INDIVIDUAL WATER QUALITY ASSESSMENT REPORT

Site Name/Facility:	Tripp Court and Industrial Court Channels
Master Program Map No.:	06, 06a
Date:	April 3, 2015
Civil Engineer (name, company, phone number)**:**	N/A
Register Civil Engineer Number & Expiration Date (place stamp here)**:**	N/A

Instructions: This form must be completed for each facility prior to the completion of the Individual Maintenance Plan and prior to any work being conducted in the facility. Attach additional sheets if needed.

EXISTING CONDITIONS

The site of the emergency maintenance is within the Tripp Court (Map 6) and Industrial Court (Map 6a) channels. The Tripp Court channel is between Carmel Mountain Road to the north, Sorrento Valley Road to the west, Industrial Court to the south, and Interstate 5 to the east. The Industrial Court channel is between Tripp Court to the north, Sorrento Valley Road to the west, and Interstate 5 to the east.

The emergency maintenance for the Tripp Court channel was performed with a Bobcat, loader, Gradall, and vactors. The emergency maintenance for the Industrial Court channel was performed with a Bobcat, Gradall, and vactors. Maintenance for both channels was performed between September 14 and 24, 2010.

To control erosion for both channels, gravel bags and a silt fence were placed at the upstream and downstream ends of the facility to isolate the maintenance area, and portable pumps and vactors were used to pump water from the maintenance area.

Approximately 489 tons of sediment, trash and vegetation were removed from both channels combined.

According to the Individual Hydrologic and Hydraulic Assessment Report (IHHA) for Tripp Court Channel, the lower portion of the channel (Map 6) does not have capacity for the 100-year storm event. As such, it was determined that maintenance should only occur within the downstream portion of the channel (approximately 900 feet) and within the culvert crossing. Please refer to the IMP for the limits of maintenance and additional maintenance notes.

Based on the IHHA for Map Number 6a, it was determined that maintenance does not need to be performed from bank to bank, but rather the maintenance can be confined to the channel bottom. Furthermore, it was determined that there is a significant benefit if the maintenance involves the removal of both sediment and vegetation. Sediment was removed for a distance of 300 linear feet within this length, 50 linear feet of vegetation was removed. Please refer to the IMP for the limits of maintenance and additional maintenance notes.

Downstream impacts from increased erosion and sedimentation would not be expected to occur as a result of the maintenance for either channel. In fact, the maintenance removed sediment that could have potentially been transported further downstream by runoff. In addition, BMPs such as gravel bags, street sweepers, and vactors were used to control for erosion. Increases in downstream water-borne pollutants would also not be expected. The relatively short length of channel and associated vegetation does not offer substantial capacity to remove pollutants from storm water runoff.

As a result of all of these factors, a water quality assessment was not conducted nor was it considered necessary.

Description of creek/channel geometry (length, width, and depth):

N/A

Description of Sediment Sampling Activities (location(s), depth, shipment/deliverer to laboratory(s)):

N/A

Note: Attach Chain of Custody Sheet(s), Table of Chemical Analysis Results, and Laboratory Sieve Analysis Results

Description of Flow Measurement Activities (location(s) and equipment):

N/A

Note: Attach Field Notes and Model Calculation Worksheets

Description of Volume Measurement Activities (interval, total number, equipment):

N/A

Description of Water Quality Sampling Activities (location(s), shipment/delivery to laboratory(s)):

N/A

Description of Wetland Assessment (Existing) Activities (personnel, general conditions):

N/A

Description of Wetland Assessment (Recovery) Activities (personnel, general conditions):

N/A

Sediment Pollutant Loading Estimates:

N/A

MAINTENANCE IMPACTS

Evaluation of Benefits / Impacts:
Are there constituents that have potential impacts greater than benefits?
Yes ☐ No ☐
If so, identify constituents here and compare measured concentrations to thresholds.

N/A

MITIGATION

If impacts are identified, list potential mitigation efforts (e.g., BMPs type(s) and number(s)) that may be implemented in the watershed:

N/A

ADDITIONAL COMMENTS OR RECOMMENDATIONS

LIST OF ATTACHMENTS (Check All That Apply):

- ✓ Site Photos
- ❑ Chain of Custody Sheet(s) for Sediment Sampling
- ❑ Analytical Results of Sediment Sample(s)
- ❑ Chain of Custody Sheet(s) for Water Column Sampling
- ❑ Analytical Results of Water Column Sample(s)
- ❑ Flow Measurement Model
- ❑ Volume Measurement Model (Existing Condition)
- ❑ Wetland Land Assessment Scoring Sheet (Existing Condition)
- ❑ Wetland Land Recovery Assessment Scoring Sheet (Maintained Storm water facility)
- ❑ Sieve Analysis Laboratory Results
- ❑ Sediment Pollutant Loading Model (Load Removal in Sediment)
- ❑ Potential Water Quality Impacts Model and Comparison to Benftits
- ❑ Potential Mitigation Efforts Model