

NOVEMBER 2019 LEVEE SUPERINTENDENT JOE BRYSON 1608

1. Levee patrol, started pump and clean area four times. Checked for homeless and trash at I-5 and Plymouth gates. Opened gates for contractors.
2. The pipe job North West is finished. They did a good cleanup job.
3. I had identification badges done for Gabe and me. These will be used when knocking on doors.
4. Had a young man living at Grupe Park.
5. Caltrans hired a contractor to install fences and gate down to the water West I-5.
6. Have not finished blacktop, rain. We are going to crown the blacktop.
7. The crack job came out good.
8. Lincoln Marina Plants
9. Gophers North East in two places, vegetation at levee ground
10. Frank and Christine Freni, 4263 Five Mile Drive, redid stepping stones on up to ground side of levee.
11. KSN new home owner.
12. Spot on water side South East, West I-5, KSN is coming out to give instruction.
13. Many dead fish Five Mile and in front of Fourteen Mile at Weir. Fifty seagulls and Buzzards came in. Fish are gone.
14. Lots of Halloween on North West Levee.
15. We will be inspecting South West Levee, Grupe Park too Marina this month.
16. I am having the pump Grupe Park inspected Thursday.

P.O. Box 4857
Stockton, CA 95204

Reclamation District 1608

November 2016

Dear Homeowners and Businesses:

Your ongoing support in maintaining our levee system that protects Lincoln Village West residents and property owners is very much appreciated. Daily vigilance is imperative.

Joe Bryson, our levee superintendent, is on the levees daily to monitor the area and ensure that levee encroachment standards are being adhered to. Your help in maintaining those standards is always appreciated. Do call Joe at (209) 298-3307 if you notice any problems, unusual activity, or dumped trash or have any questions about what is or is not permitted.

Thank you for helping to keep our 3.34 miles of levees safe for each of you, your families, and our community.

Sincerely,
Board of Trustees
Reclamation District 1608

find a detailed listing of encroachment standards and requirements for a permit application for an encroachment. While an encroachment may seem minor to a resident or property owner, every contemplated encroachment does require a review and consideration of a permit.

The District's Emergency Operations Plan for responding to a flood emergency is outlined in the website. Detailed in the Plan are flood preparedness, flood fight methods, flood water removal, and recovery and after-action procedures. You will also find a flood contingency map that identifies the special considerations that would be implemented in the event of a flood; an evacuation plan; a communications plan; and a levee patrol plan that would be launched in the event of a flood or impending flood. A flood fight history is also included.

Your observations and comments on the Emergency Operations Plan can be very helpful, as the District Board members review the plan annually.



WWW.RD1608.COM

Emergency plans are now online. We encourage you to visit www.RD1608.com.

At the website, you will also find past newsletters, agendas and minutes of RD 1608 Board of Trustees meetings, Board meeting dates, a list of the Board members, and contact information for the RD 1608 superintendent, Joe Bryson. Also, you will

Keeping Levees Clean and Clear

Dumped garbage, trash, and other items are a problem—and not just unsightly. Should a need arise, emergency responders must be able to safely and quickly move through the levee system. Call Joe Bryson immediately if you observe items being dumped on the levee or that have been left on the levee. Also, do call Joe if you observe tents or other encampments on the levee.

And, please, do not store lawn chairs, your BBQ, or other items on the levee. Do keep your possessions off the levee and within your own property lines.

Activity on The Levees

Accessibility to levee sections varies. Some sections can be walked on. Some cannot. If you are unsure, check with Joe before walking, running, or bicycling on a levee section.

Please, do not plant any vegetation on the levees. Levees must be kept clear to permit inspections of their slopes to ensure that no leaks are present and or other conditions that might allow leaks to form.

Observe the signs. Superintendent Joe Bryan will be placing signs in levee areas that are not accessible to walkers, runners, or bicyclists.

Also, contact Joe immediately if you see any homeless or other encampments on the levee. They must be removed to ensure the safety of the entire levee system. Call Joe if you observe damaged fencing or gates. Your vigilance is appreciated.

Animal Activity

Please be aware that damage by rats, beavers, gophers, squirrels, and other animals endangers the integrity of our levees. If you see any of these critters, let Joe know.

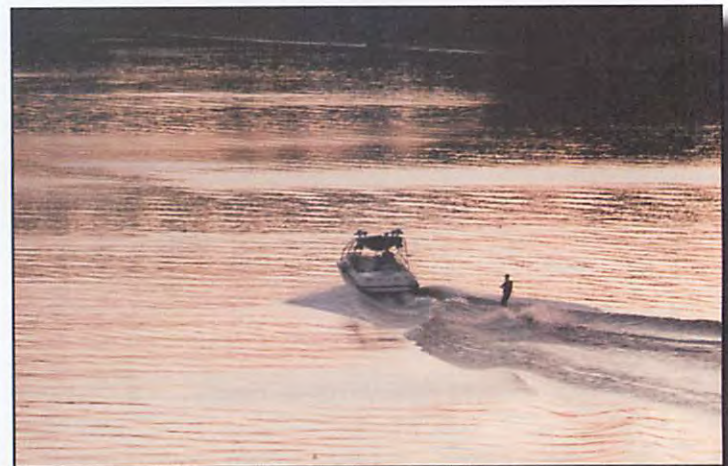
Permit Reminders

Permits are required for planting trees, shrubbery, or other vegetation. Permits are required for large pieces of play equipment and for any type of construction within the district easement or property line. One example: replacing an existing fence. Feel free to call Joe, who can help guide you through the permit process.

Questions? Comments?

Feel free to call the District Hotline at (209) 298-3307 with any comments, suggestions, or questions.

You are also welcome to attend the District Board of Trustees meetings, which are held the first Wednesday of each month at 8:00 a.m. in the offices



of Neumiller & Beardslee, 509 West Weber Avenue, 5th Floor, Stockton. An opportunity for public comment is offered at each board meeting.

CONTACT INFORMATION

DISTRICT TRUSTEES
Michael Panzer, D.D.S.,
President
Drew Meyers
Brett L. Tholborn, C.P.A.

**DISTRICT SUPERINTENDENT/
HOTLINE**
Joe Bryson (209) 298-3307

**ATTORNEY FOR THE
DISTRICT**
Dan Schroeder (209) 948-8200

CONSULTING ENGINEERS
Christopher H. Neudeck
(209) 946-0268
Kjeldsen, Sinnock & Neudeck



	Actual YE June 2013	Actual YE June 2014	Actual YE June 2015	Est / Actual YE June 2016	Budget YE June 2017
Receipts					
Assessments	325,547	293,745	290,322	298,000	298,000
Property Tax	173,315	163,447	180,039	200,000	200,000
Interest	5,153	4,171	4,773	5,000	5,000
Levee Subvention Reimbursement				93,904	93,904
Property Tax Relief	1,972	1,903	-		
	\$ 505,987	\$ 463,266	\$ 475,134	\$ 596,904	596,904

Disbursements

Salaries and Benefits

Salaries and Wages Auto Allow.	61,531	57,573	55,696	58,000 x	58,000
Part Time Employee				26,000 x	26,000
Payroll Taxes	5,201	4,564	6,335	6,300 x	6,300
<i>Total Salaries and Benefits</i>	\$ 66,732	\$ 62,137	\$ 62,031	\$ 90,300	\$ 90,300

Services and Stores

County Tax Administration	3,601	3,617	3,557	7,250 x	7,250
County Office Expense	3,309	3,271	3,407		
District Vehicle - Fuel / Maintenance				5,600 x	5,600
Insurance				2,000 x	2,000
Emergency Equipment and Supplies				1,000 x	1,000
General Engineering	281,746	158,029	48,041	95,000 x	120,000
Assessment Engineering				5,500	5,500
Construction Engineering					
Engineering - Sediment Removal Project				25,000	
Engineering - Letter of Map Revision					
Insurance	12,824	13,926	12,453	9,000 x	9,000
Workers Compensation Insurance				8,750	8,750
Legal and Accounting Fees	44,541	42,442	39,191	55,000 x	55,000
Auditing				3,200 x	3,200

Levee Repairs - Operation & Maintenance	91,346	21,518	29,982	85,000 x	135,000
Fenses and Gates				25,000 x	25,000
Garbage Service				2,400 x	2,400
Locks and Signs				2,000 x	2,000
Miscellaneous	253	1,393			
Office Expense			280	750 x	750
Other Repairs and Maintenance	69,283	20,629	12,408		
Public Relations	4,372	4,310	1,096	9,000 x	9,000
Secretary Fees	7,578	8,050	7,267	9,000 x	9,000
Storage	800	800	825		
Telephone	1,391	1,364	9	1,700 x	1,700
Trustee Fees	4,100	5,255	3,200	6,000 x	6,000
Utilities / Pump Maintenance	264	518	174	500 x	500
Weed Control	9,850	16,630	16,495	15,000 x	..
Total Services and Stores	\$ 535,258	\$ 301,752	\$ 178,385	\$ 373,650	\$ 408,650

Contract

Levee Repair - Capital Improvement Projects				
Special Projects	10,464	30,000	39,504	
Contract	\$ 10,464	\$ 30,000	\$ 39,504	

Fixed Assets

Purchase of District Vehicle			27,339	
			\$ 27,339	

Total Disbursements \$ 612,454 \$ 393,889 \$ 307,259 \$ 463,950 \$ 498,950

Cash Basis Fund Balance Beginning of Year	1,803,467	1,697,000	1,724,726	1,892,601
Excess Receipts over Disbursements	(106,467)	69,377	167,875	132,954
Adjustment for changes in Accounting Basis		(41,651)	-	
Cash Basis Assets - End of Year	\$ 1,697,000	\$ 1,724,726	\$ 1,892,601	2,025,555

**RECLAMATION DISTRICT NO. 1608
LINCOLN VILLAGE WEST
BOARD OF TRUSTEES MEETING
WEDNESDAY NOVEMBER 3, 2016
8:00 A.M.
ENGINEER'S REPORT**

I. DELTA LEVEE SUBVENTIONS PROGRAM AB 360

A. Review the District's Final Claim for Fiscal Year 2015/16 and seek signature from Chairman for submittal to DWR.

TOTAL FINAL CLAIM	\$201,938.23
LESS DISTRICT SHARE (1,000/MILE @ 3.6 miles)	<u>\$3,600.00</u>
TOTAL ELIGIBLE	\$198,338.23
MAX REIMBURSEMENT = 75% OF ELIGIBLE	\$148,753.67

B. Review the status of the City of Stockton's stormwater discharge pipe replacement through levee from the North Lake system.

II. SEDIMENT REMOVAL PROJECT

A. Review with the Board of Trustees the task and scope that needs to be evaluated in order to provide a reliable project estimate. Discuss project design elements and our plan to work with Legal Counsel to evaluate District reserves and budgetary constraints.

EXHIBIT A: 20 Year projected Income & Expense for RD 1608 for completing the sediment removal project up to Grupe Park.

EXHIBIT B: 20 Year projected Income & Expense for RD for completing the Sediment Removal Project up to the District Boundary on Fourteenmile Slough.

**PRESENTATION OF 20 YEAR PROJECTED INCOME & EXPENSE
EXHIBITS FOR RD 1608 ON THE OVERHEAD PROJECTOR SCREEN.**

III. FEMA MAPPING STATUS

A. Review ongoing status and progress of preparation of the Letter of Map Revision (LOMR) application for District's response to FEMA regarding the

mapping status of the District's levee system. Review status of signature on MT-2 form signed from the City of Stockton on October 21, 2016.

EXHIBIT C: Signed FEMA LOMR Submittal MT-2 Form

A

RECLAMATION DISTRICT NO. 1608
 LINCOLN VILLAGE WEST
 FISCAL YEAR 2016-2026 BUDGET WORKSHEET

FY 2015-2016 FY 2016-2017 FY 2017-2018 FY 2018-2019 FY 2019-2020 FY 2020-2021 FY 2021-2022 FY 2022-2023 FY 2023-2024 FY 2024-2025 FY 2025-2026 FY 2026-2027 FY 2027-2028 FY 2028-2029 FY 2029-2030 FY 2030-2031 FY 2031-2032 FY 2032-2033 FY 2033-2034 FY 2034-2035 FY 2035-2036

3 The \$31,500 election cost budget is a placeholder every two years into the future whereby we may have the need to conduct a mail ballot election.

4 The Districts current assessment authority under its current role expires in Fiscal Year 2025-26. This budget projects the preparation of a new Proposition 218 Engineers Report 2 years in advance of this assessment expiration. The reason for starting two years ahead of the expiration of RD 1608's assessment authority is because if the 1st attempt fails with the RD 1608 constituency then you have 1 more year to adjust your program and seek another affirmative election. \$98,000 for assessment engineering in Fiscal Year 2023-24 is to cover the preparation of a new assessment roll to carry the District revenue into the future. The preliminary budget includes \$85,000 for assessment engineering and mailing and \$25,000 for public outreach.

5 The Sediment Removal Project is estimated @ \$2.6 million to complete the project all the way to the District Boundary east of I-5 on Fourteenmile Slough.

6 Assessment revenue was projected to remain the same with no increase or decrease beyond the expiration of the current assessment of 2025-26. Board of Trustees need to consider this assumption.

7 The Delta Levee Subventions Program, AB 360, sunsets in Fiscal Year 2017/18. Currently there is no guarantee that this program will be continued. It is very likely that some form of the Program will continue. For budgetary purposes we have shown the program continuing on through the end of this budget limit at the same cost sharing ratios that are currently in place.

8 We recommend that RD 1608 maintain 2 X its annual income (Assessment & Property Tax Increment) in reserves to provide for 1st strike emergency response funds in the event of a significant flood emergency.

Annual % Increase

Levee Superintendent	3%
Part Time Employees	3%
Payroll Taxes and Expenses	4%
Fences & Gates	0%
Locks & Signs	4%
Weed and Rodent Control & Clean Up	5%
Levee Repair Fund (General Operations & Maintenance)	5%
Levee Repair Fund (Levee Improvement Projects)	5%
Pump System Maintenance	3%
Wireless Services (Cell and Mobile Computer)	3%
Emergency Equipment & Supplies	0%
Garbage Service	3%
District Vehicle (Fuel, Maintenance & Repairs)	3%
Trustee Fees	0%
Secretary Fees	3%
Office Expenses (includes storage facility)	3%
General Legal	3%
Audit	2%
County Administration Costs	4%
Liability Insurance	4%
Workers Comp Insurance	2%
Automobile Insurance	2%
Election Costs	0%
Newsletter & Public Communications	0%
General Engineering	1%
Assessment Engineering	2%
Sediment Removal Project	TBD

B

RECLAMATION DISTRICT NO. 1608
 LINCOLN VILLAGE WEST
 FISCAL YEAR 2016-2026 BUDGET WORKSHEET

FY 2015-2016 FY 2016-2017 FY 2017-2018 FY 2018-2019 FY 2019-2020 FY 2020-2021 FY 2021-2022 FY 2022-2023 FY 2023-2024 FY 2024-2025 FY 2025-2026 FY 2026-2027 FY 2027-2028 FY 2028-2029 FY 2029-2030 FY 2030-2031 FY 2031-2032 FY 2032-2033 FY 2033-2034 FY 2034-2035 FY 2035-2036

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5 The Sediment Removal Project is estimated @ \$2.5 million to complete the project all the way to the District Boundary east of I-5 on Fourteenmile Slough.

6 Assessment revenue was projected to increase 10% beyond the current assessment of 2025-26, plus add a CIP annual increase which was estimated at 2.5%. Board of Trustees need to consider this assumption.

7 The Delta Levee Subventions Program, AB 360, sunsets in Fiscal Year 2017/18. Currently there is no guarantee that this program will be continued. It is very likely that some form of the Program will continue. For budgetary purposes we have shown the program continuing on through the end of this budget limit at the same cost sharing ratios that are currently in place.

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<u>Annual % Increase</u>	
Levee Superintendent	3%
Part Time Employees	3%
Payroll Taxes and Expenses	4%
Fences & Gates	0%
Locks & Signs	4%
Weed and Rodent Control & Clean Up	5%
Levee Repair Fund (General Operations & Maintenance)	5%
Levee Repair Fund (Levee Improvement Projects)	5%
Pump System Maintenance	3%
Wireless Services (Cell and Mobile Computer)	3%
Emergency Equipment & Supplies	0%
Garbage Service	3%
District Vehicle (Fuel, Maintenance & Repairs)	3%
Trustee Fees	0%
Secretary Fees	3%
Office Expenses (includes storage facility)	3%
General Legal	3%
Audit	2%
County Administration Costs	4%
Liability Insurance	4%
Workers Comp Insurance	2%
Automobile Insurance	2%
Election Costs	0%
Newsletter & Public Communications	0%
General Engineering	1%
Assessment Engineering	2%
Sediment Removal Project	TBD

C

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
060302	City of Stockton San Joaquin County	CA	06077C	0455F	10/16/09
060299	City of Stockton San Joaquin County	CA	06077C	0315F	10/16/09

2. a. Flooding Source: San Joaquin Delta

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

3. Project Name/Identifier: RECLAMATION DISTRICT 1608 - LINCOLN VILLAGE WEST

4. FEMA zone designations affected: 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: \$____
 No, Attach Explanation

Please see the DHS-FEMA Web site at http://www.fema.gov/plan/prevent/fhm/frm_fees.shtm 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.

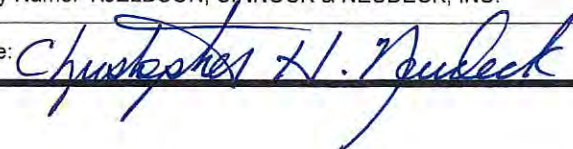
Name: MICHAEL PANZER	Company: RD 1608 LINCOLN VILLAGE WEST	
Mailing Address: 6329 EMBARCADERO DRIVE STOCKTON, CA 95219	Daytime Telephone No.: 209-948-8200	Fax No.: 209-948-4910
	E-Mail Address:	
Signature of Requester (required):	Date:	

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: DAVID KWONG DIRECTOR COMMUNITY DEV	Community Name: CITY OF STOCKTON	
Mailing Address: 345 N. EL DORADO STREET STOCKTON, CA 95202	Daytime Telephone No.: 209-937-8444	Fax No.: 209-937-8893
	E-Mail Address: DAVID.KWONG@STOCKTONGOV.COM	
Community Official's Signature (required): 	Date: 10/24/16	

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: CHRISTOPHER H. NEUDECK	License No.: C.E. 43473	Expiration Date: JUNE 30, 2018
Company Name: KJELDSON, SINNOCK & NEUDECK, INC.	Telephone No.: 209-946-0268	Fax No.: 209-946-0296
Signature: 	Date: 10/24/16	E-Mail Address: CNEUDECK@KSNINC.COM

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

Form Name and (Number)

Required if ...

- | | |
|--|---|
| <input 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 |



DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
RIVERINE STRUCTURES FORM

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

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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: San Joaquin Delta

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: RECLAMATION DISTRICT NO. 1608 LINCOLN VILLAGE WEST

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

Location of Structure: NORTH, EAST AND SOUTH LEVEES

Downstream Limit/Cross Section: _____

Upstream Limit/Cross Section: _____

2. Name of Structure: _____

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

Location of Structure: _____

Downstream Limit/Cross Section: _____

Upstream Limit/Cross Section: _____

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: N/A

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/CULVERT

Flooding Source: N/A

Name of Structure: _____

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): _____

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 type="checkbox"/> Low Chord Elevations – Upstream and Downstream |
| <input type="checkbox"/> Beveling or Rounding | <input 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 Considerations

Are 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.

D. DAM/BASIN

Flooding Source: N/A

Name of Structure: _____

1. This request is for (check one): Existing dam/basin New dam/basin Modification of existing dam/basin
2. The dam/basin was designed by (check one): Federal agency State agency Private organization Local government agency

Name of the agency or organization: _____

3. The Dam was permitted as (check one): Federal Dam State Dam

Provide the permit or identification number (ID) for the dam and the appropriate permitting agency or organization

Permit or ID number _____ Permitting Agency or Organization _____

- a. Local Government Dam Private Dam

Provided related drawings, specification and supporting design information.

4. Does the project involve revised hydrology? Yes No

If Yes, complete the Riverine Hydrology & Hydraulics Form (Form 2).

Was the dam/basin designed using critical duration storm? (must account for the maximum volume of runoff)

- Yes, provide supporting documentation with your completed Form 2.
- No, provide a written explanation and justification for not using the critical duration storm.

5. Does the submittal include debris/sediment yield analysis? Yes No

If Yes, then fill out Section F (Sediment Transport). If No, then attach your explanation for why debris/sediment analysis was not considered?

6. Does the Base Flood Elevation behind the dam/basin or downstream of the dam/basin change? Yes No

If Yes, complete the Riverine Hydrology & Hydraulics Form (Form 2) and complete the table below.

FREQUENCY (% annual chance)	Stillwater Elevation Behind the Dam/Basin	
	FIS	REVISED
10-year (10%)	_____	_____
50-year (2%)	_____	_____
100-year (1%)	_____	_____
500-year (0.2%)	_____	_____
Normal Pool Elevation	_____	_____

7. Please attach a copy of the formal Operation and Maintenance Plan

E. LEVEE/FLOODWALL

1. System Elements

- a. This Levee/Floodwall analysis is based on (check one):
- upgrading of an existing levee/floodwall system
 a newly constructed levee/floodwall system
 reanalysis of an existing levee/floodwall system

- b. Levee elements and locations are (check one):

- earthen embankment, dike, berm, etc. Station 5+00 to 187+00
- structural floodwall Station _____ to _____
- Other (describe): Station _____ to _____

- c. Structural Type (check one): monolithic cast-in place reinforced concrete reinforced concrete masonry block sheet piling
- Other (describe): EARTH EMBANKMENT

- d. Has this levee/floodwall system been certified by a Federal agency to provide protection from the base flood?

- Yes No

If Yes, by which agency? FEMA (GRANDFATHERED)

e. Attach certified drawings containing the following information (indicate drawing sheet numbers):

- | | |
|--|-------------------------------|
| 1. Plan of the levee embankment and floodwall structures. | Sheet Numbers: <u>4 TO 10</u> |
| 2. A profile of the levee/floodwall system showing the Base Flood Elevation (BFE), levee and/or wall crest and foundation, and closure locations for the total levee system. | Sheet Numbers: <u>4 TO 10</u> |
| 3. A profile of the BFE, closure opening outlet and inlet invert elevations, type and size of opening, and kind of closure. | Sheet Numbers: <u>4 TO 22</u> |
| 4. A layout detail for the embankment protection measures. | Sheet Numbers: <u>23</u> |
| 5. Location, layout, and size and shape of the levee embankment features, foundation treatment, Floodwall structure, closure structures, and pump stations. | Sheet Numbers: <u>4 TO 22</u> |

2. Freeboard

a. The minimum freeboard provided above the BFE is:

12.4 NAVD88

Riverine

- | | | |
|--|---|-----------------------------|
| 3.0 feet or more at the downstream end and throughout | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3.5 feet or more at the upstream end | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4.0 feet within 100 feet upstream of all structures and/or constrictions | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Coastal N/A

- | | | |
|---|------------------------------|-----------------------------|
| 1.0 foot above the height of the one percent wave associated with the 1%-annual-chance stillwater surge elevation or maximum wave runup (whichever is greater). | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2.0 feet above the 1%-annual-chance stillwater surge elevation | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Please note, occasionally exceptions are made to the minimum freeboard requirement. If an exception is requested, attach documentation addressing Paragraph 65.10(b)(1)(ii) of the NFIP Regulations.

If No is answered to any of the above, please attach an explanation.

b. Is there an indication from historical records that ice-jamming can affect the BFE? Yes No

If Yes, provide ice-jam analysis profile and evidence that the minimum freeboard discussed above still exists.

3. Closures

a. Openings through the levee system (check one): exists does not exist

If opening exists, list all closures: CLOSURES ARE NOT APPLICABLE. ALL OPENINGS CONSIST OF PIPE PENETRATIONS THAT ARE LOCATED ABOVE THE BFE (SIPHONS, SD DISCHARGE, ETC...)

Channel Station	Left or Right Bank	Opening Type	Highest Elevation for Opening Invert	Type of Closure Device

(Extend table on an added sheet as needed and reference)

Note: Geotechnical and geologic data

In addition to the required detailed analysis reports, data obtained during field and laboratory investigations and used in the design analysis for the following system features should be submitted in a tabulated summary form. (Reference U.S. Army Corps of Engineers [USACE] EM-1110-2-1906 Form 2086.)

4. Embankment Protection

- a. The maximum levee slope land side is: 3:1 (TYPICAL)
- b. The maximum levee slope flood side is: 2:1 (TYPICAL)
- c. The range of velocities along the levee during the base flood is: 0 FPS (min.) to 2.5 FPS (max.)
- d. Embankment material is protected by (describe what kind): 18 INCH MINUS QUARRY STONE RIPRAP
- e. Riprap Design Parameters (check one): Velocity Tractive stress
 Attach references N/A - ANALYSIS OF EXISTING LEVEE

Reach	Sideslope	Flow Depth	Velocity	Curve or Straight	Stone Riprap			Depth of Toedown
					D ₁₀₀	D ₅₀	Thickness	
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								

(Extend table on an added sheet as needed and reference each entry)

- f. Is a bedding/filter analysis and design attached? Yes No
- g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):
N/A ANALYSIS OF EXISTING LEVEE

Attach engineering analysis to support construction plans.

5. Embankment And Foundation Stability

- a. Identify locations and describe the basis for selection of critical location for analysis:
REFER TO GEOTECHNICAL REPORT SECTION 8.2. VOLUME 2 OF THIS REPORT SUBMITTAL
 - Overall height: Sta.: _____, height _____ ft.
 - Limiting foundation soil strength:
 Strength ϕ = _____ degrees, c = _____ psf
 Slope: SS = _____ (h) to _____ (v)
 (Repeat as needed on an added sheet for additional locations)
- b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.):
CIRCULAR ARC (SPENCERS METHOD)
- c. Summary of stability analysis results: REFER TO SECTION 8 OF THE GEOTECH REPORT

4. Embankment Protection

- a. The maximum levee slope land side is: 3:1 (TYPICAL)
- b. The maximum levee slope flood side is: 2:1 (TYPICAL)
- c. The range of velocities along the levee during the base flood is: 0 FPS (min.) to 2.5 FPS (max.)
- d. Embankment material is protected by (describe what kind): 18 INCH MINUS QUARRY STONE RIPRAP
- e. Riprap Design Parameters (check one): Velocity Tractive stress
 Attach references N/A - ANALYSIS OF EXISTING LEVEE

Reach	Sideslope	Flow Depth	Velocity	Curve or Straight	Stone Riprap			Depth of Toedown
					D ₁₀₀	D ₅₀	Thickness	
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								
Sta to								

(Extend table on an added sheet as needed and reference each entry)

- f. Is a bedding/filter analysis and design attached? Yes No
- g. Describe the analysis used for other kinds of protection used (include copies of the design analysis):
N/A ANALYSIS OF EXISTING LEVEE

Attach engineering analysis to support construction plans.

5. Embankment And Foundation Stability

- a. Identify locations and describe the basis for selection of critical location for analysis:
REFER TO GEOTECHNICAL REPORT SECTION 8.2, VOLUME 2 OF THIS REPORT FOR SUBMITTAL
 - Overall height: Sta.: _____, height _____ ft.
 - Limiting foundation soil strength:
 Strength ϕ = _____ degrees, c = _____ psf
 Slope: SS = _____ (h) to _____ (v)
 (Repeat as needed on an added sheet for additional locations)
- b. Specify the embankment stability analysis methodology used (e.g., circular arc, sliding block, infinite slope, etc.):
CIRCULAR ARC (SPENCERS METHOD)
- c. Summary of stability analysis results: REFER TO SECTION 8 OF THE GEOTECHNICAL

E. LEVEE/FLOODWALL (CONTINUED)

5. Embankment And Foundation Stability (continued)

Case	Loading Conditions	Critical Safety Factor	Criteria (Min.)
I	End of construction		1.3
II	Sudden drawdown		1.0
III	Critical flood stage		1.4
IV	Steady seepage at flood stage		1.4
VI	Earthquake (Case I)		1.0

(Reference: USACE EM-1110-2-1913 Table 6-1)

- d. Was a seepage analysis for the embankment performed? Yes No
If Yes, describe methodology used: "SEEP/W" BY GEO-SLOPE INTERNATIONAL-STEADY STATE ANALYSIS
- e. Was a seepage analysis for the foundation performed? Yes No
- f. Were uplift pressures at the embankment landside toe checked? Yes No
- g. Were seepage exit gradients checked for piping potential? Yes No
- h. The duration of the base flood hydrograph against the embankment is _____ hours.

Attach engineering analysis to support construction plans.
REFER TO GEOTECHNICAL REPORT IN SECTION 1, VOLUME 2 OF THIS REPORT SUBMITTAL

6. Floodwall And Foundation Stability N/A

- a. Describe analysis submittal based on Code (check one): UBC (1988) Other (specify): _____
- b. Stability analysis submitted provides for: Overturning Sliding If not, explain: _____
- c. Loading included in the analyses were: Lateral earth @ $P_A =$ _____ psf; $P_p =$ _____ psf
 Surcharge-Slope @ _____, surface _____ psf
 Wind @ $P_w =$ _____ psf
 Seepage (Uplift); _____ Earthquake @ $P_{eq} =$ _____ %g
- 1%-annual-chance significant wave height: _____ ft.
- 1%-annual-chance significant wave period: _____ sec.
- d. Summary of Stability Analysis Results: Factors of Safety.
Itemize for each range in site layout dimension and loading condition limitation for each respective reach.

Loading Condition	Criteria (Min)		Sta	To	Sta	To
	Overturn	Sliding	Overturn	Sliding	Overturn	Sliding
Dead & Wind	1.5	1.5				
Dead & Soil	1.5	1.5				
Dead, Soil, Flood, & Impact	1.5	1.5				
Dead, Soil, & Seismic	1.3	1.3				

(Ref: FEMA 114 Sept 1986; USACE EM 1110-2-2502)
Note: (Extend table on an added sheet as needed and reference)

E. LEVEE/FLOODWALL (CONTINUED)

6. Floodwall And Foundation Stability (continued)

e. Foundation bearing strength for each soil type:

Bearing Pressure	Sustained Load (psf)	Short Term Load (psf)
Computed design maximum		
Maximum allowable		

f. Foundation scour protection is, is not provided. If provided, attach explanation and supporting documentation:
 Attach engineering analysis to support construction plans.

7. Settlement

- a. Has anticipated potential settlement been determined and incorporated into the specified construction elevations to maintain the established freeboard margin? Yes No N/A-EXISTING LEVEE. THERE WILL BE NO CONSTRUCTION ON THE LEVEE AND NO PLACEMENT OF FILL, THEREFORE LOSS OF FREEBOARD DUE TO SETTLEMENT IS MINIMAL.
- b. The computed range of settlement is ____ ft. to ____ ft. N/A-EXISTING LEVEE. THERE WILL BE NO CONSTRUCTION ON THE LEVEE AND NO PLACEMENT OF FILL, THEREFORE LOSS OF FREEBOARD DUE TO SETTLEMENT IS MINIMAL.
- c. Settlement of the levee crest is determined to be primarily from : Foundation consolidation Embankment compression Other (Describe): MINIMAL SETTLEMENT, REFER TO GEOTECH REPORT (SECTION 8.1) IN VOLUME 2.
- d. Differential settlement of floodwalls has has not been accommodated in the structural design and construction.
 Attach engineering analysis to support construction plans. N/A - EXISTING LEVEE

8. Interior Drainage

a. Specify size of each interior watershed:

Draining to pressure conduit: 863 acres
 Draining to ponding area: 806 acres

b. Relationships Established

- Ponding elevation vs. storage Yes No
 Ponding elevation vs. gravity flow Yes No
 Differential head vs. gravity flow Yes No

c. The river flow duration curve is enclosed: Yes No

d. Specify the discharge capacity of the head pressure conduit: 66 cfs COMBINED CAPACITY FOR BOTH PUMPING FACILITIES

e. Which flooding conditions were analyzed?

- Gravity flow (Interior Watershed) Yes No
- Common storm (River Watershed) Yes No
- Historical ponding probability Yes No
- Coastal wave overtopping Yes No

If No for any of the above, attach explanation. SEE ATTACHED SHEETS FOR EXPLANATION

- e. Interior drainage has been analyzed based on joint probability of interior and exterior flooding and the capacities of pumping and outlet facilities to provide the established level of flood protection. Yes No If No, attach explanation.
- g. The rate of seepage through the levee system for the base flood is 0.25 cfs
- h. The length of levee system used to drive this seepage rate in item g: 18,200 ft.

E. LEVEE/FLOODWALL (CONTINUED)

8. Interior Drainage (continued)

i. Will pumping plants be used for interior drainage? Yes No

If Yes, include the number of pumping plants: 2 Municipal For each pumping plant, list:

	Plant #1	Plant #2
The number of pumps	3	2
The ponding storage capacity	226 Acre-ft	5.7 Acre-ft
The maximum pumping rate	33 cfs	26 cfs
The maximum pumping head	25 ft.	21 ft.
The pumping starting elevation	UNKNOWN CITY PUMPS	UNKNOWN CITY PUMPS
The pumping stopping elevation	UNKNOWN CITY PUMPS	UNKNOWN CITY PUMPS
Is the discharge facility protected?	NO	NO
Is there a flood warning plan?	YES	YES
How much time is available between warning and flooding?	24-72 HRS	N/A

Will the operation be automatic? Yes No

If the pumps are electric, are there backup power sources? Yes No BACKUP GENERATOR TOWED IN

(Reference: USACE EM-1110-2-3101, 3102, 3103, 3104, and 3105)

Include a copy of supporting documentation of data and analysis. Provide a map showing the flooded area and maximum ponding elevations for all interior watersheds that result in flooding. NO FLOODING ANTICIPATED.

9. Other Design Criteria

a. The following items have been addressed as stated:

Liquefaction is is not a problem

Hydrocompaction is is not a problem

Heave differential movement due to soils of high shrink/swell is is not a problem

b. For each of these problems, state the basic facts and corrective action taken:

REFER TO THE GEOTECHNICAL REPORT IN SECTION 1, VOLUME 2 OF THE SUBMITTAL REPORT

Attach supporting documentation

c. If the levee/floodwall is new or enlarged, will the structure adversely impact flood levels and/or flow velocities floodside of the structure?
 Yes No N/A Attach supporting documentation

EXISTING LEVEE

d. Sediment Transport Considerations: N/A EXISTING LEVEE. NO NEW PROJECTS ANTICIPATED WHICH WILL IMPACT THE FLOOD SIDE

Was sediment transport considered? Yes No

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

10. Operational Plan And Criteria

a. Are the planned/installed works in full compliance with Part 65.10 of the NFIP Regulations? Yes No

b. Does the operation plan incorporate all the provisions for closure devices as required in Paragraph 65.10(c)(1) of the NFIP regulations?
 Yes No

c. Does the operation plan incorporate all the provisions for interior drainage as required in Paragraph 65.10(c)(2) of the NFIP regulations?
 Yes No If the answer is No to any of the above, please attach supporting documentation.

E. LEVEE/FLOODWALL (CONTINUED)

11. Maintenance Plan

Please attach a copy of the formal maintenance plan for the levee/floodwall

THE OPERATION & MAINTENANCE PLAN IS ENCLOSED IN SECTION 4, VOLUME 1 OF THIS REPORT SUBMITTAL

12. Operations and Maintenance Plan

Please attach a copy of the formal Operations and Maintenance Plan for the levee/floodwall.

THE OPERATION & MAINTENANCE PLAN IS ENCLOSED IN SECTION 4, VOLUME 1 OF THIS REPORT SUBMITTAL

CERTIFICATION OF THE LEVEE DOCUMENTATION

This certification is to be signed and sealed by a licensed registered professional engineer authorized by law to certify elevation information data, hydrologic and hydraulic analysis, and any other supporting information as per NFIP regulations paragraph 65.10(e) 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: CHRIS NEUDECK

License No.: 43473

Expiration Date: 06/30/2018

Company Name: KJELDSON, SINNOCK, NEUDECK, INC. Telephone No.: 209-946-0268

Fax No.: _____

Signature: _____

Date: _____

E-Mail Address: CNEUDECK@KSNINC.COM

F. SEDIMENT TRANSPORT

Flooding Source: N/A

Name of Structure: _____

If there is any indication from historical records that sediment transport (including scour and deposition) can affect the Base Flood Elevation (BFE); and/or based on the stream morphology, vegetative cover, development of the watershed and bank conditions, there is a potential for debris and sediment transport (including scour and deposition) to affect the BFEs, then provide the following information along with the supporting documentation:

Sediment load associated with the base flood discharge: Volume _____ acre-feet

Debris load associated with the base flood discharge: Volume _____ acre-feet

Sediment transport rate _____ (percent concentration by volume)

Method used to estimate sediment transport: _____

Most sediment transport formulas are intended for a range of hydraulic conditions and sediment sizes; attach a detailed explanation for using the selected method.

Method used to estimate scour and/or deposition: _____

Method used to revise hydraulic or hydrologic analysis (model) to account for sediment transport: _____

Please note that bulked flows are used to evaluate the performance of a structure during the base flood; however, FEMA does not map BFEs based on bulked flows.

If a sediment analysis has not been performed, an explanation as to why sediment transport (including scour and deposition) will not affect the BFEs or structures must be provided.

ATTACHMENTS

MT-2 FORM 1: OVERVIEW AND CONCURRENCE

C. REVIEW FEE

A fee is not submitted with this package as this submittal is a request for additional data and not an new submittal.

MT-2 FORM 3: RIVERINE STRUCTURES FORM

E. LEVEE/FLOODWALL (ATTACHMENT #2)

8. Interior Drainage

e. Which flooding conditions were analyzed?

- Common Storm (River Watershed) No
Explanation: Interior watershed drainage was only analyzed. River watersheds were not a part of the analysis.
- Historical ponding probability No
Explanation: Historical ponding is not possible on the Levee Structure and any possibility of interior ponding is indirectly studied with the Gravity Flow (Interior Watershed) analysis.
- Coastal wave overtopping No
Explanation: This is not a coastal project.