



CITY of SARATOGA

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Incorporated October 22, 1956

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June 26, 2008

Jo Ann Cullom
Mail Stop 10B
C/O Caltrans – District 4
111 Grand Avenue
P.O. Box 23660
Oakland, CA 94623-0660

**RE: CML-5332-(012) “Joe’s Trail at Saratoga De Anza” Appendix J, Flood Plain
“7 Items to Be Evaluated” and Summary of Flood Plain Encroachment**

Dear Miss Jo Ann Cullom:

The attached is the response to “7 Items To Be Evaluated” from the Appendix J, Flood Plain. The person responsible for preparation of the Location Hydraulic Study is James Mc Carty, P.E. No. C62618 (see attachment). Also attached is the Summary of Plain Encroachment.

If you have any questions contact me at (408) 868-1218.

Sincerely,

Macedonio Nunez, P.E.
Associate Engineer
City of Saratoga – Public Works
E-Mail: mnunez@saratoga.ca.us

cc: John Cherbone, Public Works Director

Items To Be Evaluated

For all alternatives containing encroachments or which would support base flood plain development, the following seven items shall be evaluated commensurate with the significance of the risk or environmental impact:

1. The risk associated with implementation of the action.

The proposed project entails construction of a trail and bridge crossings over two creeks. In accordance with the Project Description, the bridges will be designed so that all bridge foundations would be constructed at least 6 feet from the top of the creek banks and no construction would occur within the creek channels. Based on calculations of water surface elevations during a 100-year storm and on Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) for Rodeo and Saratoga Creeks, the proposed bridge crossings are not expected to result in flood plain encroachment because the expected flood plain during the 100-year storm is within the banks of the creek. Therefore, since no project construction would take place within the creek channel and the flood plain is contained within the creek channel, there is no risk associated with implementation of the action.

2. The impacts on natural and beneficial flood plain values.

The proposed bridge crossings would not result in a change in flow in the creeks, encroachment of the flood plain, or support base flood plain development. Therefore, natural and beneficial flood plain values would be preserved and no impacts would result.

3. The support of probable incompatible flood plain development.

The proposed project entails construction of a trail and bridge crossings over two creeks. Therefore, implementation of the project would not support incompatible flood plain development.

4. The measures to minimize flood plain impacts associated with the action.

Because the expected flood plain during the 100-year storm is within the banks of the creek, no impacts to the flood plain are associated with implementation of the action. Because no impacts are anticipated, no measures are associated or required to minimize impacts. See also response to question 1.

5. The measures to restore and preserve the natural and beneficial flood plain values impacted by the action.

Because the proposed bridge crossings would not result in a change in flow in the creeks, encroachment of the flood plain or support base flood plain development, natural and beneficial flood plain values would be preserved. Therefore, because the project would not result in any impacts to natural and beneficial flood plain values, no measures are necessary to restore and preserve these values.

6. The practicability of alternatives to any significant encroachment.

Based on calculations of water surface elevations during a 100-year storm and on Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) for Rodeo and Saratoga Creeks, the proposed bridge crossings are not expected to result in flood plain encroachment because the expected flood plain during the 100-year storm is within the banks of the creek. Therefore, no alternatives to avoid encroachment are necessary.

7. The practicability of alternatives to any longitudinal encroachment.

Based on calculations of water surface elevations during a 100-year storm and on Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs) for Rodeo and Saratoga Creeks, the proposed bridge crossings are not expected to result in flood plain encroachment, longitudinal or otherwise, because the expected flood plain during the 100-year storm is within the banks of the creek. Therefore, no alternatives to avoid encroachment are necessary.

The person responsible for preparation of the Location Hydraulic Study is:

**James McCarty, P.E. No. C62618
BASELINE Environmental Consulting
(510) 420-8686
(see attached resume)**

JAMES MCCARTY

James McCarty has participated in the preparation of Environmental Impact Reports and Initial Studies, performed assessment of potential hydrological affects from residential, commercial, and industrial developments. He has conducted this work on behalf of the U.S. Army; U.S. Navy; Caltrans, municipalities throughout California; and private companies, including companies involved in heavy-machinery, semiconductor, food and beverage, and transportation industries. Mr. McCarty has worked with a variety of governmental agencies, including the California Water Quality Control Board, Department of Toxic Substances Control, and numerous Northern California counties and cities.

Mr. McCarty has evaluated the hydrological impacts from residential developments, commercial developments, and large public improvement projects. The evaluations include assessing the impacts to surface and groundwater from construction through operational phases. He is knowledgeable about stormwater runoff calculations related to development plans. He is experienced in using various hydrological models for predicting runoff from commercial or residential land developments. He has developed mitigation methods to reduce hydrological impacts from residential and commercial developments. He has also performed preliminary investigative studies of base floodplain encroachments and prepared Location Hydraulic Studies for Federally funded transportation projects.

B.S., Civil Engineering
California Polytechnic, 1995

PE No. C62618

40-hour OSHA Hazardous Waste Operations
and Emergency Response Training

15 years of experience

Mr. McCarty has experience in obtaining and overseeing the implementation of National Pollution Discharge Elimination System permits from the California Water Quality Control Boards.

Mr. McCarty also has experience in modeling contaminant fate and transport through groundwater based on soil or groundwater contaminant data. He has evaluated the results of both field sampling and modeling in terms of potential risk to human health using toxicity factors published by the Office of Environmental Health Hazard Assessment and Cal/EPA.

Mr. McCarty has prepared groundwater monitoring plans and collected field measurements for groundwater impact evaluations. He is familiar with the methods for assessing chemical concentrations in ground and surface waters for comparison against applicable standards.

Mr. McCarty has extensive experience in groundwater remediation. He is experienced in designing groundwater treatment systems, the managing and monitoring of groundwater treatment systems and he has performed feasibility studies, produced Remedial Design and Implementation Plans, and Remedial Action Plans for approval by the relevant regulatory agencies.

Attachment II

SUMMARY OF FLOOD PLAIN ENCROACHMENT

Dist. Co. Rte. _____

Fed. Proj. No. CML - 5332 - (012)

Bridge No. _____

Road _____

Limits _____

Flood Plain Description:

	===== YES === NO ==	=====
1. Is the proposed action a longitudinal encroachment of the base flood plain?	_____	<u>X</u>
2. Are the risks associated with the implementation of the proposed action significant?	_____	<u>X</u>
3. Will the proposed action support probable incompatible flood plain development?	_____	<u>X</u>
4. Are there significant impacts on natural and beneficial flood plain values?	_____	<u>X</u>
5. Routine construction procedures are required to minimize impacts on the flood plain. Are there special mitigation measures necessary to minimize impacts or restore and preserve natural and beneficial flood plain values? If yes, explain.	_____	<u>X</u>
6. Does the proposed action constitute a significant flood plain encroachment as defined in 23 CFR 650.	_____	<u>X</u>
7. Is the Location Hydraulic Study that documents the above answers on file in the agency's office? If not, explain.	<u>X</u>	_____

Prepared By: Macedonio Nunez
City of Saratoga
 Local Agency

6/26/08
~~6/26/08~~
 Date

Concurrence: _____
 Caltrans

 Date

 FHWA

 Date