



Monk & Associates
Environmental Consultants
1136 Saranap Avenue, Suite Q
Walnut Creek, California 94595
(925) 947-4867

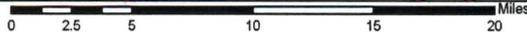
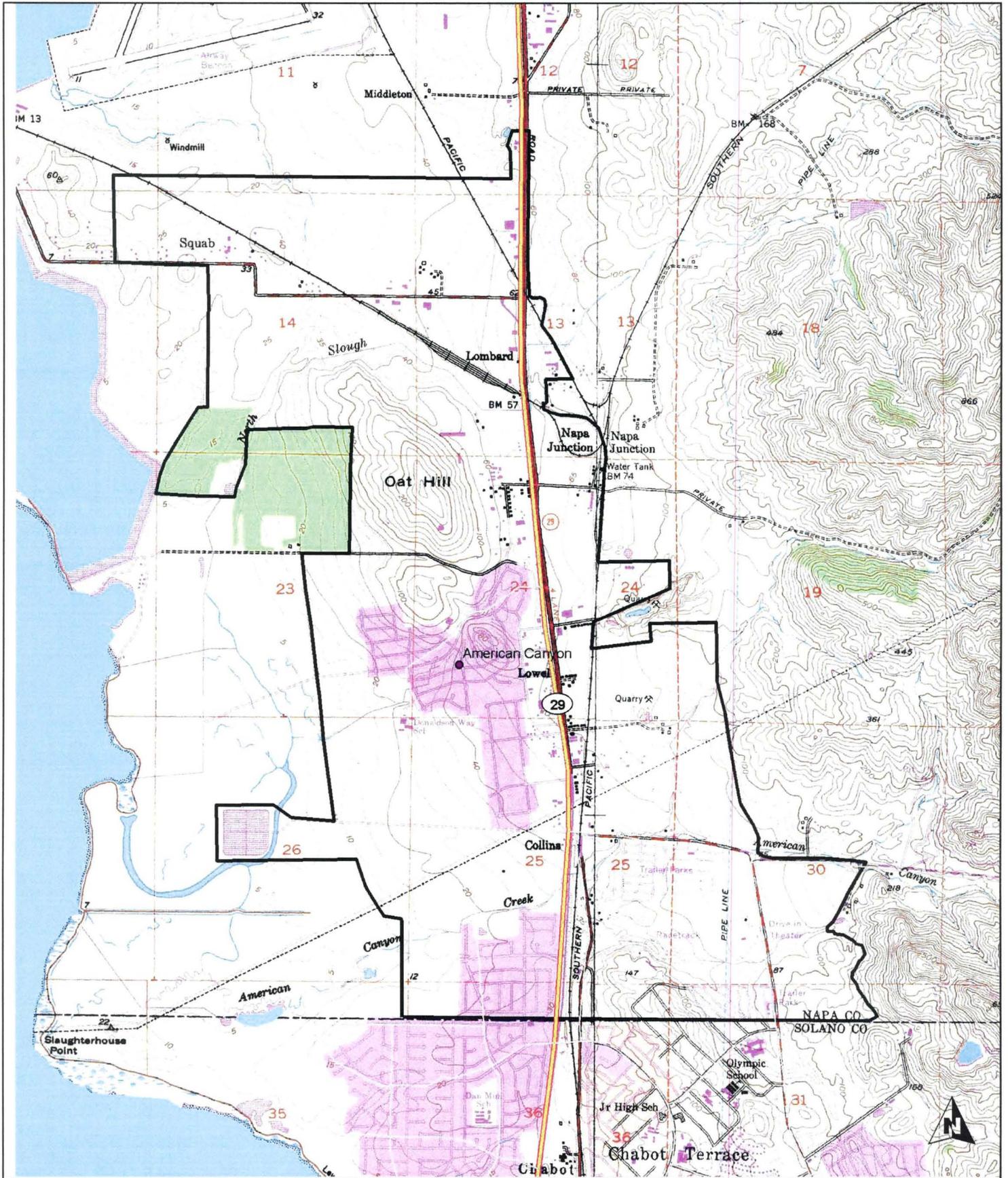


Figure 1. City of American Canyon
Creek Maintenance Project
Project Site Regional Map
Napa County, California



County: Napa
Map Preparation Date: September 29, 2009

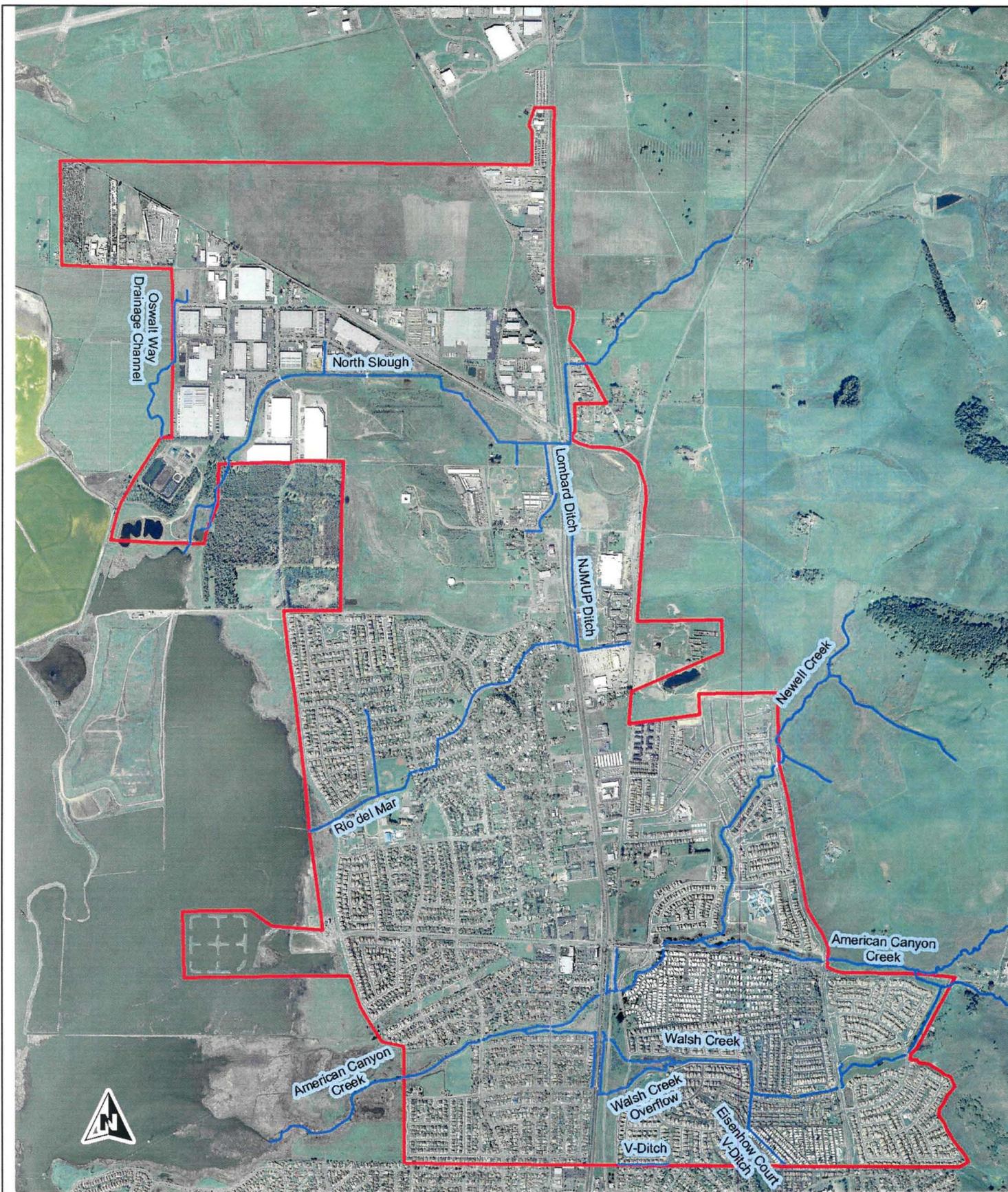


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Figure 2. City of American Canyon
 Creek Maintenance Project Locational Map
 Napa County, California

County: Napa
 7.5-Minute Cordelia and Cuttings Wharf quadrangles
 Topography Source: <http://gis.ca.gov>
 Map Preparation Date: September 29, 2009

— City Limits

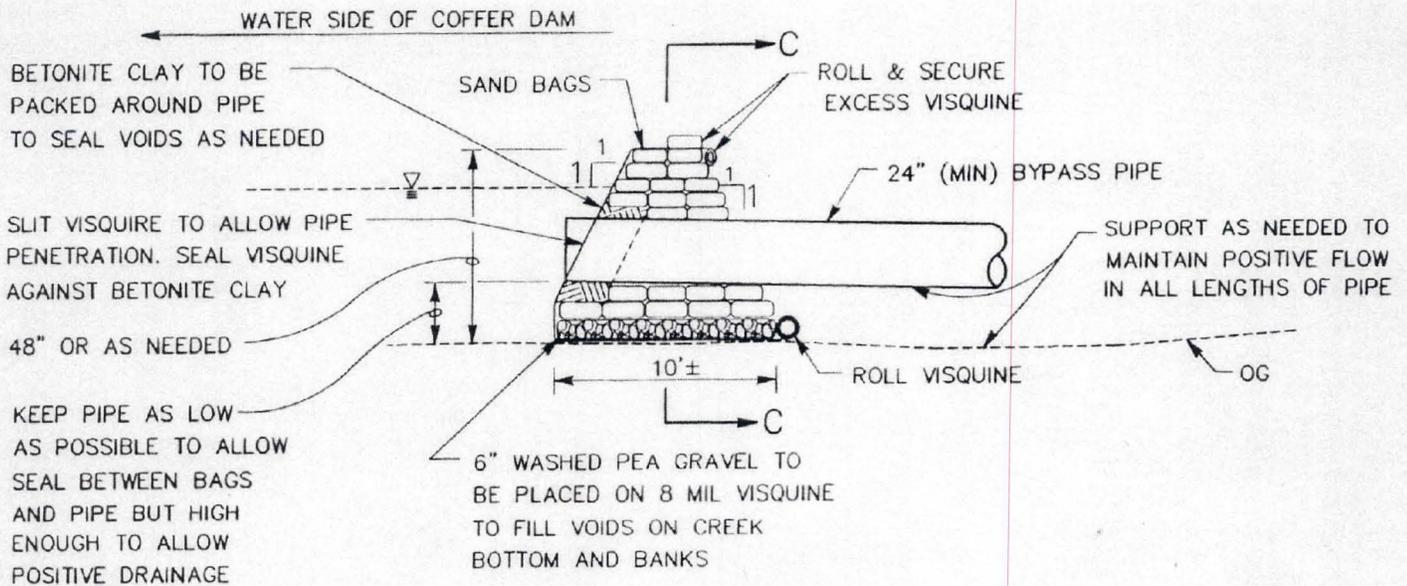


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Figure 3. Aerial Photograph of the City of American Canyon
Creek Maintenance Project Area
Napa County, California

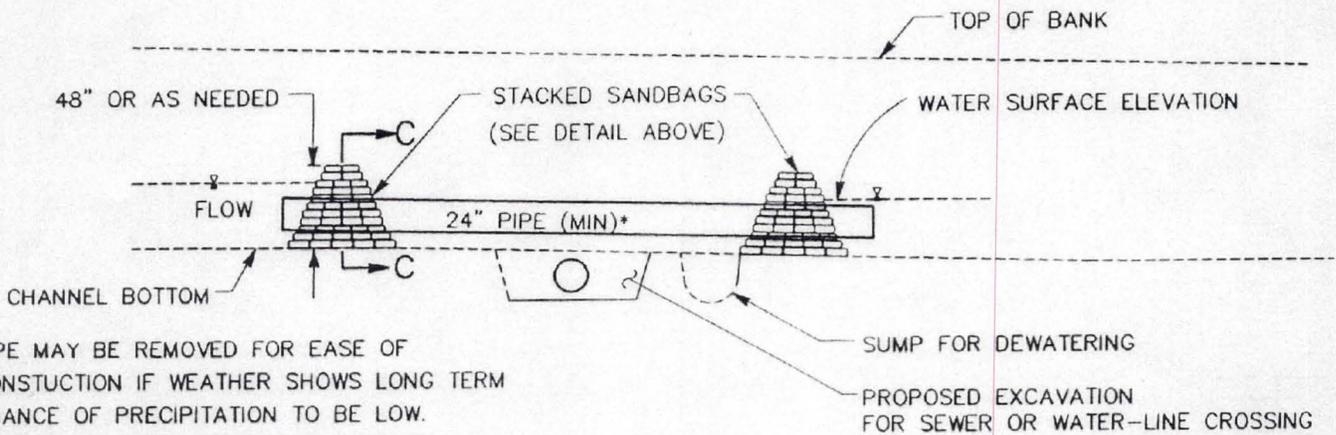
— City Limits

County: Napa
Aerial Photograph Source: Napa County
Map Preparation Date: September 29, 2009



COFFER DAM DETAIL

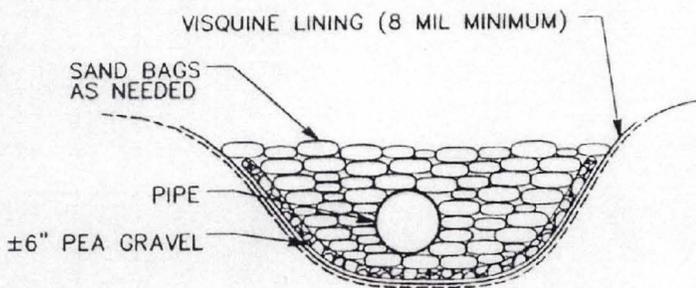
NTS



NOTE: PIPE MAY BE REMOVED FOR EASE OF CONSTRUCTION IF WEATHER SHOWS LONG TERM CHANCE OF PRECIPITATION TO BE LOW. PUMPING LOW FLOWS AROUND SITE ARE ALLOWED DURING THESE TIMES.

PROFILE

NTS



SECTION C-C

COFFER DAM CROSS
 NTS

- NOTE: 1. DEWATER USING PUMPS AS NEEDED. DISCHARGE SILTY WATER PER PERMIT REQUIREMENTS. ANY WATER REMOVED FROM WORK AREA MUST BE PUMPED TO THE TOP OF BANK AND DESILTED PRIOR TO RETURNING TO THE CREEK.
2. IF OVERLAPPING OF VISQUINE IS NEEDED, OVERLAP 4 FEET MINIMUM AND SEAL SEAM WITH APPROPRIATE SEALER OR METHODS.

MARK THOMAS & CO. INC.
 ENGINEERS ⊕ SURVEYORS ⊕ PLANNERS
 1243 ALPINE ROAD, SUITE 222
 WALNUT CREEK, CA 94596
 (925) 938-0383 JOB NO. 9901

| Table 1. Creek Maintenance Areas and Proposed Routine Maintenance Activities | | | | |
|---|-------------------------|--|---------------------------|---|
| Creek Name | Maintenance Area | Area Description | Responsible Entity | City Maintenance Activities |
| North Slough | A | Concrete-lined channel. Runs north to south on the east side of 29 | Caltrans | None proposed. Culvert is clean and channel does not have accumulated sediment at this time. |
| North Slough | B | Mitigation Area. Area runs east-west, located along North Slough. | R.H. Hess | Area will be maintained by R.H. Hess. Remove sediment at outlet of underground pipe from adj. landowner |
| North Slough | C | Mitigation Area. Area runs east-west, located on south side of North Slough. | ICC Stravinsky | None proposed. Area will be maintained by Stravinsky per Agreement. City Easement |
| North Slough | D | Mitigation Area. Area runs east-west, located on south side of North Slough. | ICC Stravinsky | None proposed. Area will be maintained by Stravinsky per Agreement. City Easement |
| North Slough | E | Mitigation Area. Area runs northeast-southwest, located on east side of North Slough. | ICC Stravinsky | None proposed. Area will be maintained by Stravinsky |
| North Slough | F | Flows through eucalyptus grove to WWTP outfall | City/County | None proposed at this time; however, this area is subject to flooding. |
| Rio Del Mar Channel | A | Flows west from 29 to north of 7/11 store. Begin maintenance at 7/11, go west/southwest, end at Los Altos. | AC | Sediment removal between Highway 29 and Eucalyptus. |

| Creek Name | Maintenance Area | Area Description | Responsible Entity | City Maintenance Activities |
|---------------------|------------------|---|--------------------|--|
| Rio Del Mar Channel | B | Begin maintenance at 240 Rio del Mar (church), end at Rio del Mar/W.Carolyn. | AC | Minor sediment removal between Carolyn and Gisela Drive. Banks and channel are barren |
| Rio Del Mar Channel | C | Begin maintenance at 337 Rio del Mar, go south across Joan Drive, go west, end at Donaldson. | AC | Minor sediment removal between Rio del Mar and Donaldson Way. A few willows need to be trimmed |
| Rio Del Mar Channel | D | Begin maintenance north of Middle School, go west, end at Wetlands Edge. | AC | Willows and channel vegetation needs to be trimmed |
| Newell Creek | A | Flows west from Biggs property, via culvert under Newell Drive. Begin maintenance west of Newell Drive to Shenandoah Drive. | AC | Mowing along creek to top-of-bank. Some willows need to be trimmed in channel. Remove sediments at Shenandoah Drive bridge. |
| Newell Creek | B | Begin maintenance west of Shenandoah south to Silver Oak Trail. | AC | Mowing along creek to top-of-bank. Some willows need to be trimmed in channel. Remove Tule and vegetation from detention basin (chemical and mechanical removal). Create a low-flow channel in basin. Remove sediments at Shenandoah Drive and Silver Oak Trail bridges. |
| Newell Creek | C | Begin maintenance south of Silver Oak Trail to confluence with American Canyon Creek. | AC | Mowing along creek to top-of-bank. Some willows and channel vegetation need to be trimmed in channel. Remove sediments at Silver Oak Trail bridge. |

| Creek Name | Maintenance Area | Area Description | Responsible Entity | City Maintenance Activities |
|-----------------------|------------------|---|-------------------------------|---|
| American Canyon Creek | A | Flows west from County line north of American Canyon Road. Begin maintenance west of Flosden Road to confluence with Newell Creek | AC | Mowing along creek to top-of-bank and around ponds. Some willows and channel vegetation need to be trimmed in channel. Remove sediment from under bridges (American Canyon Road and Flosden Road) |
| American Canyon Creek | B | Begin maintenance west of confluence with Newell Creek, end at culvert under American Canyon Road | AC and Standard Pacific Homes | Mowing along creek to top-of-bank and around ponds. Some willows and channel vegetation need to be trimmed in channel. Remove sediment from under bridge at American Canyon Rd. |
| American Canyon Creek | B2 | Small area west of channel and east of Silver Oak Trail | AC | Remove Tule and trim willows. Create low flow channel |
| American Canyon Creek | C | Flows south under American Canyon Road to culvert under Broadway to Veteran's Memorial Park | AC | Mowing along creek to top-of-bank . Some willows and channel vegetation need to be trimmed in channel. Remove sediments under bridges (American Canyon Creek and Broadway) |
| American Canyon Creek | D | Flows west from culverts under State Highway 29. Begin maintenance west of State Highway 29 to Danrose Drive. This maintenance area also includes a | AC | Mowing along both creeks to top-of-bank . Some willows and channel vegetation need to be trimmed in American Canyon Creek channel. Remove sediments under bridge at Danrose. |
| American Canyon Creek | E | Begin maintenance west of Danrose Drive to Elliot Drive. This maintenance area also includes the confluence of Walsh Creek and American Canyon Creek. | AC | Mowing along both creeks to top-of-bank . Some willows and channel vegetation need to be trimmed in American Canyon Creek channel. Remove sediment under bridges at Danrose and Elliot |

| Creek Name | Maintenance Area | Area Description | Responsible Entity | City Maintenance Activities |
|-----------------------|------------------|---|-------------------------|---|
| American Canyon Creek | F | Begin maintenance west of Elliot Drive, along northern boundary of Kimberly Park, end at Napa Meadows # 8 mitigation area. | AC | Mowing along northern portion of creek to top-of-bank . Some willows and channel vegetation need to be trimmed in creek channel. Remove sediment under bridge at Elliot |
| Walsh Creek | A | Flows south from American Canyon Creek at County line. Begin maintenance south of American Canyon Road along Mallard Ponds mitigation area, to Via Bellagio | AC | Mowing along creek to top-of-bank and around ponds. Vegetation control in pools, trim willows. |
| Walsh Creek | B | West of Via Bellagio to Flosden Road. | La Vigne | La Vigne is responsible to maintaining this area. City has easement through mitigation property. Remove sediment under bridge on the east side of Flosden. |
| Walsh Creek | C | Flosden to bend at Cartegena | Summer Canyon Creek HOA | None proposed. Howe & Associates is responsible to maintaining this area. |
| Walsh Creek | D | Maintenance along southern side of Cartegena | AC | Mowing along creek to top-of-bank. Remove sediment under bridge at Broadway |
| Walsh Creek | E | Begin maintenance west of Broadway as it flows through Veteran's Memorial Park. | AC | Mowing along creek to top-of-bank. Remove sediment under bridge at Broadway |

| Creek Name | Maintenance Area | Area Description | Responsible Entity | City Maintenance Activities |
|---|------------------|--|--------------------|--|
| Walsh Creek Overflow Channel | | Southern branch of Walsh Creek | | Create a low flow channel in the Montevino LLC detention basin. Remove Sediment along channel between Broadway and railroad tracks. Create low-flow channel in basin |
| Tapa Junction (Mixed Use Development NJMUD) Ditch | | Runs north-south along State Highway 29, west of Walmart, to Main Street, flows west into Rio del Mar channel. | AC | Vegetation control in ditch |
| Eisenhower Court V Ditch | | | AC | Mowing along both side of ditch to top-of-bank. |
| Oswalt Way Drainage Channel | | Area runs north-south, located on west side of 205 Oswalt Way to west side of 105 Mezetta Court, west border is vineyard. Continues to the south in natural creek bed. | AC | Vegetation control in ditch |
| Channel east side of Morrow Crane | | | AC | Vegetation control in ditch |

Table 2. Sediment Removal Projects

| Sediment Removal Area | Length | Width | Sq.Ft. | Depth (in Inches) | Cubic Yards |
|--|---------------|--------------|---------------|------------------------------|--------------------|
| Lombard Ditch- North | 872 | 6 | 5,232 | 5 | 80.7 |
| Lombard Ditch- South | 441 | 6 | 2,646 | 1 | 8.2 |
| Rio del mar (A) | 125 | 11 | 1,375 | 4 | 17.0 |
| American Canyon Rd SE City limits-1- North | 15 | 22 | 330 | 2 | 2.0 |
| American Canyon Rd SE City limits-2 | 8 | 17 | 136 | 2 | 0.8 |
| American Canyon/Flosden Rd. -East | 23 | 18 | 414 | 2 | 2.6 |
| American Canyon/Flosden Rd. -West | 22 | 18 | 396 | 2 | 2.4 |
| Broadway (C) West Side | 30 | 19 | 570 | 4 | 7.0 |
| Broadway (C) East Side | 36 | 24 | 864 | 4 | 10.7 |
| Walsh Creek/Broadway- East | 12 | 10 | 120 | 2 | 0.7 |
| Walsh Creek/Broadway- West | 12 | 10 | 120 | 2 | 0.7 |
| Walsh Creek Overflow- West | 300 | 1 | 300 | 3 | 2.8 |
| Walsh Creek Overflow- East | 23 | 12 | 276 | 3 | 2.6 |
| Walsh Creek/Danrose Dr. -West | 354 | 10 | 3,540 | 2 | 21.9 |
| Walsh Creek/Danrose Dr. -East | 706 | 10 | 7,060 | 2 | 43.6 |
| American Canyon Creek/Danrose Dr. -North | 57 | 113 | 6,441 | 4 | 79.5 |
| American Canyon Creek/Danrose Dr. -South | 20 | 97 | 1,940 | 4 | 24.0 |
| American Canyon Creek/Elliot Drive -West | 67 | 58 | 3,886 | 3 | 36.0 |
| American Canyon Creek/Elliot Drive -East | 83 | 51 | 4,233 | 3 | 39.2 |
| American Canyon Creek/ American Canyon Rd | 20 | 27 | 540 | 3 | 5.0 |
| American Canyon Creek/ American Canyon Rd | 17 | 48 | 816 | 3 | 7.6 |
| Newell Creek/Newell Dr. (A) | 55 | 38 | 2,090 | 2 | 12.9 |
| Newell Creek/Shenandoah Dr. (A) | 38 | 14 | 532 | 2 | 3.3 |
| Newell Creek/Shenandoah Dr. (B) | 29 | 14 | 406 | 2 | 2.5 |
| Newell Creek/Silver Oak Trail (B) | 10 | 41 | 410 | 2 | 2.5 |
| Newell Creek/Silver Oak Trail (C) | 14 | 37 | 518 | 2 | 3.2 |
| Walsh Creek/Flosden Rd.- East Side | 24 | 19 | 456 | 3 | 4.2 |
| Watson ln/Paoli Loop Rd ditch | 391 | 3 | 1,173 | 1 | 3.6 |
| Wilson/Carolyn ditch | 491 | 10 | 4,910 | 1 | 15.2 |
| Paoli/Broadway | 331 | 3 | 993 | 1 | 3.1 |
| Rio del Mar/Rio Grande | 312 | 8 | 2,496 | 1 | 7.7 |
| Totals | 4,938 | | 55,219 | | 453.1 |