.002963	9.18	1389.86	455.55	0.51
Conejo Creek Cro	51593	Existing 50yr	18292.00	99.45	112.88	112.59	114.67	0.004487	12.47	2301.09	725.74	0.64
Conejo Creek Cro	51593	Existing 500yr	36469.00	99.45	115.21	115.21	116.79	0.004187	13.58	4799.38	1267.73	0.63
Conejo Creek Cro	51491	Existing 10yr	9560.00	99.45	110.96	110.32	111.98	0.003344	9.07	1496.58	540.09	0.53
Conejo Creek Cro	51491	Existing 50yr	18292.00	99.45	112.76	111.97	113.99	0.003874	11.01	2708.78	869.13	0.59
Conejo Creek Cro	51491	Existing 500yr	36469.00	99.45	114.85	114.68	116.14	0.004044	12.65	5112.85	1386.09	0.62

Duplicate Effective (Steady 10yr, 50yr, 100yr, 500yr): XS 51258 – XS 48073

HEC-RAS Plan: Baseline v2 River: Reach #1 Reach: Conejo Creek Cro

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	51231	Existing 10yr	9560.00	97.00	111.20		111.58	0.001052	6.02	2620.71	832.00	0.31
Conejo Creek Cro	51231	Existing 50yr	18292.00	97.00	112.50		113.13	0.001758	8.36	3839.07	1094.33	0.41
Conejo Creek Cro	51231	Existing 100yr	22980.00	97.00	113.07		113.79	0.002017	9.21	4512.17	1268.07	0.44
Conejo Creek Cro	51231	Existing 500yr	36469.00	97.00	114.16		115.12	0.002683	11.19	6078.67	1576.13	0.52
Conejo Creek Cro	50917	Existing 10yr	9560.00	97.00	110.65		111.17	0.001471	7.04	2503.75	1156.22	0.36
Conejo Creek Cro	50917	Existing 50yr	18292.00	97.00	111.94		112.52	0.001843	8.45	4228.77	1502.46	0.41
Conejo Creek Cro	50917	Existing 100yr	22980.00	97.00	112.52		113.10	0.001909	8.85	5256.16	1813.34	0.42
Conejo Creek Cro	50917	Existing 500yr	36469.00	97.00	113.71		114.27	0.001827	9.16	7429.67	1848.16	0.42
Conejo Creek Cro	50597	Existing 10yr	9560.00	97.00	110.40		110.75	0.001057	5.83	2976.93	1329.05	0.31
Conejo Creek Cro	50597	Existing 50yr	18292.00	97.00	111.58		112.03	0.001461	7.32	4732.17	1644.47	0.37
Conejo Creek Cro	50597	Existing 100yr	22980.00	97.00	112.01		112.57	0.001839	8.41	5478.97	2022.78	0.41
Conejo Creek Cro	50597	Existing 500yr	36469.00	97.00	113.31		113.79	0.001570	8.29	8146.05	2076.89	0.39
Conejo Creek Cro	50305	Existing 10yr	9560.00	97.00	109.92		110.41	0.001418	6.69	2616.12	1326.76	0.36
Conejo Creek Cro	50305	Existing 50yr	18292.00	97.00	110.75		111.50	0.002436	9.21	3813.69	1544.60	0.47
Conejo Creek Cro	50305	Existing 100yr	22980.00	97.00	111.15		111.97	0.002720	9.95	4449.95	1637.09	0.50
Conejo Creek Cro	50305	Existing 500yr	36469.00	97.00	112.06	111.75	113.14	0.003698	12.16	6052.03	2100.12	0.59
Conejo Creek Cro	50231	Existing 10yr	9560.00	97.00	109.92		110.23	0.001033	5.76	3129.82	1410.65	0.30
Conejo Creek Cro	50231	Existing 50yr	18292.00	97.00	110.64		111.21	0.001972	8.30	4322.23	1788.67	0.42
Conejo Creek Cro	50231	Existing 100yr	22980.00	97.00	110.99		111.63	0.002281	9.10	4968.46	1917.80	0.46
Conejo Creek Cro	50231	Existing 500yr	36469.00	97.00	111.96		112.66	0.002601	10.21	6985.52	2274.18	0.49
Conejo Creek Cro	50143	Existing 10yr	9560.00	97.00	109.82		110.11	0.001044	5.63	3418.09	1784.67	0.30
Conejo Creek Cro	50143	Existing 50yr	18292.00	97.00	110.42		110.96	0.002129	8.34	4655.93	2232.19	0.44
Conejo Creek Cro	50143	Existing 100yr	22980.00	97.00	110.78		111.33	0.002256	8.77	5471.57	2300.97	0.45
Conejo Creek Cro	50143	Existing 500yr	36469.00	97.00	111.78		112.30	0.002182	9.11	7873.79	2492.54	0.45
Conejo Creek Cro	49815	Existing 10yr	9560.00	97.00	109.74	105.86	109.87	0.000553	4.14	4719.27	2567.62	0.22
Conejo Creek Cro	49815	Existing 50yr	18292.00	97.00	110.21	109.50	110.50	0.001202	6.28	5784.84	2630.30	0.33
Conejo Creek Cro	49815	Existing 100yr	22980.00	97.00	110.50	109.76	110.84	0.001427	6.96	6455.66	2692.62	0.36
Conejo Creek Cro	49815	Existing 500yr	36469.00	97.00	111.47	110.33	111.85	0.001572	7.70	8792.63	2898.48	0.38
Conejo Creek Cro	49746	Existing 10yr	9560.00	97.00	109.63	105.63	109.84	0.000763	4.83	4096.76	2948.89	0.26
Conejo Creek Cro	49746	Existing 50yr	18292.00	97.00	109.68	109.68	110.38	0.002627	8.98	4205.02	2952.65	0.48
Conejo Creek Cro	49746	Existing 100yr	22980.00	97.00	110.04	109.95	110.72	0.002713	9.33	5002.20	3006.77	0.49
Conejo Creek Cro	49746	Existing 500yr	36469.00	97.00	111.26	110.54	111.77	0.002038	8.67	7775.41	3087.66	0.44
Conejo Creek Cro	49667	Existing 10yr	9560.00	97.00	108.15	105.54	109.61	0.003908	9.89	1313.66	2539.29	0.58
Conejo Creek Cro	49667	Existing 50yr	18292.00	97.00	109.55	109.46	110.15	0.002328	8.39	4445.27	2815.86	0.46

HEC-RAS Plan: Baseline v2 River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	49667	Existing 100yr	22980.00	97.00	110.03	109.72	110.55	0.002124	8.26	5544.90	3132.42	0.44
Conejo Creek Cro	49667	Existing 500yr	36469.00	97.00	111.24	110.31	111.66	0.001690	7.89	8396.93	3259.12	0.40
Conejo Creek Cro	49405	Existing 10yr	9560.00	96.50	108.20	104.79	108.69	0.001752	6.45	2785.27	3016.57	0.38
Conejo Creek Cro	49405	Existing 50yr	18292.00	96.50	109.38	108.80	109.68	0.001339	6.14	5680.27	3054.12	0.34
Conejo Creek Cro	49405	Existing 100yr	22980.00	96.50	109.85	109.05	110.13	0.001276	6.18	6819.63	3068.89	0.34
Conejo Creek Cro	49405	Existing 500yr	36469.00	96.50	111.06	109.61	111.34	0.001114	6.22	9807.23	3168.83	0.32
Conejo Creek Cro	49043	Existing 10yr	9560.00	96.00	107.96	104.20	108.21	0.001066	5.19	3395.68	2219.43	0.30
Conejo Creek Cro	49043	Existing 50yr	18292.00	96.00	109.16	105.96	109.38	0.001040	5.56	6294.54	2890.84	0.30
Conejo Creek Cro	49043	Existing 100yr	22980.00	96.00	109.65	108.52	109.86	0.001001	5.62	7498.72	2919.09	0.30
Conejo Creek Cro	49043	Existing 500yr	36469.00	96.00	110.90	109.10	111.12	0.000892	5.70	10703.06	3034.49	0.29
Conejo Creek Cro	48736	Existing 10yr	9560.00	96.00	107.97	101.61	108.03	0.000278	2.72	5774.05	2417.52	0.15
Conejo Creek Cro	48736	Existing 50yr	18292.00	96.00	109.12	103.77	109.21	0.000373	3.39	8917.42	2978.77	0.18
Conejo Creek Cro	48736	Existing 100yr	22980.00	96.00	109.60	105.35	109.70	0.000398	3.60	10229.39	2983.88	0.19
Conejo Creek Cro	48736	Existing 500yr	36469.00	96.00	110.84	107.69	110.98	0.000423	3.98	13675.68	3024.62	0.20
Conejo Creek Cro	48408	Existing 10yr	9560.00	96.00	107.70		107.87	0.000619	4.21	3771.65	1611.47	0.23
Conejo Creek Cro	48408	Existing 50yr	18292.00	96.00	108.80		109.02	0.000861	5.31	6370.36	2638.92	0.28
Conejo Creek Cro	48408	Existing 100yr	22980.00	96.00	109.30		109.52	0.000846	5.42	7710.46	2664.66	0.28
Conejo Creek Cro	48408	Existing 500yr	36469.00	96.00	110.61		110.82	0.000782	5.60	11289.55	2872.60	0.27
Conejo Creek Cro	48258	Existing 10yr	9560.00	96.00	107.70	103.67	107.78	0.000322	3.03	5736.37	2179.80	0.17
Conejo Creek Cro	48258	Existing 50yr	18292.00	96.00	108.80	105.94	108.90	0.000445	3.82	8281.57	2418.56	0.20
Conejo Creek Cro	48258	Existing 100yr	22980.00	96.00	109.29	107.11	109.41	0.000479	4.08	9485.43	2478.07	0.21
Conejo Creek Cro	48258	Existing 500yr	36469.00	96.00	110.58	107.73	110.73	0.000530	4.60	12819.67	2708.09	0.23
Conejo Creek Cro	48073	Existing 10yr	9560.00	96.00	107.59		107.70	0.000593	3.94	4676.82	2092.80	0.22
Conejo Creek Cro	48073	Existing 50yr	18292.00	96.00	108.67		108.81	0.000714	4.64	6982.95	2209.99	0.25
Conejo Creek Cro	48073	Existing 100yr	22980.00	96.00	109.15		109.31	0.000747	4.89	8070.76	2280.04	0.26
Conejo Creek Cro	48073	Existing 500yr	36469.00	96.00	110.40		110.61	0.000934	5.87	11304.91	3093.24	0.29

Corrected Effective / Existing Model Results

Corrected Effective Existing (Unsteady 100yr): XS 54749 – XS 48073

HEC-RAS Plan: CorrectedEffective River: Reach #1 Reach: Conejo Creek Cro Profile: Max WS

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Max WS	21941.38	101.91	117.17		118.01	0.001674	7.33	3004.96	2930.14	0.39
Conejo Creek Cro	54668	Max WS	22022.35	101.91	117.48		117.53	0.000216	2.82	17198.81	3712.97	0.15
Conejo Creek Cro	54330	Max WS	22007.70	101.42	117.44		117.47	0.000112	2.04	24796.29	4860.15	0.10
Conejo Creek Cro	53914	Max WS	22006.42	101.11	117.40		117.43	0.000104	2.34	24827.09	4908.77	0.12
Conejo Creek Cro	53451	Max WS	22003.94	100.89	117.36		117.38	0.000082	2.09	25596.64	4462.54	0.10
Conejo Creek Cro	53187	Max WS	22002.11	100.37	117.34		117.36	0.000075	2.04	27212.01	5033.27	0.10
Conejo Creek Cro	53057	Max WS	22201.17	100.21	117.33	111.64	117.35	0.000079	2.13	27157.75	5074.13	0.10
Conejo Creek Cro	53000		Bridge									
Conejo Creek Cro	52939	Max WS	22198.78	99.94	117.29		117.32	0.000109	2.29	24427.91	4920.15	0.11
Conejo Creek Cro	52809	Max WS	22198.29	100.01	117.08		117.49	0.001036	6.76	7959.49	2155.65	0.32
Conejo Creek Cro	52620	Max WS	22196.22	99.72	116.72		117.29	0.001579	7.07	5900.54	1601.35	0.38
Conejo Creek Cro	52377	Max WS	22195.99	99.76	116.14		116.95	0.002282	9.13	5398.83	1434.14	0.46
Conejo Creek Cro	52059	Max WS	22195.51	99.65	115.34		116.31	0.002429	9.86	4864.19	1218.67	0.49
Conejo Creek Cro	51699	Max WS	22194.66	97.94	113.48	113.99	115.29	0.004203	12.92	2776.31	872.74	0.64
Conejo Creek Cro	51593	Max WS	22191.08	97.37	112.56	113.42	115.20	0.006010	15.16	2459.12	906.19	0.76
Conejo Creek Cro	51491	Max WS	22193.66	98.40	112.93		114.16	0.003941	11.11	3374.24	1182.84	0.60
Conejo Creek Cro	51231	Max WS	22192.67	98.04	112.45		113.17	0.002295	8.70	4204.20	1295.66	0.46
Conejo Creek Cro	50917	Max WS	22191.37	97.68	111.75		112.41	0.002658	8.79	4437.20	1615.22	0.49
Conejo Creek Cro	50597	Max WS	22188.12	97.30	111.28		111.68	0.001670	7.05	5571.31	1931.13	0.39
Conejo Creek Cro	50305	Max WS	22180.73	96.94	110.66		111.19	0.002132	8.34	5136.10	1970.98	0.44
Conejo Creek Cro	50231	Max WS	22180.65	96.28	110.61		111.00	0.001775	7.24	5636.44	2110.01	0.40
Conejo Creek Cro	50143	Max WS	22177.46	97.10	110.55		110.84	0.001483	6.58	6307.18	2242.44	0.36
Conejo Creek Cro	49815	Max WS	22170.32	95.59	110.17		110.38	0.000971	5.57	7170.56	2690.79	0.30
Conejo Creek Cro	49746	Max WS	22170.19	95.87	110.07		110.29	0.000959	5.58	7147.82	3042.65	0.30
Conejo Creek Cro	49667	Max WS	22166.57	96.05	109.96		110.19	0.000937	5.64	7197.48	3086.65	0.30
Conejo Creek Cro	49405	Max WS	22162.79	95.70	109.72		109.93	0.000991	5.37	7166.94	3044.97	0.30
Conejo Creek Cro	49043	Max WS	22158.89	95.37	109.44		109.60	0.000824	4.90	7975.06	2963.56	0.27
Conejo Creek Cro	48736	Max WS	22155.60	94.80	109.32		109.42	0.000363	3.16	10245.38	2988.91	0.18
Conejo Creek Cro	48408	Max WS	22153.05	94.38	109.14		109.28	0.000552	3.87	8647.46	2618.60	0.22
Conejo Creek Cro	48258	Max WS	22152.97	94.40	109.00		109.15	0.000633	4.43	8178.32	2430.25	0.24
Conejo Creek Cro	48073	Max WS	22152.76	94.49	108.87		109.02	0.000721	4.62	7985.10	2424.91	0.25

Corrected Effective Existing (Steady 10yr, 50yr, 500yr): XS 54749 – XS 48073

HEC-RAS Plan: CorEff_Steady River: Reach #1 Reach: Conejo Creek Cro

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Existing 10yr	9563.00	101.91	114.68	107.54	114.94	0.000600	4.09	2338.75	2166.20	0.23
Conejo Creek Cro	54749	Existing 50yr	18298.00	101.91	117.00	109.98	117.60	0.001229	6.21	2953.83	2893.24	0.34
Conejo Creek Cro	54749	Existing 500yr	36481.00	101.91	119.95	113.82	120.03	0.000257	3.35	22015.34	3415.02	0.16
Conejo Creek Cro	54668	Existing 10yr	9563.00	101.91	114.75		114.82	0.000240	2.58	8004.38	2936.31	0.15
Conejo Creek Cro	54668	Existing 50yr	18298.00	101.91	117.25		117.29	0.000170	2.47	16358.16	3670.93	0.13
Conejo Creek Cro	54668	Existing 500yr	36481.00	101.91	119.94		119.99	0.000179	2.90	27156.64	4310.84	0.14
Conejo Creek Cro	54330	Existing 10yr	9563.00	101.42	114.72		114.75	0.000129	1.85	12319.13	4071.56	0.11
Conejo Creek Cro	54330	Existing 50yr	18298.00	101.42	117.23		117.25	0.000088	1.78	23750.43	4822.58	0.09
Conejo Creek Cro	54330	Existing 500yr	36481.00	101.42	119.92		119.94	0.000093	2.11	37357.56	5196.33	0.10
Conejo Creek Cro	53914	Existing 10yr	9563.00	101.11	114.67		114.70	0.000098	1.94	12710.52	3890.59	0.11
Conejo Creek Cro	53914	Existing 50yr	18298.00	101.11	117.19		117.21	0.000077	1.99	23816.24	4852.38	0.10
Conejo Creek Cro	53914	Existing 500yr	36481.00	101.11	119.88		119.91	0.000089	2.44	37567.04	5406.77	0.11
Conejo Creek Cro	53451	Existing 10yr	9563.00	100.89	114.64		114.66	0.000070	1.64	14417.47	3740.37	0.09
Conejo Creek Cro	53451	Existing 50yr	18298.00	100.89	117.16		117.18	0.000062	1.80	24725.87	4407.31	0.09
Conejo Creek Cro	53451	Existing 500yr	36481.00	100.89	119.84		119.87	0.000081	2.34	37652.15	5202.53	0.11
Conejo Creek Cro	53187	Existing 10yr	9563.00	100.37	114.63		114.64	0.000058	1.55	15164.23	3739.55	0.08
Conejo Creek Cro	53187	Existing 50yr	18298.00	100.37	117.15		117.16	0.000057	1.76	26256.57	4966.72	0.09
Conejo Creek Cro	53187	Existing 500yr	36481.00	100.37	119.82		119.84	0.000073	2.26	40797.49	5745.71	0.10
Conejo Creek Cro	53057	Existing 10yr	9560.00	100.21	114.62	106.98	114.63	0.000067	1.69	14955.63	4063.40	0.09
Conejo Creek Cro	53057	Existing 50yr	18292.00	100.21	117.14	111.15	117.16	0.000058	1.81	26216.72	4948.87	0.09
Conejo Creek Cro	53057	Existing 500yr	36469.00	100.21	119.81	112.78	119.84	0.000070	2.25	40618.97	5685.31	0.10
Conejo Creek Cro	53000	Bridge										
Conejo Creek Cro	52939	Existing 10yr	9560.00	99.94	114.60		114.61	0.000071	1.61	13431.06	3276.08	0.08
Conejo Creek Cro	52939	Existing 50yr	18292.00	99.94	117.12		117.14	0.000080	1.95	23582.96	4837.02	0.09
Conejo Creek Cro	52939	Existing 500yr	36469.00	99.94	119.79		119.82	0.000095	2.38	38003.18	5653.10	0.10
Conejo Creek Cro	52809	Existing 10yr	9560.00	100.01	113.94		114.44	0.001161	6.02	2589.21	1174.40	0.33
Conejo Creek Cro	52809	Existing 50yr	18292.00	100.01	116.65		117.01	0.000889	6.14	7061.08	2029.47	0.30
Conejo Creek Cro	52809	Existing 500yr	36469.00	100.01	119.37		119.70	0.000858	6.83	13574.26	2635.66	0.30
Conejo Creek Cro	52620	Existing 10yr	9560.00	99.72	113.71		114.18	0.001572	5.64	2193.93	864.47	0.36
Conejo Creek Cro	52620	Existing 50yr	18292.00	99.72	116.33		116.80	0.001321	6.31	5285.56	1507.77	0.35
Conejo Creek Cro	52620	Existing 500yr	36469.00	99.72	118.92		119.47	0.001441	7.66	10120.67	2158.57	0.38

HEC-RAS Plan: CorEff_Steady River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	52377	Existing 10yr	9560.00	99.76	113.12		113.73	0.001960	6.99	2291.82	700.43	0.41
Conejo Creek Cro	52377	Existing 50yr	18292.00	99.76	115.71		116.38	0.001912	8.16	4810.37	1303.92	0.42
Conejo Creek Cro	52377	Existing 500yr	36469.00	99.76	118.21		118.99	0.002212	10.00	8890.78	1913.73	0.47
Conejo Creek Cro	52059	Existing 10yr	9560.00	99.65	112.59		113.19	0.001653	6.92	2362.16	702.18	0.39
Conejo Creek Cro	52059	Existing 50yr	18292.00	99.65	115.12		115.84	0.001804	8.40	4613.22	1152.65	0.42
Conejo Creek Cro	52059	Existing 500yr	36469.00	99.65	116.83		118.19	0.003351	12.47	7002.31	1623.87	0.58
Conejo Creek Cro	51699	Existing 10yr	9560.00	97.94	111.15	107.92	112.35	0.002827	9.27	1344.30	406.63	0.51
Conejo Creek Cro	51699	Existing 50yr	18292.00	97.94	113.66	112.99	114.93	0.002876	10.79	2952.90	1054.88	0.53
Conejo Creek Cro	51699	Existing 500yr	36469.00	97.94	115.50	115.50	116.86	0.003386	12.79	5364.33	1479.75	0.59
Conejo Creek Cro	51593	Existing 10yr	9560.00	97.37	110.82	107.58	112.00	0.002744	9.27	1387.61	463.36	0.50
Conejo Creek Cro	51593	Existing 50yr	18292.00	97.37	112.89	112.89	114.33	0.003331	11.48	2781.23	1018.81	0.57
Conejo Creek Cro	51593	Existing 500yr	36469.00	97.37	114.78	114.78	116.20	0.003618	13.12	5135.55	1358.26	0.60
Conejo Creek Cro	51491	Existing 10yr	9560.00	98.40	110.76		111.63	0.002949	8.25	1601.27	582.35	0.50
Conejo Creek Cro	51491	Existing 50yr	18292.00	98.40	112.42	111.77	113.53	0.003588	10.26	2843.36	953.62	0.57
Conejo Creek Cro	51491	Existing 500yr	36469.00	98.40	114.30		115.52	0.003947	12.05	5245.63	1484.91	0.61
Conejo Creek Cro	51231	Existing 10yr	9560.00	98.04	110.58		110.98	0.001357	5.91	2367.44	768.64	0.35
Conejo Creek Cro	51231	Existing 50yr	18292.00	98.04	112.08		112.70	0.002009	7.95	3749.04	1185.15	0.43
Conejo Creek Cro	51231	Existing 500yr	36469.00	98.04	113.65		114.55	0.002856	10.40	6033.91	1706.62	0.53
Conejo Creek Cro	50917	Existing 10yr	9560.00	97.68	109.89		110.43	0.002172	6.93	2053.60	786.37	0.43
Conejo Creek Cro	50917	Existing 50yr	18292.00	97.68	111.33		111.98	0.002591	8.44	3781.22	1477.28	0.48
Conejo Creek Cro	50917	Existing 500yr	36469.00	97.68	112.91		113.61	0.002703	9.54	6467.06	1854.94	0.50
Conejo Creek Cro	50597	Existing 10yr	9560.00	97.30	109.56		109.86	0.001241	5.37	2777.65	1141.25	0.33
Conejo Creek Cro	50597	Existing 50yr	18292.00	97.30	110.91		111.29	0.001600	6.73	4866.08	1902.39	0.38
Conejo Creek Cro	50597	Existing 500yr	36469.00	97.30	112.48		112.91	0.001654	7.56	7951.73	2075.14	0.39
Conejo Creek Cro	50305	Existing 10yr	9560.00	96.94	109.05		109.46	0.001528	6.35	2533.37	1155.85	0.37
Conejo Creek Cro	50305	Existing 50yr	18292.00	96.94	110.30		110.78	0.001936	7.77	4438.16	1848.80	0.42
Conejo Creek Cro	50305	Existing 500yr	36469.00	96.94	111.90		112.40	0.001956	8.58	7713.64	2165.98	0.43
Conejo Creek Cro	50231	Existing 10yr	9560.00	96.28	108.98		109.31	0.001469	5.87	2699.33	1306.48	0.35
Conejo Creek Cro	50231	Existing 50yr	18292.00	96.28	110.18		110.60	0.001915	7.31	4735.35	2029.04	0.41
Conejo Creek Cro	50231	Existing 500yr	36469.00	96.28	111.79		112.20	0.001793	7.82	8247.85	2404.45	0.41
Conejo Creek Cro	50143	Existing 10yr	9560.00	97.10	108.81		109.16	0.001781	6.35	2776.34	1503.24	0.39

HEC-RAS Plan: CorEff_Steady River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	50143	Existing 50yr	18292.00	97.10	110.07		110.39	0.001736	6.89	5225.86	2228.67	0.39
Conejo Creek Cro	50143	Existing 500yr	36469.00	97.10	111.69		112.01	0.001486	7.07	8979.23	2430.49	0.37
Conejo Creek Cro	49815	Existing 10yr	9560.00	95.59	108.45	107.37	108.68	0.001007	5.06	3538.26	1968.11	0.30
Conejo Creek Cro	49815	Existing 50yr	18292.00	95.59	109.69	108.15	109.92	0.001052	5.63	6075.56	2620.16	0.31
Conejo Creek Cro	49815	Existing 500yr	36469.00	95.59	111.33	109.63	111.59	0.001004	6.07	10016.02	2930.75	0.31
Conejo Creek Cro	49746	Existing 10yr	9560.00	95.87	108.38	105.16	108.61	0.000970	5.02	3564.59	2471.06	0.29
Conejo Creek Cro	49746	Existing 50yr	18292.00	95.87	109.63	108.08	109.85	0.001000	5.54	6150.54	2974.07	0.30
Conejo Creek Cro	49746	Existing 500yr	36469.00	95.87	111.27	109.54	111.53	0.000981	6.05	9998.60	3270.88	0.31
Conejo Creek Cro	49667	Existing 10yr	9560.00	96.05	108.29	104.80	108.53	0.000924	5.04	3582.10	2313.83	0.29
Conejo Creek Cro	49667	Existing 50yr	18292.00	96.05	109.56	108.34	109.78	0.000937	5.51	6284.81	3042.98	0.29
Conejo Creek Cro	49667	Existing 500yr	36469.00	96.05	111.21	109.48	111.47	0.000937	6.05	10089.07	3281.84	0.30
Conejo Creek Cro	49405	Existing 10yr	9560.00	95.70	107.98	107.03	108.25	0.001211	5.22	3337.47	2240.00	0.32
Conejo Creek Cro	49405	Existing 50yr	18292.00	95.70	109.31	107.90	109.52	0.001017	5.29	6222.29	2976.09	0.30
Conejo Creek Cro	49405	Existing 500yr	36469.00	95.70	110.97	109.20	111.21	0.000971	5.75	10060.47	3212.84	0.30
Conejo Creek Cro	49043	Existing 10yr	9560.00	95.37	107.71	104.52	107.86	0.000788	4.23	3810.44	2365.13	0.26
Conejo Creek Cro	49043	Existing 50yr	18292.00	95.37	109.00	107.18	109.17	0.000872	4.90	6879.42	2947.70	0.28
Conejo Creek Cro	49043	Existing 500yr	36469.00	95.37	110.69	108.70	110.88	0.000793	5.20	11186.58	3026.30	0.27
Conejo Creek Cro	48736	Existing 10yr	9560.00	94.80	107.64	100.90	107.71	0.000272	2.45	5779.59	2615.37	0.15
Conejo Creek Cro	48736	Existing 50yr	18292.00	94.80	108.89	102.84	108.98	0.000347	3.00	9074.30	2977.81	0.17
Conejo Creek Cro	48736	Existing 500yr	36469.00	94.80	110.55	105.93	110.69	0.000420	3.68	13682.59	3044.79	0.20
Conejo Creek Cro	48408	Existing 10yr	9560.00	94.38	107.49		107.59	0.000408	2.93	4659.39	2089.86	0.18
Conejo Creek Cro	48408	Existing 50yr	18292.00	94.38	108.71		108.84	0.000531	3.69	7549.46	2508.21	0.22
Conejo Creek Cro	48408	Existing 500yr	36469.00	94.38	110.34		110.52	0.000650	4.55	11911.23	2833.96	0.24
Conejo Creek Cro	48258	Existing 10yr	9560.00	94.40	107.40		107.51	0.000479	3.45	4539.41	2011.46	0.20
Conejo Creek Cro	48258	Existing 50yr	18292.00	94.40	108.61		108.75	0.000589	4.16	7245.41	2372.86	0.23
Conejo Creek Cro	48258	Existing 500yr	36469.00	94.40	110.21		110.41	0.000763	5.22	11395.23	2792.14	0.27
Conejo Creek Cro	48073	Existing 10yr	9560.00	94.49	107.32		107.43	0.000610	3.81	4482.59	2045.33	0.23
Conejo Creek Cro	48073	Existing 50yr	18292.00	94.49	108.52		108.65	0.000668	4.34	7159.07	2334.05	0.24
Conejo Creek Cro	48073	Existing 500yr	36469.00	94.49	110.11		110.30	0.000767	5.14	11072.91	2598.36	0.27

Proposed Model Results

Proposed (Unsteady 100yr): XS 54749 – XS 48073

HEC-RAS Plan: Proposed River: Reach #1 Reach: Conejo Creek Cro Profile: Max WS

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Max WS	22357.79	101.91	117.80		118.57	0.001435	7.05	3192.29	3033.54	0.37
Conejo Creek Cro	54668	Max WS	22389.34	101.91	117.88		117.94	0.000193	2.73	17525.59	3851.89	0.14
Conejo Creek Cro	54330	Max WS	22385.28	101.42	117.84		117.87	0.000158	2.47	20382.44	4565.21	0.12
Conejo Creek Cro	53914	Max WS	22359.25	101.11	117.77		117.82	0.000153	2.90	18502.32	3811.39	0.14
Conejo Creek Cro	53451	Max WS	22356.30	100.87	117.65		117.75	0.000230	3.60	14296.60	2688.79	0.17
Conejo Creek Cro	53187	Max WS	22352.96	100.39	117.52		117.71	0.000376	4.56	11088.70	3772.42	0.22
Conejo Creek Cro	53057	Max WS	22544.81	100.17	117.41	111.94	117.72	0.000540	5.57	9240.92	4319.96	0.27
Conejo Creek Cro	53000		Bridge									
Conejo Creek Cro	52939	Max WS	22544.81	99.97	117.34		117.53	0.000438	4.63	10693.86	4386.24	0.21
Conejo Creek Cro	52809	Max WS	22537.75	100.01	117.14		117.56	0.001036	6.79	8095.33	2188.44	0.32
Conejo Creek Cro	52620	Max WS	22537.18	99.72	116.78		117.35	0.001575	7.09	6000.30	1611.71	0.38
Conejo Creek Cro	52377	Max WS	22532.27	99.76	116.21		117.01	0.002284	9.17	5489.59	1465.53	0.47
Conejo Creek Cro	52059	Max WS	22531.62	99.65	115.39		116.37	0.002429	9.89	4935.81	1225.18	0.49
Conejo Creek Cro	51699	Max WS	22530.49	97.94	113.53	113.88	115.33	0.004177	12.92	2828.51	939.07	0.64
Conejo Creek Cro	51593	Max WS	22518.22	97.37	112.57	113.48	115.27	0.006156	15.35	2466.92	908.55	0.77
Conejo Creek Cro	51491	Max WS	22526.70	98.40	112.95		114.19	0.003981	11.18	3403.97	1186.51	0.60
Conejo Creek Cro	51231	Max WS	22526.42	98.04	112.46		113.21	0.002387	8.88	4217.70	1298.47	0.47
Conejo Creek Cro	50917	Max WS	22523.99	97.68	111.71		112.42	0.002845	9.07	4371.90	1607.80	0.51
Conejo Creek Cro	50597	Max WS	22523.02	97.30	111.17		111.63	0.001906	7.48	5364.00	1925.84	0.42
Conejo Creek Cro	50305	Max WS	22521.41	96.94	110.12		111.02	0.003527	10.37	4117.89	1720.84	0.57
Conejo Creek Cro	50231	Max WS	22511.45	96.28	109.90		110.75	0.003822	10.13	4195.38	1908.33	0.58
Conejo Creek Cro	50143	Max WS	22469.61	97.10	109.68		110.43	0.003968	10.13	4373.08	2122.51	0.59
Conejo Creek Cro	49815	Max WS	22431.84	95.58	109.29		109.53	0.000485	3.73	7779.55	2439.43	0.21
Conejo Creek Cro	49746	Max WS	22431.65	95.90	109.35		109.40	0.000088	1.62	14777.78	3086.35	0.09
Conejo Creek Cro	49667	Max WS	22431.59	96.04	109.35		109.38	0.000068	1.41	17193.53	3414.16	0.08
Conejo Creek Cro	49405	Max WS	22431.33	95.74	109.34		109.37	0.000047	1.16	19053.27	3419.51	0.06
Conejo Creek Cro	49043	Max WS	22430.74	95.35	109.33		109.35	0.000034	0.98	20479.53	3327.33	0.05
Conejo Creek Cro	48736	Max WS	22430.07	94.78	109.31		109.34	0.000041	1.02	19148.13	3272.12	0.06
Conejo Creek Cro	48408	Max WS	22428.99	94.38	109.17		109.31	0.000452	3.54	9063.49	2621.79	0.20
Conejo Creek Cro	48258	Max WS	22424.95	94.40	109.03		109.18	0.000635	4.44	8244.02	2437.98	0.24
Conejo Creek Cro	48073	Max WS	22424.71	94.49	108.90		109.04	0.000723	4.63	8048.93	2427.97	0.25

Proposed (Steady 10yr, 50yr, 500yr): XS 54749 – XS 48073

HEC-RAS Plan: Proposed_10_50_500 River: Reach #1 Reach: Conejo Creek Cro

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	54749	Existing 10yr	9563.00	101.91	114.97	107.54	115.22	0.000552	3.97	2409.40	2257.89	0.22
Conejo Creek Cro	54749	Existing 50yr	18298.00	101.91	117.35	109.98	117.91	0.001102	6.01	3057.92	2969.64	0.32
Conejo Creek Cro	54749	Existing 500yr	36481.00	101.91	120.34	113.82	120.41	0.000220	3.15	23370.89	3490.95	0.15
Conejo Creek Cro	54668	Existing 10yr	9563.00	101.91	115.04		115.10	0.000196	2.35	8880.12	3039.40	0.13
Conejo Creek Cro	54668	Existing 50yr	18298.00	101.91	117.59		117.62	0.000141	2.29	17613.88	3773.18	0.12
Conejo Creek Cro	54668	Existing 500yr	36481.00	101.91	120.34		120.38	0.000154	2.73	28884.57	4484.65	0.13
Conejo Creek Cro	54330	Existing 10yr	9563.00	101.42	114.99	108.03	115.03	0.000171	2.17	9971.09	3327.23	0.12
Conejo Creek Cro	54330	Existing 50yr	18298.00	101.42	117.55	112.74	117.58	0.000122	2.14	19261.70	3835.13	0.11
Conejo Creek Cro	54330	Existing 500yr	36481.00	101.42	120.29	114.00	120.33	0.000134	2.58	30413.82	4251.09	0.12
Conejo Creek Cro	53914	Existing 10yr	9563.00	101.11	114.92	107.83	114.97	0.000135	2.32	9783.83	2723.14	0.13
Conejo Creek Cro	53914	Existing 50yr	18298.00	101.11	117.49	112.31	117.53	0.000118	2.51	17572.72	3326.66	0.12
Conejo Creek Cro	53914	Existing 500yr	36481.00	101.11	120.21	113.95	120.27	0.000148	3.20	27340.61	3872.37	0.14
Conejo Creek Cro	53451	Existing 10yr	9563.00	100.87	114.82	107.52	114.89	0.000181	2.72	7528.80	2073.21	0.15
Conejo Creek Cro	53451	Existing 50yr	18298.00	100.87	117.39	111.85	117.46	0.000174	3.09	13586.68	2626.38	0.15
Conejo Creek Cro	53451	Existing 500yr	36481.00	100.87	120.08	114.04	120.18	0.000227	3.99	21589.63	3225.81	0.18
Conejo Creek Cro	53187	Existing 10yr	9563.00	100.39	114.70	107.40	114.83	0.000281	3.36	5361.32	1626.13	0.18
Conejo Creek Cro	53187	Existing 50yr	18298.00	100.39	117.25	111.04	117.39	0.000285	3.92	10446.53	2340.17	0.19
Conejo Creek Cro	53187	Existing 500yr	36481.00	100.39	119.92	114.52	120.10	0.000349	4.91	17574.79	2894.46	0.22
Conejo Creek Cro	53057	Existing 10yr	9560.00	100.17	114.58	106.98	114.77	0.000353	3.86	4282.43	1346.93	0.21
Conejo Creek Cro	53057	Existing 50yr	18292.00	100.17	117.09	110.30	117.32	0.000403	4.74	8550.11	2132.84	0.23
Conejo Creek Cro	53057	Existing 500yr	36469.00	100.17	119.75	115.14	120.02	0.000481	5.85	15306.43	2826.94	0.26
Conejo Creek Cro	53000	Bridge										
Conejo Creek Cro	52939	Existing 10yr	9560.00	99.97	114.53	107.16	114.63	0.000251	3.03	5478.47	1422.36	0.16
Conejo Creek Cro	52939	Existing 50yr	18292.00	99.97	117.00	108.93	117.14	0.000336	3.99	9924.71	2210.89	0.19
Conejo Creek Cro	52939	Existing 500yr	36469.00	99.97	119.62	112.07	119.81	0.000433	5.07	16596.61	2735.84	0.22
Conejo Creek Cro	52809	Existing 10yr	9560.00	100.01	113.94	108.57	114.44	0.001161	6.02	2588.66	1174.20	0.33
Conejo Creek Cro	52809	Existing 50yr	18292.00	100.01	116.65	111.79	117.01	0.000889	6.14	7061.08	2029.47	0.30
Conejo Creek Cro	52809	Existing 500yr	36469.00	100.01	119.37	116.53	119.70	0.000858	6.83	13574.26	2635.66	0.30
Conejo Creek Cro	52620	Existing 10yr	9560.00	99.72	113.71		114.18	0.001572	5.65	2193.46	864.41	0.36
Conejo Creek Cro	52620	Existing 50yr	18292.00	99.72	116.33		116.80	0.001321	6.31	5285.56	1507.77	0.35
Conejo Creek Cro	52620	Existing 500yr	36469.00	99.72	118.92		119.47	0.001441	7.66	10120.67	2158.57	0.38

HEC-RAS Plan: Proposed_10_50_500 River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	52377	Existing 10yr	9560.00	99.76	113.12		113.73	0.001961	6.99	2291.17	700.36	0.41
Conejo Creek Cro	52377	Existing 50yr	18292.00	99.76	115.71		116.38	0.001912	8.16	4810.37	1303.92	0.42
Conejo Creek Cro	52377	Existing 500yr	36469.00	99.76	118.21		118.99	0.002212	10.00	8890.78	1913.73	0.47
Conejo Creek Cro	52059	Existing 10yr	9560.00	99.65	112.59		113.19	0.001655	6.93	2361.17	702.14	0.39
Conejo Creek Cro	52059	Existing 50yr	18292.00	99.65	115.12		115.84	0.001804	8.40	4613.22	1152.65	0.42
Conejo Creek Cro	52059	Existing 500yr	36469.00	99.65	116.83		118.19	0.003351	12.47	7002.31	1623.87	0.58
Conejo Creek Cro	51699	Existing 10yr	9560.00	97.94	111.14	107.92	112.34	0.002839	9.28	1341.00	406.23	0.51
Conejo Creek Cro	51699	Existing 50yr	18292.00	97.94	113.66	112.99	114.93	0.002876	10.79	2952.90	1054.88	0.53
Conejo Creek Cro	51699	Existing 500yr	36469.00	97.94	115.50	115.50	116.86	0.003386	12.79	5364.33	1479.75	0.59
Conejo Creek Cro	51593	Existing 10yr	9560.00	97.37	110.81	107.58	112.00	0.002761	9.29	1382.36	462.09	0.50
Conejo Creek Cro	51593	Existing 50yr	18292.00	97.37	112.89	112.89	114.33	0.003331	11.48	2781.23	1018.81	0.57
Conejo Creek Cro	51593	Existing 500yr	36469.00	97.37	114.78	114.78	116.20	0.003618	13.12	5135.55	1358.26	0.60
Conejo Creek Cro	51491	Existing 10yr	9560.00	98.40	110.74		111.62	0.002982	8.29	1592.14	580.21	0.50
Conejo Creek Cro	51491	Existing 50yr	18292.00	98.40	112.42	111.77	113.53	0.003588	10.26	2843.57	953.65	0.57
Conejo Creek Cro	51491	Existing 500yr	36469.00	98.40	114.29		115.52	0.003971	12.08	5233.95	1484.79	0.61
Conejo Creek Cro	51231	Existing 10yr	9560.00	98.04	110.56		110.97	0.001377	5.94	2351.82	766.59	0.35
Conejo Creek Cro	51231	Existing 50yr	18292.00	98.04	112.08		112.70	0.002008	7.95	3749.50	1185.18	0.43
Conejo Creek Cro	51231	Existing 500yr	36469.00	98.04	113.62		114.55	0.002913	10.49	5988.35	1701.98	0.53
Conejo Creek Cro	50917	Existing 10yr	9560.00	97.68	109.84		110.41	0.002244	7.02	2018.60	772.75	0.43
Conejo Creek Cro	50917	Existing 50yr	18292.00	97.68	111.33		111.98	0.002608	8.46	3771.37	1476.51	0.48
Conejo Creek Cro	50917	Existing 500yr	36469.00	97.68	112.82		113.57	0.002908	9.84	6299.70	1847.76	0.52
Conejo Creek Cro	50597	Existing 10yr	9560.00	97.30	109.49		109.81	0.001330	5.53	2693.68	1085.38	0.34
Conejo Creek Cro	50597	Existing 50yr	18292.00	97.30	110.89		111.29	0.001622	6.77	4839.68	1898.07	0.38
Conejo Creek Cro	50597	Existing 500yr	36469.00	97.30	112.33		112.81	0.001854	7.93	7637.85	2055.22	0.42
Conejo Creek Cro	50305	Existing 10yr	9560.00	96.94	108.79		109.33	0.001961	7.06	2257.95	1026.52	0.41
Conejo Creek Cro	50305	Existing 50yr	18292.00	96.94	109.96		110.67	0.002718	9.01	3860.50	1689.32	0.50
Conejo Creek Cro	50305	Existing 500yr	36469.00	96.94	111.23		112.08	0.003397	10.89	6286.94	2055.77	0.57
Conejo Creek Cro	50231	Existing 10yr	9560.00	96.28	108.69		109.14	0.001956	6.62	2369.38	1063.65	0.40
Conejo Creek Cro	50231	Existing 50yr	18292.00	96.28	109.77	108.91	110.41	0.002877	8.70	3940.58	1812.99	0.50
Conejo Creek Cro	50231	Existing 500yr	36469.00	96.28	110.98		111.74	0.003480	10.38	6415.28	2157.53	0.56
Conejo Creek Cro	50143	Existing 10yr	9560.00	97.10	108.14	108.14	108.88	0.003579	8.52	1943.57	1095.03	0.54
Conejo Creek Cro	50143	Existing 50yr	18292.00	97.10	109.21	109.21	110.06	0.004361	10.26	3467.64	1805.79	0.61

HEC-RAS Plan: Proposed_10_50_500 River: Reach #1 Reach: Conejo Creek Cro (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Conejo Creek Cro	50143	Existing 500yr	36469.00	97.10	110.70		111.37	0.003445	10.13	6644.16	2272.94	0.56
Conejo Creek Cro	49815	Existing 10yr	9560.00	95.58	107.54		107.67	0.000222	2.21	4347.14	1511.24	0.14
Conejo Creek Cro	49815	Existing 50yr	18292.00	95.58	108.78		109.00	0.000428	3.38	6595.81	2185.14	0.19
Conejo Creek Cro	49815	Existing 500yr	36469.00	95.58	110.53		110.75	0.000767	5.07	11010.18	2798.60	0.27
Conejo Creek Cro	49746	Existing 10yr	9560.00	95.90	107.61		107.63	0.000034	0.88	10115.50	2167.42	0.05
Conejo Creek Cro	49746	Existing 50yr	18292.00	95.90	108.88		108.92	0.000072	1.41	13380.22	2918.29	0.08
Conejo Creek Cro	49746	Existing 500yr	36469.00	95.90	110.60		110.68	0.000134	2.15	18697.46	3223.34	0.11
Conejo Creek Cro	49667	Existing 10yr	9560.00	96.04	107.61		107.62	0.000027	0.79	11851.22	2532.00	0.05
Conejo Creek Cro	49667	Existing 50yr	18292.00	96.04	108.88		108.91	0.000056	1.24	15612.86	3288.16	0.07
Conejo Creek Cro	49667	Existing 500yr	36469.00	96.04	110.59		110.65	0.000102	1.87	21478.57	3471.92	0.10
Conejo Creek Cro	49405	Existing 10yr	9560.00	95.74	107.60		107.61	0.000018	0.63	13489.49	2762.26	0.04
Conejo Creek Cro	49405	Existing 50yr	18292.00	95.74	108.87		108.90	0.000038	1.02	17464.64	3412.04	0.06
Conejo Creek Cro	49405	Existing 500yr	36469.00	95.74	110.58		110.63	0.000075	1.59	23306.31	3454.73	0.08
Conejo Creek Cro	49043	Existing 10yr	9560.00	95.35	107.60		107.61	0.000011	0.50	14970.03	2858.76	0.03
Conejo Creek Cro	49043	Existing 50yr	18292.00	95.35	108.86		108.88	0.000026	0.85	18942.46	3310.07	0.05
Conejo Creek Cro	49043	Existing 500yr	36469.00	95.35	110.56		110.60	0.000057	1.39	24601.40	3385.51	0.07
Conejo Creek Cro	48736	Existing 10yr	9560.00	94.78	107.59		107.60	0.000014	0.54	13713.28	2894.65	0.03
Conejo Creek Cro	48736	Existing 50yr	18292.00	94.78	108.85		108.87	0.000032	0.88	17636.85	3249.55	0.05
Conejo Creek Cro	48736	Existing 500yr	36469.00	94.78	110.53		110.58	0.000068	1.43	23144.82	3319.07	0.08
Conejo Creek Cro	48408	Existing 10yr	9560.00	94.38	107.48		107.58	0.000284	2.48	4999.39	2083.38	0.15
Conejo Creek Cro	48408	Existing 50yr	18292.00	94.38	108.70		108.84	0.000422	3.31	7872.79	2504.92	0.19
Conejo Creek Cro	48408	Existing 500yr	36469.00	94.38	110.33		110.52	0.000567	4.28	12223.59	2828.83	0.23
Conejo Creek Cro	48258	Existing 10yr	9560.00	94.40	107.40		107.51	0.000479	3.45	4539.41	2011.46	0.20
Conejo Creek Cro	48258	Existing 50yr	18292.00	94.40	108.61		108.75	0.000589	4.16	7245.41	2372.86	0.23
Conejo Creek Cro	48258	Existing 500yr	36469.00	94.40	110.21		110.41	0.000763	5.22	11395.23	2792.14	0.27
Conejo Creek Cro	48073	Existing 10yr	9560.00	94.49	107.32		107.43	0.000610	3.81	4482.59	2045.33	0.23
Conejo Creek Cro	48073	Existing 50yr	18292.00	94.49	108.52		108.65	0.000668	4.34	7159.07	2334.05	0.24
Conejo Creek Cro	48073	Existing 500yr	36469.00	94.49	110.11		110.30	0.000767	5.14	11072.91	2598.36	0.27