CORPS OF ENGINEERS
U. S. ARMY

OPERATION AND MAINTENANCE MANUAL
MCCLURE CREEK, TEHAMA COUNTY

CLEARED FLOODWAY

V. S. ARMY ENGINEER DISTRICT
Corps of Engineers
Sacramento, California
May 73
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OPERATION AND MAINTENANCE MANUAL
McCLURE CREEK, TEHAMA COUNTY

CLEARED FLOODWAY

SECTION I

INTRODUCTION

1-01. Authorization. The flood-control improvement covered by this manual is a part of channel improvement on McClure Creek authorized by Section 2 of the Flood Control Act of 1937 as amended by Section 208 of the 1954 Flood Control Act.

1-02. Location. The McClure Creek Channel Clearing Project, as covered by this manual, is located in Tehama County. The clearing performed constitutes that part of the waterway of McClure Creek in the reach from a point about 0.7 mile downstream of Road 99M and to a point of about 1.0 mile upstream from Road 99M. The area is generally as shown on the Location Map, EXHIBIT A-1.

1-03. Description of the project works. The works covered by this manual consist of channel clearing and snagging of McClure Creek. The channel was cleared of all brush and floatable debris to a maximum width of 50 feet in an 8,700-foot reach. Any trees necessitating removal from within the channel had trunk diameters of less than 10 inches.

1-04. Construction Data and Contractor. Clearing necessary to bring the waterway area of McClure Creek to project standards in the reach described above was accomplished under the Channel Improvement Project for McClure Creek by Frank J. Fuller, Contract No. DACW05-72-C-0041 during the period from 16 November 1971 to 7 December 1971, Specification 1014-C, Drawing No. 50-6-4691, and by Gravelle & Gravelle Contract No. DACW05-73-C-0042, during the period from 16 October 1972 to 12 December 1972, Specification 1314, Drawing No. 50-6-4780.
SECTION II

LOCAL COOPERATION REQUIREMENTS

2-01. Requirements of Local Cooperation. Pursuant to the provisions of Section 205 of the 1948 Flood Control Act, as amended, local interests are required to furnish all lands, easements, rights-of-way, and relocations necessary for construction and subsequent maintenance and operation of the project works; to hold and save the United States free from damage; to operate and maintain the completed works at their own expense in accordance with prescribed rules and regulations; and to prevent future encroachment which might interfere with proper functioning of the project for flood control. Thus, the responsibilities to be fulfilled by local interests include the "a-b-c" requirements (i.e., those listed above) normally specified for local protection projects of the type described herein.

2-02. Assurances Provided by Local Interests. Section 12657 of the State Water Code states:

"12657. Except as otherwise provided in Chapters 1 and 2 of this part, the Reclamation Board shall give assurances satisfactory to the Secretary of Army that local cooperation required by Section 3 of the Act of Congress approved December 22, 1944 (Public, numbered 534, Seventy-eighth Congress, Second Session), and Section 2 of the Act of Congress approved August 18, 1941 (Public, numbered 228, Seventy-eighth Congress, First Session), will be furnished by the State in connection with the flood control projects authorized and adopted in Sections 12648, 12650, 12661, 12682, 12694 and 12696.5 and on any flood control projects on any stream flowing into or in the Sacramento Valley or in the San Joaquin Valley hereafter approved and authorized by Congress."

2-03. Acceptance by the State Reclamation Board. Responsibility for operating and maintaining the cleared portion of McClure Creek was officially accepted by the Reclamation Board of the State of California on 25 December 1972 as shown on the copy of the letter of acceptance dated 10 December 1972, see EXHIBIT D.
SECTION III

MAINTENANCE AND OPERATION - GENERAL PROCEDURE

3.01. Reference to Approved Regulations. This manual is submitted in accordance with provisions of Title 33 - Navigation and Navigable Waters, Chapter II, Corps of Engineers, Department of the Army, Part 208 - Flood Control Regulations, Maintenance and Operation of Flood Control Works, as of 1 January 1962, a copy of which is included as EXHIBIT A, Sheets 1 and 2.

3.02. Intent of Regulations. The general intent of the regulations approved by the Secretary of the Army is stated in paragraph 208.10(a)(1) as follows: "The structures and facilities constructed by the United States for local flood protection shall be continuously maintained in such a manner and operated at such times and for such periods as may be necessary to obtain the maximum benefits."

3.03. Purpose of this Manual. In view of the large number of local flood protection projects authorized by Congress and the repetitious nature of regulations to govern maintenance and operation of each individual project, and in order that local interests may be fully aware of the extent of the obligations assumed by them in furnishing assurances of local cooperation for projects to be constructed in the future, the general regulations described above were established by the Secretary of the Army. The general regulations approved by the Secretary of the Army, August 1944, were intended to be sufficiently broad in scope and general in nature as to be applicable to all flood-protection projects for which such regulations are required by law.

Section 208.10(a)(10) of the regulations read as follows: "The Department of the Army will furnish local interests with an Operation and Maintenance Manual for each completed project, or separate useful part thereof, to assist them in carrying out their obligations under this part." This manual has, therefore, been prepared to furnish local interests with information on the project works and advise as to the details of the operation and maintenance requirements applicable to this particular project, to state procedure required by the Department of the Army, and to include satisfactory methods of flood-fighting operations and emergency repairs. The project works are to be maintained and operated in accordance with the Flood Control Regulations referred to above and interpretations thereof contained herein.

3.04. Environmental Protection. It is the responsibility of the maintaining agency to comply with all State and Federal laws concerning environmental protection as related to any proposed maintenance work.
SECTION IV

FEATURES OF THE PROJECT SUBJECT TO FLOOD CONTROL REGULATIONS

4-01. Channel.

a. General. The channels within this project area are as described in paragraph 1-02 which covers the cleared channel of McClure Creek from a point about 0.7 mile downstream from Road 99W to a point about 1 mile upstream from Road 99W. The channel widths vary and are as shown on the drawings of EXHIBIT B. The maintenance and operation of the channel within this unit shall be limited to flood-control requirements as referred to below. In general, the channels shall be maintained to the approximate cleared condition that existed after completion of the contracts listed in paragraph 1-04 of this manual. The channels shall be maintained annually, or as required, by clearing all dense growth that has or will have a detrimental effect on the project works by restricting the passage of floodflows. Healthy large diameter trees left standing after completion of the contract listed in paragraph 1-04 shall not be removed during normal maintenance operations. All cleared floatable debris shall be burned to ashes or removed outside the project area prior to 1 November of each year.

b. For pertinent requirements of the Code of Federal Regulations see paragraph 208.10(g), EXHIBIT A and for other requirements see checklist, EXHIBIT C of this manual. Included as EXHIBIT F are photographs of the channel taken at varying intervals showing the condition of the stream after completion of the project work. It shall be the responsibility of the maintaining agency to maintain the channel floodway to the approximate condition shown in the photographs.
SECTION V
REPAIR OF DAMAGE TO PROJECT AREA AND
METHODS OF COMBATING FLOOD CONDITIONS

5-01. Repair of Damage. In the event excessive amounts of debris are deposited in the project area, whether due to flood conditions or other causes, and which may be beyond the capability of local interests to remove, the Superintendent (local representative appointed by the sponsoring agency) will contact a representative of the Department of Water Resources, State of California, who coordinates maintenance of project works on the Sacramento River Flood Control Project. The State representative will give assistance or advice, or will determine appropriate action to be taken.

5-02. Applicable methods of Combating Floods. For applicable methods of combating flood conditions, reference is made to paragraph 206.10(g)(2) of the Flood Control Regulations, EXHIBIT A.
EXHIBIT A

FLOOD CONTROL REGULATIONS
such improvements or alterations as authorized representatives shall have approved and shall be permitted within the limits which will adversely affect the "Superdrain," levee and embankments.

The District Engineer or his authorized representative shall be permitted to inspect and make necessary repairs, and to correct dangerous conditions disclosed by seepage, water levels, debris, and growth of vegetation, which may interfere with drainage, cause washout or damage to structures, or otherwise endanger the safety of the works. The District Engineer or his authorized representative during the period of construction, maintenance and operation of the works, shall have the right to stop and prevent all work, or any portion thereof, which may be detrimental to the works, and the owner shall be liable for any damages which may be caused thereby. The owner shall be responsible for the proper and efficient operation of the works after completion of the work. No work shall be started or continued unless the owner shall have written notice to the District Engineer or his authorized representative that the work is ready to be inspected and the District Engineer or his authorized representative shall be permitted to proceed with the inspection, and shall have the right to stop any work which he may determine as not being in proper order or not sufficiently protected to prevent its destruction by storms or floods or other causes.

A reserve sum shall be held to provide for the maintenance of the levee and embankments during the period of their existence, and for repairs as may be necessary. The maintenance of the levee and embankments shall be made by the owner of the lands and of the levee and embankments, and shall be done at the expense of the owner of the lands and of the levee and embankments. The owner shall be responsible for the proper and efficient operation of the works after completion of the work. No work shall be started or continued unless the owner shall have written notice to the District Engineer or his authorized representative that the work is ready to be inspected and the District Engineer or his authorized representative shall be permitted to proceed with the inspection, and shall have the right to stop any work which he may determine as not being in proper order or not sufficiently protected to prevent its destruction by storms or floods or other causes.

The owner shall be responsible for the proper and efficient operation of the works after completion of the work. No work shall be started or continued unless the owner shall have written notice to the District Engineer or his authorized representative that the work is ready to be inspected and the District Engineer or his authorized representative shall be permitted to proceed with the inspection, and shall have the right to stop any work which he may determine as not being in proper order or not sufficiently protected to prevent its destruction by storms or floods or other causes.
(2) Operation. Erection of such movable closure shall be started in sufficient time to permit completion before flood season, with the top of the structure information regarding the proper method and speed of construction. When structures are to be repaired, with an estimate

de the time required by an experienced crew to complete its erection with the use of predetermined

details. This procedure shall be followed to the extent possible. Exceptional conditions shall be made by the Superintendent to be certain that:

(b) Pipes, gates, operating mechanisms, riprap, and headwalls are in good condition;

(c) Label and outlet channels are open;

(d) Care is being exercised to prevent the accumulation of trash and debris near the banks. Riprap

(e) No parts are missing;

(f) Those large objects which cannot be excavated are in or adjacent to the structure, will be in place and will not obstruct the movement of the structure during flood seasons. Those objects which cannot be moved shall be made secure.

(3) Operation. Whenever high water conditions necessitate, all gates shall be

(a) Operated. Once high water conditions permit, all gates shall be

(b) Operated. Once high water conditions permit, all gates shall be

(c) Operated. Once high water conditions permit, all gates shall be

(d) Operated. Once high water conditions permit, all gates shall be

(e) Operated. Once high water conditions permit, all gates shall be

(f) Operated. Once high water conditions permit, all gates shall be

(g) Operated. Once high water conditions permit, all gates shall be

(h) Operated. Once high water conditions permit, all gates shall be

(4) Operation. During a flood season and parts shall not be removed

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<td>50-6-4691</td>
<td>Channel Improvement - McClure Creek, Tehama County, in one sheet</td>
</tr>
<tr>
<td>50-6-4780</td>
<td>Channel Improvement - McClure Creek, Tehama County, in one sheet</td>
</tr>
<tr>
<td>Item</td>
<td>Remarks</td>
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<tr>
<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>(a) Name of channel and location by stations</td>
<td></td>
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<tr>
<td>(b) Vegetal growth in channel</td>
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<td>(c) Debris and refuse in channel</td>
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<td>(d) New construction within right-of-way</td>
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<td>(e) Extent of aggradation or degradation</td>
<td></td>
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<tr>
<td>(f) Condition of low water crossings and access ramps</td>
<td></td>
</tr>
<tr>
<td>(g) Measures taken since last inspection</td>
<td></td>
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<tr>
<td>(h) Comments</td>
<td></td>
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</table>
INSTRUCTIONS FOR COMPLETING SHEET 1, EXHIBIT C

Item (a) Indicate station of observation obtained by pacing from nearest reference point.

Item (b) Note nature, extent, and size of vegetal growth within the limits of floodflow channel.

Item (c) Note nature and extent of debris and refuse that might cause clogging of the conduits of the irrigation intake works, fouling of the tainter gates, or the bridges over the channel.

Item (d) Report any construction along the cleared channel or above the project area that has come to the attention of the inspector and that might affect the functioning of the project.

Item (e) Indicate any change in grade or alignment of the channels, either by deposition of sediment or scour, that is noticeable by visual inspection. Estimate amount and extent.

Item (f) Indicate any change that has taken place in the riprap such as disintegration of the rock, erosion, or movement of the rock. Note the presence of vegetal growth through the riprap.

Item (g) Note any damage or settlement of the footings of the bridges. Indicate condition of wooden structures and if repainting is required. Indicate condition of bridge approaches, headwalls, and other appurtenances.

Item (h) Indicate maintenance measures that have been performed since the last inspection and their condition at time of this inspection.

Item (i) Record opinion, if any, of contributory causes for conditions observed, also any observations not covered under other columns.

NOTE: One copy of the Inspector's Report is to be mailed to the District Engineer immediately on completion, and one copy is to be attached to and submitted with the Superintendent's semi-annual report.
EXHIBIT D

LETTER OF ACCEPTANCE

BY THE STATE RECLAMATION BOARD
District Engineer  
Corps of Engineers  
U. S. Army  
650 Capitol Mall  
Sacramento, CA  95814

Refer to: 4130,70,406

Dear Sir:

Reference is made to your letter of December 12, 1972, concerning transfer to the State of California of the Channel Improvement Clearing Project, McClure Creek, Tehama County, in accordance with Specification Nos. 4314 and 1014C.

The Reclamation Board, at its meeting of December 15, 1972, formally accepted the above referred to work for operation and maintenance.

Sincerely yours,

A. E. McCollam  
Chief Engineer and  
General Manager

EXHIBIT D
EXHIBIT E

SUGGESTED SEMI-ANNUAL REPORT FORM
TO: The District Engineer
Sacramento District
Corps of Engineers
650 Capitol Mall
Sacramento, California 95814

Dear Sir:

The semi-annual report for the period (1 May 19__ to 31 October
19__) (1 November 19__ to 30 April 19__) on the McClure Creek Channel
Improvement Project is as follows:

a. The physical condition of the protective works is indicated
 by the inspector's report, copies of which are inclosed, and may be
 summarized as follows:

(Superintendent's summary of conditions)

It is our intention to perform the following maintenance work in
order to repair or correct the conditions indicated:

(Outline the anticipated maintenance operations for
the following 6 months.)

b. During this report period, major high water periods occurred
on the following dates:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Maximum Elevation at Road 99W Bridge (Estimated)</th>
</tr>
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<tbody>
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Comments on the behavior of the protective works during such
high water periods are as follows:

(Superintendent's log of flood observations)

During the high water stages when the water level reached a
height of about two feet below the bottom of stringers at Road 99W
Bridge or excess thereof (dates), it was necessary
to organize and carry out flood operations as follows:

(See Maintenance Manual ______________.)

EXHIBIT 2
Sheet 1 of 2
c. The inspections have indicated (no) or (the following) encroachments or trespasses upon the project right-of-way.

a. (No) (_________) permits have been issued for the (the following) improvements or construction within the project right-of-way.

Executed copies of the permit documents issued are transmitted for your files.

e. The status of maintenance measures, indicated in the previous semi-annual report as being required or as suggested by the representatives of the District Engineer, is as follows:

(Statement of maintenance operations, item by item with percent completion.)

f. The fiscal statement of the Superintendent's operations for the current report period is as follows:

<table>
<thead>
<tr>
<th>Labor</th>
<th>Material</th>
<th>Equipment</th>
<th>Overhead</th>
<th>Total</th>
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<tr>
<td>1. Inspection</td>
<td>2. Maintenance</td>
<td>3. Flood fighting operations</td>
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<tr>
<td>TOTAL</td>
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Respectfully submitted,

Superintendent of Works

EXHIBIT E
Sheet 2 of 2
EXHIBIT F
POST PROJECT PHOTOS
LOOKING UPSTREAM FROM END OF PROJECT
200 FEET ABOVE CENTRAL AVENUE

LOOKING DOWNSTREAM FROM ABOUT END OF PROJECT
200 FEET ABOVE CENTRAL AVENUE
LOOKING DOWNSTREAM FROM ABOUT 600 FEET BELOW CENTRAL AVENUE

LOOKING UPSTREAM FROM McCLURE AVENUE
LOOKING DOWNSTREAM FROM MCCLURE AVENUE

LOOKING UPSTREAM FROM ABOUT 900 FEET BELOW MCCLURE AVENUE

EXHIBIT F
Sheet 3 of 8
LOOKING DOWNSTREAM FROM ABOUT
1,000 FEET BELOW McCCLURE AVENUE

LOOKING DOWNSTREAM AT ROAD 95W BRIDGE
FROM ABOUT 600 FEET ABOVE BRIDGE

EXHIBIT F
Sheet 4 of 8
LOOKING UPSTREAM FROM ABOUT 800 FEET BELOW ROAD 99W BRIDGE, REEM CLEARED

LOOKING DOWNSTREAM FROM ABOUT 300 FEET BELOW 99W BRIDGE
LOOKING DOWNSTREAM FROM ABOUT 1,400 FEET BELOW ROAD 99W BRIDGE

LOOKING DOWNSTREAM FROM ABOUT 2,700 FEET BELOW ROAD 99W BRIDGE

EXHIBIT F
Sheet 7 of 8
LOOKING DOWNS.. FROM ABOUT 4,000 FEET
BELOW ROAD 996 BRIDGE (NEAR CENTERLINE OF CHANNEL)

LOOKING DOWNS.. FROM ABOUT 4,000 FEET
BELOW ROAD 996 BRIDGE (APPROXIMATE END OF PROJECT)