



COLMA CREEK CITIZENS ADVISORY COMMITTEE MEETING

Tuesday, September 8, 2020 at 3:00 pm

Due to the risk of COVID-19 transmission and local and State guidelines, this meeting will be held remotely.

To join the meeting, click on <https://us02web.zoom.us/j/84847273339> or call 669-900-6833, ID 84847273339#

AGENDA

- I. Roll Call**
- II. Approve minutes of September 10, 2019 and December 10, 2019 meetings**
- III. Public Comment**
- IV. San Mateo County Flood & Sea Level Rise Resiliency District – Presentation / Discussion**
- V. Projects (summarized in the attached handout and open for discussion)**
 - El Camino Box Culvert and Mission Road Diversion Structure
 - Colma Creek Improvements between Spruce and San Mateo Avenues
 - Mitigation Sites Downstream of Utah Avenue
 - Maintaining the Existing Channel
 - The Channel Wall Project at Produce Avenue
 - Utah Avenue to Navigable Slough
 - Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)
 - Colma Creek Technical Advisory Committee (TAC)
- VI. Discussion items**
 - Advisory Committee Members – Updated Member List and Terms
- VII. Action Item**
 - Approve 2020 Committee meeting dates: March 10, June 9, September 8, December 8
- VIII. Adjournment**

NEXT MEETING – Tuesday, December 8, 2020, 3:00 p.m.

San Mateo County Flood Control District
Colma Creek Flood Control Zone Citizens Advisory Committee

Meeting Minutes
Tuesday, September 10, 2019

AGENDA:

I. CALL TO ORDER

Helen Fisicaro called to order the regular meeting of the Colma Creek Flood Control Zone Citizens Advisory Committee at 3:07 pm on Tuesday, September 10, 2019 in the City of South San Francisco – Corporation Yard Conference Room, 550 North Canal Street, South San Francisco.

II. ROLL CALL**Members:****Present**☒☒☒☒☐☒☒☒**Absent**☐☐☐☐☒☐☐☐

Helen Fisicaro, Chair – Town of Colma

Irene O’Connell – City of San Bruno

Sue Vaterlaus – City of Pacifica

Richard Irli, Member at Large – City of South San Francisco

Kamala Cynthia Silva Wolfe, Member at Large – City of South San Francisco

Mike Futrell – City of South San Francisco

Gail DeFries, Member at Large – City of Daly City

Ed Bortoli, Member at Large – City of South San Francisco

Staff:**Present**☒☐☒☒☒☐☐☒☒☒☒☒☒☒☒**Absent**☐☒☐☐☐☒☒☐☐☐☐☐☐☐☐

Larry Patterson – County of San Mateo (County Flood and Sea Level Rise Resiliency District FSLRRD)

Ann Stillman – County of San Mateo/San Mateo County Flood Control District

Jim Porter – County of San Mateo (Director of PW/San Mateo County Flood Control District)

Michael Barber – County of San Mateo/Supervisor Dave Pine’s Office

Mark Chow – County of San Mateo/San Mateo County Flood Control District

Erika Powell – San Mateo County Flood Resiliency Program

Brad Donohue – Town of Colma

Eunejune Kim – City of South San Francisco

Kim Santos – City of South San Francisco

Matthew Ruble – City of South San Francisco

Ken Anderson – City of South San Francisco

Richard Chiu – City of Daly City

Dave Bockhaus – City of South San Francisco

Louis Langi – City of South San Francisco

III. APPROVAL OF MINUTES OF JUNE 11, 2019 MEETING

Motion – Irene O’Connell; Second – Gail DeFries

Minutes of the June 11, 2019, meeting were approved.

IV. PUBLIC COMMENT

No comments from the public.

V. DISTRICT PROJECTS, ETC.: SUMMARIZED IN A HANDOUT AND OPEN FOR ADDITIONAL DISCUSSION

El Camino Box Culvert and Mission Road Diversion Structure

The Town of Colma (Town) is planning to construct street and drainage improvements along Mission Road between its city limit with S. San Francisco and the intersection of El Camino Real, which include additional drainage structures (catch basins) within the roadway. The Town's preference and current concept is to construct the proposed catch basins and tie into the Mission Road box culvert directly with new pipes and pipe penetrations into the box walls. The District's preference is for the Town's project to utilize existing stubs or manholes, that appear to have been constructed when the box was installed in anticipation of future tie-ins, to minimize modifications to the box culvert walls which could potentially affect the structural integrity of the box. Town and District staff met recently to discuss the project and it was agreed that additional field investigations by the Town were necessary.

BART Co-op Project

There is no update on this project

Jim: We are working to finish up the punch list items and will send the bills to Bart. We did get an offer from Jackie Speier's office that if Bart continues not to cooperate in completing the improvement project, the congress woman will help with writing a letter to Bart suggesting to get this done.

Colma Creek Improvements between Spruce and San Mateo Avenues

Homeless encampments and trespassing activities continue to occur upstream of the San Mateo Avenue bridge. District staff coordinates with City of South San Francisco (City) on an as-needed basis to address repairs to fences and graffiti removal. The District continues to monitor this section of channel regularly for wall movement or settlement at a segment of the south wall immediately downstream of the San Mateo Avenue Bridge.

Mitigation Sites Downstream of Utah Avenue

Ecological Concerns, Inc. (ECI) performed invasive vegetation maintenance at Mitigation Sites 2a and 3 on August 27 and 28, 2019.

District staff and Sheriff Work Program (SWP) participants continue to perform watering, weeding, and trash pick-ups at the five Mitigation Sites (2a, 2b, 2c, 3, and 4). The next SWP cleanup date has been scheduled for September 7, 2019.

In addition, the District will host Coastal Cleanup Day on September 21, 2019, with the assistance of the City's Environmental Compliance Program. A volunteer planting event with ECI is also being planned for November 2019.

The amount of trash removed from the Mitigation Sites in 2019 to date is 22.48 cubic yards. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2019.

Year	Amount of Trash Removed (Cubic Yard)	Event Dates
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Year	Amount of Trash Removed (Cubic Yard)	Event Dates
2019	22.48	1/12, 1/26, 2/9, 2/23, 3/30, 4/13, 4/20, 5/4, 5/18, 6/8, 7/27, 8/10
Total (2005-2019)	671.24	

Maintenance of Existing Channel

The quarterly inspection of the Colma Creek Flood Control Channel was performed on August 23, 2019 (See Maintenance Matrix Binder). Representatives from the City accompanied District staff during the inspection. Illegal dumping, new graffiti, and homeless encampment activities were observed during the inspection of the San Mateo Avenue bridge and Produce Avenue bridge vicinities. Issues requiring enforcement by the City or the Town of Colma (Town) have been forwarded to the respective entity. District staff also informed Kamala Silva Wolfe of the date of the quarterly inspection as requested she requested at the last meeting. However, Kamala was not able to join staff on the inspection.

As previously reported, the District submitted to the regulatory agencies a list of the maintenance work planned for the 2019 season (typically June through October). The work includes the following eight construction activities which are to be done primarily by contractors:

1. Dredging of sediment between the San Mateo Avenue bridge and the Caltrain bridge;
2. Repairs to eight culverts in between the dissipater teeth (upstream of Spruce Avenue) and Orange Avenue;
3. Spalling concrete repairs at the top of the channel wall at two locations near the 12-mile Creek confluence;
4. Channel bottom joint repair to a section upstream of Chestnut Avenue;
5. Repairs to the bottom of four culverts near Antoinette Lane;
6. Box culvert maintenance to the culvert under El Camino Real and Mission Road;
7. Repairs to expansion joints in sections downstream of the Mission Road culvert to McLellan Drive;
8. Remove overgrown vegetation in channel between the dissipater teeth (upstream of Spruce Avenue) and the Orange Avenue.

District staff has requested a proposal from one of the County's Job Order Contract contractors to perform the above listed work with the anticipated completion date of October 15, 2019 for activities in tidally influenced areas and October 30, 2019 for all other work. The District has continued to inspect and maintain the plastic sheets and erosion control materials installed over the dredged material due to weathering and homeless encampment activities. The test results for this material have been received and indicate the material does not require special handling or disposal requirements. The District plans to dispose of this material this year.

Produce Avenue – Channel Wall Project

The District continues to monitor the channel walls immediately upstream and downstream of the Produce Avenue Bridge during the quarterly inspections.

Utah Avenue to Bay

The sink hole at the culvert behind 222 Littlefield Avenue observed during previous quarterly inspections has been repaired. Fresh soil piles (source unknown at this time) have been observed in the area. Other soil piles were also observed adjacent to the Southern Pacific Railroad right of way behind

320 Harbor Way. District staff has notified the City of these observations through the City's See-Click-Fix application.

Mike shared that Union Pacific is using this area as a waste station. Eunejune will investigate with Code Enforcement to see if this is illegal dumping.

Sea Level Rise Preparedness

The District has received and currently reviewing the preliminary results of the updated hydrologic and hydraulic models for the Colma Creek flood control channel and Navigable Slough. The updated models include several conditions including climate change and sea level rise, and a scenario with the proposed design elements of the channel walls between Utah Avenue and Navigable Slough incorporated to confirm that they will provide the intended protection. The results will be presented and discussed at a future Advisory Committee meeting.

Mike requested to meet with Jim, Ann and Larry to discuss the building of a city bridge across Colma Creek and how high the bridge should be. Ken Anderson suggested to include these projects in the Hazard Mitigation Plan.

Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)

The 60% design plans for the Project were provided to the District on July 29, 2019 and are currently being reviewed.

Colma Creek Technical Advisory Committee (TAC)

The TAC met on August 6, 2019. The TAC discussed work being performed or anticipated by City and Town staff or contractors under the MOAs.

The TAC reviewed the draft financial summary presented at the June 11, 2019 Citizens Advisory Committee meeting. Several recommendations to the format and content of the summary have been adopted and incorporated into the current modified version which is to be distributed as a handout at the September 10, 2019 meeting.

The TAC also reviewed the draft technical report and 50-year storm event result of the updated hydrologic and hydraulic models for the Colma Creek flood control channel and Navigable Slough. The 50-year storm event result, which corresponds to the current design standard for the zone, for the lower reach of the Colma Creek channel from the new model compares very well with that of the model developed by WRECO, the consultant tasked to design the proposed walls between Utah Avenue and Navigable Slough.

IV. DISCUSSION ITEMS

- Colma Creek Flood Control Zone Financial Summary
Summary provides the list of projects showcasing the expenditures vs revenue as well as information of revenue trends for the past nine fiscal years.

Current fund balance of \$23.8 million.

Utah Avenue and Navigable Slough project will cost roughly \$5 million to construct.

Discussed how to move from maintenance of infrastructures built for 50-year protection to building new infrastructures with 100-year storm protection. Advisory committee needs to discuss where they would like to have the design storm to be. Hydraulic model being developed will be able to map where the water is likely to get out of the channel. The Committee was reminded that the lower reach of Colma Creek often floods during King Tides, where water backs up causing tidal flooding.

The Committee also reviewed the new draft financial summary (version 2). Mike confirmed that the new version incorporated the details he requested.

- Colma Creek CIP Project List
- Updates to San Mateo County Flood and Sea Level Rise Resiliency District (FSLRRD)

Larry informed the Committee that AB825 (amending the current San Mateo County Flood Control District Act) passed the State Assembly and Senate and is currently on the Governor's desk. It is anticipated to be activated on January 1, 2020. The new Board-in-Waiting meets every month.

- Added to the Agenda

Terms for Members of the Colma Creek Advisory Committee – Richard will provide copy of City Council meeting minutes appointing the council member to replace Judith Christensen in representing the City of Daly City.

V. ACTION ITEMS

- None

ADJOURNMENT

NEXT MEETING – Tuesday, December 10, 2019

San Mateo County Flood Control District
Colma Creek Flood Control Zone Citizens Advisory Committee

Meeting Minutes
Tuesday, December 10, 2019

AGENDA:

I. CALL TO ORDER

Helen Fisicaro called to order the regular meeting of the Colma Creek Flood Control Zone Citizens Advisory Committee at 3:10 pm on Tuesday, December 10, 2019 in the City of South San Francisco – Corporation Yard Conference Room, 550 North Canal Street, South San Francisco.

II. ROLL CALL

Members:

Present	Absent	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Helen Fisicaro, Chair – Town of Colma
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Irene O’Connell – City of San Bruno
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sue Vaterlaus – City of Pacifica
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Richard Irli, Member at Large – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Kamala Cynthia Silva Wolfe, Member at Large – City of South San Francisco
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mike Futrell – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Gail DeFries, Member at Large – City of Daly City
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ed Bortoli, Member at Large – City of South San Francisco
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Raymond Buenaventura, Member at Large – City of Daly City

Staff:

Present	Absent	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Larry Patterson – County of San Mateo (County Flood and Sea Level Rise Resiliency District FSLRRD)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ann Stillman – County of San Mateo/San Mateo County Flood Control District
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Jim Porter – County of San Mateo (Director of PW/San Mateo County Flood Control District)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Michael Barber – County of San Mateo/Supervisor Dave Pine’s Office
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mark Chow – County of San Mateo/San Mateo County Flood Control District
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Erika Powell – San Mateo County Flood Resiliency Program
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Brad Donohue – Town of Colma
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Eunejune Kim – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Catherine Misener – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Matthew Ruble – City of South San Francisco
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ken Anderson – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Richard Chiu – City of Daly City
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dave Bockhaus – City of South San Francisco
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Louis Langi – City of South San Francisco
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jimmy Tan – City of San Bruno
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ryan Mayfield – City of San Jose
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dave Pine – SMC

III. APPROVAL OF MINUTES OF SEPTEMBER 10, 2019 MEETING

No action was taken due to lack of quorum.

IV. PUBLIC COMMENT

No comments from the public.

V. COLMA CREEK HYDROLOGIC AND HYDRAULIC MODELING ANALYSIS PRESENTATION – PARADIGM ENVIRONMENTAL AND NORTHWEST HYDRAULIC CONSULTANTS, INC.

A copy of the presentation (in Adobe Acrobat format) by the Paradigm/NHC consultant team on the Colma Creek and Navigable Slough Hydrologic and Hydraulic Modelling Project was distributed to the Committee members and meeting attendees on Dec. 11, 2019 by electronic mail.

VI. DISTRICT PROJECTS, ETC.: SUMMARIZED IN A HANDOUT AND OPEN FOR ADDITIONAL DISCUSSION

El Camino Box Culvert and Mission Road Diversion Structure

District staff solicited proposals from contractors for the box culvert maintenance and repairs identified by the condition assessment study completed in 2018. However, due to the complexity and amount of work required no proposals were submitted in time to allow the work to be completed within the 2019 permitted construction window. This work will be re-scheduled for the summer of 2020.

Continue to monitor, work to be done next year.

BART Co-op Project

There is no update on this project.

Colma Creek Improvements between Spruce and San Mateo Avenues

The District continues to monitor this section of channel regularly for wall movement or settlement at a segment of the south wall immediately downstream of the San Mateo Avenue Bridge.

Continue to monitor section of channel as quarterly inspections are performed.

Mitigation Sites Downstream of Utah Avenue

Ecological Concerns, Inc. (ECI) performed invasive vegetation monitoring at Mitigation Sites 2a and 3 in September 2019.

District staff and Sheriff Work Program (SWP) participants continue to perform watering, weeding, and trash pick-ups at the five Mitigation Sites (2a, 2b, 2c, 3, and 4). The next SWP cleanup date has been scheduled for December 7, 2019.

The District hosted Coastal Cleanup Day on September 21, 2019, with the assistance of the City of S. San Francisco's (City) Environmental Compliance Program. A total of 96 volunteers attended the event and collected approximately 6.34 cubic yards of trash. A volunteer planting event with ECI is planned for January 2020.

The amount of trash removed from the Mitigation Sites in 2019 to date is 29.13 cubic yards. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2019.

Work continues at Mitigation sites

- *worked with ECI to remove invasive vegetation in two of the sites (2a, 3)*
- *worked with Sheriff Work Program at five sites down at the mouth*
- *table featured recorded amount of trash removed from the sites downstream of Utah Avenue for 2019*

Year	Amount of Trash Removed (Cubic Yard)	Event Dates
2019	29.13	1/12, 1/26, 2/9, 2/23, 3/30, 4/13, 4/20, 5/4, 5/18, 6/8, 7/27, 8/10, 9/7, 9/21, 10/19, 11/16
Total (2005-2019)	677.89	

Maintenance of Existing Channel

The quarterly inspection of the Colma Creek Flood Control Channel was performed on November 18, 2019 (See Maintenance Matrix Binder). Representatives from the City accompanied District staff during the inspection. Illegal dumping, graffiti, and homeless encampment activities were observed during the inspection in the San Mateo Avenue bridge and Produce Avenue bridge vicinities. Issues requiring enforcement by the City or the Town of Colma (Town) have been forwarded to the respective entity.

As previously reported, the District submitted to the regulatory agencies a list of the maintenance work planned for the 2019 season (typically June through October). County's Job Order Contractor, Staples Construction, along with subcontractor, Glissmann Extraction, completed the following activities for a total cost of \$117,216.88:

1. Dredging of sediment between the San Mateo Avenue bridge and the Caltrain bridge;
2. Repairs to seven culverts in between the dissipater teeth (upstream of Spruce Avenue) and Orange Avenue;
3. Spalling concrete repairs at the top of the channel wall at two locations near the 12-mile Creek confluence;
4. Channel bottom joint repair to a section upstream of Chestnut Avenue;
5. Repairs to the bottom of four culverts near Antoinette Lane;
6. Box culvert maintenance to the culvert under El Camino Real and Mission Road; ***This item was not completed or included in the total cost. To be done in 2020.***
7. Repairs to expansion joints in sections downstream of the Mission Road culvert to McLellan Drive; ***This item was not completed or included in the total cost. To be done in 2020.***
8. Removal of overgrown vegetation in channel between the dissipater teeth (upstream of Spruce Avenue) and the Orange Avenue bridge.
9. Hauling of the 2018 dredged sediment and the 2019 dredged sediment to Ox Mountain Landfill for disposal.

The above activities took place between October 16, 2019 and November 1, 2019, with sediment disposal taking place between November 12-15, 2019. Photographs of some of these activities during construction have been included in the inspection summary of the Maintenance Matrix Binder. District staff were on site and monitored all construction activities, ensuring environmental compliance of all agency permits.

Unfortunately, contractors were not able to provide proposals acceptable to the District for

the repairs to the El Camino Real and Mission Road box culverts and the channel expansion joints in the BART section for completion in 2019. District staff is in the process of developing the post-construction report for the completed 2019 maintenance activities which is required by the permits.

Maintenance binder passed to each attendee for review.

Of maintenance work planned/proposed for 2019 season, two of nine projects listed above will be carried over from 2019 season to 2020.

Produce Avenue – Channel Wall Project

The District continues to monitor the channel walls immediately upstream and downstream of the Produce Avenue Bridge during the quarterly inspections.

Nothing to report.

Utah Avenue to Bay

Reoccurring illegal dumping has been observed downstream of the Utah Avenue bridge, specifically in the immediate vicinity of 325 Corey Way (located adjacent to Colma Creek) and along the Colma Creek access road. District staff has notified the City of these observations through the City's See-Click-Fix application.

The District was notified in October by FEMA and CalOES that Hazard Mitigation Grant Program funding for the Colma Creek Flood Control Channel Improvement Project from Utah Avenue to Navigable Slough was approved. The grant will provide \$3 million dollars of the estimated \$4.28 million needed to construct the Project. The District is in the process of finalizing the Project construction documents and is moving forward with permit applications. Construction is anticipated to begin in the summer of 2020.

Use of See-Click-Fix app to report illegal dumping to SSF. Grant program funding approved; successful outcome of years-long item, with work to begin in summer of 2020.

Sea Level Rise Preparedness

The District has reviewed the preliminary results of the updated hydrologic and hydraulic models for the Colma Creek flood control channel and Navigable Slough and provided comments to the consultant team. The consultant team will be presenting the results to the Committee at this meeting. A final report is expected to be available in January 2020.

Presentation report on model. Updated hydraulic model results in lower discharges into the channel. Under current climate conditions, Colma Creek can pass a 50-year storm with 2 ft. of freeboard for much of the channel.

Mark Chow: What improvements can be made to increase protection?

Presenter: Check as-builts and develop conceptual ideas.

Eunejune Kim: On 100 Year future scenario, what is the prediction of energy disruption on upper section to free up freeboard on end?

Presenter: Result may be inevitable, might choke up because of the bay.

Attendee: Next steps as far as Colma Creek is concerned?

Presenter: Model yields results for review, enabling current committee to make

recommendation to new board if design standards should be changed for channel. The model shows where water will overtop in different storm scenarios, and the data may inform your decisions on where it makes sense to do Capital Improvement Projects to stop water from going out of the channel, and also what the cost benefit ratio of doing that would be.

Final thought: Digest data presented, and decide whether to recommend change in design.

Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)

The 60% design plans for this project were provided to the District on July 29, 2019 and comments were provided to Lotus Water, the City's consultant, on October 4, 2019.

SSF invited to provide comments on item.

Colma Creek Technical Advisory Committee (TAC)

The TAC did not meet during this quarter.

VI. DISCUSSION ITEMS

- Colma Creek Flood Control Zone Financial Summary
 - *Presented by Ann Stillman and Mark Chow.*
- Colma Creek CIP Project List
- San Mateo County Flood and Sea Level Rise Resiliency District (FSLRRD)
 - *County Board of Supervisors approved transfer of SMCFCFCD assets and contract with County Department of Public Works to continue work for flood control zones through a Master Service Agreement.*
 - *New District Board of Directors will be responsible for considering recommendations for next steps utilizing the Colma Creek model results.*
 - *New District website domain: OneShoreline.org*
 - *New District address: 1700 S. El Camino Real, Suite 502, San Mateo, CA 94402*

VI. ACTION ITEMS

- Requested that Eunejune Kim forward copy of charts to South San Francisco City Manager for review
- No action was taken due to lack of quorum. However, it was decided that the Committee would meet on March 10, 2020.

ADJOURNMENT

NEXT MEETING – Tuesday, March 10, 2020

AGENDA ITEM 5

**San Mateo County Flood and Sea Level Rise Resiliency District
Colma Creek Flood Zone
Citizens Advisory Committee Meeting
Tuesday, September 8, 2020, 3:00 pm (Remote Meeting)**

**Summary on the Status of the Colma Creek Flood Zone
Projects, Maintenance, Repair, and Technical Advisory Committee Meetings**

El Camino Box Culvert and Mission Road Diversion Structure

County staff have solicited proposals from contractors for the box culvert maintenance and repairs identified by the condition assessment study completed in 2018. A proposal has been submitted by a Job Order Contracting (JOC) contractor (Andreini Bros. Inc.) for all of the planned 2020 maintenance work described under the Maintenance of Existing Channel section below, including box culvert repairs estimated to cost approximately \$550,000. County staff are negotiating the cost with the contractor and anticipate moving forward in September 2020. Due to the amount of work involved and the short work window allowed by the Long-term Maintenance Permits, we may arrange for the work to be completed over two construction seasons (2020 and 2021).

BART Co-op Project

There is no update on this project.

Colma Creek Improvements between Spruce and San Mateo Avenues

County staff continues to monitor a segment of the south wall immediately downstream of the San Mateo Avenue Bridge for wall movement. Under the Long-term Maintenance Permit, the District will continue dredging sediment in the area between the Caltrain mainline bridge and San Mateo Avenue that last year's effort could not remove due to the 400 cubic yards per year limit imposed by the permits.

Mitigation Sites Downstream of Utah Avenue

Mitigation site maintenance continued with the hand-pulling of Algerian sea lavender, a non-native plant designated for eradication by the Invasive Spartina Project (ISP). This plant has created monocultures that reduce native plant populations in many Bay Area marshes, including Oyster Point. ISP has also received funding to conduct invasive species eradication efforts throughout the Colma Creek watershed and San Bruno mudflats. County staff and ISP will continue to work together to eradicate this invasive plant.

Following the COVID-19 temporary work suspension from March through May 2020, the Sheriff's Work Program (SWP) activities were reinitiated in June in compliance with COVID-19 restrictions. As a result of these COVID-19 restrictions, less trash could be removed this year as compared to last year, resulting in more trash accumulation. The following table summarizes the amount of trash removed from the Mitigation Sites since 2005 and the trash pick-up dates in 2020.

Year	Trash Removed in cubic yards	Event Dates
2020	13.62	1/4, 1/11, 1/25, 2/8, 2/22, 3/7, 6/20, 7/25, 8/22
Total (2005-2020)	694.04	

An additional 201.47 cubic yards of trash has been removed from other sites along the channel since 2005 for a total of 895.25 cubic yards.

Maintaining the Existing Channel

The quarterly inspection of the Colma Creek Flood Control Channel was performed on August 17, 2020 (see attached photos) by staff from the County and the City of South San Francisco (SSF). Increased illegal dumping and homeless encampment activities were observed in the typical locations, including the Creek access roads (Caltrain right-of-way and Union Pacific Railroad property downstream and upstream of Utah Avenue), and under the Highway 101 bridge. Issues requiring action by SSF or the Town of Colma (Colma) were forwarded to the respective entity.

As mentioned in the June 9, 2020 Advisory Committee project summary, the maintenance work planned for the 2020 season (typically June through October) and the 2020 notification report was submitted to the appropriate agencies on May 21, 2020. The final list of maintenance work includes:

1. Bank vegetation management (various locations);
2. Dredging of sediment between the Caltrain mainline bridge and San Mateo Avenue bridge;
3. Culvert spalling repair downstream of the Spruce Avenue bridge;
4. Repair or replacement of the corroded chain link fence and posts on the north and south banks/channel walls between Spruce Avenue and Orange Avenue;
5. Channel bottom repair at three locations between Centennial Way pedestrian bridge and the S. San Francisco BART Station box culvert outlet;
6. Culvert outlet repairs at two locations downstream of the S. San Francisco BART Station box culvert outlet;
7. Vegetation management along the channel and fences between Orange Avenue and Spruce Avenue, and within Sister Cities Park;
8. Expansion joint repairs between McLellan Drive and the Mission Road box culvert outlet;
9. Fence railing repairs between McLellan Drive and the Mission Road box culvert outlet;
10. El Camino Real and Mission Road box culvert repairs (Grade 2 and 3 defects identified by the 2018 Condition Assessment Report);
11. Graffiti abatement (various locations).

A map showing the locations of the proposed maintenance work was also provided with the June 9, 2020 project summary. Items #1 and #11 above are typically performed by SSF and Colma staff or their contractors throughout the year under the Memorandum of Agreements (MOA) with the former San Mateo County Flood Control District; however, the MOAs expired on June 30, 2020. The City and Town must execute new MOAs with the San Mateo County Flood and Sea Level Rise Resiliency District (FSLRRD) for these activities to continue in this format.

The proposal from Andreini Bros. Inc. for the work items listed above total approximately \$1.7 million, with the majority of the cost (approx. \$1.2 million) attributed to the channel expansion joint repairs and the El Camino Real/Mission Road box culvert repairs (items #8 and #10). As stated in the El Camino Real Box Culvert and Mission Road Diversion Structure section above, County staff are currently in negotiations with the contractor to finalize the cost and anticipate moving forward with this work in September 2020. Due to the amount of work involved and the short work window allowed by the Long-term Maintenance Permits, we are in discussion with the contractor to potentially complete the work over two construction seasons (2020 and 2021).

Produce Avenue – Channel Wall Project

County staff continue to monitor the channel walls immediately upstream and downstream of the Produce Avenue Bridge, particularly at a drainage outlet on the northeast wall. A proposal to design and install micropiles and tiebacks and other related work to restrain movement of the existing

sheetpile walls on all sides of the Produce Avenue bridge was received by the County for approximately \$1 million and has been shared with FSLRRD and the Colma Creek Technical Advisory Committee. The FSLRRD has asked County staff to put this project on hold while it reviews the geotechnical investigation and alternative evaluation report for this proposed work.

Utah Avenue to San Francisco Bay

Recurring illegal dumping has been observed along the Colma Creek access road. County staff has notified SSF of these observations through the City's See-Click-Fix application. SSF has also completed its annual vegetation maintenance along the San Francisco Bay Trail. Unfortunately, this vegetation maintenance work removed native vegetation at Mitigation Site 2, which may have impacted the success of the mitigation, an issue that County staff has discussed with City staff. Also in Mitigation Site 2, and beneath the Utah Avenue bridge, homeless encampments were recently observed and will continue to be monitored.

In May 2020, County staff and Ecological Concerns, Inc. (ECI), performed invasive vegetation removal of highly invasive perennial pepperweed on Mitigation Site 3. During the quarterly inspection earlier this month, a large patch of perennial pepperweed was discovered outside of Mitigation Site 3 along the San Francisco Bay Trail and within SSF jurisdiction (City staff have been notified).

As mentioned in previous project summaries, in December 2019 FEMA awarded a \$3 million Hazard Mitigation Grant Program for the Colma Creek Flood Control Channel Improvement Project from Utah Avenue to Navigable Slough. The grant amount is estimated to equal about 70% of the \$4.28 million cost to construct the Project. The County, on behalf of the District, had been working to finalize the Project design and prepare applications for environmental regulatory permits. Construction would need to begin in the summer of 2021 and be completed in February 2022 to meet grant requirements. In July 2020, FSLRRD's CEO directed County staff to pause this work as FSLRRD staff and others analyze project alternatives; a pause that will likely impact the FEMA grant. At the September 8, 2020 Committee meeting, FSLRRD's CEO will discuss this project.

Sea Level Rise Preparedness -- No update

Multi-jurisdictional Regional Stormwater Capture Project at Orange Memorial Park (SSF and San Mateo Countywide Water Pollution Prevention Program)

The 100% design of this project was provided to the District on April 29, 2020. County staff have not completed their review of the project; on August 11, 2020, FSLRRD and SSF staff met to discuss it.

Colma Creek Technical Advisory Committee (TAC)

The TAC met remotely on July 23, 2020 to discuss and approve the following two projects on the Flood Zone's Capital Improvement Project list:

1. Colma Creek Channel Discharge Pipe Repair/Replacement Project between US-101 and Utah Avenue bridges to repair/replace the deteriorated discharge pipes/outfalls along this segment of the channel. Per the Colma Creek Long-term Maintenance Project Permit, this project needs to be completed by March 2022. Because this project may impact discharge culverts in SSF's right-of-way, SSF must soon confirm a few items with County staff. This project was reviewed with the FSLRRD in early August and approved to move forward.
2. The Produce Avenue – Channel Wall Project to install micropiles and tiebacks in order to stabilize the existing concrete sheetpiles that have moved and to prevent further erosion behind the walls. As discussed above, the FSLRRD has paused this project pending further study.

Colma Creek Flood Control Channel Maintenance Matrix Monitoring Photos

Survey Date: August 17, 2020

Mouth to Produce Avenue Maintenance Segment



Photos 1 & 2 – Top photo shows invasive weed, perennial pepperweed, observed off the San Francisco Bay Trail and behind 310 Utah Avenue (outside of Mitigation Site 3). **Perennial pepperweed is highly invasive and it is recommended that SSF work to eradicate this patch.** Bottom photo shows Colma Creek looking downstream from the Bay Trail pedestrian bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 3, 4 & 5 – Top photo shows Colma Creek looking upstream from the Bay Trail pedestrian bridge. Middle photo shows native vegetation within Mitigation Site 2 removed by SSF maintenance crew, presumably to discourage homeless activities. Bottom photo shows homeless encampment activity on Mitigation Site 2. SSF and County staff to work together to prevent similar action from occurring in the future.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 6 & 7 – Top photo shows continued illegal dumping that persists on the Colma Creek service road. SSF has been notified of these observations through See-Click-Fix and e-mail. Local businesses have also been contacted for installing security cameras to discourage illegal dumping. Bottom photo shows Colma Creek looking downstream from the Utah Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 8 & 9 – Top photo shows Colma Creek looking upstream from the Utah Avenue bridge. Bottom photo shows homeless encampment activity beneath the Utah Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 10 & 11 – Top photo shows evidence of soil spoil deposited on the bank of Colma Creek channel from outside of the wall. Bottom photo shows trash accumulation between the Utah Avenue bridge and Mitchell Road. **Due to COVID-19 work suspension and restrictions, recent Sheriff Work Program events have focused on cleaning up the mitigation sites and planting efforts.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 12 & 13 – Top photo shows Colma Creek looking downstream toward the Utah Avenue bridge. Considerable trash and debris, along with illegal dumping, was observed. Bottom photo shows Colma Creek looking upstream toward the South Airport Boulevard bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 14, 15, & 16 – Top photo shows Colma Creek looking downstream from South Airport Boulevard bridge. Middle photo shows new graffiti observed at the southeast corner of the South Airport Boulevard bridge. Bottom photo shows trash accumulating at the Highway 101 storm drain inlet modified by the property owner without CalTrans or District permission or knowledge.

Colma Creek Flood Control Channel Maintenance Matrix Monitoring Photos

Survey Date: August 17, 2020

Produce Avenue to the Dissipater Teeth Maintenance Segment:



Photos 17 & 18 – Top photo shows Colma Creek looking downstream from the Produce Avenue bridge; homeless activity stemming from the Highway 101 bridge encampment observed throughout the area, as well as downstream. **CalTrans has been notified of the encampment.** Bottom photo shows Colma Creek looking upstream from the Produce Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 19 & 20 – Top photo shows Colma Creek looking downstream from the San Mateo Avenue bridge. Bottom photo shows section of channel dredged in 2019 looking upstream from the San Mateo Avenue bridge. The sediment bar remained from 2019 will be dredged during the 2020 maintenance season.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 21 & 22 – Top photo shows Colma Creek looking downstream from the Linden Avenue bridge. Bottom photo shows Colma Creek looking upstream from the Linden Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix
Monitoring Photos
Survey Date: August 17, 2020
Dissipater Teeth to Old Channel Maintenance Segment



Photos 23 & 24 – Top photo shows Colma Creek looking downstream from the Spruce Avenue bridge. Bottom photo shows Colma Creek looking upstream from the Spruce Avenue bridge.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 25 & 26 – Top photo shows Colma Creek looking upstream from the Orange Avenue bridge. Bottom photo shows Colma Creek looking upstream from the Orange Skate Park bridge. Sediment accumulation observed throughout the channel between the Orange Avenue and Chestnut Avenue.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 27 & 28 – Top photo shows Colma Creek looking downstream from the Centennial Way pedestrian bridge. Bottom photo shows Colma Creek looking upstream from the Centennial Way pedestrian bridge. **Offensive graffiti throughout this section of the channel were painted over by the SSF maintenance staff.**

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 29 & 30 – Top photo shows channel bottom damage within Colma Creek. **Three areas with similar damage are to be repaired as part of the 2020 maintenance work.** Bottom photo shows Colma Creek looking downstream from the SSF BART Station box culvert.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 31 & 32 – Top photo shows new graffiti observed on the channel wall upstream of McLellan Drive and across from the Trader Joe's. Bottom photo shows Colma Creek looking upstream from the Costco pedestrian bridge. **Contractor retained by the Town of Colma recently cleared vegetation from the north bank and from within the channel's weep holes and joints. This work was authorized by County staff under the Memorandum of Agreement prior to its expiration.**

Colma Creek Flood Control Channel Maintenance Matrix
Monitoring Photos
Survey Date: August 17, 2020
BART Maintenance Segment to the El Camino Real Culvert



Photos 33 & 34 – Top photo shows Colma Creek following vegetation maintenance by Town of Colma's contractor. Bottom photo shows Colma Creek looking downstream from the Mission Road box culvert outlet.

Colma Creek Flood Control Channel Maintenance Matrix

Monitoring Photos

Survey Date: August 17, 2020



Photos 35 & 36 – Top photo shows new graffiti at the diversion structure to Old Colma Creek. Bottom photo shows Old Colma Creek channel downstream of the El Camino Real bridge at the Mission Road intersection. **Previously observed overhanging tree branches have been cleared by the Town of Colma.**