

BOARD OF DIRECTORS

<u>City of Stockton</u> Kimberly Warnsley Dan Wright Alt. Susan Lenz	<u>Public Member</u> TBD	<u>San Joaquin County</u> Paul Canepa Miguel Villapudua Alt. Robert Rickman
<u>City of Manteca</u> Gary Singh Charlie Halford	<u>Executive Director</u> Chris Elias	<u>City of Lathrop</u> Paul Akinjo Diane Lazard

BOARD MEETING – In Person
ALTERNATE LOCATION
Council Chamber – City Hall
425 N. El Dorado Street, Stockton
THURSDAY, JANUARY 26, 2023, 9 A.M.

1. CALL TO ORDER / ROLL CALL

2. PLEDGE TO FLAG

3. ELECTION OF OFFICERS

3.1) Elect a chair and vice-chair for the SJAFCA Board of Directors

3.2) Recognition of outgoing Chair

4. CONSENT ITEMS

4.1) Approve Minutes from the December 15, 2022, Board Meeting

5. NEW BUSINESS

5.1) Adopt a Resolution to accept Independent Auditor's Report and Financial Statements for the fiscal year ending June 30, 2022

5.2) Adopt a Resolution authorizing amendments to consultant contracts with Kjeldsen, Sinnock, Neudeck, Inc., for additional services during construction of the Smith Canal Gate Project

5.3) Augmentation of prequalified list of firms to provide professional real estate services in support of the agency's ongoing flood protection projects

6. BRIEFINGS

6.1) Briefing regarding the proposed Levee Construction and Maintenance Assessment (LCMA) District assessment methodology

6.2) Public Board member applications due February 1, 2023

7. ORAL REPORT FROM EXECUTIVE DIRECTOR

8. PUBLIC COMMENTS

9. BOARD QUESTIONS, COMMENTS, ACTIONS

10. ADJOURNMENT

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the Board's office at (209) 937-7900 or (209) 937-7115 (fax). Requests must be made one full business day before the start of the meeting.

Agenda Item 3.1

January 26, 2023

TO: San Joaquin Area Flood Control Agency

FROM: Chris Elias, Executive Director

SUBJECT: **ELECTING A CHAIR AND VICE-CHAIR FOR THE SJAFCA BOARD OF DIRECTORS**

RECOMMENDATION

It is recommended that the Board of Directors of the San Joaquin Area Flood Control Agency (SJAFCA) approve and adopt a resolution electing a Chair and Vice-Chair for the SJAFCA Board of Directors.

DISCUSSION

Background

On November 16, 2017, per SJAFCA Resolution No. 17-20, the Board approved SJAFCA's amended and restated Joint Exercise of Powers Agreement (JEPA) to include the following member agencies: City of Stockton, County of San Joaquin, San Joaquin County Flood Control and Water Conservation District, City of Lathrop and City of Manteca.

The amended and restated JEPA states that leadership of the Board should rotate on an annual basis, with the Chair position being held by the County, then Stockton, then Lathrop, then Manteca, with the rotation then repeated.

At the first Board meeting of 2018, held on February 26, then Chair Miller, County of San Joaquin and then Vice-Chair Andrade, City of Stockton were each re-elected for an additional one-year term to ensure continuity of leadership during the expansion of the SJAFCA to include additional member agencies.

At the first Board meeting of 2019, held on February 7, the election of officers resulted in Chair Andrade, City of Stockton, and Vice-Chair Singh, City of Manteca, both elected to one-year terms.

At the first Board meeting of 2020, held on January 16, the election of officers resulted in Chair Singh, City of Manteca, and Vice-Chair Winn, County of San Joaquin, both elected to one-year terms.

At the first Board meeting of 2021, held on January 28, the election of officers resulted in Chair Winn, County of San Joaquin and Vice-Chair Wright, City of Stockton, both elected to one-year terms.

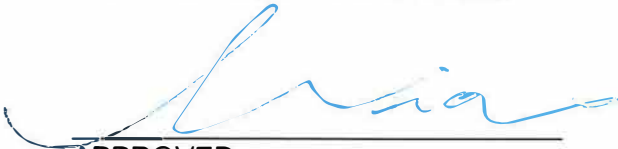
At the first Board meeting of 2022, held on January 27, the election of officers resulted in Chair Wright, City of Stockton and Vice-Chair Singh, City of Manteca, both elected to one-year terms.

Present Situation

It is recommended that the 2023 Chair be elected from the City of Manteca to serve one term in accordance with the Agency's JEPA. Since the JEPA does not provide direction as to the rotation of the Vice-Chair position, members of the Board are requested to nominate and vote for one of its current members to fill that position.

The positions of the 2023 Chair and Vice-Chair will become effective immediately after the Board takes action.

PREPARED BY: Leanne Randall



APPROVED:
CHRIS ELIAS
EXECUTIVE DIRECTOR

ATTACHMENT 1: Historical Listing of Chair and Vice-Chair

Appointments CE:lr

HISTORICAL LISTING

San Joaquin Area FLOOD CONTROL Agency

CHAIR APPOINTMENTS

Year	Title	Name	Took Office	County/City	Resolution
1995	Chair	Floyd Weaver	May 25, 1995		95-01
1996	Chair	Floyd Weaver	August 7, 1996		96-21
1997	Chair	George Barber	February 5, 1997		97-01
1998	Chair	Duane Isetti	February 4, 1998		98-04
1999	Chair	Edward A. Simas	March 1, 1999		99-01
2000	Chair	Larry Ruhstaller	March 1, 2000	Stockton	00-01
2001	Chair	Victor Mow	March 1, 2001	SJ County	01-03
2002	Chair	Larry Ruhstaller	March 1, 2002	Stockton	02-01
2003	Chair	Jack Sieglock	March 1, 2003	SJ County	03-01
2004	Chair	Gary Giovanetti	March 1, 2004	Stockton	04-01
2005	Chair	Victor Mow	March 1, 2005	SJ County	05-05
2006	Chair	Clem Lee	March 1, 2006	Stockton	06-01
2007	Chair	Victor Mow	March 1, 2007	SJ County	07-01
2008	Chair	Steve J. Bestolarides	March 1, 2008	Stockton	08-01
2009	Chair	Frank L. Ruhstaller	March 1, 2009	SJ County	09-02
2010	Chair	Diana Lowery	January 20, 2010	Stockton	10-01
2011	Chair	Steve J. Bestolarides	January 26, 2011	SJ County	11-01
2012	Chair	Dale Fritchen	February 1, 2012	Stockton	12-01
2013	Chair	Frank L. Ruhstaller	January 30, 2013	SJ County	13-01
2014	Chair	Katherine M. Miller	January 29, 2014	Stockton	14-01
2015	Chair	Katherine M. Miller	February 25, 2015	SJ County	15-01
2016	Chair	Elbert Holman	January 21, 2016	Stockton	16-01
2017	Chair	Katherine M. Miller	February 2, 2017	SJ County	17-01
2018	Chair	Katherine M. Miller	February 26, 2018	SJ County	18-01
2019	Chair	Jesús M. Andrade	February 7, 2019	Stockton	19-01
2020	Chair	Gary Singh	January 16, 2020	Manteca	20-01
2021	Chair	Chuck Winn	January 17, 2020	SJ County	21-02
2022	Chair	Dan Wright	January 27, 2021	Stockton	22-01

HISTORICAL LISTING

San Joaquin Area FLOOD CONTROL Agency

VICE-CHAIR APPOINTMENTS

Year	Title	Name	Took Office	County/City	Resolution
1995	Vice-Chair	George Barber	May 25, 1995		95-01
1996	Vice-Chair	George Barber	August 7, 1996		96-21
1997	Vice-Chair	Duane Isetti	February 5, 1997		97-01
1998	Vice-Chair	Edward A. Simas	February 4, 1998		98-04
1999	Vice-Chair	Larry Ruhstaller	March 1, 1999		99-01
2000	Vice-Chair	Jack Sieglock	March 1, 2000	SJ County	00-01
2001	Vice-Chair	Richard F. Nickerson, M.D.	March 1, 2001	Stockton	01-03
2002	Vice-Chair	Jack Sieglock	March 1, 2002	SJ County	02-01
2003	Vice-Chair	Gary Giovanetti	March 1, 2003	Stockton	03-01
2004	Vice-Chair	Victor Mow	March 1, 2004	SJ County	04-01
2005	Vice-Chair	Clem Lee	March 1, 2005	Stockton	05-05
2006	Vice-Chair	Victor Mow	March 1, 2006	SJ County	06-01
2007	Vice-Chair	Steve Bestolarides	March 1, 2007	Stockton	07-01
2008	Vice-Chair	Larry Ruhstaller	March 1, 2008	SJ County	08-01
2009	Vice-Chair	Diana Lowery	March 1, 2009	Stockton	09-02
2010	Vice-Chair	Steve Bestolarides	January 20, 2010	SJ County	10-01
2011	Vice-Chair	Dale Fritchen	January 26, 2011	Stockton	11-01
2012	Vice-Chair	Ken Vogel	February 1, 2012	SJ County	12-01
2013	Vice-Chair	Katherine M. Miller	January 30, 2013	Stockton	13-01
2014	Vice-Chair	Steve Bestolarides	January 29, 2014	SJ County	14-01
2015	Vice-Chair	Elbert Holman	February 25, 2015	Stockton	15-01
2016	Vice-Chair	Carlos Villapudua	January 21, 2016	SJ County	16-01
2017	Vice-Chair	Jesús M. Andrade	February 2, 2017	Stockton	17-01
2018	Vice-Chair	Jesús M. Andrade	February 26, 2018	Stockton	18-01
2019	Vice-Chair	Gary Singh	February 7, 2019	Manteca	19-01
2020	Vice-Chair	Chuck Winn	January 16, 2020	SJ County	20-01
2021	Vice-Chair	Dan Wright	January 17, 2020	Stockton	21-02
2022	Vice-Chair	Gary Singh	January 27, 2021	Manteca	22-01

**RESOLUTION NO. SJAFCA 23-01
SAN JOAQUIN AREA
FLOOD CONTROL AGENCY**

=====

**RESOLUTION ELECTING A CHAIR AND VICE-CHAIR FOR THE SAN JOAQUIN AREA
FLOOD CONTROL AGENCY BOARD OF DIRECTORS**

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN JOAQUIN AREA
FLOOD CONTROL AGENCY, AS FOLLOWS:

1. The Chair and the Vice-Chair are elected at the first scheduled Board meeting of the year. The Chair is elected based upon the rotation schedule (San Joaquin County, Stockton, Lathrop, Manteca, then repeat) in accordance with the Agency's Amended and Restated Joint Exercise of Powers Agreement. The Vice-Chair is elected among its members. There is no specified rotation schedule.
2. The Chair and the Vice-Chair will hold office for one year.
3. The following persons are hereby elected:

_____ CHAIR

_____ VICE-CHAIR

PASSED, APPROVED AND ADOPTED this 26th day of January, 2023

DAN WRIGHT, Chair
Of the San Joaquin Area
Flood Control Agency

ATTEST:

CHRIS ELIAS, Secretary
of the San Joaquin Area
Flood Control Agency

APPROVED AS TO FORM:

SCOTT L. SHAPIRO, Legal Counsel
For the San Joaquin Area
Flood Control Agency

Agenda Item 4.1

MINUTES
SAN JOAQUIN AREA FLOOD CONTROL AGENCY
BOARD MEETING OF DECEMBER 15, 2022

STOCKTON, CALIFORNIA

1. CALL TO ORDER / ROLL CALL 9:00 AM

Roll Call

Present:

Director Akinjo
Director Halford
Director Singh
Director Warmesley
Director Wright

Absent:

Director Lazard
Director Miller
Director Winn

2. PLEDGE TO FLAG 9:00 AM

3. CONSENT ITEMS 9:01 AM

- 3.1) Approve Minutes from the October 20, 2022, Board Meeting.

PUBLIC COMMENT:

- Dominick Gulli submitted comments in writing and shared comments during the meeting for all to hear.

Motion: To approve Minutes from the October 20, 2022, Board meeting

Moved by: Director Warmesley, Seconded by Director Singh

Vote: Motion carried 5-0

Yes: Director Akinjo, Director Halford, Director Singh, Director Warmesley, Director Wright

Absent: Director Lazard, Director Miller, Director Winn

4. NEW BUSINESS 9:03 AM

- 4.1) SJAFCA Regular Board Meeting Schedule for 2023.

PUBLIC COMMENT:

- None.

Motion: To approve the SJAFCA Regular Board Meeting Schedule for 2023

Moved by: Director Warmesley, Seconded by Director Halford

Vote: Motion carried 5-0

Yes: Director Akinjo, Director Halford, Director Singh, Director Warmesley, Director Wright

Absent: Director Lazard, Director Miller, Director Winn

4.2) Amendment to Agreement with Edelstein Gilbert Robson & Smith LLC to extend services for advocacy on State Legislations and Regulations of Interest to San Joaquin Area Flood Control Agency.

PUBLIC COMMENT:

- Dominick Gulli submitted comments in writing and shared comments during the meeting for all to hear.

Executive Director Elias advised of a typo in the first recommendation and in the Resolution. The authorization is starting from January 2023, not 2022.

A brief recess was called at 9:11am.
The Board resumed at 9:11am.

Motion: To approve the Amendment to Agreement with Edelstein Gilbert Robson & Smith LLC to extend services for advocacy on State Legislations and Regulations of Interest to San Joaquin Area Flood Control Agency with typo correction, "starting in 2023."
Moved by: Director Akinjo, Seconded by Director Warmesley
Vote: Motion carried 5-0
Yes: Director Akinjo, Director Halford, Director Singh, Director Warmesley, Director Wright
Absent: Director Lazard, Director Miller, Director Winn

4.3) Adopt a Resolution Approving a Memorandum of Understanding for Funding from Participating Member Agencies for the Mossdale 200-year Project and Delegating Authority to the Executive Director to Issue the 2022 Adequate Progress Report.

BOARD COMMENTS:

- Director Singh provided verbal comments.
- Director Wright provided verbal comments.

PUBLIC COMMENT:

- Dominick Gulli submitted comments in writing and shared comments during the meeting for all to hear.
- John Beckman provided verbal comments for all attending the meeting to hear.

Motion: Adopt a Resolution approving a Memorandum of Understanding for Funding from Participating Member Agencies for the Mossdale 200-year Project and Delegating Authority to the Executive Director to Issue the 2022 Adequate Progress Report.
Moved by: Director Singh, Seconded by Director Akinjo
Vote: Motion carried 5-0
Yes: Director Akinjo, Director Halford, Director Singh, Director Warmesley, Director Wright
Absent: Director Lazard, Director Miller, Director Winn

5. BRIEFINGS 9:24AM

5.1) Staff to provide update on the proposed Levee Construction and Maintenance Assessment (LCMA) District benefit area pursuant to the Memorandum of Understanding with the San Joaquin County Flood Control and Water Conservation

District to fund levee Operations and Maintenance and the Lower San Joaquin River Phase 1 Project.

PUBLIC COMMENT:

- Artie Valencia shared comments during the meeting for all to hear.
- Dominick Gulli submitted comments in writing and shared comments during the meeting for all to hear.
- Matt Zidar shared comments during the meeting for all to hear.

5.2) Update on the Strategic Plan Priority Actions.

BOARD COMMENTS:

- Director Warmesley provided verbal comments.
- Director Akinjo provided verbal comments.

PUBLIC COMMENT:

- Dominick Gulli submitted comments in writing and shared comments during the meeting for all to hear.

5.3) Selection of Public Board Member.
a. Supplemental Materials – Attachments 1, 2, 3

BOARD COMMENTS:

- Director Warmesley verbally shared comments.
- Director Singh verbally shared comments.
- Director Akinjo verbally shared comments.

PUBLIC COMMENT:

- Dominick Gulli shared comments during the meeting for all to hear.

The discussion of SJAFCA's social media presence will be brought back at a future Board Meeting in 2023.

6. **ORAL REPORT FROM EXECUTIVE DIRECTOR 10:35 AM**

- a. Advocacy trip to Washington DC by SJAFCA Delegation.

BOARD COMMENTS:

- Director Warmesley verbally shared comments.

PUBLIC COMMENT:

- Dominick Gulli shared comments during the meeting for all to hear.

7. **PUBLIC COMMENTS 10:51 AM**

PUBLIC COMMENT

- Dominick Gulli submitted written comments and shared comments during the meeting for all to hear.

8. BOARD QUESTIONS, COMMENTS, ACTIONS 10:54 AM

- Director Wright, Director Akinjo, Director Singh, and Director Halford verbally shared comments for all in the meeting to hear.

9. CLOSED SESSION 11:06 AM

9.1) Conference with Legal Counsel: Public Employment Evaluation Pursuant to Government Code Section 54957(b)(1)
Title: Executive Director

PUBLIC COMMENT

- Dominick Gulli shared comments during the meeting for all to hear.

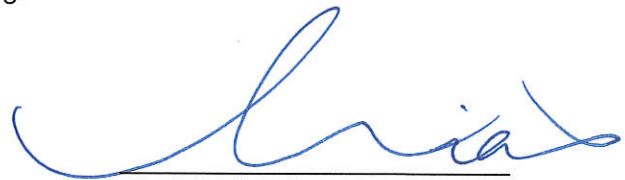
Returned from Closed Session at **11:42 AM**

REPORT OUT FROM CLOSED SESSION: Nothing to report.

10. ADJOURNMENT 11:42 AM

The meeting adjourned at 11:42 AM. The next meeting is scheduled for January 26, 2023, at 9:00 AM.

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CHRIS ELIAS
EXECUTIVE DIRECTOR
SAN JOAQUIN AREA FLOOD
CONTROL AGENCY

December 15, 2022, SJAFCA Meeting Minutes

Agenda Item 5.1

January 26, 2023

TO: San Joaquin Area Flood Control Agency

FROM: Chris Elias, Executive Director

SUBJECT: **INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDING JUNE 30, 2022**

RECOMMENDATION

It is recommended the Board of Directors of the San Joaquin Area Flood Control Agency (Agency) adopt a resolution accepting the Independent Auditor's Report and Financial Statements for the fiscal year ending June 30, 2022.

DISCUSSION

Background

Each year an independent audit of SJAFCA's financial records is performed by a Certified Public Accounting firm.

Results of the Agency's audits are shared with the Board of Directors, and a copy of the audit report is made available on the Agency's web site for public view at <https://www.sjafca.com/finances.php>.

Present Situation

The independent audit firm of Schwartz, Gianinni, Lantsberger and Adamson Accountancy Corporation completed its review of the Agency's financial statements for the fiscal year ended June 30, 2022 and has issued an unmodified or "clean" audit opinion. There were no material weaknesses and no significant deficiencies to report.

The audit was conducted in accordance with generally accepted accounting principles in the United States of America (GAAP) and the standards for financial audits contained in Government Auditing Standards issued by the Comptroller of the United States. Those standards require that the auditor plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

The opinion contained in the Independent Auditor's Report validates the fair presentation of the Agency's financial statements as of June 30, 2022 and opines that the financial statements are presented fairly in all material respects and are in conformity with GAAP.

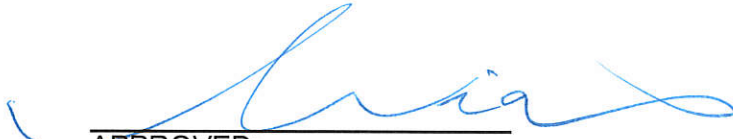
The Audited Financial Report will be incorporated into SJACA's Continuing Disclosure report filed as part of the Agency's outstanding Assessment Bonds and posted on District's website.

Staff recommends the Board adopt a resolution accepting the Independent Auditor's Report and the Annual Financial Statements for the fiscal year ended June 30, 2022.

FISCAL IMPACT

This is an informational item only. There is no net budgetary impact as a result of the Board's approval of staff's recommendation.

PREPARED BY: Sylvia Razniak, Finance and Administrative Services Manager



APPROVED:
CHRIS ELIAS
EXECUTIVE DIRECTOR

SR:ler

Attachment – Annual Audited Financial Statements FY 2022

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
FINANCIAL STATEMENTS
JUNE 30, 2022

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INDEPENDENT AUDITORS' REPORT



To the Board of Directors
San Joaquin Area Flood Control Agency
Stockton, California

Opinions

We have audited the accompanying financial statements of the governmental activities, each major fund, and the aggregate remaining fund information of the San Joaquin Area Flood Control Agency (the "Agency"), as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Agency's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, each major fund, and the aggregate remaining fund information of the Agency, as of June 30, 2022, and the respective changes in financial position thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Agency and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Agency's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Philip Lantsberger, CPA
Robert Gross, CPA
Nikolas A. Torres, CPA

■ ■ ■
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www.sglacpas.com

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Agency's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Agency's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 4-11 and 30-37, respectively, be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated December 15, 2022, on our consideration of the Agency's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Agency's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Agency's internal control over financial reporting and compliance.

A handwritten signature in blue ink that reads "Schwatz, Giannini, Lantberger & Adamson". The signature is written in a cursive, flowing style.

Stockton, California
December 15, 2022

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

This section of the San Joaquin Area Flood Control Agency's (the Agency) annual financial report represents a discussion and analysis of the Agency's financial performance during the fiscal year ended June 30, 2022. It should be read in conjunction with the Agency's basic financial statements following this section.

FINANCIAL HIGHLIGHTS

The Agency's Flood Protection Restoration Project (FPRP) does not receive assessment district or other financial proceeds due to the retirement of the assessment district bonds on September 2, 2011. Only the Maintenance and Operations assessments are collected annually for the FPRP as these flood protection improvements continue to be maintained.

The FPRP was included in Federal legislation and a Memorandum of Agreement (MOA) with the U.S. Army Corps of Engineers (USACE) was executed on March 2, 2002, which allows reimbursement for the Federal share of the Agency's project through the annual USACE budgeting process. Since the signing of the MOA with USACE, the Agency received \$22,868,020 through fiscal year 2010. The remaining \$10 million reimbursement was received during 2019 and as of June 30, 2022, the Agency has received \$32,933,185 of Federal reimbursement. The reimbursement from 2019 has been the source of funding for the first increment of local cost-share for design of the Lower San Joaquin River Project.

The State of California's share of the FPRP was received in 1998 and totaled \$12,625,000.

On July 10, 2013, the Agency formed the Smith Canal Area Assessment District (SCAAD). The district was created to provide the local cost share for constructing and maintaining improvements to remove the Smith Canal area from a Federal Emergency Management Agency (FEMA) Special Flood Hazard Area. Fiscal year 2021-22 is the eighth year of assessment collection for SCAAD.

The Agency executed a funding agreement with the State for an Early Implementation Program grant in the amount of \$2.4 million to cost share the design of the Smith Canal Gate project. The Agency also executed a funding agreement with the State for \$22.3 million to cost-share construction expenses through the State's Urban Flood Risk Reduction Program.

Effective January 1, 2018, the Agency amended and restated its Joint Exercise of Powers Agreement which expanded its boundaries to include the cities of Lathrop and Manteca. Prior to the 2018 amendment, membership of the JPA consisted of elected representatives from the City of Stockton, County of San Joaquin and the San Joaquin County Flood Control and Water Conservation District. This action was taken to implement a plan to provide improved flood protection for the Reclamation District 17 basin, also known as Mossdale Tract. A funding stream was created to support the Mossdale Tract Program, with the goal of achieving 200-year flood protection.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

On July 18, 2019, the Board of Directors adopted Resolution No. 19-29, entitled "A Resolution of the Board of Directors of the San Joaquin Area Flood Control Agency Approving the Form and Authorizing the Distribution of a Preliminary Official Statement in Connection with the Offering and Sale of Assessment District Revenue Bonds, Authorizing the Sale of the Bonds and Approving Related Documents and Actions." On May 20, 2020, the sale of the bonds netted \$23,257,457 deposit into the Project Fund (approx. \$950,000 more than estimated on April 30th at time of Contract Award). This amount of SJAFCA's debt represents bonds secured by the Smith Canal Area Assessment District. During the 2022 fiscal year, \$400,000 was paid from the Assessment District to service the 2020 revenue bond used for construction of the Smith Canal Gate Project.

In FY 2022, Development Impact Fee revenue collected through SJAFCA's member agencies was \$3,489,873.70.

During later part of the 2022 fiscal year, the Board of Directors held public hearings to establish the Mossdale Tract Enhanced Infrastructure Finance District (EIFD) and its related Public Finance Authority. The EIFD will be used to finance public flood control facilities including, but not limited to, public flood risk reduction infrastructure associated with ensuring that the resulting levee system complies with the Urban Levee Design Criteria promulgated by the California Department of Water Resources (DWR) and SJAFCA's Resolution No. 19-06 and SJAFCA's Adopted Policy for Adapting Design Standards for the Mossdale Tract Area of SJAFCA in light of Climate Change. When completed and operational, the EIFD, in conjunction with San Joaquin County, City of Lathrop, City of Manteca, and City of Stockton, will use incremental participating taxing entity property tax revenue attributed to properties within the EIFD boundaries to finance flood risk reduction facilities in Mossdale Tract.

The Fiscal Year 2021-2022 Budget was adopted by SJAFCA Board of Directors on June 17, 2021. The budget supports SJAFCA's continuing efforts to address the region's flood control needs during the coming year and is consistent with the objectives of SJAFCA's current Strategic Plan. SJAFCA's Strategic Plan identifies the efforts which Agency will undertake to "reduce and manage the region's flood risk."

On December 17, 2020, the Board of Directors authorized the payment of \$504,654 to USACE for the local cost contribution in fulfillment of the terms of the Design Agreement and Local Design Agreement for advancing Phase I of Lower San Joaquin River Project, California. The design agreement specifically allowed USACE Sacramento District to begin the preconstruction, engineering, and design phase of the project.

OVERVIEW OF THE FINANCIAL STATEMENTS

The Agency's basic financial statements include: 1) Government-Wide Financial Statements, 2) Fund Financial Statements, and 3) Notes to Basic Financial Statements. Required Supplementary Information is included in addition to the basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

Government-Wide Financial Statements: provide an overview of the Agency's financial position. Refer to Note 2 (Notes to Basic Financial Statements) for further information on significant accounting policies. The Statement of Net Position presents information on all the Agency's assets and liabilities with the difference between the two reported as net position. The Statement of Activities presents information showing how net position changed during the most recent fiscal year.

The Agency's assets are distributed among different fund types. The Agency's assets are capital assets acquired or constructed as part of flood risk reduction improvements. The Agency's noncapital assets are cash and cash equivalents. The County of San Joaquin (the County) maintains the cash pools for the Agency and serves as its Treasurer. Historically, the Agency's assets were mostly derived from the original assessment and the proceeds of the bonds issued in 1996, and interest income on the balances from these assets. Other sources of funds included Flood Control Equalization Fees, which were collected for the Agency by the County and the City of Stockton when building permits were issued to new development within the Agency's original assessment district boundaries and did not include Lathrop and Manteca.

As part of the Stockton Metropolitan watershed, the Agency acquired the rights-of-way needed for the project from property owners and these are classified under assets as land. In 2003, the Agency transferred to the State of California all real property associated with the project. However, the Central Valley Flood Protection Board (formerly the State of California Reclamation Board) has not accepted the federally authorized project alluding i) the project was not authorized by the State legislature, and ii) the need for more formal indemnification assurance. When the Central Valley Flood Protection Board agrees to designate the project as part of the State Plan of Flood Control, the Agency will no longer carry these assets.

Fund Financial Statements: are groupings of related accounts that are used to maintain control over resources that have been segregated for specific activities or objectives. The Agency, like other State and local governmental agencies, uses fund accounting, each fund having its own self-balancing accounts that comprise its assets, liabilities, fund balance, revenues, and expenditures. The Agency funds are divided into three categories: General Fund, Special Revenue Fund, and Capital Project Funds.

The General Fund accounts for funds loaned to the Agency in 1995 by the City of Stockton and the county for the initial funding of the project activities, as well as federal reimbursement for the flood project completed in 1998. The City of Stockton and County loans were paid, and, after the bond money was received, additional funds were created.

The Special Revenue Funds account for assessment district proceeds for maintenance and operations (M&O) of flood control structures for the Flood Protection Restoration Assessment District, and the local cost for design, construction, and maintenance of flood control improvements for the Smith Canal Area Assessment District. Assessments are collected as a line item in property tax bills and are deposited into a fund solely designated for the purpose of the assessment district. Other proceeds are collected through special fees or loan agreements and their use is restricted for the Mossdale Tract area to achieve compliance with Senate Bill 5.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

The Capital Project Funds support the Agency's capital programs and operating costs. Resources are from the original assessments, Flood Control Equalization Fees, proceeds from the initial FPRP bond issue and interest income. Both Federal and State reimbursements are included in these funds.

Notes to Basic Financial Statements: provides additional information essential to a full understanding of the data provided in the government-wide and fund financial statements.

Required Supplementary Information: In addition to the basic financial statements and accompanying notes, this report presents certain *required supplementary information*. This information includes a budgetary comparison schedule for the Agency's governmental funds.

GOVERNMENT-WIDE FINANCIAL STATEMENTS ANALYSIS

The Agency applies Governmental Accounting Standards Board (GASB) Statement No. 34, *Basic Financial Statements- and Management's Discussion and Analysis-for State and Local Governments*. As noted earlier, net position provides an overview of the Agency's financial position.

The following table shows that the Agency's assets exceed liabilities by \$44,646,908 (\$71,225,985 - \$26,579,077) as of June 30, 2022, and net position decreased by \$8,066,161 (\$44,646,908 - \$52,713,069) compared with the prior year:

STATEMENTS OF NET POSITION

	<u>2022</u>	<u>2021</u>
ASSETS		
Current assets	\$ 36,388,487	\$ 42,738,033
Capital assets	34,837,498	35,738,616
TOTAL ASSETS	<u>71,225,985</u>	<u>78,476,649</u>
LIABILITIES		
Current liabilities	4,332,459	2,767,618
Noncurrent liabilities	22,246,618	22,995,962
TOTAL LIABILITIES	<u>26,579,077</u>	<u>25,763,580</u>
NET POSITION		
Net investment in capital assets	11,970,716	12,448,490
Restricted for maintenance and operations	5,337,203	5,071,488
Unrestricted	27,338,989	35,193,091
TOTAL NET POSITION	<u>\$ 44,646,908</u>	<u>\$ 52,713,069</u>

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

The Agency's capital net position for the year ended June 30, 2022: Land and Easements \$9,678,245 and Flood Control Infrastructure (net of depreciation) \$25,159,253 totaling \$34,837,498 represent approximately 49% of the Agency's total assets (see Capital Assets table on page 10). These capital assets are the flood control improvements constructed by the Agency and are considered assets belonging temporarily to the Agency. The following table identifies the changes in net position for the years ended June 30, 2022 and 2021:

STATEMENT OF ACTIVITIES

	<u>2022</u>	<u>2021</u>
REVENUES		
Assessments	\$ 2,674,867	\$ 2,640,751
Aid from other government agencies	18,734,151	17,974,118
Investment earnings, net	(447,691)	70,825
Total revenue	<u>20,961,327</u>	<u>20,685,694</u>
EXPENSES		
Operation and maintenance	26,777,431	25,715,173
Agency management	1,453,089	1,436,186
Interest and other charges	796,968	880,254
Total expenses	<u>29,027,488</u>	<u>28,031,613</u>
Change in net position	<u>(8,066,161)</u>	<u>(7,345,919)</u>
NET POSITION		
Net position, beginning of year	52,713,069	60,058,988
Net position, end of year	<u>\$ 44,646,908</u>	<u>\$ 52,713,069</u>

The Agency receives revenues from sources which include M&O assessments, Smith Canal assessments, interest and investment income, and project reimbursements from the State and the Federal government. Other sources of revenue are received through partnership agreements with other local and government agencies to help fund flood studies or related flood control activities approved by the Board of Directors. The collection of M&O assessments can only be used to maintain and operate the FPRP flood control structures, and the collection of Smith Canal assessments can only be used to design, construct, and maintain the Smith Canal project improvements.

Revenues increased slightly from \$20,685,694 in fiscal year 2021 to \$20,961,327 in fiscal year 2022.

Expenses increased from \$28,031,613 in fiscal year 2021 to \$29,027,488 in fiscal year 2022. The increase is associated with program activities and construction on the Smith Canal Gate.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

FINANCIAL ANALYSIS OF AGENCY FUNDS

The General Fund: accounts for those funds loaned to the Agency in 1995 by the City of Stockton and the County for the initial funding of the FPRP activities, and the 2019 federal reimbursement received from the U.S. Army Corps of Engineers. The City of Stockton and County loans have since been paid. The Agency General Fund is used to offset some of the general operating costs that are not allocated to projects.

Special Revenue Funds: Appropriate M&O assessments are collected annually through property taxes and are deposited in the Maintenance and Operations Fund. These monies are limited to M&O of the flood control structures built by the Agency. The annual budget for M&O is prepared in coordination with the San Joaquin County Public Works Department and approved by the Agency's Board of Directors.

A budget of \$1,184,000 which includes a \$100,000 contingency allocation for emergencies, was considered appropriate for fiscal year 2021-22 for M&O. The budget is impacted by requirements to comply with stringent levee standards imposed by regulatory agencies and growing vandalism to flood control structures by persons who encamp on the levees. The Maintenance and Operations Fund had a balance of approximately \$5.5 million on June 30, 2022.

Beginning fiscal year 2014-15, assessments for the SCAAD are collected annually through property taxes and are deposited into a separate fund for the design, construction, and maintenance of flood control improvements for the specially benefited parcels within SCAAD. The assessment is in compliance with all laws pertaining to Proposition 218 including Article XIII-D of the California Constitution. Assessment collection for fiscal year 2021-22 was \$961,000.

Capital Projects Funds: These funds are available to meet the Agency's operating and capital program costs. Aside from Special Revenue Funds, and the General Fund, the Agency does not have long-term sustainable revenue sources in place to support Agency operations in the long-term.

INFRASTRUCTURE ASSETS

Capital Assets

The Agency's investment in capital assets as of June 30, 2022, is \$34,837,498. These capital assets include land (right-of-way acquired for the project) and flood control infrastructures. The area protected by the Agency is about 38,700 gross acres of land with approximately 74,000 parcels in the County. The Agency completed the main construction of the flood control improvements project in November 1998, and since then, no major construction has been undertaken. However, authorized project studies and investigations may lead to new projects. Apart from normal depreciation, there were no changes in capital assets during fiscal year ended June 30, 2022.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

CAPITAL ASSETS

(net of accumulated depreciation)

	<u>2022</u>	<u>2021</u>
Land and easements	\$ 9,678,245	\$ 9,678,245
Infrastructure assets, net	<u>25,159,253</u>	<u>26,060,371</u>
Total	<u>\$ 34,837,498</u>	<u>\$ 35,738,616</u>

Total accumulated depreciation as of June 30, 2022 is \$19,899,351. Therefore, the net infrastructure assets are \$25,159,253 (\$45,058,604 - \$19,899,351). The infrastructure assets are being depreciated over an estimated useful life of 50 years.

As noted earlier, these capital assets are the flood control improvements constructed by the Agency and are considered assets belonging temporarily to the Agency. Land acquired by the Agency for the right-of-way purposes was turned over to the Central Valley Flood Projection Board; however, the Central Valley Flood Projection Board has not accepted the federally authorized project. Therefore, when the Central Valley Flood Projection Board agrees to designate the project as part of the State Plan of Flood Control, the Agency will no longer carry these assets.

AGENCY OPERATIONS

The Agency completed the main construction of its \$70 million flood control improvements project in November 1998. In past years, due to the concern of levee decertification by FEMA, the Board of Directors held some Capital Projects Funds in reserve to remedy levee decertification. During fiscal year 2009-10, the Board of Directors authorized technical studies and investigation using these funds. These technical studies and investigations support future projects. Currently, the Agency participates in flood control studies and investigations which will provide or restore the required level of protection for parcels within the Agency's assessment district area.

During fiscal year 2019-20, the Board of Directors approved the award of a \$49,487,976 contract for construction of the Smith Canal Gate Project to Shimmick Construction. In Fiscal Year 2020-2021, the first construction season of the Smith Canal Gate Project was successfully completed with installation of the cofferdam, pipe piles and seepage cut off walls for the gate structure. Construction of the Smith Canal Gate project continued in 2022 and will be completed in 2023.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

MANAGEMENT'S DISCUSSION AND ANALYSIS

JUNE 30, 2022

On September 30, 2020, representatives of USACE, California Central Valley Flood Protection Board and SJAFCA signed a multi-year Project Partnership Agreement that signals the next step in efforts to reduce the flood risk for the northern and central areas of the City of Stockton. The plan for the Lower San Joaquin River Project (California), authorized by Congress in the America's Water Infrastructure Act of 2018, will provide flood risk management benefits to over 71,000 acres of mixed-use land with a current population estimated at 160,000 residents and an estimated \$21 billion in property. The recommended plan includes North and Central Stockton–Delta Front, Lower Calaveras River, and San Joaquin River levee improvements. The structural features of the plan include approximately 24 miles of levee improvements, and two closure structures (Fourteen-mile Slough and Smith Canal). The non-structural measures include a comprehensive flood warning system, emergency evacuation planning and floodplain management. The overall project is estimated to cost \$1.4 billion with annual benefits of \$255 million. The total project cost will be shared between the US government (65%), the State of California (24.5%) and SJAFCA (10.5%). The project would allow the Stockton metro community to continue to meet both FEMA certification requirements, and at least a portion of the State of California's criteria for funding of Flood Risk Management projects, allowing for potential reduction in National Flood Insurance Program costs to the community. Project construction is currently anticipated to start in the Fall of 2023, with completion in 2032.

REQUEST FOR INFORMATION

This financial report is designed to provide a general overview of the Agency's finances for all those with interest in the Agency's finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to the Agency's Executive Director, Chris Elias at 22 E. Weber Avenue, Room 301, Stockton, California 95202.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

STATEMENT OF NET POSITION

JUNE 30, 2022

	<u>Governmental Activities</u>
ASSETS	
Current assets:	
Cash and cash equivalents	\$ 33,810,724
Interest income receivable	54,743
Receivable - State of California	2,223,243
Prepaid expenses	299,777
Total current assets	<u>36,388,487</u>
Capital assets:	
Land and easements	9,678,245
Infrastructure assets, net	25,159,253
Total capital assets	<u>34,837,498</u>
Total assets	<u><u>71,225,985</u></u>
LIABILITIES AND NET POSITION	
Current liabilities:	
Accounts payable	3,402,295
Bonds payable, current maturity	420,000
Accrued bond interest	200,164
Member agency loans	310,000
Total current liabilities	<u>4,332,459</u>
Noncurrent liabilities:	
Bonds payable, net of current maturity	22,246,618
Total noncurrent liabilities	<u>22,246,618</u>
Net position:	
Net investment in capital assets	11,970,716
Restricted for maintenance and operations	5,337,203
Unrestricted	27,338,989
Total net position	<u>44,646,908</u>
Total liabilities and net position	<u><u>\$ 71,225,985</u></u>

See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2022

Functions / Programs	Program Expenses	Program Revenues		Net (Expense) Revenue
		Operating Grants and Contributions	Capital Grants and Contributions	
Governmental activities:				
Operations and maintenance	\$ 26,777,431	\$ 18,734,151	\$ -	\$ (8,043,280)
Agency management	1,453,089	-	-	(1,453,089)
Interest and other charges	<u>796,968</u>	<u>-</u>	<u>-</u>	<u>(796,968)</u>
Total governmental activities	<u>\$ 29,027,488</u>	<u>\$ 18,734,151</u>	<u>\$ -</u>	<u>\$ (10,293,337)</u>
General revenues:				
Assessments				\$ 2,674,867
Investment earnings - interest				137,347
Investment earnings - unrealized (loss)				<u>(585,038)</u>
Total general revenues				<u>2,227,176</u>
Change in net position				(8,066,161)
Net position, beginning of year				<u>52,713,069</u>
Net position, end of year				<u>\$ 44,646,908</u>

See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

GOVERNMENTAL FUNDS BALANCE SHEET

JUNE 30, 2022

	General Fund	Maintenance and Operations Fund	Smith Canal Assessment & Closure Fund	Mossdale Tract & Levee Impact Fees Fund	Lower SJ River Project Fund	Regional Flood Mgmt Program Fund	Paradise Cut Fund	Total Governmental Funds
ASSETS								
Cash and cash equivalents	\$ 1,976,383	\$ 5,449,488	\$ 17,331,354	\$ 6,911,002	\$ 1,889,742	\$ 242,922	\$ 9,833	\$ 33,810,724
Interest income receivable	6,935	7,415	27,392	10,391	2,604	-	6	54,743
Receivable - State of California	-	-	61,930	2,089,149	-	72,164	-	2,223,243
TOTAL ASSETS	1,983,318	5,456,903	17,420,676	9,010,542	1,892,346	315,086	9,839	36,088,710
LIABILITIES								
Accounts payable	17,928	119,700	2,776,582	386,506	37,397	64,182	-	3,402,295
Member agency loans	-	-	-	310,000	-	-	-	310,000
Total liabilities	17,928	119,700	2,776,582	696,506	37,397	64,182	-	3,712,295
FUND BALANCES								
Restricted	-	5,337,203	-	-	-	-	-	5,337,203
Assigned	-	-	14,644,094	8,314,036	1,854,949	250,904	9,839	25,073,822
Unassigned	1,965,390	-	-	-	-	-	-	1,965,390
Total fund balances	1,965,390	5,337,203	14,644,094	8,314,036	1,854,949	250,904	9,839	32,376,415
TOTAL LIABILITIES AND FUND BALANCES	\$ 1,983,318	\$ 5,456,903	\$ 17,420,676	\$ 9,010,542	\$ 1,892,346	\$ 315,086	\$ 9,839	\$ 36,088,710

See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

RECONCILIATION OF THE GOVERNMENTAL FUNDS BALANCE SHEET
TO THE GOVERNMENT-WIDE STATEMENT OF NET POSITION
JUNE 30, 2022

Total Fund Balances - Governmental Funds \$ 32,376,415

Amounts reported for Governmental Activities in the Statement of Net Position are different from those reported in the Governmental Funds because of the following:

Capital assets used in Governmental Activities are not current resources and, therefore, are not reported in the Governmental Funds Balance Sheet.

Infrastructure assets, land, and easements	54,736,849	
Less: accumulated depreciation	<u>(19,899,351)</u>	
		34,837,498

The issuance of long-term debt provides current financial resources to governmental funds, while the repayment of the principal of long-term debt consumes the current financial resources of governmental funds. Neither transaction, however, has any effect on net position. Also, governmental funds report the effect of premiums, discounts, and similar items when debt is first issued, whereas these amounts are deferred and amortized in the statement of activities. This is the net effect of these differences in the treatment of long-term debt and related items.

(22,567,005)

Net Position of Governmental Activities \$ 44,646,908

See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN GOVERNMENTAL FUND BALANCES
FOR THE YEAR ENDED JUNE 30, 2022

	General Fund	Maintenance and Operations Fund	Smith Canal Assessment & Closure Fund	Mossdale Tract & Levee Impact Fees Fund	Lower SJ River Project Fund	Regional Flood Mgmt Program Fund	Paradise Cut Fund	Total Governmental Funds
Revenues:								
Assessments	\$ -	\$ 960,776	\$ 1,714,091	\$ -	\$ -	\$ -	\$ -	\$ 2,674,867
Investment earnings - interest	12,091	19,989	72,006	24,614	8,073	568	6	137,347
Investment earnings - unrealized gain (loss)	(35,460)	(96,519)	(289,515)	(121,438)	(35,002)	(6,937)	(167)	(585,038)
Other government agency aid	-	-	13,722,717	4,919,293	-	186,635	-	18,828,645
Miscellaneous income	-	-	12,143	-	-	-	10,000	22,143
Total revenues, net	(23,369)	884,246	15,231,442	4,822,469	(26,929)	180,266	9,839	21,077,964
Expenditures:								
Current operating:								
Maintenance and operations	85	533,980	22,512,311	2,011,219	496,528	322,190	-	25,876,313
Agency management	126,319	127,506	602,605	406,820	109,348	80,491	-	1,453,089
Debt service:								
Principal	-	-	400,000	-	-	-	-	400,000
Interest and other charges	-	-	809,606	-	-	-	-	809,606
Total expenditures	126,404	661,486	24,324,522	2,418,039	605,876	402,681	-	28,539,008
Excess (deficiency) of revenues over expenditures	(149,773)	222,760	(9,093,080)	2,404,430	(632,805)	(222,415)	9,839	(7,461,044)
Other financing sources (uses):								
Transfers in (out)	(416,588)	42,955	139,776	134,588	59,630	39,639	-	-
Total other financing sources (uses)	(416,588)	42,955	139,776	134,588	59,630	39,639	-	-
Net change in fund balances	(566,361)	265,715	(8,953,304)	2,539,018	(573,175)	(182,776)	9,839	(7,461,044)
Fund balances, beginning	2,531,751	5,071,488	23,597,398	5,775,018	2,428,124	433,680	-	39,837,459
Fund balances, ending	\$ 1,965,390	\$ 5,337,203	\$ 14,644,094	\$ 8,314,036	\$ 1,854,949	\$ 250,904	\$ 9,839	\$ 32,376,415

See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

RECONCILIATION OF THE STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES OF GOVERNMENTAL FUNDS TO THE
GOVERNMENT-WIDE STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED JUNE 30, 2022

Net changes in Fund Balances - Governmental Funds \$ (7,461,044)

Amounts reported for Governmental Activities in the Statement of Activities
are different because of the following:

When capital assets that are to be used in Governmental Activities are
purchased or constructed, the resources expended for those assets
are reported as expenditures in the Governmental Funds. This is the amount
of capital assets additions and depreciation recorded in current year.

Depreciation expense	<u>(901,118)</u>	(901,118)
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Revenues in the governmental fund's statement that do not provide current financial resources are not reported as revenue in the fund.		(116,637)
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The issuance of long-term debt provide current financial resources
to governmental funds, while the repayment of the principal of
long-term debt consumes the current financial resources of governmental
funds. Neither transaction, however, has any effect on net position. Also,
governmental funds report the effect of premiums, discounts, and similar
items when debt is first issued, whereas these amounts are deferred and
amortized in the statement of activities. This is the net effect of these
differences in the treatment of long-term debt and related items.

	<u>412,638</u>
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Changes in Net Position of Governmental Activities	<u><u>\$ (8,066,161)</u></u>
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See accompanying notes to basic financial statements.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 1. DESCRIPTION OF THE AGENCY

The San Joaquin Area Flood Control Agency (the Agency) is the result of a joint powers agreement (JPA) between the City of Stockton (the City), the County of San Joaquin (the County), and the San Joaquin County Flood Control and Water Conservation District (the District). The Agency was formed on May 25, 1995, for the purposes of undertaking the acquisition, construction, and/or installation of improvements to flood control channels in the City and the portion of unincorporated areas of the County adjacent thereto (the Project), in order to provide a 100-year flood protection to these areas. The Agency is a public entity pursuant to the provisions of Articles 1-4, Chapter 5, Division 7, Title 1 of the Government Code of the State of California.

The basic operations of the Agency are financed as a part of the Project operations and costs. An annual special assessment based on total costs of the Project was assessed during the year ended June 30, 1996. The assessment paid for Project costs and bond repayment. The Agency retired the bonds three years ahead of scheduled maturity on September 2, 2011. During the year ended June 30, 1997, an additional annual special assessment was approved for the continued maintenance of the flood project structures. Collections of the annual special assessment will continue to finance the maintenance of the flood project structure until adoption of a terminating resolution.

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES

Financial Agency

The Agency's basic financial statements include the accounts of all Agency operations. The Agency's basic financial statements do not include operations of the associated governmental agencies involved in the joint powers agency, namely, the City, the County, and the District.

Basis of Presentation – Government-Wide Accounting

The government-wide financial statements include the Statement of Net Position and the Statement of Activities and report financial information on the Agency as a whole.

The Statement of Activities presents a comparison between direct expenses and program revenues for functions of the Agency's governmental activities. Direct expenses are those that are clearly identifiable with specific function. Program revenues include 1) grants and contributions that are restricted to meeting the operational or capital requirements of a particular function or segment and 2) fees, grants, and contributions that are restricted to financing the acquisition or construction of capital assets. Other items not properly included are reported instead as general revenues and expenses.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Basis of Presentation – Fund Accounting

Fund financial statements provide information about the Agency's funds. Each fund is accounted for by providing a separate set of self-balancing accounts that comprise its assets, liabilities, fund balance, revenues, and expenditures. Agency resources are allocated to and accounted for in individual funds based upon the purpose for which they are to be spent and the means by which spending activities are controlled. The Agency does not have any proprietary or fiduciary funds.

Measurement focus, basis of accounting, and financial statement presentation

The government-wide financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned, and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Assessments are recognized in the year for which they are levied.

The governmental fund financial statements are presented using the current financial resources measurement focus and the modified accrual basis of accounting. Under this method, revenues are recognized when they are both measurable and available. "Measurable" means the amount of the transaction can be determined and "available" means collectible within the current period or within 60 days after year-end. Expenditures are recorded when the related liability is incurred, except for general obligation on principal and interest which are reported as expenditures in the year they are due.

The major sources of revenues susceptible to accrual are assessments of property owners and investment income.

When both restricted and unrestricted resources are available for use, it is the Agency's policy to use restricted resources first, then unrestricted resources as needed.

Allocation of Indirect Expenses

The Agency allocates indirect expenses, primarily comprised of administrative services, to Agency management functions. Administrative services include accounting, financial reporting, payroll reimbursement, investing and cash management, personnel services, and other administrative services.

Fund Types and Major Funds

The Agency reported the following major governmental funds in the accompanying financial statements:

General fund – Accounts for general administrative expenses and acts as Agency reserves.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Maintenance and Operations Fund – Accounts for the collection of special assessments from property owners within the Agency’s assessment district for the maintenance of the flood structures. Proceeds are restricted to the maintenance and operations (M&O) activities identified in the M&O budget.

Smith Canal Assessment Fund – Accounts for the collection of special assessments from property owners within the Smith Canal Area Assessment District. The collection of assessments are for design, construction, and maintenance of the Smith Canal flood control improvements to remove the area from a Federal Emergency Management Agency (FEMA) Special Hazard Area. Proceeds are restricted to activities identified in the Annual Engineer’s Report for the Smith Canal Area Assessment District.

Smith Canal Closure Fund – This fund was initially created to collect Early Implementation Project (EIP) funding received by the State of California per a Funding Agreement for the design of the Smith Canal Gate project. The fund is now used to collect Urban Flood Risk Reduction funding received by the State for final design and construction of the project.

Mossdale Tract Fund and Mossdale Levee Impact Fees Fund – Accounts for the collection of proceeds from member agencies through a loan agreement and for the collection of proceeds from member agencies for development impact fee when building permits are issued for new development in the Mossdale Tract area. The proceeds will be used to fund flood control improvements needed to obtain 200-year level of flood protection for the Mossdale Tract area.

Lower San Joaquin River Project Fund – This fund was established in partnership with the US Army Corps of Engineers (Corps) and the California Central Valley Flood Protection Board (CVFPB) to study and evaluate ways to improve the region’s level of flood protection. The partnership resulted in the Congressionally-authorized Lower San Joaquin River Feasibility Study. The fund will be used to track costs towards the federally-approved project.

Regional Flood Management Program Fund – Accounts for the collection of proceeds from California DWR’s Regional Flood Management Program.

Paradise Cut – This fund was created to account for the collection of proceeds from California DWR for Paradise Cut Expansion and South Delta Restoration Project. The project incorporates an expanded flood bypass, channel dredging to increase water supply reliability for in-Delta users, and floodplain, wetland, and riparian habitat enhancements to help restore the landscape-scale ecosystem functions necessary for climate change resilience.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Infrastructure Assets and Depreciation

The Agency's infrastructure assets with useful lives of more than one year are stated at historical cost and comprehensively reported in the government-wide financial statements. The Agency generally capitalizes all assets as construction outlays occur. The costs of normal maintenance and repairs that do not add to the asset value or materially extend useful lives are not capitalized. Infrastructure assets are depreciated using the straight-line method over a useful life of 50 years.

Reservation of Fund Balances

The Agency records reservations for portions of fund balance which are legally segregated for specific future use or which do not represent available expendable resources and, therefore, are not available for appropriations or expenditure in the governmental funds balance sheet.

Restriction of Net Position

Net position is the excess of all the Agency's assets over all its liabilities, regardless of fund. Net position is divided into three captions under Governmental Accounting Standards Board (GASB) Statement No. 34, *Basic Financial Statements- and Management's Discussion and Analysis- for State and Local Governments*. If restricted and unrestricted net position are available for the same purpose, then restricted net position will be used before unrestricted net position. These captions apply only to net position, which is determined only at the government-wide level, and is described below:

Net Investment in Capital Assets – This amount consists of capital assets net of accumulated depreciation, less the outstanding balance of any debt issued to finance these assets.

Restricted – This amount is restricted by external creditors, grantors, contributors, laws or regulations of other governments, enabling legislation, and constitutional provisions.

Unrestricted – The amount is all the net position that does not meet the definition of "net investment in capital assets" or "restricted."

Assessment Tax

The County collects the Agency's assessment tax revenue as part of the County's property taxes. The County's secured property tax payments are levied in two equal installments: the first is generally due November 1st and delinquent with penalties after December 10th; the second is due February 1st and delinquent with penalties after April 10th. Secured property with unpaid taxes incurs a lien on January 1st preceding the fiscal year for which taxes are levied. Property taxes on the unsecured roll are due on the January 1st lien date and become delinquent if unpaid on August 31st.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

Cash and Cash Equivalents

The Agency maintains a large portion of its cash in the County Treasury. The County pools these funds with those of other agencies in the County and invests the cash.

Use of Estimates

Management uses estimates and assumptions in preparing financial statements. Those estimates and assumptions affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported revenues and expenses. Actual results could differ from these estimates.

Fund Balance

In March 2009, GASB issued Statement No. 54, *Fund Balance Reporting and Governmental Fund Type Definitions*. This statement establishes fund balance classifications that comprise a hierarchy based primarily on the extent to which a government is bound to observe constraints imposed upon the use of the resources reported in governmental funds. These classifications are described below:

Nonspendable Fund Balance – Amounts that are inherently nonspendable such as inventory or long-term receivables.

Restricted Fund Balance – Amounts that have externally enforceable limitations on use that are either imposed by law or constrained by grantors, contributors, or laws and regulations of other governments.

Committed Fund Balance – Amounts that can only be used for specific purposes determined by formal action of the Agency's highest level of decision-making authority, the Board of Directors. These committed amounts cannot be used for any other purpose unless the Board of Directors removes or changes the specified use through the same type of formal action taken to establish the commitment. The formal action must occur prior to the end of the reporting period; however, the amount can be determined subsequently.

Assigned Fund Balance – Amounts that are constrained by the Agency's intent to be used for specific purposes, but are neither restricted nor committed, should be reported as assigned fund balance. The intent can be expressed by the Board of Directors itself or by an official to which the governing body has delegated the authority.

Unassigned Fund Balance – The residual positive net resources of the General Fund in excess of what can properly be classified in one of the other four categories. This amount is reported only in the General Fund except in cases of negative fund balance. Negative fund balances in other governmental funds are reported as Unassigned Fund Balance.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

The accounting policies of the Agency consider restricted fund balance to have been spent first when an expenditure is incurred if both restricted and unrestricted fund balance are available. Similarly, when all expenditure is incurred for purposes for which amounts in any of the unrestricted classification of fund balance could be used, the Agency considers committed amounts to be reduced first, followed by assigned amounts, and then unassigned amounts.

Most non-general funds were designated for one purpose at the time of their creation. Therefore, expenditures made out of a fund will be allocated to the applicable fund balance classifications in the order of the spending policy above.

Bond Issue

On May 18, 2020, the Agency issued "San Joaquin Area Flood Control Agency, California Smith Canal Area Assessment District Assessment Revenue Bonds, Series 2020." The principal amount was \$23,435,000, less underwriter discount of \$107,801, plus premium of \$580,306.

In the government-wide financial statements, long-term debt is reported as a liability in the statement of net position. Bond premiums and discounts are deferred and amortized over the life of the bonds using the straight-line method, which approximates the effective interest method. Bonds payable are reported net of the applicable bond premium or discount. Bond issuance costs are expensed.

In the fund financial statements, governmental fund types recognize bond premiums and discounts, as well as bond issuance costs, during the current period. The face amount of the debt issued is reported as other financing sources. Premiums received on debt issuances are reported as other financing sources while discounts on debt issuances are reported as other financing uses. Issuance costs, whether or not withheld from the actual debt proceeds received, are reported as debt service expenditures. See Note 9.

NOTE 3. DETAILED NOTES ON FUNDS

The Agency maintains a large portion of its cash in the County Treasury as part of the common investment pool (the Pool), which had a carrying value of \$33,678,869 as of June 30, 2022.

The Agency is considered to be an involuntary participant in the external investment Pool. The Pool has established a treasury oversight committee to monitor and review the management of public funds maintained in the Pool.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 3. DETAILED NOTES ON FUNDS (CONTINUED)

Participants' equity in the Pool is determined by the dollar amount of the participant's deposits, adjusted for withdrawals and distributed investment income. Investment income is prorated to individual funds based on their average daily cash balances.

The value of the Agency's shares in the Pool, which may be withdrawn, is determined on an amortized cost basis, which is different than the fair value of the Agency's position in the Pool. The Agency's investment in the Pool is unrated, stated at amortized cost which approximates fair value, available on demand, and considered cash equivalents.

Interest Rate Risk - Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment the greater the sensitivity of fair value to changes in market interest rate. As of year-end, the weighted average maturity of the investments contained in the Pool was approximately one year.

Credit Risk - Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. California statutes and the County's investment policy limit the County investments to obligations of the U.S. Treasury, certain Federal agencies, bankers' acceptances, "prime" commercial paper, certificates of deposit, swaps and trades, State Treasurer's Local Agency Investment Fund, and repurchase agreements.

Concentration of Credit Risk - Concentration of credit risk is the loss risk attributed to the magnitude of a government's investment in a single issuer. The County's investment policy places certain maximum percentage limitations of investments by investment type and the Treasurer has adhered to this policy with no exception.

Custodial Credit Risk - Custodial credit risk does not apply to a local government's indirect investment in securities through the use of mutual funds or government investment pools. The County issues a financial report that includes custodial credit risk disclosures for the cash in the County Treasury. The report may be obtained by writing to the County Treasurer, 44 North San Joaquin Street, Stockton, California 95202.

Assessments Receivable

Assessments are collected and remitted to the County Tax Collector. The County Tax Collector's office transfers the assessment amount to the Agency's fund held by the County Treasury. In the governmental fund financial statements, assessments receivable is recorded in the Special Revenue Funds. In the government-wide financial statements, assessments receivable includes all amounts due to the Agency regardless of when the cash is received.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS
JUNE 30, 2022

NOTE 3. DETAILED NOTES ON FUNDS (CONTINUED)

Accounts Payable

Accounts payables include amounts due to a related party. See Note 5 for information describing related parties. Other payable amounts are due to vendors for services rendered prior to the fiscal year end.

Capital Assets

The following table provides a summary of changes in capital assets:

	June 30, 2021	Additions	Deletions	June 30, 2022
Nondepreciable capital assets:				
Land and easements	\$ 9,678,245	\$ -	\$ -	\$ 9,678,245
Depreciable capital assets:				
Infrastructure assets	45,058,604	-	-	45,058,604
Less accumulated depreciation	(18,998,233)	(901,118)	-	(19,899,351)
Net depreciable capital assets	26,060,371	(901,118)	-	25,159,253
Net capital assets	\$ 35,738,616	\$ (901,118)	\$ -	\$ 34,837,498

NOTE 4. FUND BALANCES

Fund balances are presented in the following categories: restricted, assigned, and unassigned (See Note 2 for a description of these categories). A detailed schedule of fund balances at June 30, 2022, is as follows:

	General Fund	Maintenance & Operations Fund	Smith Canal Assessment & Closure Fund	Mossdale Tract & Levee Impact Fees Fund	Lower SJ River Project Fund	Regional Flood Mgmt Program Fund	Paradise Cut Fund	Total
Fund balances:								
Restricted for maintenance and operations	\$ -	\$ 5,337,203	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,337,203
Assigned to capital projects	-	-	14,644,094	8,314,036	1,854,949	250,904	9,839	25,073,822
Unassigned	1,965,390	-	-	-	-	-	-	1,965,390
Total fund balances	\$ 1,965,390	\$ 5,337,203	\$ 14,644,094	\$ 8,314,036	\$ 1,854,949	\$ 250,904	\$ 9,839	\$ 32,376,415

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 5. RELATED PARTY TRANSACTIONS

During the year ended June 30, 2022, the Agency has approved payments to members of the JPA for services and personnel costs of the Agency. These costs are accumulated in the Agency administrative costs. Amounts paid to the related parties during the fiscal year ended June 30, 2022, were \$879,113.

The Board of Directors held public hearings to establish the Mossdale Tract Enhanced Infrastructure Finance District (EIFD) and its related Public Finance Authority during the year ended June 30, 2022. No transactions occurred between the Agency and the EIFD and its related Public Finance Authority as of June 30, 2022, however, the Agency anticipates transactions in the subsequent years.

NOTE 6. COMMITMENTS

The Agency entered into a \$10 million cost-share agreement with the USACE and the Central Valley Flood Protection Board for a feasibility study for the Lower San Joaquin River, of which, the local responsibility is \$2.5 million. Information from this study will be used to develop a plan to reach a 200- year level of flood protection for urban and urbanizing areas as required by State Senate Bill 5.

The Agency's Board of Directors also authorized a \$6.1 million contract to complete the design of the Smith Canal Gate project to restore flood protection to an area affected by levee decertification and FEMA re-mapping. The Agency secured an EIP grant through the State Department of Water Resources (DWR) in the amount of \$2.4 million to cost-share half of the design and environmental work. The remaining half is being funded with assessment revenues that were passed under Proposition 218 on July 10, 2013. The Agency executed an Urban Flood Risk Reduction grant for \$22.3 million, which was later increased to \$35.8 million, to cover remaining design, permitting, and construction costs. The Agency anticipates the State to cost share in 63% of total project costs.

NOTE 7. MEMBER AGENCY LOANS

Each member agency (City of Stockton, City of Lathrop, City of Manteca, and County of San Joaquin) signed a seed funding agreement that would loan the Agency an amount not to exceed \$365,000 each. The loans are to be used for planning of the Mossdale Tract Phase IV levee improvements and to demonstrate progress toward compliance with Senate Bill 5 requirements. Each Member Agency advanced an amount of \$65,000 with exception of the City of Lathrop which advanced an amount of \$115,000. The term of repayment for the loan amounts do not include interest and can be repaid any time prior to June 30, 2029, at the Agency's discretion. It should also be noted that the loans may be forgiven if permanent funding sources for the entirety of the Mossdale Tract Phase IV levee improvement Project is unable to be secured.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 8. INTERFUND TRANSFERS

Transfers and payments within the Agency are for the purpose of subsidizing operating functions. Resources are accumulated in a fund to support and simplify the administration of various projects or programs. The government-wide Statement of Activities eliminates transfers as reported within the segregated governmental columns. Only transfers between columns appear in this statement.

The following schedule reports transfers and payments within the Agency:

	<u>Transfers In</u>	<u>Transfers Out</u>
General Fund	\$ -	\$ 416,588
Maintenance and Operations Fund	42,955	-
Smith Canal Assessment	2,965,464	-
Smith Canal Closure	-	2,825,688
Mossdale Tract	2,062,263	-
Mossdale Levee Impact	-	1,927,675
Lower SJ River Project Fund	59,630	-
Regional Flood Mgmt Program Fund	39,639	-
Total	<u>\$ 5,169,951</u>	<u>\$ 5,169,951</u>

NOTE 9. BONDS PAYABLE

On May 18, 2020, the Agency issued "San Joaquin Area Flood Control Agency, California Smith Canal Area Assessment District Assessment Revenue Bonds, Series 2020." The proceeds are to be used in the construction of improvements to provide protection from flood flows within the Smith Canal area of San Joaquin County, known generally as the Smith Canal Gate Project. The principal amount was \$23,435,000, less underwriter discount of \$107,801, plus premium of \$580,306. The bonds bear interest from 3%-5%, with payments due semiannually on April 1 and October 1, commencing October 1, 2020. Source of payment for the bonds comes from assessments levied by the Agency, and collected by San Joaquin County on behalf of the Agency. Bonds payable as of June 30, 2022 was \$22,666,618.

The bonds maturing on or after October 1, 2031, are subject to optional redemption prior to their stated maturities, on any date on or after October 1, 2030, in whole or in part, at a redemption price equal to the principal amount of the bonds to be redeemed together with accrued interest thereon to the date fixed for redemption, without premium.

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 9. BONDS PAYABLE (CONTINUED)

Mandatory Sinking Payment Redemption

The bonds maturing on October 1, 2040, are subject to mandatory sinking payment redemption in part by lot on October 1, 2036, and on each October 1 thereafter to maturity, at a redemption price equal to the principal amount to be redeemed, together with accrued interest to the redemption date, without premium, from sinking payments as follows:

Redemption Date (October 1)	Sinking Payments
2036	\$ 745,000
2037	770,000
2038	795,000
2039	820,000
2040 (maturity)	845,000

The bonds maturing on October 1, 2045, are subject to mandatory sinking payment redemption in part by lot on October 1, 2041, and on each October 1 thereafter to maturity, at a redemption price equal to the principal amount to be redeemed, together with accrued interest to the redemption date, without premium, from sinking payments as follows:

Redemption Date (October 1)	Sinking Payments
2041	\$ 875,000
2042	905,000
2043	935,000
2044	965,000
2045 (maturity)	1,000,000

The bonds maturing on October 1, 2050, are subject to mandatory sinking payment redemption in part by lot on October 1, 2046, and on each October 1 thereafter to maturity, at a redemption price equal to the principal amount to be redeemed, together with accrued interest to the redemption date, without premium, from sinking payments as follows:

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO BASIC FINANCIAL STATEMENTS

JUNE 30, 2022

NOTE 9. BONDS PAYABLE (CONTINUED)

Redemption Date (October 1)	Sinking Payments
2046	\$ 1,035,000
2047	1,065,000
2048	1,105,000
2049	1,140,000
2050 (maturity)	1,180,000

The estimated annual requirements to amortize the bonds payable as of June 30, 2022, are as follows:

Year Ended June 30	Principal	Interest	Total Requirements
2023	\$ 420,000	\$ 800,656	\$ 1,220,656
2024	435,000	783,856	1,218,856
2025	455,000	766,456	1,221,456
2026	475,000	743,706	1,218,706
2027-2030	2,155,000	2,724,827	4,879,827
2031-2035	3,280,000	2,803,831	6,083,831
2036-2040	3,855,000	2,241,256	6,096,256
2041-2045	4,525,000	1,568,318	6,093,318
2046-2050	5,345,000	752,119	6,097,119
2051	1,180,000	39,825	1,219,825
Subtotal	22,125,000	13,224,850	35,349,850
Plus bond premium	541,618	-	541,618
Total liability	<u>\$ 22,666,618</u>	<u>\$ 13,224,850</u>	<u>\$ 35,891,468</u>

Accrued interest on the bonds at June 30, 2022, was \$200,164.

NOTE 10. SUBSEQUENT EVENTS

In preparing the financial statements, the Agency has evaluated events and transactions for potential recognition or disclosure through December 15, 2022, the date the financial statements were available to be issued.

REQUIRED SUPPLEMENTARY INFORMATION

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES
FOR THE YEAR ENDED JUNE 30, 2022

	<u>General Fund</u>			
	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Investment earnings - interest	\$ 40,000	\$ 40,000	\$ 12,091	\$ (27,909)
Investment earnings - unrealized (loss)	-	-	(35,460)	(35,460)
Total revenues	<u>40,000</u>	<u>40,000</u>	<u>(23,369)</u>	<u>(63,369)</u>
Expenditures:				
Maintenance and operations	-	-	85	(85)
Agency management	160,000	160,000	126,319	33,681
Total expenditures	<u>160,000</u>	<u>160,000</u>	<u>126,404</u>	<u>33,596</u>
Other financing sources (uses):				
Transfers in (out)	-	-	(416,588)	(416,588)
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>(416,588)</u>	<u>(416,588)</u>
Net change in fund balance	<u>\$ (120,000)</u>	<u>\$ (120,000)</u>	(566,361)	<u>\$ (446,361)</u>
Fund balance, beginning			2,531,751	
Fund balance, ending			<u>\$ 1,965,390</u>	

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Maintenance and Operations Fund

	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Assessments	\$ 27,000	\$ 27,000	\$ 960,776	\$ 933,776
Investment earnings - interest	-	-	19,989	19,989
Investment earnings - unrealized (loss)	-	-	(96,519)	(96,519)
Total revenues	<u>27,000</u>	<u>27,000</u>	<u>884,246</u>	<u>857,246</u>
Expenditures:				
Maintenance and operations	-	-	533,980	(533,980)
Agency management	160,000	160,000	127,506	32,494
Total expenditures	<u>160,000</u>	<u>160,000</u>	<u>661,486</u>	<u>(501,486)</u>
Other financing sources (uses):				
Transfers in (out)	-	-	42,955	42,955
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>42,955</u>	<u>42,955</u>
Net change in fund balance	<u>\$ (133,000)</u>	<u>\$ (133,000)</u>	265,715	<u>\$ 398,715</u>
Fund balance, beginning			5,071,488	
Fund balance, ending			<u>\$ 5,337,203</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Smith Canal Assessment & Closure Fund

	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Assessments	\$ 1,708,464	\$ 1,708,464	\$ 1,714,091	\$ 5,627
Other government agency aid	7,308,187	7,308,187	13,722,717	6,414,530
Investment earnings - interest	86,000	86,000	72,006	(13,994)
Investment earnings - unrealized (loss)	-	-	(289,515)	(289,515)
Miscellaneous income	-	-	12,143	
Total revenues	<u>9,102,651</u>	<u>9,102,651</u>	<u>15,231,442</u>	<u>6,116,648</u>
Expenditures:				
Maintenance and operations	23,589,126	23,589,126	22,512,311	1,076,815
Agency management	640,000	640,000	602,605	37,395
Debt service:				
Principal	-	-	400,000	
Interest and other charges	-	-	809,606	
Total expenditures	<u>24,229,126</u>	<u>24,229,126</u>	<u>24,324,522</u>	<u>1,114,210</u>
Other financing sources (uses):				
Transfers in (out)	<u>-</u>	<u>-</u>	<u>139,776</u>	<u>139,776</u>
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>139,776</u>	<u>139,776</u>
Net change in fund balance	<u>\$ (15,126,475)</u>	<u>\$ (15,126,475)</u>	<u>(8,953,304)</u>	<u>\$ 7,370,634</u>
Fund balance, beginning			23,597,398	
Fund balance, ending			<u>\$ 14,644,094</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Mossdale Tract & Levee Impact Fees Fund

	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Investment earnings - interest	\$ 83,225	\$ 83,225	\$ 24,614	\$ (58,611)
Investment earnings - unrealized (loss)	-	-	(121,438)	(121,438)
Other government agency aid	3,250,000	3,250,000	4,919,293	1,669,293
Grants	6,407,840	6,407,840	-	(6,407,840)
Total revenues	<u>9,741,065</u>	<u>9,741,065</u>	<u>4,822,469</u>	<u>(4,918,596)</u>
Expenditures:				
Maintenance and operations	5,229,766	5,229,766	2,011,219	3,218,547
Agency management	480,000	480,000	406,820	73,180
Total expenditures	<u>5,709,766</u>	<u>5,709,766</u>	<u>2,418,039</u>	<u>3,291,727</u>
Other financing sources (uses):				
Transfers in (out)	<u>-</u>	<u>-</u>	134,588	134,588
Total other financing sources (uses)	<u>-</u>	<u>-</u>	134,588	134,588
Net change in fund balance	<u>\$ 4,031,299</u>	<u>\$ 4,031,299</u>	2,539,018	<u>\$ (1,492,281)</u>
Fund balance, beginning			5,775,018	
Fund balance, ending			<u>\$ 8,314,036</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Lower SJ River Project Fund

	Original Budget	Final Budget	Actual	Variance with Final Budget
Revenues:				
Investment earnings - interest	\$ 8,500	\$ 8,500	\$ 8,073	\$ (427)
Investment earnings - unrealized (loss)	-	-	(35,002)	(35,002)
Total revenues	<u>8,500</u>	<u>8,500</u>	<u>(26,929)</u>	<u>(35,429)</u>
Expenditures:				
Maintenance and operations	1,665,000	1,665,000	496,528	1,168,472
Agency management	80,000	80,000	109,348	(29,348)
Total expenditures	<u>1,745,000</u>	<u>1,745,000</u>	<u>605,876</u>	<u>1,139,124</u>
Other financing sources (uses):				
Transfers in (out)	-	-	59,630	59,630
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>59,630</u>	<u>59,630</u>
Net change in fund balance	<u>\$ (1,736,500)</u>	<u>\$ (1,736,500)</u>	(573,175)	<u>\$ 1,163,325</u>
Fund balance, beginning			2,428,124	
Fund balance, ending			<u>\$ 1,854,949</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Regional Flood Management Program Fund

	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Investment earnings - interest	\$ 1,000	\$ 1,000	\$ 568	\$ (432)
Investment earnings - unrealized (loss)	-	-	(6,937)	(6,937)
Other government agency aid	-	-	186,635	186,635
Total revenues	<u>1,000</u>	<u>1,000</u>	<u>180,266</u>	<u>179,266</u>
Expenditures:				
Maintenance and operations	920,000	920,000	322,190	597,810
Agency management	80,000	80,000	80,491	(491)
Total expenditures	<u>1,000,000</u>	<u>1,000,000</u>	<u>402,681</u>	<u>597,319</u>
Other financing sources (uses):				
Transfers in (out)	-	-	39,639	39,639
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>39,639</u>	<u>39,639</u>
Net change in fund balance	<u>\$ (999,000)</u>	<u>\$ (999,000)</u>	(182,776)	<u>\$ 816,224</u>
Fund balance, beginning			433,680	
Fund balance, ending			<u>\$ 250,904</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

BUDGET TO ACTUAL COMPARISON SCHEDULES (CONTINUED)
FOR THE YEAR ENDED JUNE 30, 2022

Paradise Cut Fund

	<u>Original Budget</u>	<u>Final Budget</u>	<u>Actual</u>	<u>Variance with Final Budget</u>
Revenues:				
Investment earnings - interest	\$ -	\$ -	\$ 6	\$ 6
Investment earnings - unrealized (loss)	-	-	(167)	(167)
Miscellaneous			10,000	10,000
Total revenues	<u>-</u>	<u>-</u>	<u>9,839</u>	<u>9,839</u>
Expenditures:				
Maintenance and operations	-	-	-	-
Agency management	-	-	-	-
Total expenditures	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Other financing sources (uses):				
Transfers in (out)	-	-	-	-
Total other financing sources (uses)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Net change in fund balance	<u>\$ -</u>	<u>\$ -</u>	9,839	<u>\$ 9,839</u>
Fund balance, beginning			-	
Fund balance, ending			<u>\$ 9,839</u>	

See Notes to Required Supplementary Information

SAN JOAQUIN AREA FLOOD CONTROL AGENCY

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION
JUNE 30, 2022

NOTE 1. BUDGETARY INFORMATION

A. Budget Policy and Practice

The San Joaquin Area Flood Control Agency (the Agency) submits an annual budget to the Board of Directors. The Board of Directors formally approves the annual budget in accordance with the bylaws established by the joint power agency agreement. The Board of Directors is to prepare and adopt a budget within the first 90 days of the fiscal year.

B. Basis of Budgeting

The budget is prepared under accounting principles generally accepted in the United States of America basis. Revenues are budgeted by source. Expenditures are budgeted by department and class as follows: maintenance and operations, administration costs, and real estate planning and acquisition costs. Expenditures may not exceed appropriations at this level.

NOTE 2. EXPENDITURES OVER APPROPRIATIONS

For the fiscal year ended June 30, 2022, the Agency has expenditures over appropriations as follows:

General Fund

Maintenance and operations	\$	(85)
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Maintenance and Operations Fund

Maintenance and operations	\$	(533,980)
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Lower SJ River Project Fund

Agency management	\$	(29,348)
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Regional Flood Management Program Fund

Agency management	\$	(491)
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ADDITIONAL INFORMATION

**INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER
FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS
BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN
ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS***



To the Board of Directors
San Joaquin Area Flood Control Agency
Stockton, California

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, each major fund, and the aggregate remaining fund information of San Joaquin Area Flood Control Agency (the Agency), as of and for the year ended June 30, 2022, and the related notes to the financial statements, which collectively comprise the Agency's basic financial statements, and have issued our report thereon dated December 15, 2022.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Agency's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Agency's internal control. Accordingly, we do not express an opinion on the effectiveness of the Agency's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements, on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

Philip Lantsberger, CPA
Robert Gross, CPA
Nikolas A. Torres, CPA

3461 Brookside Road
Suite E
Stockton, California 95219
Ph: 209.474.1084
Fx: 209.474.0301
www.sglacpas.com

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Agency's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Agency's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Agency's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in blue ink that reads "Schwatz, Giannini, Lantberger & Adamson". The signature is written in a cursive, flowing style.

Stockton, California
December 15, 2022

SAN JOAQUIN AREA FLOOD CONTROL AGENCY
SCHEDULE OF FINDINGS AND QUESTIONED COSTS
JUNE 30, 2022

Section I – Summary of Auditor's Results

Financial Statements

Type of auditor's report issued: Unmodified

Internal control over financial reporting:

Material weaknesses identified?	No
Significant deficiencies identified not considered to be material weakness?	No
Noncompliance material to the financial statements noted?	No

Section II – Summary of Material Weaknesses

None

Section III – Summary of Significant Deficiencies

None

Section IV – Review of Prior Year Material Weaknesses and Significant Deficiencies

None

RESOLUTION NO. SJAFCA 23-02

**SAN JOAQUIN AREA
FLOOD CONTROL AGENCY**

=====

**RESOLUTION TO ACCEPT THE INDEPENDENT AUDITOR'S REPORT AND FINANCIAL
STATEMENTS OF THE SAN JOAQUIN AREA FLOOD CONTROL AGENCY FOR THE
FISCAL YEAR ENDED JUNE 30, 2022**

WHEREAS, Schwartz, Gianinni, Lantsberger and Adamson Accountancy Corporation Certified Public Accountants completed a review of the Agency's financial statements for the year ended June 30, 2022; and

WHEREAS, Schwartz, Gianinni, Lantsberger and Adamson Accountancy Corporation Certified Public Accountants opined that the basic financial statements present fairly in all material respects, the respective financial position of the governmental activities, each major fund, and the aggregate remaining fund information of the San Joaquin Area Flood Control Agency, as of June 30, 2022, and the respective changes in financial position thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN JOAQUIN AREA FLOOD CONTROL AGENCY, AS FOLLOWS:

1. That the Board accepts the attached Independent Auditor's Report and Financial Statements of the San Joaquin Area Flood Control Agency for the fiscal year ended June 30, 2022.

PASSED, APPROVED AND ADOPTED this 26th day of JANUARY, 2023.

XXXX XXXX, Chair of
the San Joaquin Area
Flood Control Agency

ATTEST:

CHRIS ELIAS
Executive Director/Secretary
of the San Joaquin Area
Flood Control Agency

APPROVED AS TO FORM:

SCOTT L. SHAPIRO, Legal Counsel
for the San Joaquin Area
Flood Control Agency

Agenda Item 5.2

January 26, 2023

TO: San Joaquin Area Flood Control Agency

FROM: Chris Elias, Executive Director

SUBJECT: **ADOPT RESOLUTION AUTHORIZING AMENDMENTS TO CONSULTANT CONTRACTS WITH KJELDSSEN, SINNOCK, NEUDECK, INC., FOR ADDITIONAL SERVICES DURING CONTINUED CONSTRUCTION OF THE SMITH CANAL GATE PROJECT**

RECOMMENDATION

It is recommended that the Board of Directors of the San Joaquin Area Flood Control Agency adopt a resolution to:

1. Authorize Amendment No. 6 to the Constructability Review Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$615,034 for additional Construction Management services during continued construction of the Smith Canal Gate Project.
2. Authorize amendment No. 3 to the Construction Management Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$3,792,259 for additional Construction Management services during the construction of the Smith Canal Gate Project.
3. Authorize the Executive Director to execute an internal transfer within the Smith Canal Gate Project budget in the amount of \$1,279,796.
4. Appropriate \$4,407,293 to fund the tasks covered in Amendment No. 6 of the Constructability Review Contract and Amendment No. 3 of the Construction Manager Contract with Kjeldsen, Sinnock, Neudeck, Inc.

It is further recommended that the Executive Director be authorized to take appropriate and necessary actions to carry out the intent of the resolution.

SUMMARY

Amendment No. 6 to the Constructability Review Contract with KSN is for the construction management services that will be needed for one additional year of construction of the Smith Canal Gate Project. The additional year of in-water construction activities requires SJAFCA to maintain the same level environmental compliance, water quality monitoring, levee inspection, continued installation of sheet piles, testing of the miter gates, construction inspection and other related obligations.

Amendment No. 3 to the Construction Management Contract with KSN covers the construction support services provided by sub-consultants during the one additional year of construction of the Smith Canal Gate Project. As construction was winding down in 2022, the US Army Corps of Engineers requested SJAFCA to conduct extensive geotechnical investigations of Dad's Point area. The purpose of the geotechnical investigation is for USACE to use data obtained from the

ADOPT A RESOLUTION AUTHORIZING AMENDMENTS TO THE CONSULTANT CONTRACTS WITH KJELSEN, SINNOCK, NEUDECK, INC., FOR ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES DURING CONTINUED CONSTRUCTION OF THE SMITH CANAL GATE PROJECT

(Page 2)

investigation and related analyses to support the crediting request by SJAFCA for accounting toward the Lower San Joaquin River Project. Conducting the extensive geotechnical investigation required KSN to mobilize its subconsultant, Kleinfelder, to drill several locations along Dad's Point land and conduct sophisticated laboratory analyses of the samples obtained from those several locations. Amendment No. 3 also covers the cost of additional environmental mitigation, Cone Penetration Test (in-water and land based) to refine/confirm design assumptions, and handle General out-of-scope services requested by the Agency.

DISCUSSION

Background

On May 19, 2019, the Board authorized a contract with KSN for construction management support services for the Smith Canal Gate Project. However, as staff was still negotiating the scope of work and budget for the entire project, the Board only authorized the Constructability Review services at that time.

Subsequently, as part of the Constructability Review several Tasks Orders were authorized to continue moving forward with the required activities needed prior to the construction phase of the project. The following Table 1. shows the initial authorization and the subsequent Amendments that have been approved.

Table 1. -Constructability Review Contract

Date	Activities	Budget
May 19, 2019	Constructability Review Contract	\$165,816
Sept 19, 2019	Amendment No. 1 - Test Pile support	\$165,000
Nov 7, 2019	Amendment No. 2 - Engineering/Construction coordination, water quality monitoring during and after construction	\$751,272
March 19, 2020	Amendment No. 3 - Compliance with regulatory requirements including changes and modifications to various resources agency permits	\$385,436
October 21, 2020	Amendment No. 4 – Contract Extension	\$0
June 17, 2021	Amendment No. 5 – Compliance with Regulatory permit compliance	\$488,638
TOTAL		\$1,956,162

Once the Construction Management contract negotiations for the budget and scope of work were completed, on April 30, 2020, the Board approved a Construction Management Contract with KSN in the amount of \$3,599,038. In addition to the traditional construction management services the contract was designed to:

ADOPT A RESOLUTION AUTHORIZING AMENDMENTS TO THE CONSULTANT CONTRACTS WITH KJELDSSEN, SINNOCK, NEUDECK, INC., FOR ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES DURING CONTINUED CONSTRUCTION OF THE SMITH CANAL GATE PROJECT

(Page 3)

- Provide Independent and detailed reviews of final construction plans and specifications to ensure that work requirements are clear, achieve high-end quality and streamline the project's delivery
- Ensure project construction according to contract requirements and local, State, and federal standards, and
- Assist in project administration to reduce impacts to the project and address remaining permits conditions that were not fully known at that time. Estimate fees based on project assumptions made in May 2019

On June 17, 2021, the Board approve Amendment #1 to the Construction Management contract in the amount of \$2,201,890, bringing the total amount of this second contract with KSN to \$6,289,566 (\$3,599,038 + \$2,201,890). See attached Table 2. for the Construction Management contract.

Table 2. -Construction Management Contract

Date	Activities	Budget
April 30, 2020	Construction Management	\$3,599,038
June 17, 2021	Amendment No. 1 - Test Pile support	\$2,201,890
TOTAL		\$6,289,566

Present Situation

Due to unanticipated stiffer underground soil conditions which significantly affected the sheet pile driving operations, construction complexity of the gate structure (miter gate leaves, foundation, walls, and attachments), regulatory permit constraints associated with the in-water work window (IWWW), supply-chain challenges, and contractor quality control issues, the project could not be completed as scheduled on December 31, 2022. Considering that some of the pending improvements could not start until after the beginning of the next IWWW (July 1, 2023) the construction completion of the project had to be extended for a full year, to December 31, 2023.

The extension of the project requires an additional year of construction management support services and the amendment of most of the current regulatory permits. KSN and its subconsultants have been working with State and Federal regulatory agencies to amend existing permit conditions and it is also in the process of obtaining new permits for project improvements that were omitted from the previous permitting process, and for activities needing new or additional coverage.

In addition, as the IWWW for years 2021 and 2022 were extended, KSN budget assumptions for these years needs to be reconciled to address these changes. Also, the Agency has directly added several items to KSN's contract (CPTs and borings and lab testing, etc.) required to address geotechnical USACE requests, or design issues not previously included in the design. Similarly, other miscellaneous tasks that have been performed outside of their current scope of work need to be reconciled.

AGENDA ITEM 5.2

ADOPT A RESOLUTION AUTHORIZING AMENDMENTS TO THE CONSULTANT CONTRACTS WITH KJELDSSEN, SINNOCK, NEUDECK, INC., FOR ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES DURING CONTINUED CONSTRUCTION OF THE SMITH CANAL GATE PROJECT (Page 4)

Based on the above items, SJAFCA requested a proposal from KSN. Staff, in coordination with Doug Handen of the Handen Company, Inc., the Agency's independent Construction Management Consultant, reviewed the proposals and found them reasonable and consistent with the current rates for this type of work. Therefore, it is recommended that the Board of Directors adopt a resolution to:

1. Authorized Amendment No. 6 to the Constructability Review Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$615,034 for additional Construction Management services during the construction of the Smith Canal Gate Project. Specifically, the recommended additional construction management services to be provided include:
 - a. Additional services required by the extension of the in-water work window including environmental compliance and reporting activities
 - b. Processing of ongoing and new environmental permit amendments
 - c. Maintaining water quality sondes during winter 2023
 - d. Conducting additional year of water quality monitoring (dissolved oxygen and other variables) in 2024 as required by California Department of Fish and Wildlife
 - e. Levee monitoring (velocity) to address RD 1614 safety concerns
2. Authorize amendment No. 3 to the Construction Management Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$3,792,259 for additional Construction Management services during the construction of the Smith Canal Gate Project. Specifically, the recommended additional construction management services to be provided include:
 - a. Inspections
 - b. Environmental and biological mitigation
 - c. Changes to the existing contract assumptions generated by the extension of the IWWW during 2021 and 2022
 - d. Payment of regulatory fees
 - e. General out-of-scope services and additional services requested by the Agency
 - f. Cone Penetration Test (in-water and land based) to refine/confirm design assumptions
 - g. Borings and lab testing on Dad's Point Area as requested by U.S. Army Corps of Engineers to determine project consistency for crediting purposes
 - h. General Project and Construction Management
 - i. Levee monitoring (bathymetric surveys) to address RD 1614 safety concerns
3. Authorize the Executive Director to execute an internal transfer within the Smith Canal Gate Project budget in the amount of \$1,279,796.
4. Appropriate \$4,407,293 to fund the tasks covered in Amendment No. 6 of the Constructability Review Contract and Amendment No. 3 of the Construction Manager Contract with KSN.

ADOPT A RESOLUTION AUTHORIZING AMENDMENTS TO THE CONSULTANT CONTRACTS WITH KJELDEN, SINNOCK, NEUDECK, INC., FOR ADDITIONAL CONSTRUCTION MANAGEMENT SERVICES DURING CONTINUED CONSTRUCTION OF THE SMITH CANAL GATE PROJECT (Page 5)

It is further recommended that the Executive Director be authorized to take appropriate and necessary actions to carry out the intent of the resolution.

Fiscal Impact

As the proposed amendments total \$4,407,293 (\$615,034 amendment No.6 + \$3,792,259 amendment No. 3) and the current balance in the Construction Management line item in FY2022/23 Smith Canal Gate Budget is only \$3,127,496, an internal budget transfer from the Construction line item is needed in the amount of \$1,279,796 (\$4,407,293 - \$3,127,496).

This appropriation is necessary to fund the additional Construction Management Services for the additional year of construction and the extension of the IWWW including those in previous years, as well as the general out-of-scope services and those requested by the Agency. The Construction line item has sufficient funds to cover this transfer, and the anticipated construction expenses for the project.

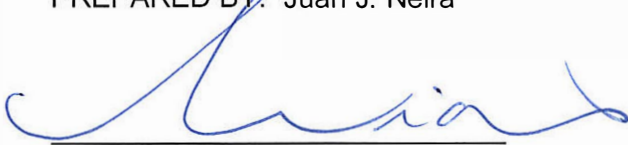
Environmental Compliance

The project one-year extension and related project changes due to regulatory requirements will not result in any new or incrementally more severe impacts beyond those described in the Final Environmental Impact Report and Addenda. Therefore, no subsequent or supplemental environmental impact report is required per CEQA Guidelines Section 15162 and California Public Resources Code Section 21166.

Strategic Plan Consistency Analysis

Approval of this Amendment with KSN to provide technical services during construction is consistent with the Mission and Goals of the Board-adopted Strategic Plan, specifically it is consistent with Goal 1 "to Plan for and Implement System Resiliency."

PREPARED BY: Juan J. Neira



APPROVED:
CHRIS ELIAS
EXECUTIVE DIRECTOR
CE:JJN:lr

Attachments

- Amendment No. 6-1 Revision 1
- Amendment No. 6-2 Revision 1
- Amendment No. 3-1 Revision 2
- Amendment No. 3-2
- Resolution 23-03

December 16, 2022

Juan Neira, PE
San Joaquin Area Flood Control Agency
22 E. Weber Avenue, Room 301
Stockton, CA 95202

Re: Smith Canal Gate Project - Constructability Review Services
Request for Amendment No. 6-1 – **Revision 1**
Out-of-Scope Services through Year 3 (2022)

Dear Juan,

The Kjeldsen, Sinnock & Neudeck, Inc. (KSN) constructability review team entered into a contract with the San Joaquin Area Flood Control Agency (SJAFCA) on May 16, 2019, for constructability review services for the Smith Canal Gate Project. Since that time, five amendments have been executed for various additional services such as support for the test pile program, bidding support, facilitating amendments to existing permits, water quality monitoring in Smith Canal, and other environmental permitting compliance services. Certain assumptions were previously made with regards to the level of effort associated with permit amendments and water quality monitoring that are no longer applicable.

KSN team hereby submits this amendment request in order to reconcile assumption changes and out-of-scope services performed to date. A breakdown of this amendment request is described as follows:

- Additional services to date to facilitate an amendment to the CDFW Incidental Take Permit (ITP)
- Facilitate future amendments to existing permits.
- Maintain Smith Canal water quality sondes during winter/spring months (November 2021 – May 2022)

Facilitate Permit Amendments

Pursuant to previous contract amendments, the KSN team had included a budget to facilitate necessary changes to several of the environmental permits in order to ensure project success. To date, the KSN team has successfully negotiated several permit amendments, and the effort continues. However, the existing budget for facilitating permit amendments has been exhausted and needs to be adjusted in order to continue the KSN team's negotiations with the various permitting agencies with regards to permit condition edits, take coverage, time extensions, etc.

Services to Date regarding CDFW ITP Amendment Request

The KSN team has been working with CDFW for nearly 11 months to secure Amendment #2 to the project's CESA ITP (the application was submitted to CDFW on November 11, 2021). Amendment #2 seeks coverage for the following:

- Concrete pH effects to listed fish.
- Turbidity effects to listed fish from CPT studies.
- Coverage for take of Swainson's hawk and giant garter snake (GGS) during project construction.

During this time, the KSN team has negotiated with CDFW to arrive at mutually agreeable terms and conditions for the noted coverage. Terms included developing agreeable mitigation to impact ratios for impacts to GGS habitat and Swainson's hawk foraging habitat. CDFW has neither been timely nor agreeable during these protracted, difficult negotiations.

The draft ITP Amendment #2 was released to SJAFCA on May 13, 2022. The review of the draft amendment measures revealed the amended ITP did not provide the level of project flexibility requested by SJAFCA. The KSN team subsequently resubmitted the request for ITP Amendment #2 on May 31, 2022.

On August 24, 2022, CDFW requested that SJAFCA summarize the correspondence, impact assessment, and compensatory mitigation related to the project's ITP, both as amended and as requested for amendment. The KSN team submitted this summary to CDFW on September 1, 2022. CDFW has yet to provide ITP Amendment #2 including updated conditions.

This current contract amendment request includes additional budget to cover greater than anticipated expenses to date by the KSN team to secure CDFW ITP Amendment #2. A proposal from ECORP Consulting for the additional services described above is enclosed as Exhibit 1.

Future Services to Facilitate Future Amendments to Existing Permits

The current project design specifies the placement of rock slope protection (RSP) surrounding the miter gate foundation which does not appear to have been fully permitted by SJAFCA to date. Part of the process to finalize CDFW ITP Amendment #2 will include adding the gate RSP activity to the existing ITP amendment process and negotiation. Furthermore, the following permits will also need to be amended to authorize the gate RSP:

- USACE Section 404/10 Permit
- NMFS Biological Opinion
- USFWS Biological Opinion
- CDFW Lake and Streambed Alteration Agreement (LSAA)

Compensatory mitigation for impacts to GGS and Swainson's hawk habitat impacts will need to be satisfied by SJAFCA before additional species coverage is activated. The KSN team will assist SJAFCA in these compensatory mitigation transactions.

This current contract amendment request includes additional budget to finalize CDFW ITP Amendment #2 as well as facilitate the other permits listed above. A proposal from ECORP Consulting for the additional services described above is enclosed as Exhibit 1.

Maintain Smith Canal Water Quality Sondes During Winter 2022 (November 2021 – May 2022)

Pursuant to permit conditions from CDFW, a Water Quality Monitoring Plan was previously developed by the KSN team and approved. KSN's contract (as amended) with SJAFCA currently provides for the deployment of four continuously measuring multi-parameter water quality sondes during a monitoring period of June through October for each year of construction and two years thereafter. It was previously recognized that collecting a full year of sonde data (dissolved oxygen, temperature, and conductivity) will better provide a baseline of the existing conditions and how these conditions vary throughout the year.

A previous contract amendment provided for additional sonde monitoring from February 2020 to May 2020. Although additional sonde monitoring was not performed from November 2020 to May 2021, it was authorized from November 2021 to May 2022.

This current contract amendment request includes the additional costs associated with the sonde monitoring during this past "off-season" from November 2021 to May 2022. A proposal from cbec for the additional monitoring services described above is enclosed as Exhibit 2.

Levee Monitoring

As you know, installation of the miter gate and the removal of the temporary cofferdam were not completed this year as planned. As a result, there is a gap at the north end of the cellular floodwall between Cell C-C and the RD 1614 levee along the Stockton Golf and Country Club. Some concern has been raised as to the potential for



increased velocities and scour at the levee due to this gap. This current amendment request includes velocity monitoring performed by cbec to monitor velocities at the levee for up to six months in order to evaluate the potential for scour. A proposal from cbec for the velocity monitoring services for a six-month period described above is enclosed as Exhibit 3.

Summary

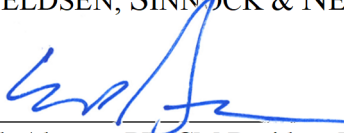
A summary of the current amendment request items as described above is shown below in Table 1. A more detailed fee estimate is enclosed as Exhibit 4.

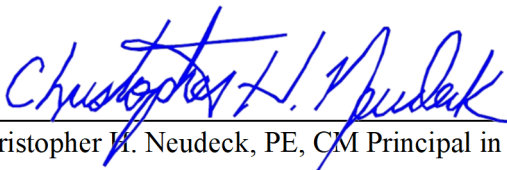
Table 1 - Summary of Amendment Request No. 6-1

Description	Fee Estimate
Facilitate permit amendments:	\$290,737
<i>Services to date regarding CDFW ITP amendment request</i>	<i>\$124,557</i>
<i>Future services to facilitate future amendments to existing permits</i>	<i>\$166,180</i>
Maintain water quality sondes during Winter 2022	\$34,310
Levee monitoring (velocity monitoring)	\$73,654
Total:	\$398,701

Please review the enclosed documentation, and don't hesitate to contact me with any questions or comments. Thank you for your consideration.

Sincerely,
KJELDSSEN, SINNOCK & NEUDECK, INC.


Erik Almaas, PE, CM Resident Engineer


Christopher M. Neudeck, PE, CM Principal in Charge

w/enclosures

- Exhibit 1 - Sub-Consultant Proposal from ECORP Consulting
- Exhibit 2 - Sub-Consultant Proposal from cbec for Water Quality Sondes
- Exhibit 3 - Sub-Consultant Proposal from cbec for Velocity Monitoring
- Exhibit 4 - Fee Estimate for Amendment Request No. 6-1



September 28, 2022
(P19-184.01F/2019-175)

Erik Almaas
KSN, Inc.
1550 Harbor Blvd., Suite 212
West Sacramento, CA 95691

Subject: *Amendment Six to Provide Environmental Support Services for the Smith Canal Gate Project, San Joaquin County, California*

Dear Mr. Almaas:

Attached please find our work proposal to provide additional permit compliance services for the Smith Canal Gate Project. This amendment request includes construction implementation support services through December 31, 2022 (Year 3) not provided for under our current contract, as amended. This amendment request also includes environmental permitting efforts to provide new and/or modified permit coverage through calendar year 2023. Construction implementation support services in 2023 (construction year 4) are not included in this amendment request.

Thank you for the opportunity to submit our work proposal. If you have questions or would like to discuss our proposal further, please contact me at (916) 782-9100 or jtupen@ecorpconsulting.com.

Sincerely,

Jeff Tupen, Project Manager

Attachment(s)

September 28, 2022
(P19-184.01F/2019-175)

Amendment Six

Scope of Work and Cost Estimate for
Expanded Services
for the
Smith Canal Gate Project
(San Joaquin County, California)
for
Kjeldsen, Sinnock & Neudeck, Inc.

This amendment (Amendment Six) requests authorization and additional budget for:

1. Out of scope work completed by ECORP in Construction Year 2 and Year 3,
2. Amending existing permits to authorize new project facilities and changed permit conditions in Construction Year 4, and
3. An increased LOE to implement monitoring and reporting tasks in Construction Year 3 through December 31, 2022.

Our current contract with KSN, as amended, does not include ECORP services beyond December 31, 2022. This amendment request changes this contracted period of performance only insofar as completing project permitting efforts that may extend beyond 2022. ECORP implementation of construction support services (e.g., monitoring and reporting) beyond December 31, 2022 will need to be considered under a separate amendment, as needed.

CONTRACTING BACKGROUND

ECORP has provided environmental services on SJAFCA's Smith Canal Gate Project under contract to KSN, Inc. since 2019. KSN has to date executed six contracts with ECORP for work on the Smith Canal Gate Project (Gate Project). These are:

- | | |
|-------------------|---|
| Initial Contract: | Authorized review of existing regulatory permits and development of a permit compliance matrix. |
| Amendment #1: | Authorized professional services in support of Test Pile Project implementation in October 2019. |
| Amendment #2: | Authorized professional services in support of Gate Project planning and permitting. |
| Amendment #3: | Authorized additional professional services, and extended contracted professional services from two to three years, in support of Gate Project planning and permitting. |

Smith Canal Gate #6, KSN #5 scope (2019-175/007)

- Amendment #4: Authorized construction monitoring services and related tasks for up to three years of construction.
- Amendment #5: Authorized an increased LOE for agency reporting and permit amendments (Contract 1 tasks) over three years, and authorized an increased LOE for daily monitoring tasks and PM associated with a longer Year 2 in-water work window (Contract 2 tasks).

This amendment request, when approved, would represent Amendment #6 to ECORP's initial contract. ECORP's existing contract with KSN, as amended, is separated into two subcontracts: Contract 1 and Contract 2. Contract 2 includes all daily rate monitoring tasks that are implemented during Project construction. Project Management is also included in Contract 2. Contract 1 includes permitting, reporting, and focused biological surveys.

RATIONALE FOR THIS AMENDMENT REQUEST

To maintain the construction schedule in Year 2 (2021) and Year 3 (2022), ECORP completed out-of-scope work. This included 1) substantial work with CDFW for Amendment #2 of the Project's Incidental Take Permit; and 2) completing aquatic monitoring outside of the actual Year 2 (June 15 to December 15, 2021) and permitted Year 3 (July 15 to October 15, 2022) in-water work windows.

This amendment also anticipates seeking permit modifications to allow placement of RSP around the operable gate foundation during the 2023 (Year 4) in-water work window, which in the absence of revised permit conditions will be from July 15 through October 15, 2023. Our amendment request includes permitting support for what is likely to be additional compensatory mitigation requirements from permitting agencies. Because we will likely be reopening several existing permits to accomplish the above objectives, we may attempt to revise/remove select permit conditions that are problematic for project constructability (e.g., NMFS prohibitions of boat/barge operation outside of the IWWW).

Note: Implementation of construction monitoring, biological surveys, and reporting tasks after December 31, 2022 is not included in this amendment request, or within our current contract with KSN, as presently amended. This amendment request instead seeks permit authorizations to complete implementation tasks in Year 4. At this point in time, we understand that gate RSP will likely be installed during the Year 4 in-water work window of July 15-October 15, 2023. The need for additional CEQA review to accommodate Project changes is currently being assessed by SJAFCA and its legal counsel. As such, we have not included CEQA support in this amendment request.

Similar to our Amendment #5 request, we have separated this current amendment request (#6) by KSN Contract 1 and KSN Contract 2.

CONTRACT 1 REQUESTED CHANGES

Requested Contract 1 changes include: 1) additional scope and budget to cover our work to date on ITP Amendment #2 with CDFW, and; 2) new scope and budget to amend existing permits to accommodate: i) placement of RSP around the gate foundation and ii) improved (more reasonable) terms in existing permits.

Details of these proposed changes are provided in the following section.

Existing Task 2.0 – CDFW ITP Amendment #2 (Completed Out of Scope Work)

ECORP has for the last 10 months worked with CDFW to secure Amendment #2 to the Project's CESA ITP (the application was submitted to CDFW on November 11, 2021). Amendment #2 seeks coverage for 1) concrete pH effects to listed fish, 2) turbidity effects to listed fish from CPT studies, and 3) coverage for take of Swainson's hawk and GGS during project construction. The application for ITP Amendment #2 has recently been revised to include installation, operation, and removal of the temporary trestle bridge linking Dad's Point to the south cellular wall and ring cofferdam.

During this time, ECORP has negotiated with CDFW to arrive at mutually agreeable terms and conditions for the noted coverage. Terms included developing agreeable mitigation to impact ratios for impacts to GGS habitat and Swainson's hawk foraging habitat. CDFW has neither been timely nor agreeable during these protracted, difficult negotiations.

The draft ITP Amendment (#2) was released to SJAFCA on May 13, 2022. Our review of the draft amendment measures revealed the amended ITP did not provide the level of project flexibility requested by SJAFCA, and ECORP subsequently resubmitted the request for ITP Amendment #2 on May 31, 2022.

On August 24, 2022, CDFW requested that SJAFCA summarize the correspondence, impact assessment, and compensatory mitigation related to the Project's ITP, both as amended and as requested for amendment. ECORP submitted this summary to CDFW on September 1, 2022.

This task seeks additional budget to cover greater than anticipated efforts by ECORP to secure ITP Amendment #2. **It is important to note** that while SJAFCA has not yet received the requested ITP Amendment #2 from CDFW, the Project has continued to make progress over the last year with no ITP-related curtailments (stoppages or slows) in the project schedule. As such, the ongoing permitting process has provided measurable value to the Project and to SJAFCA.

Compensatory mitigation for impacts to GGS and Swainson's hawk habitat impacts will need to be satisfied by SJAFCA before additional species coverage is activated. ECORP will assist SJAFCA in these compensatory mitigation transactions. The ITP amendment application fee has been previously paid by ECORP.

Task 2.0 Deliverables:

- *No additional deliverables. Future ITP application-related deliverables are included in the next task, below (Permit Amendments).*

Task 2.0 Assumptions:

- *None stated.*

Task 2.0 Additional Budget for ITP Amendment #2 Efforts in Year 3: \$113,234.

Existing Task 2.0 – Future Permit Amendments

Two circumstances not anticipated within our current contracts, as amended, trigger the need to amend current Project permits. These are: 1) SJAFCA's May 2021 abandonment of SJMSCP coverage for SWHA and GGS and the corresponding need to amend the Project's ITP and LSAA, and 2) planned placement of RSP around the operable gate foundation and the need to amend all Project permits. Because CDFW has not yet issued a signature-ready ITP Amendment #2 to date, we will likely recommend that SJAFCA temporarily stop ITP negotiations with CDFW and add the gate RSP activity to the existing ITP amendment process and negotiation. This strategy is developed here in our proposal.

SJAFCA's array of current project permits and the Project's CEQA documents were developed on the key concept of completing all in-water work (IWW) within a 3-month window (July 15 through October 15) to avoid sensitive fish species and life stages. SJAFCA successfully amended project permits in Year 2 to extend the IWW window to the 5-month period from July 1 through November 30, 2021, with mobilization and demobilization activities authorized by NMFS for the two-week periods before and after this 5-month IWW window. ECORP monitoring and reporting services for this extended Year 2 IWW window were accommodated by previous contract amendments and are not included in this current amendment request. The current (Year 3) IWW window was initiated on July 1, 2022 with approvals from several resource agencies. We assume now that the Year 3 IWW window will be extended by NMFS to November 30, 2022 and have structured this amendment accordingly. However **please note** that this is an assumption and that at present the authorized Year 3 in-water work window is July 1 through October 15, 2022.

The current project design specifies the placement of 0.386-acre of RSP surrounding the gate foundation. Placement of rock slope protection (RSP) around the miter gate foundation does not appear to have been fully permitted by SJAFCA to date.

The following permits will need to be amended to authorize the gate RSP:

- USACE Section 404/10 Permit
- NMFS Biological Opinion-revised
- USFWS Biological Opinion-revised
- RWQCB Section 401 Water Quality Certification
- CDFW CESA Incidental Take Permit (Amendment #2)
- CDFW Lake and Streambed Alteration Agreement (Amendment #3)

The need for additional compensatory mitigation related to placement of gate RSP will depend upon the final facility design. In general, facilities that change either the extent or function of regulated habitats commonly incur a requirement for compensatory mitigation. For example, deeply buried RSP may not trigger the need for additional compensatory mitigation, while RSP with a surface signature may likely incur compensatory mitigation.

Because SJAFCA is likely re-engaging with permitting agencies to negotiate permit conditions and terms to support the above project changes, ECORP will use this opportunity to also work with resource agencies to revise existing, restrictive permit conditions. An example is to work with NMFS to remove the prohibition of surface watercraft use outside of the approved IWW window. Another example (also with NMFS) is to remove the water temperature threshold for reducing daily pile

strikes (should pile driving still be required in 2023). ECORP will work with SJAFCA and the CM team to identify permit conditions ripe for change.

To ensure that project permitting to support Year 4 changes is successful, we are proposing to host a pre-application meeting with the USACE and other affected/interested permitting agencies to 1) describe the status of the project to date, and moving forward; 2) to present the purpose and need for permit changes, and; 3) to give agencies an opportunity to ask questions of the CM team and SJAFCA in person to understand agency concerns sooner rather than later in the process. Preapplication meetings are traditionally held in advance of initial project permitting. We are suggesting this step now/again because we believe it will provide value to SJAFCA and to the project to inform and re-engage agencies on the project's current and future status. We have budgeted for an in-person pre-application with the USACE Sacramento District in downtown Sacramento; however, we will be prepared to run a virtual meeting in the event that in-person meetings can't be accommodated.

We have assumed that SJAFCA and not ECORP will pay all permit application fees and any and all compensatory mitigation required by future permitting actions.

Task 2.0 Deliverables:

- *Draft and final permit applications for the noted permits. This will include developing Biological Assessments (BA) or BA Supplements for ESA consultations with NMFS and the USFWS.*
- *Materials to support the Pre-application meeting with agencies.*
- *Our new USACE Project representative has indicated to us that they will need to review all project reporting and documentation prepared to date under USACE authorization in advance of Section 404/10 permitting by their agency. These would include progress and completion reports prepared for NMFS and USFWS under ESA consultations.*

Task 2.0 Assumptions:

- *The USACE will permit the additional gate RSP using a Nationwide Permit or a simple amendment to the project's current Individual Permit. As such, no alternatives analysis, additional NEPA documentation, or alternatives analyses will be required.*
- *Our proposal does not include additional CEQA documentation. If required, ECORP can provide these services under a separate amendment request.*
- *In-person pre-application meeting in downtown Sacramento with three (3) ECORP staff attending for 4 hours total (includes travel time).*
- *Our permitting proposal does not include payment of fees, including permit application fees, or resources to satisfy compensatory mitigation requirements that may be required to support the proposed permit amendments. We assume SJAFCA will pay these fees. ECORP will not be responsible for payment of fees unless approved otherwise by ECORP.*

Task 2.0 Permit Amendments: \$146,000.

CONTRACT 2 REQUESTED CHANGES

We are requesting budget increases for existing Contract 2 tasks to cover construction monitoring efforts (hydroacoustic, WQ, and biological) during 1) an extended Year 2 IWW window (previously completed out-of-scope work), and 2) a planned, longer Year 3 IWW window. We anticipate the Year 3 IWWW will be July 5 through November 30, 2022 (5 months). We also anticipate a 2-week demobilization period from December 1-15, 2022. No new tasks are proposed for Contract 2.

Note: We are not requesting additional budget to complete Year 4 construction monitoring at this time. This will be proposed and estimated separately, if and as needed and requested.

Note: Our task structuring proposal below begins with Task 1.2, Hydroacoustic Monitoring, since this task effectively shapes the LOE for other monitoring tasks in Contract 2.

Existing Task 1.2 – Hydroacoustic Monitoring

Our current contract assumed we would complete 120 days of hydroacoustic monitoring during the Year 2 IWWW from July 1 through November 30, 2021. We instead completed 129 days of hydroacoustic monitoring during this time period (i.e., 9 additional days).

Our current contract assumed we would complete 72 days of hydroacoustic monitoring during a 3-month IWWW in Year 3 from July 15 through October 15, 2022. We are now proposing and targeted to complete 115 days of hydroacoustic monitoring in Year 3 from July 5 through November 30, 2022 (i.e., 43 additional days) under existing permits (i.e., no amended permits needed). We assume NMFS will administratively allow this increased effort, as they did in Year 2, due to poor river flow and temperature conditions.

Our Year 2 fee change request is based on an additional 9 days of hydroacoustic monitoring in Year 2 at a daily rate of \$2009/day (Year 2 rate described in Amendment #4). Our Year 3 fee change request is based on an additional 43 days of hydroacoustic monitoring in Year 3 at a daily rate of \$2069/day (Year 3 rate described in Amendment #4).

Task 1.2 Deliverables:

- *Periodic agency reporting, as required.*

Task 1.2 Assumptions:

- *Budget is based on the LOE noted.*

Task 1.2 Additional HA Monitoring Fee Year 2: \$18,081.

Task 1.2 Additional HA Monitoring Fee Year 3: \$88,967.

Task 1.2 TOTAL: \$107,048.

Existing Task 1.3 – Water Quality Monitoring

These additional days were incurred in January and February 2022 in support of tremie slab placement and cofferdam dewatering.

Our current contract did not anticipate discrete WQ monitoring in Year 3 (i.e., we anticipated WQ monitoring paired with hydroacoustic monitoring). We are now forecasting we will complete 25 days

of focused WQ monitoring in 2022. These are or will be incurred during: 1) tremie slab placement in January 2022 (completed), 2) cofferdam dewatering in February 2022 (completed), 3) construction mobilization in early July 2022 (completed), and 4) construction demobilization in December 2022 (to come).

Our Year 3 fee change request is based on an additional 25 days of IWW monitoring at a daily rate of \$2016/day (Year 3 rate described in Amendment #4).

Task 1.3 Deliverables:

- *Periodic agency reporting, as required.*

Task 1.3 Assumptions:

- *Budget is based on the LOE noted.*

Task 1.3 TOTAL: \$50,400.

Existing Task 1.1A – General Biological/Environmental Monitoring (During the In-water Work Window)

Our current contract, as amended, assumed 144 days of hydroacoustic and water quality monitoring would be completed in Year 2 from June 15, 2021 through December 15, 2021. Instead, we monitored (hydroacoustic and WQ) 153 days of IWW in this time period (9 additional hydroacoustic monitoring days).

Our current contract assumed 72 in-water monitoring days for Year 3 of construction (2022). We are now anticipating 140 days of in-water monitoring in Year 3 (i.e., 68 additional days total; 43 hydroacoustic days and 25 WQ days) to accommodate a planned 5.5-month gross IWW window from July 4 through December 15, 2022.

Our Year 2 fee change request is based on an additional 9 days of IWW monitoring in Year 2 at a daily rate of \$1483/day (Year 2 rate described in Amendment #4). Our Year 3 fee change request is based on an additional 68 days of IWW monitoring in Year 3 at a daily rate of \$1528/day (Year 3 rate described in Amendment #4).

Task 1.1A Deliverables:

- *Periodic agency reporting, as required.*

Task 1.1A Assumptions:

- *Budget is based on the LOE noted.*

Task 1.1A Additional General IWW Monitoring Fee Year 2: \$13,347.
Task 1.1A Additional General IWW Monitoring Fee Year 3: \$103,904.
Task 1.1A TOTAL: \$117,251.

Existing Task 1.1B – General Biological/Environmental Monitoring (Outside of the In-water Work Window)

ECORP currently provides weekly boat-based and terrestrial monitoring of the entire Smith Canal Gate Project site on a weekly basis when IWW is not being completed. Because of increases in the LOE for IWW monitoring in Year 2, we completed two (-2) fewer days of weekly monitoring than anticipated. In Year 3, also due to increases in IWW monitoring LOE, we will complete eight (8) fewer days of weekly monitoring than anticipated.

Our Year 2 fee adjustment reflects a credit of -2 days at \$1391/day. Our Year 3 fee adjustment reflects a credit of -8 days at 1432/day. The net change of this adjustment is a credit of (\$14,238.).

Task 1.1B Deliverables:

- *Periodic agency reporting, as required.*

Task 1.1B Assumptions:

- *Budget is based on the LOE noted.*

Task 1.1B Reduced General Monitoring Fee Outside IWWW Year 2: (\$2,782.)
Task 1.1B Reduced General Monitoring Fee Outside IWWW Year 3: (\$11,456.)
Task 1.1B TOTAL: (\$14,238.)

Existing Task 3.0 – Project Management/Client and Agency Coordination

Amendment #5 assumed ECORP would burn 200 hours per year (16.7 hrs/mo) for each of Year 2 and Year 3. In practice, we spent approximately 440 hours per year (~37 hrs/mo) on PM in Year 2, and are on track to spend the same LOE in Year 3 through December 31, 2022. Along with completion of administrative tasks, ECORP uses this task to coordinate and schedule our extensive field implementation (i.e., daily rate monitoring) and compliance reporting efforts.

This task requests additional budget to cover overruns in Year 2 and in Year 3 to date, and to cover projected shortfalls in the remaining portion of Year 3. This represents an increase of 5 hours/week in PM budget for Year 2 and for Year 3.

Task 3 Deliverables:

- *Monthly invoices to KSN.*

Task 3 Assumptions:

- *No new assumptions stated.*

Task 3.0 Additional PM Fee (Year 2): \$55,505
Task 3.0 Additional PM Fee (Year 3): \$55,172
Task 3.0 TOTAL: \$110,677

Existing Task 4.0 – Permit Application Fees Paid to Date

This task seeks reimbursement of the ITP Amendment #2 application fee paid previously by ECORP to CDFW at SJAFCA's request. ECORP has previously invoiced and received payment from KSN for this loaned fee. This request will essentially restore \$16,833. in budget capacity to ECORP's Contract 2 value. At KSN's request, ECORP created Task 4 under Contract 2 to isolate this transaction.

Task 4.0: \$16,833

FEE SUMMARY

The fee changes for the services described above are **\$647,205**. To be provided on a TIME AND MATERIALS NOT TO EXCEED BASIS, generally over the remaining portion of a 3-year project period of performance, as listed in Table 1, below, and described in this proposal.

	Task Description	Task No.	Year 2 Changes	Year 3 Changes	Total
CONTRACT 1	Multiagency Pre-application Meeting	2.0		\$6,000.	\$6,000.
	USACE Permit Change #2 ¹	2.0		\$30,000.	\$30,000.
	NMFS BO Change #2 ²	2.0		\$30,000.	\$30,000.
	USFWS BO Change #1 ²	2.0		\$30,000.	\$30,000.
	ITP Amendment #2	2.0	\$113,234.	\$30,000.	\$143,234.
	LSAA Amendment #3	2.0		\$20,000.	\$20,000.
	CONTRACT 1 TOTAL		\$113,234.	\$146,000.	\$259,234.
CONTRACT 2	Hydroacoustic Monitoring	1.2	\$10,001.	\$88,967.	\$107,848.
	Water Quality Monitoring	1.3		\$50,400.	\$50,400.
	Monitoring IJWW season	1.1A	\$13,347.	\$103,904.	\$117,251.
	Monitoring Non-IJWW season	1.1B	(\$2,702.)	(\$11,456.)	(\$14,238.)
	Project Management	3	\$55,505.	\$55,172.	\$110,677.
	ITP Amendment #2 appl fee	4	\$16,833.		\$16,833.
	CONTRACT 2 TOTAL		\$100,984.	\$208,987.	\$307,971.
TOTALS	GRAND TOTAL		\$214,218.	\$432,987.	\$647,205.

¹ Assumes NWP and not IP for 404 permitting. No alternatives analyses, public noticing, or additional NEPA documentation.

² Assume BA is required. Not simply administrative mod.

SCHEDULE

This amendment request largely does not modify the previously considered project period of performance (i.e., through December 31, 2022). Rather, it largely reallocates and extends the LOE for specific tasks based on an extended Year 3 IWWW. However, additional project permitting efforts that may be initiated in calendar year 2022 will undoubtedly extend into calendar year 2023. As such., Contract 2 Task 2 (permitting) efforts are anticipated to extend into calendar year 2023. Construction monitoring and reporting efforts in calendar year 2023 will need to be considered under a separate amendment proposal.

EXPENSE REIMBURSEMENT/OTHER:

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
 2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 14% administrative handling charge (excluding per diem).
 3. Subcontractor expenses are reimbursed with a 12% administrative handling charge.
 4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
 5. Per Diem, depending upon location, may be charged where overnight stays are required.
 6. Expert Witness Testimony, including Depositions, is billed at time and a half.
 7. When non-standard billing is requested, time spent by office administrative personnel in invoice preparation is a cost to the project and charged as technical labor.
-



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Date:	10 October 2022
To:	Erik Almass, KSN
From:	Chris Bowles and Greg Shellenbarger, cbec eco engineering
Proposal:	19-1040 Smith Canal Water Quality Monitoring
Subject:	Budgets for winter sondes 2022, 2023, and 2024, full year sondes and sampling 2025

Introduction

KSN requested that cbec eco engineering submit a budget for one full year of continued monitoring for 2025 (servicing sondes year-around and five months of water quality transecting from June 2025 through October 2025). In addition, budgets are included for winter (November – May) sonde servicing for Water Years 2022-2024.

Scope of Work

Winter Sonde Maintenance for Water Years 2022-2024

KSN and SJAFCA have requested to maintain the four water quality sondes deployed through this project year-around, instead of having them deployed only June – October. This work will include monthly site visits to the sondes to download data, clean, change batteries, and perform calibration checks (and recalibrations as necessary). Including this work as part of the water quality monitoring provides year-around time-series of dissolved oxygen and other variables at three locations in Smith Canal and one location in the San Joaquin River. cbec performed this work during the winter of Water Year 2022 and will continue to do this for the winters of Water Years 2023 and 2024.

Water Quality Sondes and Transecting for 2025

Due to construction delays, one additional year of water quality monitoring will be required. cbec will continue to maintain the water quality sondes at the four existing locations from November 2024 through October 2025 and perform summer water quality transecting along eight transects (two in the San Joaquin, three around Atherton Island/Cove, and three in Smith Canal) for five months from June-October 2025. The proposed work will be the same as in previous years with monthly site visits for sonde servicing and summer-month transecting.

Transfer of Funds Between Tasks

The Smith Canal Water Quality Monitoring Project has expanded in scope since the beginning of the project (primarily through year-around sonde deployments, adding a fourth sonde, and an additional year of monitoring). cbec has expended most of the Project Management, Coordination budget. Because the year-around sonde deployments, the funding identified for Task 1 - Install WQ Sondes will no longer be needed to deploy and recover the sondes annually. cbec proposes to move these funds (\$13,620.88) from Task 1 to Task 4 (Project management, Coordination, and Meetings) to provide sufficient funding for Task 4 needs.

Proposed Budget and Schedule

cbec proposes to perform these services on a time and materials basis. The estimated cost to perform the proposed scope of work is \$170,007, as shown by the attached budget estimate.



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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2022

Smith Canal Water Quality cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	22,671.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,156.00
5	Cyanobacteria Sampling	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 24,827.00
		Reimbursables	\$ 3,828.00
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 28,655.00



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ESTIMATED LABOR FEES

2022 Rates

Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$357	\$301	\$279	\$251	\$218	\$195	\$179	\$156	\$140	\$106	\$101		
1												0	\$ -
2		1					10		147			158	\$ 22,671.00
3												0	\$ -
4		3					7					10	\$ 2,156.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 24,827.00



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ESTIMATED REIMBURSABLE EXPENSES

Smith Canal Water Quality

cbec Project #19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	7 day(s)	125.00 /day	\$ 875.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	7 day(s)	250.00 /day	\$ 1,750.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Pro	7 day(s)	90.00 /day	\$ 630.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Field Tablet or Laptop	7 day(s)	25.00 /day	\$ 175.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (calibration standards)			\$ 50.00
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
	Subtotal Reimbursables		\$ 3,480.00
	Administrative Charge (10%)		\$ 348.00
	Total Reimbursables		\$ 3,828.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2023

Smith Canal Water Quality
cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sonde	\$	-
2	Field WQ Monitoring	\$	23,476.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,228.00
5	Cyanobacteria Sampling	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 25,704.00
		Reimbursables	\$ 3,828.00
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 29,532.00



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ESTIMATED LABOR FEES**2023 Rates**
Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$368	\$311	\$288	\$259	\$225	\$201	\$185	\$161	\$145	\$110	\$105		
1												0	\$ -
2		1					10		147			158	\$ 23,476.00
3												0	\$ -
4		3					7					10	\$ 2,228.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 25,704.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2024

Smith Canal Water Quality
cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	24,281.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,300.00
5	Cyanobacteria Sampling and Testing	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
Labor Fee		\$	26,581.00
Reimbursables		\$	3,828.00
Subconsultant(s)		\$	-
Total Project Budget		\$	30,409.00



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ESTIMATED LABOR FEES**2024 Rates**
Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$380	\$321	\$297	\$267	\$232	\$208	\$191	\$166	\$150	\$114	\$109		
1												0	\$ -
2		1					10		147			158	\$ 24,281.00
3												0	\$ -
4		3					7					10	\$ 2,300.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 26,581.00



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ESTIMATED REIMBURSABLE EXPENSES**Smith Canal Water Quality****cbec Project #19-1040**

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	7 day(s)	125.00 /day	\$ 875.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	7 day(s)	250.00 /day	\$ 1,750.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Pro	7 day(s)	90.00 /day	\$ 630.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Field Tablet or Laptop	7 day(s)	25.00 /day	\$ 175.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (calibration standards)			\$ 50.00
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
	Subtotal Reimbursables		\$ 3,480.00
	Administrative Charge (10%)		\$ 348.00
	Total Reimbursables		\$ 3,828.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
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ESTIMATED PROJECT BUDGET SUMMARY -Sonde maintenance (12 months) and transecting (5 months) 2025

Insert Project Title

cbec Project # 19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	48,874.00
3	Annual Reporting	\$	12,304.00
4	Project Management, Coordination, Meetings	\$	4,970.00
5	Cyanobacteria Sampling	\$	2,745.00
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee \$	68,893.00
		Reimbursables \$	12,518.00
		Subconsultant(s) \$	-
		Total Project Budget \$	81,411.00



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ESTIMATED LABOR FEES**2025 Rates****Insert Project Title****cbec Project # 19-1040***Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.*

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$392	\$331	\$306	\$276	\$239	\$215	\$197	\$171	\$155	\$118	\$113		
1												0	\$ -
2		6					24		272			302	\$ 48,874.00
3		4					40		20			64	\$ 12,304.00
4		6					12		4			22	\$ 4,970.00
5							10		5			15	\$ 2,745.00
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	16	0	0	0	0	86	0	301	0	0	403	\$ 68,893.00



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ESTIMATED REIMBURSABLE EXPENSES

Insert Project Title

cbec Project # 19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	12 day(s)	125.00 /day	\$ 1,500.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	12 day(s)	250.00 /day	\$ 3,000.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Field Tablet or Laptop	12 day(s)	25.00 /day	\$ 300.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	12 day(s)	90.00 /day	\$ 1,080.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (cyanobacteria sample bottles, DI water, standards)			\$ 100.00
Software Lease	month(s)	/month	\$ -
Cyanobacteria analysis (\$45/sample)	5 months	1,080.00 /month	\$ 5,400.00
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
		Subtotal Reimbursables	\$ 11,380.00
		Administrative Charge (10%)	\$ 1,138.00
		Total Reimbursables	\$ 12,518.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

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Date:	15 December 2022
To:	Erik Almaas, KSN
From:	Chris Bowles and Greg Shellenbarger
Proposal:	19-1040 Smith Canal WQ Monitoring (Velocity Monitoring)
Subject:	Proposal for velocity monitoring for Smith Canal

Introduction

In October 2022, KSN expressed a need for velocity monitoring at the mouth of Smith Canal in the channel that extends from the northern extent of the newly constructed seawall to the south bank of the Stockton Golf and Country Club. The concern is that potentially high tidal velocities in this channel could lead to erosion of the bank at the southern end of the golf course. cbec explored equipment options for this and decided to rent a side-looking ADCP (Acoustic Doppler Current Profiler) to be deployed near the seawall and oriented toward the bank across the channel. The equipment was obtained, a deployment frame was fabricated, and the ADCP was deployed on 3 November.

The time period for the instrument deployment is uncertain until more data are collected to better evaluate the potential for erosion at the bank. cbec has prepared three budgets to offer flexibility in the length of the deployment. Each budget covers a two-month deployment period, but there are differences between each budget:

- 1) Smith Canal WQ Monitoring (Velocity Monitoring) – 2022 covers the current deployment and is the only budget to include the costs associated with fabrication and the initial deployment, as well as two months of monitoring, servicing, data processing, and reporting.
- 2) Smith Canal WQ Monitoring (Velocity Monitoring) – 2023a includes costs for two months of monitoring, servicing, data processing, and reporting.
- 3) Smith Canal WQ Monitoring (Velocity Monitoring) - 2023b includes costs for two months of monitoring, servicing, data processing, uninstalling the deployment gear, and a potentially longer report to summarize the data collected in previous monitoring periods.

If six months of data collection are requested, all three budgets would be utilized. If only four months of data collection are needed, budgets 1 and 3 would be utilized. Deployments longer than six months would utilize budget 2 multiple times. Please note that the labor rates increase slightly in 2023.

Scope of Work

Task 6 – ADCP Installation

This task includes the preparatory work to determine the appropriate instrumentation, fabricate a deployment frame, and deploy the ADCP.

Task 7 – ADCP Servicing

This task includes monthly site visits to clean the instrument, download data, change the battery, and redeploy the instrument. It also includes the option for an additional site visit (three total) in a two-month period to provide data outside of regular site visits, if requested. The labor for this task only includes the additional labor specifically required for servicing the ADCP during two regular Smith Canal sonde servicing site visits, plus the time for an optional dedicated site visit to service the ADCP.

Task 8 – Data Processing and Reporting

This task includes the time required for data processing, plotting, and reporting. Reports will be descriptive Technical Memos. A Technical Memo will be produced after each two-month deployment period, and a final Technical Memo will be produced at the end of data collection that summarizes all the previously collected data.

Proposed Budget and Schedule

cbec proposes to perform these services on a time and materials basis. The estimated cost to perform the proposed scope of work for 6 months of data collection is \$66,958.33, as shown by the attached budget estimates.



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ESTIMATED PROJECT BUDGET SUMMARY

Smith Canal WQ Monitoring (Velocity Monitoring) - 2022 cbec Project # 19-1040

Task #	Task Description		Subtotal
1		\$	-
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6	ADCP installation	\$	9,137.00
7	ADCP servicing (2 months)	\$	1,779.00
8	Data processing and reporting	\$	13,729.00
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 24,645.00
		Reimbursables	\$ 5,765.23
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 30,410.23



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ESTIMATED LABOR FEES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2022
cbec Project # 19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$357	\$301	\$279	\$251	\$218	\$195	\$179	\$156	\$140	\$106	\$101		
1												0	\$ -
2												0	\$ -
3												0	\$ -
4												0	\$ -
5												0	\$ -
6		1		2			34		10	8		55	\$ 9,137.00
7		1					2		8			11	\$ 1,779.00
8		3		24			38					65	\$ 13,729.00
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	5	0	26	0	0	74	0	18	8	0	131	\$ 24,645.00



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ESTIMATED REIMBURSABLE EXPENSES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2022
cbec Project # 19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	2 trip	13.00 /trip	\$ 26.00
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	2 day(s)	125.00 /day	\$ 250.00
ADCP Rental	2 month(s)	2,048.00 /month	\$ 4,096.00
ADCP battery	1 each	205.00 /each	\$ 205.00
Deployment materials and supplies			\$ 139.12
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	2 day(s)	250.00 /day	\$ 500.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Field Tablet or Laptop	1 day(s)	25.00 /day	\$ 25.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
		Subtotal Reimbursables	\$ 5,241.12
		Administrative Charge (10%)	\$ 524.11
		Total Reimbursables	\$ 5,765.23



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FIELD EQUIPMENT RATES

Smith Canal WQ Monitoring (Velocity Monitoring) - 2022

cbec Project # 19-1040

	daily	weekly	monthly
Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.

For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY

Smith Canal WQ Monitoring (Velocity Monitoring) - 2023a
cbec Project # 19-1040

Task #	Task Description		Subtotal
1		\$	-
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7	ADCP servicing (2 months)	\$	3,581.00
8	Data processing and reporting	\$	6,927.00
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 10,508.00
		Reimbursables	\$ 5,410.90
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 15,918.90



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ESTIMATED LABOR FEES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2023a
cbec Project # 19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$368	\$311	\$288	\$259	\$225	\$201	\$185	\$161	\$145	\$110	\$105		
1												0	\$ -
2												0	\$ -
3												0	\$ -
4												0	\$ -
5												0	\$ -
6												0	\$ -
7		1					2		20			23	\$ 3,581.00
8		3		6			24					33	\$ 6,927.00
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	6	0	0	26	0	20	0	0	56	\$ 10,508.00



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ESTIMATED REIMBURSABLE EXPENSES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2023a
cbec Project # 19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	1 trip	13.00 /trip	\$ 13.00
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	1 day(s)	125.00 /day	\$ 125.00
ADCP Rental	2 month(s)	2,048.00 /month	\$ 4,096.00
ADCP battery	2 each	205.00 /each	\$ 410.00
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	1 day(s)	250.00 /day	\$ 250.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Field Tablet or Laptop	1 day(s)	25.00 /day	\$ 25.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
		Subtotal Reimbursables	\$ 4,919.00
		Administrative Charge (10%)	\$ 491.90
		Total Reimbursables	\$ 5,410.90



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FIELD EQUIPMENT RATES

Smith Canal WQ Monitoring (Velocity Monitoring) - 2023a cbec Project # 19-1040

	daily	weekly	monthly
Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ACDP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.

For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY

Smith Canal WQ Monitoring (Velocity Monitoring) - 2023b
cbec Project # 19-1040

Task #	Task Description		Subtotal
1		\$	-
2		\$	-
3		\$	-
4		\$	-
5		\$	-
6		\$	-
7	ADCP servicing (2 months)	\$	5,321.00
8	Data processing and reporting	\$	9,443.00
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 14,764.00
		Reimbursables	\$ 5,865.20
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 20,629.20



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ESTIMATED LABOR FEES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2023b
cbec Project # 19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$368	\$311	\$288	\$259	\$225	\$201	\$185	\$161	\$145	\$110	\$105		
1												0	\$ -
2												0	\$ -
3												0	\$ -
4												0	\$ -
5												0	\$ -
6												0	\$ -
7		1					2		32			35	\$ 5,321.00
8		3		10			32					45	\$ 9,443.00
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	10	0	0	34	0	32	0	0	80	\$ 14,764.00



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ESTIMATED REIMBURSABLE EXPENSES
Smith Canal WQ Monitoring (Velocity Monitoring) - 2023b
cbec Project # 19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	2 trip	13.00 /trip	\$ 26.00
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	2 day(s)	125.00 /day	\$ 250.00
ADCP Rental	2 month(s)	2,048.00 /month	\$ 4,096.00
ADCP battery	2 each	205.00 /each	\$ 410.00
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	2 day(s)	250.00 /day	\$ 500.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Field Tablet or Laptop	2 day(s)	25.00 /day	\$ 50.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
	Subtotal Reimbursables		\$ 5,332.00
	Administrative Charge (10%)		\$ 533.20
	Total Reimbursables		\$ 5,865.20



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FIELD EQUIPMENT RATES**Smith Canal WQ Monitoring (Velocity Monitoring) - 2023b
cbec Project # 19-1040**

	daily	weekly	monthly
Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
For equipment rented outside cbec rental fleet, actual cost incurred will be charged.

San Joaquin Area Flood Control Agency
Smith Canal Gate Constructability Review Services
AMENDMENT NO. 6-1
TASK HOURS BREAKDOWN

	KJELDSSEN, SINNOCK & NEUDECK INC. STAFF HOURS							Staff Budget	EQUIPMENT					Equipment Budget	OTHER DIRECT COSTS			Other Direct Costs Budget	TOTAL BUDGET (Rounded)
	Principal Engineer	Associate Engineer	Senior Engineer	Engineer	Junior Engineer	Sr. Project Manager	Project Accountant		3D Print Cloud	GPS Equip (1-rec)	Robotic Total Station	HDS Scanner	Boat		Direct Expenses	Mileage	Sub-consultants		
	Rates	\$260	\$233	\$207	\$186	\$148	\$232		\$140	\$27	\$27	\$37	\$159		\$58	110%	0.585		
PROJECT TASKS																			
2.0 Environmental and Regulatory Compliance Services	0	8	0	0	0	16	0	\$ 5,580	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 285,157	\$ 285,157	\$ 290,737
2.1 Services to Date re: CDFW ITP Amendment Request								\$0						\$0	\$0	\$0	\$124,557	\$124,557	\$124,557
2.2 Future Permit Amendments		8				16		\$5,580						\$0	\$0	\$0	\$160,600	\$160,600	\$166,180
3.0 Smith Canal Water Quality Monitoring	0	4	0	0	0	8	0	\$ 2,790	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 31,521	\$ 31,521	\$ 34,310
3.1 Maintain Water Quality Sondes (Winter 2022)		4				8		\$2,790						\$0	\$0	\$0	\$31,521	\$31,521	\$34,310
PROJECT TOTALS	0	12	0	0	0	24	0	\$ 8,370	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 316,678	\$ 316,678	\$ 325,047
8.0 Out-of-Scope Services	0	0	0	0	0	0	0	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 73,654	\$ 73,654	\$ 73,654
8.1 Levee Monitoring (Velocity Monitoring)								\$0						\$0	\$0	\$0	\$73,654	\$73,654	\$73,654
OPTIONAL TASKS TOTALS	0	0	0	0	0	0	0	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 73,654	\$ 73,654	\$ 73,654
GRAND TOTALS	0	12	0	0	0	24	0	\$ 8,370	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 390,332	\$ 390,332	\$ 398,701

January 13, 2023

Juan Neira, PE
San Joaquin Area Flood Control Agency
22 E. Weber Avenue, Room 301
Stockton, CA 95202

Re: Smith Canal Gate Project – Constructability Review Services
Request for Amendment No. 6-2 – **Revision 1**
Construction Management Services for Year 4 (2023)

Dear Juan,

The Kjeldsen, Sinnock & Neudeck, Inc. (KSN) constructability review team entered into a contract with the San Joaquin Area Flood Control Agency (SJAFC) on May 16, 2019, for constructability review services for the Smith Canal Gate Project. Since that time, five amendments have been executed for various additional services such as support for the test pile program, bidding support, facilitating amendments to existing permits, water quality monitoring in Smith Canal, and other environmental permitting compliance services. Certain assumptions were previously made with regards to the level of effort associated with environmental compliance, agency reporting, and water quality monitoring that are no longer applicable.

Recognizing that construction of the project has not been completed this year as planned, the KSN team hereby submits this amendment request to provide services for an additional 12-month period lasting through the end of 2023. Also, the additional year of construction adds a year of water quality monitoring in Smith Canal in 2025.

Environmental and Regulatory Compliance Services in Year 4

This current amendment request includes an additional 12 months of environmental and regulatory compliance activities including, but not limited to, nesting bird compliance; giant garter snake compliance; impact forecasting for USFWS; and construction monitoring reporting for each of the regulatory agencies. A proposal from ECORP Consulting for the additional services described above is enclosed as Exhibit 1.

Smith Canal Water Quality Monitoring

The current amendment request includes an additional year of water quality monitoring in Smith Canal.

Maintain Smith Canal Water Quality Sondes During Winter 2023 and 2024

This current amendment request includes the additional costs associated with the sonde monitoring during the “off-seasons” from November 2022 to May. A proposal from cbec for the additional monitoring services described above is enclosed as Exhibit 2.

Summary

A summary of the current amendment request items as described above is shown below in Table 1. A more detailed fee estimate is enclosed as Exhibit 3.

Table 1 - Summary of Amendment Request No. 6-2

Description	Fee Estimate
Environmental and regulatory compliance and reporting services in Year 4	\$180,768
Maintain Smith Canal water quality sondes during winter 2023	\$35,565
Total:	\$216,333



Juan Neira
January 13, 2023
Page 2 of 2

Please review the enclosed documentation, and don't hesitate to contact me with any questions or comments.
Thank you for your consideration.

Sincerely,
KJELDSSEN, SINNOCK & NEUDECK, INC.

A handwritten signature in blue ink, appearing to read "Erik Almaas", written over a horizontal line.

Erik Almaas, PE, CM Resident Engineer

A handwritten signature in blue ink, appearing to read "Christopher H. Neudeck", written over a horizontal line.

Christopher H. Neudeck, PE, CM Principal in Charge

w/enclosures

- Exhibit 1 - Sub-Consultant Proposal from ECORP Consulting
- Exhibit 2 - Sub-Consultant Proposal from cbec for Water Quality Monitoring
- Exhibit 3 - Fee Estimate for Amendment Request No. 6-2



October 28, 2022
(P19-184.01G/2019-175)

Erik Almaas
KSN, Inc.
1550 Harbor Blvd., Suite 212
West Sacramento, CA 95691

Subject: Amendment Seven to Provide Environmental Support Services for the Smith Canal Gate Project in Construction Year 4, San Joaquin County, California

Dear Mr. Almaas:

Attached please find our work proposal to provide additional permit compliance services for the Smith Canal Gate Project. This amendment request includes construction implementation support services to be implemented from January 1, 2023 through December 31, 2023 (construction Year 4).

Thank you for the opportunity to submit our work proposal. If you have questions or would like to discuss our proposal further, please contact me at (916) 782-9100 or jtupen@ecorpconsulting.com.

Sincerely,

Jeff Tupen, Project Manager

Attachment(s)

Amendment Seven

Scope of Work and Cost Estimate for
 Environmental Compliance Services in Construction Year 4
 for the
Smith Canal Gate Project
 (San Joaquin County, California)
 for
 Kjeldsen, Sinnock & Neudeck, Inc.

This amendment (Amendment Seven) requests authorization and additional budget for:

1. An increased LOE to implement monitoring and reporting tasks in Construction Year 4 from January 1, 2023 through December 31, 2023.

Our current contract with KSN, as amended and as proposed for amendment, does not include ECORP services beyond December 31, 2022. Our Amendment Seven request would extend our contracted period of performance through December 31, 2023.

CONTRACTING BACKGROUND

ECORP has provided environmental services on SJAFCA's Smith Canal Gate Project under contract to KSN, Inc. since 2019. KSN has to date executed six contracts with ECORP for work on the Smith Canal Gate Project (Gate Project). A seventh contract (amendment) is currently in KSN review but has not yet been approved. These seven contracts and amendments are:

- | | |
|-------------------|--|
| Initial Contract: | Authorized review of existing regulatory permits and development of a permit compliance matrix. |
| Amendment #1: | Authorized professional services in support of Test Pile Project implementation in October 2019. |
| Amendment #2: | Authorized professional services in support of Gate Project planning and permitting. |
| Amendment #3: | Authorized additional professional services, and extended contracted professional services from two to three years, in support of Gate Project planning and permitting. |
| Amendment #4: | Authorized construction monitoring services and related tasks for up to three years of construction. |
| Amendment #5: | Authorized an increased LOE for agency reporting and permit amendments (Contract 1 tasks) over three years, and authorized an increased LOE for daily monitoring tasks and PM associated with a longer Year 2 in-water work window (Contract 2 tasks). |
| Amendment #6: | In review. Requests additional budget to 1) accommodate increased levels of effort (LOE) for amendment the Project's CESA ITP permit with CDFW; 2) |

Smith Canal Gate #8, KSN #7 scope (2019-175/008)

permit placement of RSP around the gate foundation; 3) accommodate monitoring and reporting during an extended Year 3 in-water work window; 4) accommodate increased LOE in Project Management; and 5) reimburse ECORP for ITP amendment application fees paid by ECORP to CDFW on behalf of SJAFCA.

This amendment request, when approved, would represent Amendment #7 to ECORP's initial contract. ECORP's existing contract with KSN, as amended, is separated into two subcontracts: Contract 1 and Contract 2. Contract 1 includes permitting, reporting, and focused biological surveys. Contract 2 includes Project Management and all daily rate monitoring tasks that are implemented during Project construction.

RATIONALE FOR THIS AMENDMENT REQUEST

This request proposes to continue to deliver ECORP professional services in calendar year 2023, which is construction Year 4. Similar to our Amendment #5 and #6 requests, we have separated this current amendment request (#7) by KSN Contract 1 and KSN Contract 2.

CONTRACT 1 REQUESTED CHANGES

Requested Contract 1 changes include: 1) Year 4 reporting to various agencies consistent with permit conditions, including Year 4 impact accounting to the USFWS, and 2) MBC subcontracting efforts for Swainson's hawk and giant garter snake compliance.

Note: New permitting associated with placement of gate RSP (proposed under a separate amendment request) may result in the SJAFCA's obligation to implement new permit conditions not currently covered by our contracts (and/or pending amendments) with KSN. These may need to be considered under future Contract 1 amendment requests if and as needed. We have assumed for this amendment request that future (amended) permit conditions are substantially similar to current permit conditions.

Details of proposed Contract 1 changes are provided in the following section.

Existing Task 1.2 – Nesting Bird Compliance in Year 4

This task adds budget to existing Task 1.2 to complete nesting bird surveys, impact mitigations, and reporting during calendar year 2023. ECORP will team once again with Moore Biological Consultants (MBC) to provide these services in what is anticipated to be the final year of Project construction in Year 4.

We are requesting a budget for MBC services of \$4,000./month during the generally accepted nesting bird season from February through September, 2023. MBC will complete pre-construction surveys in and near Project terrestrial work areas (laydown yards, Dad's Point, golf course) to identify active bird nests and to recommend the need for and size of no-work buffers. MBC will assist the contractor in establishing no-work buffers, as needed. MBC will monitor active bird nests to determine if installed buffers are effective at prohibiting injury or mortality of nesting birds. MBC will complete and submit to ECORP and KSN monthly monitoring reports summarizing the previous month's activities.

Note: Permitting efforts with CDFW currently underway (to be authorized under separate amendment requests) may shape the nature of nesting bird compliance work to be completed by SJAFCFA and its consultants (including ECORP and MBC). We have assumed in the absence of revised permits that the conditions required by CDFW in revised permits are substantially similar to those currently being implemented by SJAFCFA. Revised permit conditions included in future permit revisions that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Task 1.2 Deliverables:

- *Monthly reports during the nesting bird season to be submitted by MBC to ECORP and KSN.*

Task 1.2 Assumptions:

- *As stated above.*

Year 4 Task 1.2 Fee: \$32,000.

Existing Task 1.3 – Giant Garter Snake Compliance in Year 4

This task adds budget to existing Task 1.3 to continue installation and maintenance of giant garter snake (GGS) impact avoidance measures, and to report results of these efforts in calendar year 2023. MBC will subcontract to ECORP to continue to provide these services in what is anticipated to be the final year of Project construction in Year 4.

We are requesting a budget for MBC services of \$4,000./month during the GGS inactive season from January through April, 2023 (4 months). Work GGS exclusion zones were identified and installed in 2022 on Dad's Point near suitable GGS habitat. Previously installed exclusion facilities will be maintained by MBC in 2023. This task bid includes budget to reimburse MBC and Eric Hanson for their previous purchases of one-way GGS "doors" from the established exclusion zones. We anticipate that GGS exclusion zones may be established at the golf course bank in 2023 where suitable habitat exists. MBC will assist with installation of these facilities as needed, and will maintain them throughout their installation life, expected to be through late 2023. MBC will complete and submit to ECORP and KSN periodic monitoring reports summarizing GGS protective measures and processes.

Note: Permitting efforts with CDFW currently underway (to be authorized under separate amendment requests) may shape the nature of GGS compliance work to be completed by SJAFCFA and its consultants (including ECORP and MBC). We have assumed in the absence of revised permits that the conditions required by CDFW in revised permits are substantially similar to those currently being implemented by SJAFCFA. Revised permit conditions included in future permit revisions that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Year 4 Task 1.3 Fee: \$16,000.

Existing Task 5.3 – USFWS Impact Forecasting in Year 4

The USFWS Project Biological Assessment requires that SJAFCA estimate the plan-view area of permanent impacts to delta smelt shallow water habitat in advance of each in-water work season. SJAFCA has completed this task in each of the last three construction years. This amendment requests additional budget to complete this impact forecasting and reporting task for work to be performed in calendar year 2023.

Note: Permitting efforts to be reinitiated with USFWS in late 2022 (to be authorized under a separate amendment request) may shape the nature of delta smelt compliance work to be completed by SJAFCA and ECORP in Year 4. We have assumed in the absence of a revised Biological Opinion (BO) that the conditions required by USFWS in a revised BO will be substantially similar to those currently being implemented by SJAFCA. Revised conditions included in a future BO revision that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Year 4 Task 5.3 Fee: \$6,000.

Existing Tasks 8.2, 8.3, and 9.2 – Agency Reporting in Year 4

This task requests additional budget to prepare periodic (monthly and annual) permit compliance reports for CDFW, NMFS, USFWS, and the RWQCB. Past performance of these tasks over the last three construction years has showed that an average budget of \$8,000. per month is necessary to complete required reporting (monthly compliance and annual completion reporting). We are therefore requesting a Year 4 budget of \$96,000. For reporting in calendar year 2023 (12 months).

Year 4 Tasks 8.2, 8.3, 9.2 Reporting Fee: \$96,000.

CONTRACT 2 REQUESTED CHANGES

We are requesting budget increases for existing Contract 2 tasks to cover construction monitoring efforts (hydroacoustic, WQ, and biological) during construction Year 4 in calendar year 2023. We anticipate the Year 4 IWWW will be July 1 through November 30, 2023 (5 months). We also anticipate a 2-week mobilization period from June 15-30, 2023, and a 2-week demobilization period from December 1-15, 2023. We anticipate 26 weeks of once-weekly biological monitoring outside of the IWWW. We are requesting a Project Management budget of 37 hours per month for 12 months in Year 4. No new tasks are proposed for Contract 2.

Note: New permitting associated with placement of gate RSP may result in the SJAFCA's obligation to implement new permit conditions not currently covered by our contracts (and pending amendments) with KSN. These may need to be considered under future Contract 2 amendment requests if and as needed. We will have clarity on these conditions once the permits are received in early 2023.

Note: Our task structuring proposal below begins with Task 1.2, Hydroacoustic Monitoring, since this task effectively shapes the LOE for other monitoring tasks in Contract 2. Levels of effort for daily rate

monitoring tasks described below are contingent on SJAFCA's authorization by permitting agencies to extend the 2023 in-water work window to 6 months (currently 3.5 months in 2022).

Existing Task 1.2 – Hydroacoustic Monitoring

Our Year 4 fee request is based on 131 days of hydroacoustic monitoring in 2023 at a daily rate of \$2172/day.

Task 1.2 Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.2 Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.2 Fee: \$284,532.

Existing Task 1.3 – Water Quality Monitoring

Our Year 4 fee request is based on an additional 27 days of IWW monitoring at a daily rate of \$2117/day during the June mobilization and December demobilization periods.

Task 1.3 Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.3 Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.3 Fee: \$57,159.

Existing Task 1.1A – General Biological/Environmental Monitoring (During the In-water Work Window)

Our Year 4 fee request is based on 158 days of IWW monitoring in Year 4 at a daily rate of \$1604/day.

Task 1.1A Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.1A Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.1A Fee: \$253,432.

Existing Task 1.1B – General Biological/Environmental Monitoring (Outside of the In-water Work Window)

Our Year 4 fee request is based on once-per-week monitoring events over a 26-week period ("off-season") at a daily rate of 1504/day.

Task 1.1B Deliverables:

- Periodic agency reporting, as required (Contract 1 task)

Task 1.1B Assumptions:

- Budget is based on the LOE noted.

Year 4 Task 1.1B Fee: \$39,104.

Existing Task 3.0 – Project Management/Client and Agency Coordination

This task requests budget to cover 440 hours per year (~37 hrs/mo.) in 2023 for client and agency coordination in Year 4, and to schedule and coordinate monitoring staffing for daily rate tasks.

Task 3 Deliverables:

- Monthly invoices to KSN.

Task 3 Assumptions:

- No new assumptions stated.

Year 4 Task 3.0 Fee: \$105,600.

FEE SUMMARY

The fee changes for the services described above are **\$889,827**. To be provided on a TIME AND MATERIALS NOT TO EXCEED BASIS during Construction Year 4 (= calendar year 2023) of a projected 4-year period of performance, as listed in the table below, and described in this proposal.

	Task Description	Task No.	Total
CONTRACT 1	MBC Nesting Bird Compliance Y4	1.2	\$32,000.
	MBC GGS Compliance Y4	1.3	\$16,000.
	Reporting Y4	8.2, 8.3, 9.2	\$96,000.
	USFWS Impact Forecasting Y4	5.3	\$6,000.
	CONTRACT 1 TOTAL		\$150,000.
CONTRACT 2	Hydroacoustic Monitoring Y4	1.2	204,532.
	Water Quality Monitoring Y4	1.3	57,159.
	Monitoring IWW season Y4	1.1A	252,422.
	Monitoring Non-IWW season Y4	1.1B	30,104.
	Project Management/Coordination Y4	3	105,600.
	CONTRACT 2 TOTAL		\$739,827.
TOTAL	GRAND TOTAL		\$889,827.

SCHEDULE

Tasks to be delivered under this amendment, when approved, will be completed in Construction Year 4, during calendar year 2023. We assume the Project will be completed by the end of calendar year 2023. Some reporting tasks to be authorized under this amendment request will be completed early in calendar year 2024 to summarize end of 2023 Project activity.

Note: Our current contracts with KSN include completion of environmental DNA (eDNA) sampling to be completed by Cramer Fish Sciences (ECORP subcontractor) for two successive years following project completion. We assume these sampling events and their associated reporting to SJAFCA and permitting agencies will occur in calendar years 2024 and 2025.

EXPENSE REIMBURSEMENT/OTHER:

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
 2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 14% administrative handling charge (excluding per diem).
 3. Subcontractor expenses are reimbursed with a 12% administrative handling charge.
 4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
 5. Per Diem, depending upon location, may be charged where overnight stays are required.
 6. Expert Witness Testimony, including Depositions, is billed at time and a half.
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Date:	10 October 2022
To:	Erik Almass, KSN
From:	Chris Bowles and Greg Shellenbarger, cbec eco engineering
Proposal:	19-1040 Smith Canal Water Quality Monitoring
Subject:	Budgets for winter sondes 2022, 2023, and 2024, full year sondes and sampling 2025

Introduction

KSN requested that cbec eco engineering submit a budget for one full year of continued monitoring for 2025 (servicing sondes year-around and five months of water quality transecting from June 2025 through October 2025). In addition, budgets are included for winter (November – May) sonde servicing for Water Years 2022-2024.

Scope of Work

Winter Sonde Maintenance for Water Years 2022-2024

KSN and SJAFCA have requested to maintain the four water quality sondes deployed through this project year-around, instead of having them deployed only June – October. This work will include monthly site visits to the sondes to download data, clean, change batteries, and perform calibration checks (and recalibrations as necessary). Including this work as part of the water quality monitoring provides year-around time-series of dissolved oxygen and other variables at three locations in Smith Canal and one location in the San Joaquin River. cbec performed this work during the winter of Water Year 2022 and will continue to do this for the winters of Water Years 2023 ~~and 2024.~~

~~Water Quality Sondes and Transecting for 2025~~

~~Due to construction delays, one additional year of water quality monitoring will be required. cbec will continue to maintain the water quality sondes at the four existing locations from November 2024 through October 2025 and perform summer water quality transecting along eight transects (two in the San Joaquin, three around Atherton Island/Cove, and three in Smith Canal) for five months from June-October 2025. The proposed work will be the same as in previous years with monthly site visits for sonde servicing and summer-month transecting.~~

Transfer of Funds Between Tasks

The Smith Canal Water Quality Monitoring Project has expanded in scope since the beginning of the project (primarily through year-around sonde deployments, adding a fourth sonde, and an additional year of monitoring). cbec has expended most of the Project Management, Coordination budget. Because the year-around sonde deployments, the funding identified for Task 1 - Install WQ Sondes will no longer be needed to deploy and recover the sondes annually. cbec proposes to move these funds (\$13,620.88) from Task 1 to Task 4 (Project management, Coordination, and Meetings) to provide sufficient funding for Task 4 needs.

Proposed Budget and Schedule

cbec proposes to perform these services on a time and materials basis. The estimated cost to perform the proposed scope of work is \$170,007, as shown by the attached budget estimate.



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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2022

Smith Canal Water Quality
cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	22,671.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,156.00
5	Cyanobacteria Sampling	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 24,827.00
		Reimbursables	\$ 3,828.00
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 28,655.00



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ESTIMATED LABOR FEES**2022 Rates**

Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$357	\$301	\$279	\$251	\$218	\$195	\$179	\$156	\$140	\$106	\$101		
1												0	\$ -
2		1					10		147			158	\$ 22,671.00
3												0	\$ -
4		3					7					10	\$ 2,156.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 24,827.00



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ESTIMATED REIMBURSABLE EXPENSES
Smith Canal Water Quality
cbec Project #19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	7 day(s)	125.00 /day	\$ 875.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	7 day(s)	250.00 /day	\$ 1,750.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Pro	7 day(s)	90.00 /day	\$ 630.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Field Tablet or Laptop	7 day(s)	25.00 /day	\$ 175.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (calibration standards)			\$ 50.00
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
Subtotal Reimbursables			\$ 3,480.00
Administrative Charge (10%)			\$ 348.00
Total Reimbursables			\$ 3,828.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2023

Smith Canal Water Quality cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	23,476.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,228.00
5	Cyanobacteria Sampling	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 25,704.00
		Reimbursables	\$ 3,828.00
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 29,532.00



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ESTIMATED LABOR FEES

2023 Rates

Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$368	\$311	\$288	\$259	\$225	\$201	\$185	\$161	\$145	\$110	\$105		
1												0	\$ -
2		1					10		147			158	\$ 23,476.00
3												0	\$ -
4		3					7					10	\$ 2,228.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 25,704.00



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ESTIMATED REIMBURSABLE EXPENSES**Smith Canal Water Quality****cbec Project #19-1040**

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	7 day(s)	125.00 /day	\$ 875.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	7 day(s)	250.00 /day	\$ 1,750.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Pro	7 day(s)	90.00 /day	\$ 630.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Field Tablet or Laptop	7 day(s)	25.00 /day	\$ 175.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (calibration standards)			\$ 50.00
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
	Subtotal Reimbursables		\$ 3,480.00
	Administrative Charge (10%)		\$ 348.00
	Total Reimbursables		\$ 3,828.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY - Winter 2024

Smith Canal Water Quality
cbec Project #19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	24,281.00
3	Annual Reporting	\$	-
4	Project Management, Coordination, Meetings	\$	2,300.00
5	Cyanobacteria Sampling and Testing	\$	-
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
Labor Fee		\$	26,581.00
Reimbursables		\$	3,828.00
Subconsultant(s)		\$	-
Total Project Budget		\$	30,409.00



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ESTIMATED LABOR FEES**2024 Rates**

Smith Canal Water Quality
cbec Project #19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$380	\$321	\$297	\$267	\$232	\$208	\$191	\$166	\$150	\$114	\$109		
1												0	\$ -
2		1					10		147			158	\$ 24,281.00
3												0	\$ -
4		3					7					10	\$ 2,300.00
5												0	\$ -
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	4	0	0	0	0	17	0	147	0	0	168	\$ 26,581.00



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ESTIMATED REIMBURSABLE EXPENSES
Smith Canal Water Quality
cbec Project #19-1040

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	7 day(s)	125.00 /day	\$ 875.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	7 day(s)	250.00 /day	\$ 1,750.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Pro	7 day(s)	90.00 /day	\$ 630.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Field Tablet or Laptop	7 day(s)	25.00 /day	\$ 175.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (calibration standards)			\$ 50.00
Software Lease	month(s)	/month	\$ -
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
Subtotal Reimbursables			\$ 3,480.00
Administrative Charge (10%)			\$ 348.00
Total Reimbursables			\$ 3,828.00



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FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

Unless expressly provided for within the contract, rates are subject to increase annually on the first of January.
For equipment rented outside cbec rental fleet, actual cost incurred will be charged.



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ESTIMATED PROJECT BUDGET SUMMARY -Sonde maintenance (12 months) and transecting (5 months) 2025

Insert Project Title

cbec Project # 19-1040

Task #	Task Description		Subtotal
1	Install WQ Sondes	\$	-
2	Field WQ Monitoring	\$	48,874.00
3	Annual Reporting	\$	12,304.00
4	Project Management, Coordination, Meetings	\$	4,970.00
5	Cyanobacteria Sampling	\$	2,745.00
6		\$	-
7		\$	-
8		\$	-
9		\$	-
10		\$	-
11		\$	-
12		\$	-
13		\$	-
14		\$	-
15		\$	-
16		\$	-
17		\$	-
		Labor Fee	\$ 68,893.00
		Reimbursables	\$ 12,518.00
		Subconsultant(s)	\$ -
		Total Project Budget	\$ 81,411.00



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ESTIMATED LABOR FEES**2025 Rates**

Insert Project Title

cbec Project # 19-1040

Unless expressly provided within the contract, rates are subject to increase annually on January 1 of each year.

Task #	Senior Scientific Advisor	President / Managing Director	Director	Senior Ecoengineer III Senior Ecohydrologist III	Senior Ecoengineer II Senior Ecohydrologist II	Senior Ecoengineer I Senior Ecohydrologist I	Ecoengineer II Ecohydrologist II	EcoEngineer I EcoHydrologist I	Technician II	Technician I	Clerical / Admin. / Graphic Design	Subtotal Labor Hours Per Task	Subtotal Labor Fee Per Task
	\$392	\$331	\$306	\$276	\$239	\$215	\$197	\$171	\$155	\$118	\$113		
1												0	\$ -
2		6					24		272			302	\$ 48,874.00
3		4					40		20			64	\$ 12,304.00
4		6					12		4			22	\$ 4,970.00
5							10		5			15	\$ 2,745.00
6												0	\$ -
7												0	\$ -
8												0	\$ -
9												0	\$ -
10												0	\$ -
11												0	\$ -
12												0	\$ -
13												0	\$ -
14												0	\$ -
15												0	\$ -
16												0	\$ -
17												0	\$ -
	0	16	0	0	0	0	86	0	301	0	0	403	\$ 68,893.00



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ESTIMATED REIMBURSABLE EXPENSES**Insert Project Title****cbec Project # 19-1040**

Item Description	Quantity	Unit Cost	Item Cost
Mileage	miles	0.58 /mile	\$ -
Parking	trip	/trip	\$ -
Lodging	day(s)	/day	\$ -
Per Diem	day(s)	/day	\$ -
Airfare	day(s)	/day	\$ -
Field Truck (100 miles free daily)	12 day(s)	125.00 /day	\$ 1,500.00
ATV (Fuel at Cost)	day(s)	200.00 /day	\$ -
Inflatable Kayak	day(s)	50.00 /day	\$ -
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	12 day(s)	250.00 /day	\$ 3,000.00
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	day(s)	350.00 /day	\$ -
Field Tablet or Laptop	12 day(s)	25.00 /day	\$ 300.00
Acoustic Doppler Current Profiler w/ Trimaran	day(s)	450.00 /day	\$ -
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	12 day(s)	90.00 /day	\$ 1,080.00
Robotic Total Station	day(s)	225.00 /day	\$ -
Survey Grade RTK GPS (Receiver + Network Subscription)	day(s)	350.00 /day	\$ -
Water Level Pressure Transducer	month(s)	250.00 /month	\$ -
Temperature	month(s)	225.00 /month	\$ -
Supplies (cyanobacteria sample bottles, DI water, standards)			\$ 100.00
Software Lease	month(s)	/month	\$ -
Cyanobacteria analysis (\$45/sample)	5 months	1,080.00 /month	\$ 5,400.00
Copying / Production			\$ -
Courier / Delivery			\$ -
Archiving / Documentation			\$ -
Subtotal Reimbursables			\$ 11,380.00
Administrative Charge (10%)			\$ 1,138.00
Total Reimbursables			\$ 12,518.00



Hydrology | Hydraulics | Geomorphology | Design | Field Services

FIELD EQUIPMENT RATESSmith Canal Water Quality
cbec Project #19-1040

Current And Discharge Equipment			
Wading Acoustic Doppler Velocimeter	\$ 100	\$ 400	\$ 1,000
Acoustic Doppler Current Profiler w/ Trimaran	\$ 450	\$ 2,250	\$ 6,750
ADCP Tethered Package (ADCP, RTK, Flying Fox, Laptop)	\$ 650	\$ 3,250	\$ 9,750
ADCP Boat Package (ADCP, RTK, Laptop, Boat)	\$ 825	\$ 4,125	\$ 12,375
Data Loggers			
Water Level Pressure Transducer	\$ 25	\$ 125	\$ 250
Water Level / Temperature / Conductivity	\$ 25	\$ 125	\$ 250
Water Level Meter	\$ 30	\$ 70	\$ 180
Barometric Pressure	\$ 25	\$ 125	\$ 250
Rainfall	\$ 10	\$ 50	\$ 150
Temperature	\$ 15	\$ 75	\$ 225
Sonde Conductivity / Turbidity / Temperature / Depth	\$ 130	\$ 650	\$ 1,950
Handheld Turbidity / Depth	\$ 100	\$ 500	
Handheld Conductivity / Temperature / Dissolved Oxygen Probe / pH / Barometer	\$ 90	\$ 450	
Survey Equipment			
Feno Spike (short)	\$ 80		
Feno Spike (long)	\$ 150		
Field Tablet or Laptop	\$ 25	\$ 125	
Mapping Grade GPS Receiver	\$ 100	\$ 500	
Survey Grade RTK GPS (Receiver + Network Subscription)	\$ 350	\$ 1,750	
Survey Grade RTK GPS (Receiver + Base Setup)	\$ 400	\$ 2,000	
Manual Total Station	\$ 100	\$ 500	
Robotic Total Station	\$ 225	\$ 1,125	
Single Beam Echosounder	\$ 150	\$ 750	
HyDrone RC Boat	\$ 250	\$ 1,250	
Unmanned Aerial System (UAS) - Quad Copter Drone	\$ 150	\$ 750	
Unmanned Aerial System (UAS) - Fixed Wing Drone	\$ 300	\$ 1,500	
Single Beam Boat Package (Echo, RTK, Laptop, Boat)	\$ 600	\$ 3,000	
Single Beam RC Package (Echo, RTK, Laptop, Hydrone)	\$ 600	\$ 3,000	
Single Beam Kayak Package (Echo, RTK, Laptop, Kayak)	\$ 450	\$ 2,250	
ATV Survey Package (RTK, ATV)	\$ 425	\$ 2,125	
Sedimentation Equipment			
Bedload Sampler	\$ 175	\$ 875	
Bed Material Sampler	\$ 175	\$ 875	
Suspended Sediment Sampler (less than 6 fps)	\$ 75	\$ 375	
Suspended Sediment Sampler (less than 12 fps)	\$ 200	\$ 1,000	
Bridge Crane	\$ 60	\$ 300	
Auger (Brass Cores \$5/each)	\$ 20	\$ 100	
Transportation			
ATV - Ranger (Fuel at Cost)	\$ 200	\$ 1,000	
16-ft Jet Boat w/ 40 HP Outboard (Fuel at Cost)	\$ 250	\$ 1,250	
21-ft Jet Boat w/ 310 HP Inboard (Fuel at Cost)	\$ 350	\$ 1,750	
Inflatable Dinghy w/ 9.9 HP Outboard	\$ 100	\$ 500	
Inflatable Kayak	\$ 50	\$ 250	
Field Truck (IRS mileage rates apply; first 100 miles free for daily / weekly use)	\$ 125	\$ 625	\$ 1,875

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For equipment rented outside cbec rental fleet, actual cost incurred will be charged.

San Joaquin Area Flood Control Agency
Smith Canal Gate Constructability Review Services
AMENDMENT NO. 6-2
TASK HOURS BREAKDOWN

	KJELDTSEN, SINNOCK & NEUDECK INC. STAFF HOURS					Staff Budget	EQUIPMENT					Equipment Budget	OTHER DIRECT COSTS			Other Direct Costs Budget	TOTAL BUDGET (Rounded)
	Principal Engineer	Associate Engineer	Engineer I	Sr. Project Manager	Project Accountant		3D Print Cloud	GPS Equip (1-rec)	Robotic Total Station	HDS Scanner	Boat		Direct Expenses	Mileage	Sub-consultants		
	Rates	\$285	\$260	\$195	\$255		\$153	\$27	\$27	\$37	\$159		\$58	110%	0.585		
PROJECT TASKS																	
2.0 Environmental and Regulatory Compliance Services in Year 4	0	0	16	40	16	\$ 15,768	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 165,000	\$ 165,000	\$ 180,768
2.1 Nesting Bird Compliance			8	8	16	\$6,048						\$0	\$0	\$0	\$35,200	\$35,200	\$41,248
2.2 Giant Garter Snake Compliance				8		\$2,040						\$0	\$0	\$0	\$17,600	\$17,600	\$19,640
2.3 USFWS Impact Forecasting				8		\$2,040						\$0	\$0	\$0	\$6,600	\$6,600	\$8,640
2.4 Agency Reporting			8	16		\$5,640						\$0	\$0	\$0	\$105,600	\$105,600	\$111,240
3.0 Smith Canal Water Quality Monitoring	0	4	0	8	0	\$ 3,080	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 32,485	\$ 32,485	\$ 35,565
3.1 Maintain Water Quality Sondes (Winter 2023)		4		8		\$3,080						\$0	\$0	\$0	\$32,485	\$32,485	\$35,565
PROJECT TOTALS	0	4	16	48	16	\$ 18,848	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 197,485	\$ 197,485	\$ 216,333
GRAND TOTALS	0	4	16	48	16	\$ 18,848	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 197,485	\$ 197,485	\$ 216,333

January 13, 2023

Juan Neira, PE
San Joaquin Area Flood Control Agency
22 E. Weber Avenue, Room 301
Stockton, CA 95202

Re: Smith Canal Gate Project - Construction Management Services
Request for Amendment No. 3-1 – **Revision 2**
Out-of-Scope Services through Year 3 (2022)

Dear Juan,

The Kjeldsen, Sinnock & Neudeck, Inc. (KSN) construction management team entered into a contract with the San Joaquin Area Flood Control Agency (SJAFCA) on April 30, 2020, for construction management (CM) services for the Smith Canal Gate Project. Amendment No. 1 was executed on June 17, 2021, which amended the scope of work and budget and essentially extended the assumed construction period into Year 3 through the end of 2022. Amendment No. 2 was executed on February 10, 2022, which extended the term of the CM contract to April 30, 2023.

The KSN CM team hereby submits this amendment request in order to reconcile assumption changes and out-of-scope services performed to date. A breakdown of this amendment request is described as follows:

- Assumption changes regarding the designated In-Water Work Window (IWWW) and its effect on inspection and biological monitoring requirements.
- Out-of-scope services to date.

In-Water Work Season Assumption Changes

The various environmental permits for the project originally allowed for a three-month IWWW each year from July 15 to October 15. No boat and barge traffic was allowed outside of this IWWW.

Year 2 (2021) IWWW

Permits have been amended to extend the IWWW in Year 2 from three months to five months from July 1, 2021, to November 30, 2021, and allowing boat and barge traffic to occur two weeks before and after. As such, the increase in the in-IWWW duration for Year 2 had an impact on the level of effort needed for environmental and biological monitoring as follows:

- Hydroacoustic monitoring
- Water quality monitoring
- General biological monitoring

The KSN team's assumptions regarding environmental and biological monitoring requirements were updated as part of Amendment No. 1. However, due to the contractor's actual scheduling and sequencing, the number of monitoring days varied. A summary of the differences in monitoring days between the current contract assumptions and the actual required days is shown below in Table 1.

Table 1 - Environmental & Biological Monitoring Days Comparison - Year 2 (2021)

Description	Month Range		Monitoring Days		
	Current	Revised	Current	Revised	Difference
Hydroacoustic monitoring	Jul 1 – Nov 30	Jul 1 – Nov 30	120	129	+9
Water quality monitoring	Jun 16 – Jun 30	Jun 16 – Jun 30	24	24	0
	Dec 1 – Dec 15	Dec 1 – Dec 15			
General biological monitoring (During IWWW)	Jun 16 – Dec 15	Jun 16 – Dec 15	144	153	+9
General biological monitoring (Outside IWWW)	Jan 1 – Jun 15	Jan 1 – Jun 15	26	24	-2
	Dec 16 – Dec 31	Dec 16 – Dec 31			

This current amendment request includes the additional environmental and biological monitoring time as summarized above for Year 2. A proposal from ECORP Consulting for the additional monitoring services described above is enclosed as Exhibit 1.

Year 3 (2022) IWWW

The current scope of work for environmental and biological monitoring in Year 3 is based on the original three-month IWWW. Based on the updated construction schedule, the beginning of the IWWW was adjusted from July 15, 2022, to July 1, 2022. After the end of the IWWW on October 15, 2022, it took the contractor approximately three weeks to demobilize its marine fleet.

As a result of the updated schedule and extended IWWW, the level of effort for environmental and biological monitoring in Year 3 has increased substantially. Furthermore, additional water quality monitoring was required at various days in January and February 2022 during concrete pours for the tremie slab and foundation slab. A summary of the differences in monitoring days between the current contract assumptions and the updated anticipated days is shown below in Table 2.

Table 2 - Environmental & Biological Monitoring Days Comparison - Year 3 (2022)

Description	Month Range		Monitoring Days		
	Current	Revised	Current	Revised	Difference
Hydroacoustic monitoring	Jul 15 – Oct 15	Jul 5 – Oct 15	72	79	+7
Water quality monitoring	N/A	Jan / Feb	0	30	+30
		Jul 1 – Jul 5 Oct 16 – Nov 4			
General biological monitoring (During IWWW)	Jul 15 – Oct 15	Jan / Feb Jul 1 – Nov 4	72	109	+37
General biological monitoring (Outside IWWW)	Jan 1 – Jul 14	Jan 1 – Jun 30	38	35	-3
	Oct 16 – Dec 31	Nov 5 – Dec 31			

A graphical comparison is shown below in Figure 1.

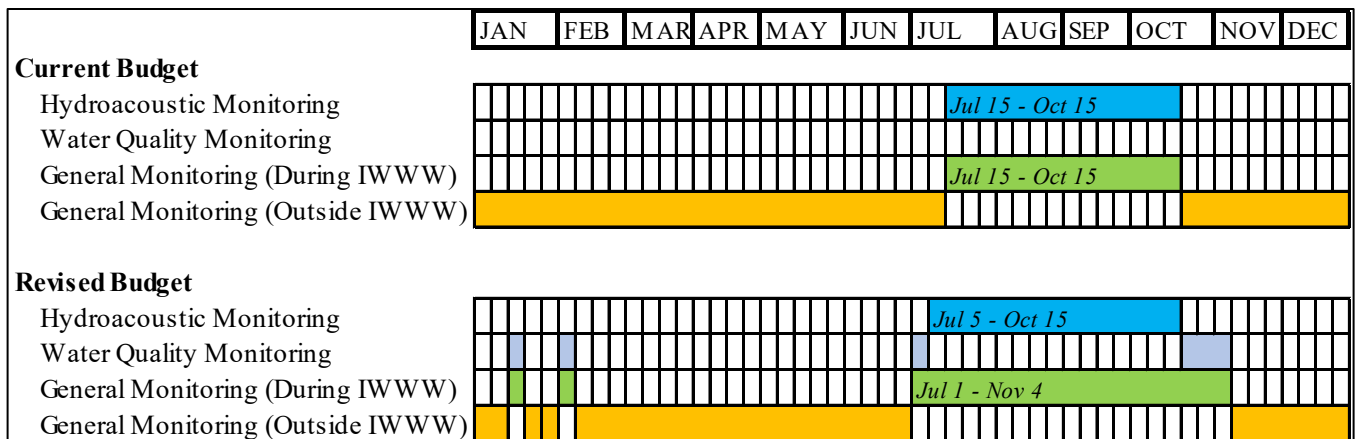


Figure 1 - Environmental & Biological Monitoring Days Comparison - Year 3 (2022)

This current amendment request includes the additional environmental and biological monitoring time as summarized above for Year 3, including reimbursement for the application fee for the second CDFW ITP amendment request. A proposal from ECORP Consulting for the additional monitoring services described above is enclosed as Exhibit 1.

The level of effort for general inspection in Year 3 has also increased as a result of the updated schedule and extended IWW. This current amendment request includes additional labor and boat hours accordingly.

Out-of-Scope Services To Date

Various out-of-scope services for work that has been performed outside of the KSN team's current scope of work have been captured and invoiced accordingly. The out-of-scope services to date have generally included, but are not limited to, the following:

- General out-of-scope services:
 - Prepare and present project and schedule updates to the SJAFCA Board of Directors.
 - Respond to Freedom of Information Act requests on behalf of SJAFCA.
 - Perform quality assurance shop welding inspections of the sheet pile interlock fabrication.
 - Perform quality assurance shop welding inspections of the miter gate fabrication.
 - Coordinate and conduct several boat site tours of the construction site with various agencies and entities.
 - Coordinate and update easement documents related to the proposed public utility easement and the SJAFCA easement.
 - Coordinate regarding the access easement and gate location at the Stockton Golf and Country Club. Update access easement and temporary construction easement documents. Update real estate plan.
 - Coordinate regarding the proposed design changes at the Stockton Golf and Country Club.
- Review potential claims and delays and discuss with SJAFCA and legal counsel including review by PND and Kleinfelder.
- Coordinate review and evaluation of repairs to miter gate damage including weld inspections by Kleinfelder.
- Coordinate review and evaluation of gate foundation damage including concrete core sampling and testing by Kleinfelder.
- Coordinate extra geotechnical work at Dad's Point including CPTs by Kleinfelder.
- Coordinate extra in-water geotechnical work (including the tip of Dad's Point) including CPTs by Geo-Ex.

- Coordinate evaluation of potential permanent stop log storage site including geotechnical investigation by Kleinfelder. A proposal from Kleinfelder for the additional geotechnical investigation is enclosed as Exhibit 2.

This current amendment request includes the out-of-scope services that have been performed to date as described above.

Other Out-of-Scope Services

Other out-of-scope services that have been identified and authorized include an additional 14 borings and associated lab testing along Dad's Point in accordance with U.S. Army Corps of Engineers (USACE) requirements. There are also additional in-water CPTs along the Dad's Point levee alignment that are currently being considered. However, these CPT costs are not included in this amendment request.

As you know, installation of the miter gate and the removal of the temporary cofferdam were not completed this year as planned. As a result, there is a gap at the north end of the cellular floodwall between Cell C-C and the RD 1614 levee along the Stockton Golf and Country Club. Some concern has been raised as to the potential for increased velocities and scour at the levee due to this gap. This current amendment request includes additional measures to monitor the RD 1614 levee consisting of biweekly bathymetric surveys for up to six months in order to evaluate if any scour is occurring.

Summary

A summary of the current amendment request items as described above is shown below in Table 1. A more detailed fee estimate is enclosed as Exhibit 4.

Table 3 - Summary of Amendment Request No. 3-1

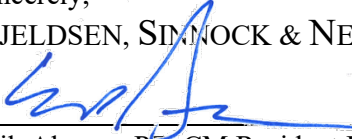
Description	Fee Estimate
Environmental & biological monitoring – Year 2 (2021)	\$92,567
Environmental & biological monitoring – Year 3 (2022)	\$200,612
CDFW ITP amendment request application fee	\$18,516
General inspection – Year 3 (2022)	\$42,072
Out-of-scope services to date:	\$475,106
General out-of-scope services	\$81,466
Potential claims and delays	\$23,218
Miter gate repairs	\$16,453
Gate foundation slab repairs	\$14,569
CPTs at Dad's Point	\$16,639
In-water CPTs (plus tip of Dad's Point)	\$286,341
Stop log storage	\$36,420
Other out-of-scope services:	\$585,431
USACE Borings and Lab Testing at Dad's Point	\$522,547
Levee monitoring (bathymetric surveys)	\$62,884
Total:	\$1,414,304

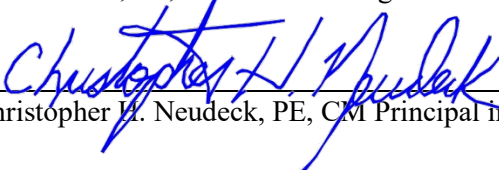


Juan Neira
January 13, 2023
Page 5 of 5

Please review the enclosed documentation, and don't hesitate to contact me with any questions or comments.
Thank you for your consideration.

Sincerely,
KJELDSSEN, SINNOCK & NEUDECK, INC.



Erik Almaas, PE, CM Resident Engineer

Christopher H. Neudeck, PE, CM Principal in Charge

w/enclosures

- Exhibit 1 - Sub-Consultant Proposal from ECORP Consulting
- Exhibit 2 - Sub-Consultant Proposal from Kleinfelder for Stop Log Storage Site
- Exhibit 3 - Sub-Consultant Proposal from Kleinfelder for USACE Borings at Dad's Point
- Exhibit 4 - Fee Estimate for Amendment Request No. 3-1



November 22, 2022
(P19-184.01F/2019-175)

Erik Almaas
KSN, Inc.
1550 Harbor Blvd., Suite 212
West Sacramento, CA 95691

Subject: Amendment Six to Provide Environmental Support Services for the Smith Canal Gate Project, San Joaquin County, California

Dear Mr. Almaas:

Attached please find our revised work proposal and fee estimate to provide additional permit compliance services for the Smith Canal Gate Project. Fees have been adjusted to reflect NMFS's refusal to allow 2022 in-water work beyond October 15. This amendment request includes construction implementation support services through December 31, 2022 (Year 3) not provided for under our current contract, as amended. This amendment request also includes environmental permitting efforts to provide new and/or modified permit coverage through calendar year 2023. Construction implementation support services in 2023 (construction year 4) are not included in this amendment request.

Thank you for the opportunity to submit our work proposal. If you have questions or would like to discuss our proposal further, please contact me at (916) 782-9100 or jtupen@ecorpconsulting.com.

Sincerely,

Jeff Tupen, Project Manager

Attachment(s)

September 28, 2022
(P19-184.01F/2019-175)

Amendment Six

Scope of Work and Cost Estimate for
Expanded Services
for the
Smith Canal Gate Project
(San Joaquin County, California)
for
Kjeldsen, Sinnock & Neudeck, Inc.

This amendment (Amendment Six) requests authorization and additional budget for:

1. Out of scope work completed by ECORP in Construction Year 2 and Year 3,
2. Amending existing permits to authorize new project facilities and changed permit conditions in Construction Year 4, and
3. An increased LOE to implement monitoring and reporting tasks in Construction Year 3 through December 31, 2022.

Our current contract with KSN, as amended, does not include ECORP services beyond December 31, 2022. This amendment request changes this contracted period of performance only insofar as completing project permitting efforts that may extend beyond 2022. ECORP implementation of construction support services (e.g., monitoring and reporting) beyond December 31, 2022 will need to be considered under a separate amendment, as needed.

CONTRACTING BACKGROUND

ECORP has provided environmental services on SJAFCA's Smith Canal Gate Project under contract to KSN, Inc. since 2019. KSN has to date executed six contracts with ECORP for work on the Smith Canal Gate Project (Gate Project). These are:

- | | |
|-------------------|---|
| Initial Contract: | Authorized review of existing regulatory permits and development of a permit compliance matrix. |
| Amendment #1: | Authorized professional services in support of Test Pile Project implementation in October 2019. |
| Amendment #2: | Authorized professional services in support of Gate Project planning and permitting. |
| Amendment #3: | Authorized additional professional services, and extended contracted professional services from two to three years, in support of Gate Project planning and permitting. |

Smith Canal Gate #6, KSN #5 scope (2019-175/007)

Amendment #4: Authorized construction monitoring services and related tasks for up to three years of construction.

Amendment #5: Authorized an increased LOE for agency reporting and permit amendments (Contract 1 tasks) over three years, and authorized an increased LOE for daily monitoring tasks and PM associated with a longer Year 2 in-water work window (Contract 2 tasks).

This amendment request, when approved, would represent Amendment #6 to ECORP's initial contract. ECORP's existing contract with KSN, as amended, is separated into two subcontracts: Contract 1 and Contract 2. Contract 2 includes all daily rate monitoring tasks that are implemented during Project construction. Project Management is also included in Contract 2. Contract 1 includes permitting, reporting, and focused biological surveys.

RATIONALE FOR THIS AMENDMENT REQUEST

To maintain the construction schedule in Year 2 (2021) and Year 3 (2022), ECORP completed out-of-scope work. This included 1) substantial work with CDFW for Amendment #2 of the Project's Incidental Take Permit; and 2) completing aquatic monitoring outside of the actual Year 2 (June 15 to December 15, 2021) and permitted Year 3 (July 15 to October 15, 2022) in-water work windows.

This amendment also anticipates seeking permit modifications to allow placement of RSP around the operable gate foundation during the 2023 (Year 4) in-water work window, which in the absence of revised permit conditions will be from July 15 through October 15, 2023. Our amendment request includes permitting support for what is likely to be additional compensatory mitigation requirements from permitting agencies. Because we will likely be reopening several existing permits to accomplish the above objectives, we may attempt to revise/remove select permit conditions that are problematic for project constructability (e.g., NMFS prohibitions of boat/barge operation outside of the IWWW).

Note: Implementation of construction monitoring, biological surveys, and reporting tasks after December 31, 2022 is not included in this amendment request, or within our current contract with KSN, as presently amended. This amendment request instead seeks permit authorizations to complete implementation tasks in Year 4. At this point in time, we understand that gate RSP will likely be installed during the Year 4 in-water work window of July 15-October 15, 2023. The need for additional CEQA review to accommodate Project changes is currently being assessed by SJAFCA and its legal counsel. As such, we have not included CEQA support in this amendment request.

Similar to our Amendment #5 request, we have separated this current amendment request (#6) by KSN Contract 1 and KSN Contract 2.

CONTRACT 1 REQUESTED CHANGES

Requested Contract 1 changes include: 1) additional scope and budget to cover our work to date on ITP Amendment #2 with CDFW, and; 2) new scope and budget to amend existing permits to accommodate: i) placement of RSP around the gate foundation and ii) improved (more reasonable) terms in existing permits.

Details of these proposed changes are provided in the following section.

Existing Task 2.0 – CDFW ITP Amendment #2 (Completed Out of Scope Work)

ECORP has for the last 10 months worked with CDFW to secure Amendment #2 to the Project's CESA ITP (the application was submitted to CDFW on November 11, 2021). Amendment #2 seeks coverage for 1) concrete pH effects to listed fish, 2) turbidity effects to listed fish from CPT studies, and 3) coverage for take of Swainson's hawk and GGS during project construction. The application for ITP Amendment #2 has recently been revised to include installation, operation, and removal of the temporary trestle bridge linking Dad's Point to the south cellular wall and ring cofferdam.

During this time, ECORP has negotiated with CDFW to arrive at mutually agreeable terms and conditions for the noted coverage. Terms included developing agreeable mitigation to impact ratios for impacts to GGS habitat and Swainson's hawk foraging habitat. CDFW has neither been timely nor agreeable during these protracted, difficult negotiations.

The draft ITP Amendment (#2) was released to SJAFCA on May 13, 2022. Our review of the draft amendment measures revealed the amended ITP did not provide the level of project flexibility requested by SJAFCA, and ECORP subsequently resubmitted the request for ITP Amendment #2 on May 31, 2022.

On August 24, 2022, CDFW requested that SJAFCA summarize the correspondence, impact assessment, and compensatory mitigation related to the Project's ITP, both as amended and as requested for amendment. ECORP submitted this summary to CDFW on September 1, 2022.

This task seeks additional budget to cover greater than anticipated efforts by ECORP to secure ITP Amendment #2. **It is important to note** that while SJAFCA has not yet received the requested ITP Amendment #2 from CDFW, the Project has continued to make progress over the last year with no ITP-related curtailments (stoppages or slows) in the project schedule. As such, the ongoing permitting process has provided measurable value to the Project and to SJAFCA.

Compensatory mitigation for impacts to GGS and Swainson's hawk habitat impacts will need to be satisfied by SJAFCA before additional species coverage is activated. ECORP will assist SJAFCA in these compensatory mitigation transactions. The ITP amendment application fee has been previously paid by ECORP.

Task 2.0 Deliverables:

- *No additional deliverables. Future ITP application-related deliverables are included in the next task, below (Permit Amendments).*

Task 2.0 Assumptions:

- *None stated.*

Task 2.0 Additional Budget for ITP Amendment #2 Efforts in Year 3: \$113,234.

Existing Task 2.0 – Future Permit Amendments

Two circumstances not anticipated within our current contracts, as amended, trigger the need to amend current Project permits. These are: 1) SJAFCA's May 2021 abandonment of SJMSCP coverage for SWHA and GGS and the corresponding need to amend the Project's ITP and LSAA, and 2) planned placement of RSP around the operable gate foundation and the need to amend all Project permits. Because CDFW has not yet issued a signature-ready ITP Amendment #2 to date, we will likely recommend that SJAFCA temporarily stop ITP negotiations with CDFW and add the gate RSP activity to the existing ITP amendment process and negotiation. This strategy is developed here in our proposal.

SJAFCA's array of current project permits and the Project's CEQA documents were developed on the key concept of completing all in-water work (IWW) within a 3-month window (July 15 through October 15) to avoid sensitive fish species and life stages. SJAFCA successfully amended project permits in Year 2 to extend the IWW window to the 5-month period from July 1 through November 30, 2021, with mobilization and demobilization activities authorized by NMFS for the two-week periods before and after this 5-month IWW window. ECORP monitoring and reporting services for this extended Year 2 IWW window were accommodated by previous contract amendments and are not included in this current amendment request. The current (Year 3) IWW window was initiated on July 1, 2022 with approvals from several resource agencies. We assume now that the Year 3 IWW window will be extended by NMFS to November 30, 2022 and have structured this amendment accordingly. However **please note** that this is an assumption and that at present the authorized Year 3 in-water work window is July 1 through October 15, 2022.

The current project design specifies the placement of 0.386-acre of RSP surrounding the gate foundation. Placement of rock slope protection (RSP) around the miter gate foundation does not appear to have been fully permitted by SJAFCA to date.

The following permits will need to be amended to authorize the gate RSP:

- USACE Section 404/10 Permit
- NMFS Biological Opinion-revised
- USFWS Biological Opinion-revised
- RWQCB Section 401 Water Quality Certification
- CDFW CESA Incidental Take Permit (Amendment #2)
- CDFW Lake and Streambed Alteration Agreement (Amendment #3)

The need for additional compensatory mitigation related to placement of gate RSP will depend upon the final facility design. In general, facilities that change either the extent or function of regulated habitats commonly incur a requirement for compensatory mitigation. For example, deeply buried RSP may not trigger the need for additional compensatory mitigation, while RSP with a surface signature may likely incur compensatory mitigation.

Because SJAFCA is likely re-engaging with permitting agencies to negotiate permit conditions and terms to support the above project changes, ECORP will use this opportunity to also work with resource agencies to revise existing, restrictive permit conditions. An example is to work with NMFS to remove the prohibition of surface watercraft use outside of the approved IWW window. Another example (also with NMFS) is to remove the water temperature threshold for reducing daily pile

strikes (should pile driving still be required in 2023). ECORP will work with SJAFCA and the CM team to identify permit conditions ripe for change.

To ensure that project permitting to support Year 4 changes is successful, we are proposing to host a pre-application meeting with the USACE and other affected/interested permitting agencies to 1) describe the status of the project to date, and moving forward; 2) to present the purpose and need for permit changes, and; 3) to give agencies an opportunity to ask questions of the CM team and SJAFCA in person to understand agency concerns sooner rather than later in the process. Preapplication meetings are traditionally held in advance of initial project permitting. We are suggesting this step now/again because we believe it will provide value to SJAFCA and to the project to inform and re-engage agencies on the project's current and future status. We have budgeted for an in-person pre-application with the USACE Sacramento District in downtown Sacramento; however, we will be prepared to run a virtual meeting in the event that in-person meetings can't be accommodated.

We have assumed that SJAFCA and not ECORP will pay all permit application fees and any and all compensatory mitigation required by future permitting actions.

Task 2.0 Deliverables:

- *Draft and final permit applications for the noted permits. This will include developing Biological Assessments (BA) or BA Supplements for ESA consultations with NMFS and the USFWS.*
- *Materials to support the Pre-application meeting with agencies.*
- *Our new USACE Project representative has indicated to us that they will need to review all project reporting and documentation prepared to date under USACE authorization in advance of Section 404/10 permitting by their agency. These would include progress and completion reports prepared for NMFS and USFWS under ESA consultations.*

Task 2.0 Assumptions:

- *The USACE will permit the additional gate RSP using a Nationwide Permit or a simple amendment to the project's current Individual Permit. As such, no alternatives analysis, additional NEPA documentation, or alternatives analyses will be required.*
- *Our proposal does not include additional CEQA documentation. If required, ECORP can provide these services under a separate amendment request.*
- *In-person pre-application meeting in downtown Sacramento with three (3) ECORP staff attending for 4 hours total (includes travel time).*
- *Our permitting proposal does not include payment of fees, including permit application fees, or resources to satisfy compensatory mitigation requirements that may be required to support the proposed permit amendments. We assume SJAFCA will pay these fees. ECORP will not be responsible for payment of fees unless approved otherwise by ECORP.*

Task 2.0 Permit Amendments: \$146,000.

CONTRACT 2 REQUESTED CHANGES

We are requesting budget increases for existing Contract 2 tasks to cover construction monitoring efforts (hydroacoustic, WQ, and biological) during 1) an extended Year 2 IWW window (previously completed out-of-scope work), and 2) a planned, longer Year 3 IWW window. We anticipate the Year 3 IWWW will be July 5 through November 30, 2022 (5 months). We also anticipate a 2-week demobilization period from December 1-15, 2022. No new tasks are proposed for Contract 2.

Note: We are not requesting additional budget to complete Year 4 construction monitoring at this time. This will be proposed and estimated separately, if and as needed and requested.

Note: Our task structuring proposal below begins with Task 1.2, Hydroacoustic Monitoring, since this task effectively shapes the LOE for other monitoring tasks in Contract 2.

Existing Task 1.2 – Hydroacoustic Monitoring

Our current contract assumed we would complete 120 days of hydroacoustic monitoring during the Year 2 IWWW from July 1 through November 30, 2021. We instead completed 129 days of hydroacoustic monitoring during this time period (i.e., 9 additional days).

Our current contract assumed we would complete 72 days of hydroacoustic monitoring during a 3-month IWWW in Year 3 from July 15 through October 15, 2022. We instead completed 79 days of hydroacoustic monitoring during this period (i.e., 7 additional days).

Our Year 2 fee change request is based on an additional 9 days of hydroacoustic monitoring in Year 2 at a daily rate of \$2009/day (Year 2 rate described in Amendment #4). Our Year 3 fee change request is based on an additional 7 days of hydroacoustic monitoring in Year 3 at a daily rate of \$2069/day (Year 3 rate described in Amendment #4).

Task 1.2 Deliverables:

- *Periodic agency reporting, as required.*

Task 1.2 Assumptions:

- *Budget is based on the LOE noted.*

Task 1.2 Additional HA Monitoring Fee Year 2: \$18,081.

Task 1.2 Additional HA Monitoring Fee Year 3: \$14,483.

Task 1.2 TOTAL: \$32,564.

Existing Task 1.3 – Water Quality Monitoring

Our current contract did not anticipate discrete WQ monitoring in Year 3 (i.e., we anticipated WQ monitoring paired with hydroacoustic monitoring). We instead completed 30 days of focused WQ monitoring in 2022. These were incurred during: 1) tremie slab placement in January 2022, 2) cofferdam dewatering in February 2022, 3) construction mobilization in early July 2022, and 4) construction demobilization after October 15, 2022.

Our Year 3 fee change request is based on an additional 30 days of focused WQ monitoring at a daily rate of \$2016/day (Year 3 rate described in Amendment #4).

Task 1.3 Deliverables:

- *Periodic agency reporting, as required.*

Task 1.3 Assumptions:

- *Budget is based on the LOE noted.*

Task 1.3 TOTAL: \$60,480.

Existing Task 1.1A – General Biological/Environmental Monitoring (During the In-water Work Window)

Our current contract, as amended, assumed 144 days of hydroacoustic and water quality monitoring would be completed in Year 2 from June 15, 2021 through December 15, 2021. Instead, we monitored (hydroacoustic and WQ) 153 days of IWW in this time period (9 additional hydroacoustic monitoring days).

Our current contract assumed 72 in-water monitoring days for Year 3 of construction (2022). We instead completed 109 of in-water monitoring in Year 3 (i.e., 37 additional days total; 7 hydroacoustic days and 30 WQ days).

Our Year 2 fee change request is based on an additional 9 days of IWW monitoring in Year 2 at a daily rate of \$1483/day (Year 2 rate described in Amendment #4). Our Year 3 fee change request is based on an additional 37 days of IWW monitoring in Year 3 at a daily rate of \$1528/day (Year 3 rate described in Amendment #4).

Task 1.1A Deliverables:

- *Periodic agency reporting, as required.*

Task 1.1A Assumptions:

- *Budget is based on the LOE noted.*

Task 1.1A Additional General IWW Monitoring Fee Year 2: \$13,347.

Task 1.1A Additional General IWW Monitoring Fee Year 3: \$56,536.

Task 1.1A TOTAL: \$69,883.

Existing Task 1.1B – General Biological/Environmental Monitoring (Outside of the In-water Work Window)

ECORP currently provides weekly boat-based and terrestrial monitoring of the entire Smith Canal Gate Project site on a weekly basis when IWW is not being completed. Because of increases in the LOE for IWW monitoring in Year 2, we completed two (-2) fewer days of weekly monitoring than anticipated. In Year 3, also due to increases in IWW monitoring LOE, we will complete three (3) fewer days of weekly monitoring than anticipated.

Our Year 2 fee adjustment reflects a credit of -2 days at \$1391/day. Our Year 3 fee adjustment reflects a credit of -3 days at 1432/day.

Task 1.1B Deliverables:

- *Periodic agency reporting, as required.*

Task 1.1B Assumptions:

- *Budget is based on the LOE noted.*

Task 1.1B Reduced General Monitoring Fee Outside IWWW Year 2: (\$2,782.)

Task 1.1B Reduced General Monitoring Fee Outside IWWW Year 3: (\$4,296.)

Task 1.1B TOTAL: (\$7,078.)

Existing Task 3.0 – Project Management/Client and Agency Coordination

Amendment #5 assumed ECORP would burn 200 hours per year (16.7 hrs/mo) for each of Year 2 and Year 3. In practice, we spent approximately 440 hours per year (~37 hrs/mo) on PM in Year 2, and are on track to spend the same LOE in Year 3 through December 31, 2022. Along with completion of administrative tasks, ECORP uses this task to coordinate and schedule our extensive field implementation (i.e., daily rate monitoring) and compliance reporting efforts.

This task requests additional budget to cover overruns in Year 2 and in Year 3 to date, and to cover projected shortfalls in the remaining portion of Year 3. This represents an increase of 5 hours/week in PM budget for Year 2 and for Year 3.

Task 3 Deliverables:

- *Monthly invoices to KSN.*

Task 3 Assumptions:

- *No new assumptions stated.*

Task 3.0 Additional PM Fee (Year 2): \$55,505

Task 3.0 Additional PM Fee (Year 3): \$55,172

Task 3.0 TOTAL: \$110,677

Existing Task 4.0 – Permit Application Fees Paid to Date

This task seeks reimbursement of the ITP Amendment #2 application fee paid previously by ECORP to CDFW at SJAFCA's request. ECORP has previously invoiced and received payment from KSN for this loaned fee. This request will essentially restore \$16,833. in budget capacity to ECORP's Contract 2 value. At KSN's request, ECORP created Task 4 under Contract 2 to isolate this transaction.

Task 4.0: \$16,833

FEE SUMMARY

The fee changes for the services described above are **\$542,593**. To be provided on a TIME AND MATERIALS NOT TO EXCEED BASIS, generally over the remaining portion of a 3-year project period of performance, as listed in Table 1, below, and described in this proposal.

	Task Description	Task No.	Year 2 Changes	Year 3 Changes	Total
CONTRACT 1	Multiagency Pre-application Meeting	2.0		\$6,000.	\$6,000.
	USACE Permit Change #2¹	2.0		\$30,000.	\$30,000.
	NMFS DO Change #2²	2.0		\$30,000.	\$30,000.
	USFWS DO Change #1²	2.0		\$30,000.	\$30,000.
	ITP Amendment #2	2.0	\$113,234.	\$30,000.	\$143,234.
	LSAA Amendment #3	2.0		\$20,000.	\$20,000.
	CONTRACT 1 TOTAL		\$113,234.	\$140,000.	\$253,234.
CONTRACT 2	Hydroacoustic Monitoring	1.2	\$18,081.	\$14,483.	\$32,564.
	Water Quality Monitoring	1.3		\$60,480.	\$60,480.
	Monitoring IWW season	1.1A	\$13,347.	\$56,536.	\$69,883.
	Monitoring Non-IWW season	1.1B	(\$2,782.)	(\$4,296.)	(\$7,078.)
	Project Management	3	\$55,505.	\$55,172.	\$110,677.
	ITP Amendment #2 appl fee	4	\$16,833.		\$16,833.
	CONTRACT 2 TOTAL		\$100,984.	\$182,375.	\$283,359.
TOTALS	GRAND TOTAL		\$214,218	\$328,375	\$542,593

¹ Assumes NWP and not IP for 404 permitting. No alternatives analyses, public noticing, or additional NEPA documentation.

² Assume BA is required. Not simply administrative mod.

SCHEDULE

This amendment request largely does not modify the previously considered project period of performance (i.e., through December 31, 2022). Rather, it largely reallocates and extends the LOE for specific tasks based on an extended Year 3 IWWW. However, additional project permitting efforts that may be initiated in calendar year 2022 will undoubtedly extend into calendar year 2023. As such, Contract 2 Task 2 (permitting) efforts are anticipated to extend into calendar year 2023. Construction monitoring and reporting efforts in calendar year 2023 will need to be considered under a separate amendment proposal.

EXPENSE REIMBURSEMENT/OTHER:

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
 2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 14% administrative handling charge (excluding per diem).
 3. Subcontractor expenses are reimbursed with a 12% administrative handling charge.
 4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
 5. Per Diem, depending upon location, may be charged where overnight stays are required.
 6. Expert Witness Testimony, including Depositions, is billed at time and a half.
 7. When non-standard billing is requested, time spent by office administrative personnel in invoice preparation is a cost to the project and charged as technical labor.
-



August 26, 2022

Kleinfelder Proposal No.: LOCALMKT.WEOH/50-5410

Dave Carr
KSN Inc.
711 N. Pershing Avenue
Stockton, CA 95203
dcarr@ksninc.com

**SUBJECT: PROPOSAL FOR GEOTECHNICAL ENGINEERING SERVICES
MAT SLAB FOUNDATION FOR STOP LOG STORAGE
1541 W WEBER AVENUE
STOCKTON, CA 95203**

Dear Mr. Carr:

Kleinfelder is pleased to present this proposal to provide geotechnical engineering services for the proposed Stop Log Storage Slab to be located at 1541 W Weber Avenue in Stockton, California. The proposed project consists of the construction of a new mat slab foundation for stop log storage.

The purpose of our geotechnical study is to explore and evaluate the site subsurface conditions in order to provide recommendations related to the geotechnical aspects of project design and construction. The following sections present background information regarding our understanding of the project construction and anticipated subsurface conditions. In addition, a description of our proposed geotechnical engineering scopes of services, an estimate of our fees, project schedule, and project limitations are presented for your consideration.

Kleinfelder is committed to providing quality service to its clients, commensurate with their wants, needs, and desired level of risk. If a portion of this proposal does not meet your needs, or if those needs have changed, Kleinfelder stands ready to consider appropriate modifications, subject to the standards of care to which we adhere as professionals. Modifications such as changes in scope, methodology, scheduling, and contract terms and conditions may result in changes to the risks assumed by the client, as well as adjustments to our fees.

BACKGROUND INFORMATION

This proposal is based on our recent correspondence, a site visit, and our experience with similar projects in the area.

We understand that the site is known to have contained contaminated soils from a previous facility at the site. Clean up efforts have occurred at the site in the past, but the current environmental status of the site is unknown to us at this time. We will require that information on the contamination and clean-up efforts be provided prior to preparing our health and safety plan and work plan for the field explorations and testing at the site.

Proposed Construction

We understand the proposed project consists of the construction of a new mat slab for storage of stop logs. The design dimensions of the mat slab is unknown but is not anticipated to be larger than approximately 100 feet by 50 feet. Loading is currently unknown but is anticipated to be relatively light. Site grading is anticipated to be minor and consist of maximum cuts/fill of 2 feet. Underground utilities are anticipated to be no deeper than 10 feet below final site grade.

Anticipated Subsurface Conditions

Based on our experience in the area, we anticipate the near-surface soils will consist predominantly of undocumented fill comprised of mixtures of poorly graded silty sand, and gravel. Construction debris consisting of brick and concrete may be encountered in the upper 5 to 10 feet. The fill may be underlain by discontinuous and interbedded layers of native lean to fat clay, silty to clayey sand, poorly graded sand, and sandy lean clay.

Depth to groundwater in the area is heavily dependent on the water elevation in the adjacent waterway. Based on review of well information provided on the California Department of Water Resources website and on borings recently drilled at the site, we anticipate groundwater in the project area to be encountered at depths of about 5 to 15 feet below ground surface.

SCOPE OF SERVICES

The purpose of our geotechnical study will be to explore and evaluate the site subsurface conditions in order to provide geotechnical recommendations regarding project design and construction. The proposed scope of work for the geotechnical field investigation, laboratory testing, and engineering analysis and report preparation portions of the planned study are discussed below.

Work Plan and Health & Safety Plan

Kleinfelder will prepare a Work Plan and site Health and Safety Plan (HSP) for our workers at the site. The Work Plan will outline the specific field activities to be performed on site while the HSP will include information relevant to the project and appropriate health and safety procedures to be followed during execution of the work plan. These planning documents will be submitted to the client for review by the property owner prior to the start of our field work. We've included time in our budget for responding to or addressing review comments. Should our planning documents be submitted to any regulatory agency, such as the Regional Water Quality Control Board, additional fees may apply.

Subsurface Investigation

In advance of field mobilization, we will submit the required drilling permit and fees to the San Joaquin County Environmental Health Department (SJCEHD) and contact Underground Service Alert (USA) to assess the presence of public utility rights-of-way at the site.

Upon receipt of the drilling permit, we propose to explore the subsurface conditions at the site by drilling two borings to depths ranging from 30 to 50 feet within the footprint of the proposed slab.

The borings will be drilled using hollow-stem auger and mud-rotary drilling methods with truck-mounted drilling equipment. Soil samples will be collected in the borings generally at 2- to 5-foot intervals. Soil samples will be collected using a 2-inch outside diameter, split-barrel sampler in general accordance with the standard penetration test (SPT) and a 3-inch outside diameter, split-barrel "California-type" sampler. The SPT and California-type samples will be obtained by driving with a 140-pound hammer free falling a distance of 30 inches, in general accordance with the SPT procedure. The boring will be drilled to the depth described above or to practical refusal, whichever is shallower.

Our representative will mark the proposed exploration locations on site and provide at least 48-hours' notice to Underground Service Alert (USA), as required by law. Prior to initiating subsurface explorations, all site utilities and utility easements must be accurately located in the field, on a scaled map, or both. The Client must make this information available to Kleinfelder at least two days before beginning the field investigation. **Kleinfelder will accept no responsibility for damage caused to existing utilities not accurately located in the manner described above.** As an added measure of caution, Kleinfelder will contract the services of a private utility locator to scan the area of the proposed borings using ground penetrating radar and other utility locating methods to attempt to identify the locations of private utilities.

We anticipate the site will be made accessible with pickup trucks and a truck-mounted drill rig during our explorations. We do not anticipate obtaining any encroachment or special site access permits for this work. If other permits are determined to be necessary, Kleinfelder will first obtain additional authorization as appropriate under a change order issued by the client.

Estimates of the undrained shear strength of cohesive soils will be made using a hand-held pocket penetrometer and/or a torvane shear device, as appropriate. Borings will be logged by a field engineer or geologist who will package samples and transport them to the laboratory for further evaluation and testing.

Upon completion of drilling, the boring will be backfilled with cement grout in accordance with SJCEHD requirements. Excess cuttings will be contained in steel drums and left on site pending laboratory testing for environmental contaminants. The drums will be labeled "Pending Analysis" and will indicate the date and time of containment, contents, boring number(s), and contact name and telephone number of the responsible party. If laboratory testing indicates the soils are non-hazardous, the drums of soil will be left on site for incorporation into the subgrade preparation for the site improvements. If the laboratory testing indicates the soils contain hazardous materials, the drums will be removed and disposed of at an appropriate facility. Laboratory test results should be available within about 2 to 3 weeks of completion of drilling. **The fee presented below assumes the soils will be non-hazardous. If the laboratory test results indicate the presence of hazardous materials, an additional fee for disposal may apply, at which time we will seek an appropriate change order.**

Subsurface samples obtained during the field exploration program will be retained for up to 60 days after the completion of the report. At that time, they will be disposed of. If requested, the samples may be stored for a longer time period or delivered to you (sample storage fees and/or delivery fees may apply).

Laboratory Testing

Laboratory testing will be performed in accordance with current ASTM standards on selected soil samples to evaluate the physical and engineering characteristics of the subsoils. We anticipate these tests may include moisture content, dry unit weight, grain-size distribution (sieve), Atterberg Limits, and shear strength. In addition, a suite of tests will be performed on a composite subsurface soil sample to evaluate the corrosivity of the soils to buried metals and concrete. The final selection of testing type and frequency will be determined on the basis of the subsurface conditions encountered during the field exploration.

Engineering Analyses and Reporting

Engineering analyses will be performed under the direction of a Registered Geotechnical Engineer to develop geotechnical recommendations for project design and construction. The results of our field explorations, laboratory testing, and engineering analyses will be presented in a report that includes the following:

- A description of the proposed project;
- A description of the surface and subsurface site conditions encountered during our field explorations;
- Descriptions of our field and laboratory investigations;
- A general discussion regarding the geologic setting of the project area;
- A brief discussion of the corrosion potential based on laboratory corrosivity tests performed (NOTE: It is important to note that our scope does not include corrosion engineering and that detailed analysis of corrosion test results is not included in this proposal. Kleinfelder can provide these services for an additional fee.);
- Conclusions and recommendations related to the geotechnical aspects of:
 - General earthwork, including site stripping, subgrade preparation, temporary excavations, trench backfill, import fill, compaction criteria, and general alternatives to remediate wet/soft soil conditions if encountered during construction;
 - 2019 CBC map-based seismic site coefficients (ASCE 7-16 requires a site-specific ground motion hazard analysis be performed for Site Class D sites with S_1 values greater than or equal to 0.2g unless structural design exceptions are taken. Based on our experience, the subject site will likely meet these criteria. A site-specific ground motion hazard analysis is not included as part of this proposal. If desired, a separate proposal can be prepared to provide a site-specific ground motion hazard analysis.);
 - Liquefaction and lateral spread potential;
 - Total and differential settlements;
 - Mat foundation design and construction, including allowable bearing capacity, lateral resistance, settlement, and foundation depth (recommendations for deep foundations will not be provided);
- A plan or map showing the approximate boring locations and relationship of the site to existing streets; and
- An appendix that will include logs of borings and a summary of laboratory tests.

One electronic pdf copy will be provided via email and up to three hard copies provided upon request. We do not intend to issue a draft report unless you request one.

No meetings other than the site visit to mark boring locations are planned, but Kleinfelder can attend meetings on an additional time-and-expense basis if requested.

Other Conditions

If weather, access, or site conditions restrict field operations, Kleinfelder may need to modify the fee estimate and schedule. Time spent for difficult site access will be charged on a time-and-expense basis in accordance with the fee schedule in force at the time the services are provided. However, you will be contacted for authorization prior to incurring additional charges.

Acceptance of this proposal will indicate that Client has reviewed the scope of services and determined that it does not need or want more services than are being proposed at this time. Any exceptions should be noted and may result in a change in fees and schedule.

Assumptions

- Site access and right-of-entry to be provided by Client.
- All exploration locations will be made accessible to pickup trucks and a truck-mounted drill rig prior to the arrival of the field crew on site. Our estimate does not cover the use of all-terrain equipment.
- The field crew will leave the site as neatly as reasonably possible, though some ground disturbance should be expected.
- No more than one mobilization/demobilization of the drilling field crew. It is assumed drilling of borings will be completed in no more than one 8-hour day on site. Field exploration delays caused by reasons beyond Kleinfelder's control that result in more than workdays previously mentioned will lead to an increase in field exploration costs, which will be billed on a time-and-materials basis.
- All utilities will be marked at the exploration locations prior to the arrival of the field exploration crews. All boring locations will be identified and/or staked by Kleinfelder with concurrence from Client. Explorations will be located by measuring from existing landmarks and will not be surveyed.
- No drilling through concrete. If man-made obstructions are encountered at exploration locations that do not permit advancement of the explorations, the additional time required to relocate borings for new attempts will be billed on an additional time-and-materials basis.
- Personal protective equipment used by Kleinfelder's field exploration crew will include hard hats, safety glasses, heavy boots, and gloves as needed. If, in the opinion of the field crew, hazardous or contaminated soils are identified during drilling visually or by odor, work will be stopped immediately, and you will be contacted for further guidance.

Schedule

We anticipate one day (8-hours) to complete the borings. Scheduling and completing the fieldwork can usually occur within about three weeks following notice to proceed (NTP). The estimate may be impacted by adverse weather and drilling subcontractor availability. The final report should follow about three to four weeks after completion of the field exploration work. We will invoice on a monthly percent complete basis.

Additional Services

Environmental evaluations and analyses are outside the scope of this investigation. A separate or concurrent environmental assessment may be appropriate for the project prior to development. Kleinfelder would be pleased to outline a scope of services for such an assessment, if required.

As part of the Geotechnical Engineer-of-Record services, Kleinfelder should also be retained following the future design phase to provide geotechnical consultation, plan review(s), earthwork or foundation observations, and testing services during construction. We can provide a proposal and fee estimate for the plan and specifications review after final project plans are available for construction observation and testing services after a contractor has been selected and the actual work schedule is available.

Fees

We propose our services be compensated on a lump sum basis developed per our current Fee Schedule. For the scope of work outlined above, our fees for geotechnical engineering services will be \$26,900 as outlined in the following:

Project Task	Task Fee
Work Plan/Health and Safety Plan and Approval	\$ 3,000
Site Visit and Utility Locating	\$ 2,700
Permitting	\$ 2,000
Drilling Subcontractor	\$ 5,400
Laboratory Testing of soil cuttings	\$ 1,500
Field Engineer and Supplies/Equipment	\$ 2,500
Geotechnical Laboratory and Field Testing	\$ 2,300
Analysis and Report Preparation	\$ 7,500
Total Project Fee	\$ 26,900

The fee presented above is based on prompt payment for services presented in Kleinfelder's standard invoicing format. Late fees will be charged if payment is not received in accordance with terms contained in the General Conditions.

Rates are applicable for non-prevailing wage services for field professionals. If in the preparation of a task order proposal it is determined that prevailing wage covered work is required due to the passage of AB 1768, Kleinfelder will develop prevailing wage rates based on the appropriate DIR determination.

AUTHORIZATION

If you desire us to proceed with this project, please written notice to proceed under our existing subcontract for the Smith Canal Gate Structure Project. If there is a need for any change in the scope of services described in this proposal, please contact us immediately. Changes may require revision of the proposed fee, which will be communicated to you upon assessment of the requested changes.

All terms and conditions indicated in this proposal will be considered by parties to be in effect from the effective date of the executed contract through completion of the project.

COVID-19

Orders or restrictions issued by civil authorities and other conditions relating to the COVID-19 pandemic may interfere with Kleinfelder's ability to perform or otherwise impact our ability to work. Kleinfelder will communicate any anticipated delays or impacts and work closely with the client to identify a mutually acceptable solution to advance Kleinfelder's completion of its services

LIMITATIONS

Regulations and professional standards applicable to Kleinfelder's engineering services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide Client with professional advice, opinions, and recommendations based on a limited number of field observations and tests, collected and performed in accordance with the generally accepted engineering practice that exists locally at the time our services are rendered and may depend on, and be qualified by, information gathered previously by others and provided to Kleinfelder by Client.

Penetrating the site's surface is inherently risky. It is impossible to determine with certainty the precise location of all structures that may be buried in the ground. As discussed above, Kleinfelder will take steps to reduce the risk of damaging the site utilities and underground structures, but our fee is not adequate to compensate for both the performance of the services and the assumption of risk of damage to such structures. Disruption or damage to unidentified utilities and underground structures will not be the responsibility of Kleinfelder.

Please let us know immediately if you have any questions regarding the scope of work in this proposal so that we may promptly respond.

CLOSING

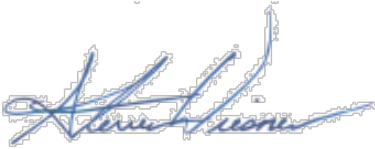
We appreciate the opportunity to present this proposal for your consideration. If you have questions regarding this proposal or require additional information, please contact the undersigned.

Respectfully submitted,

KLEINFELDER, INC.



James A. Wetenkamp, PG, CEG
Senior Engineering Geologist



Steven Wiesner, PE, GE
Principal Geotechnical Engineer



October 31, 2022
Kleinfelder Proposal No.: LOCALMKT.WEOH/50-5410

Mr. Dave Carr
KSN, Inc.
711 N. Pershing Avenue
Stockton, CA 95203
dcarr@ksninc.com

**SUBJECT: PROPOSAL FOR GEOTECHNICAL ENGINEERING SERVICES
DAD'S POINT LEVEE SUPPLEMENTAL EXPLORATIONS
WEST END OF MONTE DIABLO AVENUE
STOCKTON, CALIFORNIA**

Dear Mr. Carr,

Kleinfelder is pleased to present this proposal to provide supplemental geotechnical engineering services for the levee improvements along Dad's Point in Stockton, California. The purpose of our geotechnical study is to explore and evaluate the site subsurface conditions in order to provide supplemental data for project design and construction. The following sections present background information regarding our understanding of the project construction and anticipated subsurface conditions. In addition, a description of our proposed geotechnical engineering scopes of services, an estimate of our fees, project schedule, and project limitations are presented for your consideration.

Kleinfelder is committed to providing quality service to its clients, commensurate with their wants, needs, and desired level of risk. If a portion of this proposal does not meet your needs, or if those needs have changed, Kleinfelder stands ready to consider appropriate modifications, subject to the standards of care to which we adhere as professionals. Modifications such as changes in scope, methodology, scheduling, and contract terms and conditions may result in changes to the risks assumed by the client, as well as adjustments to our fees.

BACKGROUND INFORMATION

This proposal is based on our recent correspondence, review of a memo provided by the US Army Corps of Engineers (USACE) dated September 21, 2022, subsequent discussions with the USACE, and our experience at the site.

We understand the proposed project consists of the improvement of Dad's Point peninsula to act as a levee. Cone Penetration Tests (CPTs) and drilled borings were previously performed along Dad's Point. The data collected was used for analysis and design of improvements in accordance with the California Department of Water Resources (DWR) Urban Levee Design Criteria (ULDC) and Urban Level of Flood Protection (ULOP) Criteria. We understand the project now wishes to receive Federal approval of levee improvements by the USACE. This proposal is based on the recommendations presented by USACE in a memorandum titled, "Smith Canal Gate Structure

Engineering Design In-Kind Credit,” dated September 21, 2022, and on subsequent discussions with USACE to refine the subsurface exploration scope. The intent of this proposal is to perform the additional drilled borings along the crown of the Dads Point levee and at the landside field, and to perform laboratory testing to further study and inform the subsurface conditions along the levee. No additional engineering will be performed as part of this proposal, only explorations, laboratory testing, and transmittal of geotechnical data obtained.

Based on our experience at the site, we anticipate the sub-surface soils will consist predominantly of stiff, lean to fat clay, and silt in the upper 25 to 30 feet, underlain by discontinuous and intermittent layers of silty sand, sandy silt and sandy lean clay.

The depth to groundwater is heavily influenced by the elevation of the water in the adjacent San Joaquin River and Smith Canal. Based on our experience at the site, groundwater along Dad’s Point is typically encountered at depths of about 10 to 15 feet below ground surface.

SCOPE OF SERVICES

The purpose of our geotechnical services will be to explore the site subsurface conditions in order to provide supplemental data for project design and construction. The proposed scope of work for the geotechnical field investigation, laboratory testing, and data report preparation portions of the planned study are discussed below.

Subsurface Investigation

In advance of field mobilization, we will submit the required drilling permit and fees to the San Joaquin County Environmental Health Department (SJCEHD) and contact Underground Service Alert (USA) to assess the presence of public utility rights-of-way at the site.

Upon receipt of the drilling permit, we propose to explore the subsurface conditions at the site by drilling ten soil borings to depths ranging from 55 to 85 feet within areas identified as data gaps between existing subsurface explorations along Dad’s Point. In addition, four borings will be drilled to depths of about 55 feet on Atherton Island and in the Luis Park parking lot to fulfil the requirement for landside field explorations. The borings will be drilled using hollow-stem auger drilling methods with truck-mounted drilling equipment until groundwater is encountered. After groundwater is encountered, the augers will be removed, casing will be installed, and drilling will continue using mud rotary drilling methods. Based on the recommendations provided by USACE, soil samples in the 55-foot-deep borings will be collected at 5-foot intervals in the upper 35 feet and at 2.5-foot intervals below a depth of 35 feet. Soil samples in the 85-foot-deep borings will be collected at 2.5-foot intervals in the upper 50 feet, and at 5-foot intervals below a depth of 50 feet. Soil samples will be collected using a 2-inch outside diameter, split-barrel sampler in general accordance with the standard penetration test (SPT) and a 3-inch outside diameter, split-barrel “California-type” sampler. The SPT and California-type samples will be obtained by driving with a 140-pound hammer free falling a distance of 30 inches, in general accordance with the SPT procedure. Soft clay soils will be sampled using a thin-wall Shelby tube (or similar) sampler using undisturbed sampling techniques. The borings will be drilled to the depths described above or to practical refusal, whichever is shallower.

Our representative will mark the proposed exploration locations on site and provide at least 48-hours’ notice to Underground Service Alert (USA), as required by law. Prior to initiating subsurface explorations, all site utilities and utility easements must be accurately located in the field, on a scaled map, or both. The Client must make this information available to Kleinfelder at least two

days before beginning the field investigation. As an added precaution, Kleinfelder will employ a private utility locator to scan the area using ground penetrating radar, metal detector, and other methods to locate private utility lines not identified by USA. **Kleinfelder will accept no responsibility for damage caused to existing utilities not accurately located in the manner described above.**

We anticipate the site will be made accessible with pickup trucks and a truck-mounted drill rig during our explorations. In addition to the drilling permits, we will obtain an encroachment permit from the City of Stockton for borings to be drilled within the City of Stockton right of way. If other permits are determined to be necessary, Kleinfelder will first obtain additional authorization as appropriate under a change order issued by the client.

Estimates of the undrained shear strength of cohesive soils will be made using a hand-held pocket penetrometer and/or a torvane shear device, as appropriate. Borings will be logged by a field engineer or geologist who will package samples and transport them to the laboratory for further evaluation and testing.

Upon completion of drilling, the boring will be backfilled with cement grout in accordance with SJCEHD requirements. Borings performed within pavement areas will be capped with asphalt cold patch. Should hot patching of pavements become a requirement, additional fees will be applied. Excess cuttings will be contained in drums and stored at an onsite staging area until completion of laboratory tests for potential soil and groundwater contaminants. Once the test results are available, the drums will be removed and disposed of at an approved facility.

Subsurface samples obtained during the field exploration program will be retained for up to 60 days after the completion of the report. At that time, they will be disposed of. If requested, the samples may be stored for a longer time period or delivered to you (sample storage fees and/or delivery fees may apply).

Laboratory Testing

Laboratory testing will be performed in accordance with current ASTM standards on selected soil samples to evaluate the physical and engineering characteristics of the subsoils. We anticipate these tests may include moisture content, dry unit weight, grain-size distribution (sieve), Atterberg Limits, and shear strength. The final selection of testing type and frequency will be determined on the basis of the subsurface conditions encountered during the field exploration.

Reporting

A geotechnical data report (GDR) will be prepared under the direction of a Registered Geotechnical Engineer. The results of our field explorations and laboratory testing will be presented in a report that includes the following:

- A description of the proposed project;
- A description of the surface and subsurface site conditions encountered during our field explorations;
- Descriptions of our field and laboratory investigations;

- A plan or map showing the approximate boring locations and relationship of the site to existing streets; and
- An appendix that will include logs of borings and a summary of laboratory tests.

One electronic pdf copy will be provided via email and up to three hard copies provided upon request. We do not intend to issue a draft report unless you request one.

No meetings other than the site visit to mark boring locations are planned, but Kleinfelder can attend meetings on an additional time-and-expense basis if requested.

Other Conditions

If weather, access, or site conditions restrict field operations, Kleinfelder may need to modify the fee estimate and schedule. Time spent for difficult site access will be charged on a time-and-expense basis in accordance with the fee schedule in force at the time the services are provided. However, you will be contacted for authorization prior to incurring additional charges.

Acceptance of this proposal will indicate that Client has reviewed the scope of services and determined that it does not need or want more services than are being proposed at this time. Any exceptions should be noted and may result in a change in fees and schedule.

Assumptions

- Site access and right-of-entry to be provided by Client.
- All exploration locations will be made accessible to pickup trucks and a truck-mounted drill rig prior to the arrival of the field crew on site. Our estimate does not cover the use of all-terrain equipment.
- The field crew will leave the site as neatly as reasonably possible, though some ground disturbance should be expected. If grounds are irrigated prior to field mobilization our equipment may leave ruts. To minimize ground disturbance irrigation of the area to be accessed by our field crew should be stopped about 1 week prior to mobilization.
- No more than four mobilizations/demobilizations of the drilling field crew. It is assumed drilling of borings will be completed in no more than seventeen 8-hour days on site. Field exploration delays caused by reasons beyond Kleinfelder's control that result in more than workdays previously mentioned will lead to an increase in field exploration costs, which will be billed on a time-and-materials basis.
- All utilities will be marked at the exploration locations prior to the arrival of the field exploration crews. All boring locations will be identified and/or staked by Kleinfelder with concurrence from Client. Explorations will be located by measuring from existing landmarks and will not be surveyed.
- No drilling through concrete. If man-made obstructions are encountered at exploration locations that do not permit advancement of the explorations, the additional time required to relocate borings for new attempts will be billed on an additional time-and-materials basis.

- Personal protective equipment used by Kleinfelder's field exploration crew will include hard hats, safety glasses, heavy boots, and gloves as needed. If, in the opinion of the field crew, hazardous or contaminated soils are identified during drilling visually or by odor, work will be stopped immediately, and you will be contacted for further guidance.

Schedule

We anticipate seventeen days (8-hours) to complete the borings. Scheduling and completing the fieldwork can usually occur within about four to six weeks following notice to proceed (NTP). The estimate may be impacted by adverse weather and drilling subcontractor availability. The final report should follow about eight to ten weeks after completion of the field exploration work. We will invoice on a monthly time and materials basis.

Fees

We propose our services be compensated on a time and materials basis developed per our current Fee Schedule. For the scope of work outlined above, our fees for geotechnical engineering services will be \$470,250.00 as outlined in the following:

Project Task	Task Fee
Permitting, USA and HASP	\$ 5,450.00
Work Plan	\$ 6,230.00
Drilling and Utility Locating Subcontractors	\$ 251,900.00
Field Engineer and Supplies/Equipment	\$ 41,800.00
Laboratory and Field Testing	\$ 120,155.00
Report Preparation	\$ 38,935.00
Project Management	\$ 5,780.00
Total Project Fee	\$ 470,250.00

The fee presented above is based on prompt payment for services presented in Kleinfelder's standard invoicing format.

Rates are applicable for non-prevailing wage services. If in the preparation of a task order proposal it is determined that prevailing wage covered work is required due to the passage of AB 1768, Kleinfelder will develop prevailing wage rates based on the appropriate DIR determination.

AUTHORIZATION

If you desire us to proceed with this project, please provide written notice to proceed under our existing subcontract for the Smith Canal Gate Structure Project. If there is a need for any change in the scope of services described in this proposal, please contact us immediately. Changes may require revision of the proposed fee, which will be communicated to you upon assessment of the requested changes.

All terms and conditions indicated in this proposal will be considered by parties to be in effect from the effective date of the executed contract through completion of the project.

COVID-19

Orders or restrictions issued by civil authorities and other conditions relating to the COVID-19 pandemic may interfere with Kleinfelder's ability to perform or otherwise impact our ability to work. Kleinfelder will communicate any anticipated delays or impacts and work closely with the client to identify a mutually acceptable solution to advance Kleinfelder's completion of its services.

LIMITATIONS

Regulations and professional standards applicable to Kleinfelder's engineering services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide Client with professional advice, opinions, and recommendations based on a limited number of field observations and tests, collected and performed in accordance with the generally accepted engineering practice that exists locally at the time our services are rendered and may depend on, and be qualified by, information gathered previously by others and provided to Kleinfelder by Client.

Penetrating the site's surface is inherently risky. It is impossible to determine with certainty the precise location of all structures that may be buried in the ground. As discussed above, Kleinfelder will take steps to reduce the risk of damaging the site utilities and underground structures, but our fee is not adequate to compensate for both the performance of the services and the assumption of risk of damage to such structures. Disruption or damage to unidentified utilities and underground structures will not be the responsibility of Kleinfelder.

Please let us know immediately if you have any questions regarding the scope of work in this proposal so that we may promptly respond.

CLOSING

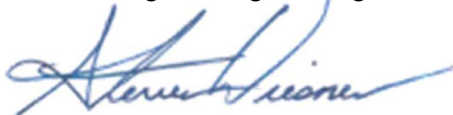
We appreciate the opportunity to present this proposal for your consideration. If you have questions regarding this proposal or require additional information, please contact the undersigned.

Respectfully submitted,

KLEINFELDER, INC.



James A. Wetenkamp, PG, CEG
Senior Engineering Geologist



Steven Wiesner, PE, GE
Senior Principal Geotechnical Engineer

San Joaquin Area Flood Control Agency
Smith Canal Gate Construction Management Services
AMENDMENT NO. 3-1
TASK HOURS BREAKDOWN

	KJELDSEN, SINNOCK & NEUDECK INC. STAFF HOURS																Staff Budget	EQUIPMENT					Equipment Budget	OTHER DIRECT COSTS			Other Direct Costs Budget	TOTAL BUDGET (Rounded)	
	Principal Engineer	Associate Engineer	Engineer I	Junior Engineer	Senior Surveyor	Surveyor	Assistant Surveyor	2 Man Field Crew	Inspector (Office)	Inspector pW (Field)	Sr. Project Manager	Tech/GIS/ CAD I	Project Accountant	Admin III	Admin II	Admin I		3D Print Cloud	GPS Equip (1-rec)	Robotic Total Station	HDS Scanner	Boat		Direct Expenses	Mileage	Sub-consultants			
	Rates	\$267	\$240	\$181	\$153	\$218	\$185	\$158	\$325	\$169	\$199	\$239	\$98	\$144	\$109	\$93		\$76	\$27	\$27	\$38	\$164		\$60	110%	0.575			110%
PROJECT TASKS																													
3.0 Inspections	0	0	0	0	0	0	0	0	0	168	0	0	0	0	0	0	\$ 33,432	0	0	0	0	144	\$ 8,640	\$ -	\$ -	\$ -	\$ -	\$ 42,072	
3.1 General Inspection (During IWWW) - Year 3 (+36 days)										288							\$57,312					144	\$8,640	\$0	\$0	\$0	\$0	\$65,952	
3.1 General Inspection (Outside IWWW) - Year 3 (-30 days)										-120							(\$23,880)						\$0	\$0	\$0	\$0	\$0	(\$23,880)	
4.0 Environmental / Biological Monitoring - Year 2 (2021)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 92,566	\$ 92,566	\$ 92,567	
4.3a General Biological / Environmental Monitoring (During IWWW) - Year 2 (+9 days)																	\$0						\$0	\$0	\$0	\$14,682	\$14,682	\$14,682	
4.3b General Biological / Environmental Monitoring (Outside IWWW) - Year 2 (-2 days)																	\$0						\$0	\$0	\$0	(\$3,060)	(\$3,060)	(\$3,060)	
4.4 Hydroacoustic Monitoring - Year 2 (+9 days)																	\$0						\$0	\$0	\$0	\$19,889	\$19,889	\$19,889	
4.5 Water Quality Monitoring - Year 2 (+0 days)																	\$0						\$0	\$0	\$0	\$0	\$0	\$0	
4.7 Project Management / Coordination - Year 2																	\$0						\$0	\$0	\$0	\$61,056	\$61,056	\$61,056	
4.0 Environmental / Biological Monitoring - Year 3 (2022)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 219,129	\$ 219,129	\$ 219,128	
4.3a General Biological / Environmental Monitoring (During IWWW) - Year 3 (+37 days)																	\$0						\$0	\$0	\$0	\$62,190	\$62,190	\$62,190	
4.3b General Biological / Environmental Monitoring (Outside IWWW) - Year 3 (-3 days)																	\$0						\$0	\$0	\$0	(\$4,726)	(\$4,726)	(\$4,726)	
4.4 Hydroacoustic Monitoring - Year 3 (+7 days)																	\$0						\$0	\$0	\$0	\$15,931	\$15,931	\$15,931	
4.5 Water Quality Monitoring - Year 3 (+30 days)																	\$0						\$0	\$0	\$0	\$66,528	\$66,528	\$66,528	
4.7 Project Management / Coordination - Year 3																	\$0						\$0	\$0	\$0	\$60,689	\$60,689	\$60,689	
4.8 Permit Application Fees Paid to Date																	\$0						\$0	\$0	\$0	\$18,516	\$18,516	\$18,516	
PROJECT TOTALS	0	0	0	0	0	0	0	0	0	168	0	0	0	0	0	0	\$ 33,432	0	0	0	0	144	\$ 8,640	\$ -	\$ -	\$ 311,695	\$ 311,695	\$ 353,767	
ADDITIONAL TASKS																													
8.0 Out-of-Scope Services to Date	56.25	31	33.25	2.75	1	72.5	8	4	16	13.5	174.75	3	0	4.5	6	0	\$ 93,591	0	0	7	0	0	\$ 266	\$ 10,086	\$ -	\$ 371,164	\$ 381,249	\$ 475,106	
8.2 General Out-of-Scope Services	36.5	16.5	19.75	2.75	1	72.5	8		8.25		34.25	3		4.5	6		\$43,518						\$0	\$5,855	\$0	\$32,093	\$37,948	\$81,466	
8.3 Potential Claims and delays	17	8									22.75						\$11,896						\$0	\$0	\$0	\$11,322	\$11,322	\$23,218	
8.4 Miter Gate Repairs			1.5					4	4.75	9.5	27.75						\$10,897			7			\$266	\$0	\$0	\$5,290	\$5,290	\$16,453	
8.5 Gate Foundation Slab Repairs									0.5	4	11.25						\$3,569						\$0	\$0	\$0	\$11,000	\$11,000	\$14,569	
8.6 CPTs at Dad's Point			7.5														\$1,358						\$0	\$0	\$0	\$15,281	\$15,281	\$16,639	
8.7 In-Water CPTs (plus tip of Dad's Point)	2.25	6.5	4.5								52.5						\$15,523						\$0	\$4,231	\$0	\$266,588	\$270,818	\$286,341	
8.8 Stop Log Storage	0.5								2.5		26.25						\$6,830						\$0	\$0	\$0	\$29,590	\$29,590	\$36,420	
8.0 Other Out-of-Scope Services	4	16	8	0	0	0	0	0	8	0	32	0	0	0	0	0	\$ 15,356	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 570,075	\$ 570,075	\$ 585,431	
8.9 USACE Borings and Lab Testing at Dad's Point			8								16						\$5,272						\$0	\$0	\$0	\$517,275	\$517,275	\$522,547	
8.10 Levee Monitoring (Bathymetric Surveys)	4	16							8		16						\$10,084						\$0	\$0	\$0	\$52,800	\$52,800	\$62,884	
ADDITIONAL TASKS TOTALS	60.25	47	41.25	2.75	1	72.5	8	4	24	13.5	206.75	3	0	4.5	6	0	\$ 108,947	0	0	7	0	0	\$ 266	\$ 10,086	\$ -	\$ 941,239	\$ 951,324	\$ 1,060,537	
GRAND TOTALS	60.25	47	41.25	2.75	1	72.5	8	4	24	181.5	206.75	3	0	4.5	6	0	\$ 142,379	0	0	7	0	144	\$ 8,906	\$ 10,086	\$ -	\$ 1,252,933	\$ 1,263,019	\$ 1,414,304	

December 16, 2022

Juan Neira, PE
San Joaquin Area Flood Control Agency
22 E. Weber Avenue, Room 301
Stockton, CA 95202

Re: Smith Canal Gate Project - Construction Management Services
Request for Amendment No. 3-2
Construction Management Services for Year 4 (2023)

Dear Juan,

The Kjeldsen, Sinnock & Neudeck, Inc. (KSN) construction management team entered into a contract with the San Joaquin Area Flood Control Agency (SJAFCA) on April 30, 2020, for construction management (CM) services for the Smith Canal Gate Project. Amendment No. 1 was executed on June 17, 2021, which amended the scope of work and budget and essentially extended the assumed construction period into Year 3 through the end of 2022. Amendment No. 2 was executed on February 10, 2022, which extended the term of the CM contract to April 30, 2023.

Recognizing that construction of the project has not been completed this year as planned, the KSN CM team hereby submits this amendment request to provide CM services for an additional 12-month period lasting through the end of 2023.

1.0 Project Management / Administration

This current amendment request includes an additional 12 months of project management activities including, but not limited to, coordination between SJAFCA, KSN, and its sub-consultants; preparing invoicing; general management oversight; and acting as construction project coordinator and the point of contact for all communications with the contractor, affected public agencies, and design engineer.

2.0 Construction Management

This current amendment request includes an additional 12 months of construction management activities including, but not limited to, weekly construction coordination meetings; routing and processing submittals and RFIs; administration of the construction contract including document control, contractor payment requests, change orders and potential change orders, etc.; construction schedule management; and construction project reporting.

3.0 Inspections

This current amendment request includes an additional 12 months of inspection activities including, but not limited to, general field inspections and monitoring activities; special inspections and materials testing; inspections specific to the miter gate installation; inspections specific to the sheet pile floodwall inspection; and survey support.

4.0 Environmental / Biological Monitoring

This current amendment request includes an additional 12 months of environmental and biological monitoring activities including, but not limited to, general biological monitoring; hydroacoustic monitoring; and water quality monitoring. It is anticipated that the Year 4 In-Water Work Window (IWWW) will occur from July 1, 2023, to November 30, 2023, with a 2-week mobilization period from June 15-30, 2023, and a 2-week demobilization period from December 1-15, 2023.



Summary

A summary of the current amendment request items as described above is shown below in Table 1. A more detailed fee estimate is enclosed as Exhibit 4.

Table 1 - Summary of Amendment Request No. 3-2

Description	Fee Estimate
1.0 Project Management / Administration	\$351,697
2.0 Construction Management	\$612,900
3.0 Inspections	\$715,708
4.0 Environmental / Biological Monitoring	\$697,650
Total:	\$2,377,955

Please review the enclosed documentation, and don't hesitate to contact me with any questions or comments. Thank you for your consideration.

Sincerely,
KJELDSSEN, SINNOCK & NEUDECK, INC.

Erik Almaas, PE, CM Resident Engineer

Christopher H. Neudeck, PE, CM Principal in Charge

w/enclosures

- Exhibit 1 - Sub-Consultant Proposal from ECORP Consulting
- Exhibit 2 - Fee Estimate for Amendment Request No. 3-2



October 28, 2022
(P19-184.01G/2019-175)

Erik Almaas
KSN, Inc.
1550 Harbor Blvd., Suite 212
West Sacramento, CA 95691

Subject: *Amendment Seven to Provide Environmental Support Services for the Smith Canal Gate Project in Construction Year 4, San Joaquin County, California*

Dear Mr. Almaas:

Attached please find our work proposal to provide additional permit compliance services for the Smith Canal Gate Project. This amendment request includes construction implementation support services to be implemented from January 1, 2023 through December 31, 2023 (construction Year 4).

Thank you for the opportunity to submit our work proposal. If you have questions or would like to discuss our proposal further, please contact me at (916) 782-9100 or jtupen@ecorpconsulting.com.

Sincerely,

Jeff Tupen, Project Manager

Attachment(s)

Amendment Seven

Scope of Work and Cost Estimate for
 Environmental Compliance Services in Construction Year 4
 for the
Smith Canal Gate Project
 (San Joaquin County, California)
 for
 Kjeldsen, Sinnock & Neudeck, Inc.

This amendment (Amendment Seven) requests authorization and additional budget for:

1. An increased LOE to implement monitoring and reporting tasks in Construction Year 4 from January 1, 2023 through December 31, 2023.

Our current contract with KSN, as amended and as proposed for amendment, does not include ECORP services beyond December 31, 2022. Our Amendment Seven request would extend our contracted period of performance through December 31, 2023.

CONTRACTING BACKGROUND

ECORP has provided environmental services on SJAFCA's Smith Canal Gate Project under contract to KSN, Inc. since 2019. KSN has to date executed six contracts with ECORP for work on the Smith Canal Gate Project (Gate Project). A seventh contract (amendment) is currently in KSN review but has not yet been approved. These seven contracts and amendments are:

- | | |
|-------------------|--|
| Initial Contract: | Authorized review of existing regulatory permits and development of a permit compliance matrix. |
| Amendment #1: | Authorized professional services in support of Test Pile Project implementation in October 2019. |
| Amendment #2: | Authorized professional services in support of Gate Project planning and permitting. |
| Amendment #3: | Authorized additional professional services, and extended contracted professional services from two to three years, in support of Gate Project planning and permitting. |
| Amendment #4: | Authorized construction monitoring services and related tasks for up to three years of construction. |
| Amendment #5: | Authorized an increased LOE for agency reporting and permit amendments (Contract 1 tasks) over three years, and authorized an increased LOE for daily monitoring tasks and PM associated with a longer Year 2 in-water work window (Contract 2 tasks). |
| Amendment #6: | In review. Requests additional budget to 1) accommodate increased levels of effort (LOE) for amendment the Project's CESA ITP permit with CDFW; 2) |

Smith Canal Gate #8, KSN #7 scope (2019-175/008)

permit placement of RSP around the gate foundation; 3) accommodate monitoring and reporting during an extended Year 3 in-water work window; 4) accommodate increased LOE in Project Management; and 5) reimburse ECORP for ITP amendment application fees paid by ECORP to CDFW on behalf of SJAFCA.

This amendment request, when approved, would represent Amendment #7 to ECORP's initial contract. ECORP's existing contract with KSN, as amended, is separated into two subcontracts: Contract 1 and Contract 2. Contract 1 includes permitting, reporting, and focused biological surveys. Contract 2 includes Project Management and all daily rate monitoring tasks that are implemented during Project construction.

RATIONALE FOR THIS AMENDMENT REQUEST

This request proposes to continue to deliver ECORP professional services in calendar year 2023, which is construction Year 4. Similar to our Amendment #5 and #6 requests, we have separated this current amendment request (#7) by KSN Contract 1 and KSN Contract 2.

CONTRACT 1 REQUESTED CHANGES

Requested Contract 1 changes include: 1) Year 4 reporting to various agencies consistent with permit conditions, including Year 4 impact accounting to the USFWS, and 2) MBC subcontracting efforts for Swainson's hawk and giant garter snake compliance.

Note: New permitting associated with placement of gate RSP (proposed under a separate amendment request) may result in the SJAFCA's obligation to implement new permit conditions not currently covered by our contracts (and/or pending amendments) with KSN. These may need to be considered under future Contract 1 amendment requests if and as needed. We have assumed for this amendment request that future (amended) permit conditions are substantially similar to current permit conditions.

Details of proposed Contract 1 changes are provided in the following section.

Existing Task 1.2 – Nesting Bird Compliance in Year 4

This task adds budget to existing Task 1.2 to complete nesting bird surveys, impact mitigations, and reporting during calendar year 2023. ECORP will team once again with Moore Biological Consultants (MBC) to provide these services in what is anticipated to be the final year of Project construction in Year 4.

We are requesting a budget for MBC services of \$4,000./month during the generally accepted nesting bird season from February through September, 2023. MBC will complete pre-construction surveys in and near Project terrestrial work areas (laydown yards, Dad's Point, golf course) to identify active bird nests and to recommend the need for and size of no-work buffers. MBC will assist the contractor in establishing no-work buffers, as needed. MBC will monitor active bird nests to determine if installed buffers are effective at prohibiting injury or mortality of nesting birds. MBC will complete and submit to ECORP and KSN monthly monitoring reports summarizing the previous month's activities.

Note: Permitting efforts with CDFW currently underway (to be authorized under separate amendment requests) may shape the nature of nesting bird compliance work to be completed by SJAFCA and its consultants (including ECORP and MBC). We have assumed in the absence of revised permits that the conditions required by CDFW in revised permits are substantially similar to those currently being implemented by SJAFCA. Revised permit conditions included in future permit revisions that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Task 1.2 Deliverables:

- *Monthly reports during the nesting bird season to be submitted by MBC to ECORP and KSN.*

Task 1.2 Assumptions:

- *As stated above.*

Year 4 Task 1.2 Fee: \$32,000.

Existing Task 1.3 – Giant Garter Snake Compliance in Year 4

This task adds budget to existing Task 1.3 to continue installation and maintenance of giant garter snake (GGS) impact avoidance measures, and to report results of these efforts in calendar year 2023. MBC will subcontract to ECORP to continue to provide these services in what is anticipated to be the final year of Project construction in Year 4.

We are requesting a budget for MBC services of \$4,000./month during the GGS inactive season from January through April, 2023 (4 months). Work GGS exclusion zones were identified and installed in 2022 on Dad's Point near suitable GGS habitat. Previously installed exclusion facilities will be maintained by MBC in 2023. This task bid includes budget to reimburse MBC and Eric Hanson for their previous purchases of one-way GGS "doors" from the established exclusion zones. We anticipate that GGS exclusion zones may be established at the golf course bank in 2023 where suitable habitat exists. MBC will assist with installation of these facilities as needed, and will maintain them throughout their installation life, expected to be through late 2023. MBC will complete and submit to ECORP and KSN periodic monitoring reports summarizing GGS protective measures and processes.

Note: Permitting efforts with CDFW currently underway (to be authorized under separate amendment requests) may shape the nature of GGS compliance work to be completed by SJAFCA and its consultants (including ECORP and MBC). We have assumed in the absence of revised permits that the conditions required by CDFW in revised permits are substantially similar to those currently being implemented by SJAFCA. Revised permit conditions included in future permit revisions that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Year 4 Task 1.3 Fee: \$16,000.

Existing Task 5.3 – USFWS Impact Forecasting in Year 4

The USFWS Project Biological Assessment requires that SJAFCA estimate the plan-view area of permanent impacts to delta smelt shallow water habitat in advance of each in-water work season. SJAFCA has completed this task in each of the last three construction years. This amendment requests additional budget to complete this impact forecasting and reporting task for work to be performed in calendar year 2023.

Note: Permitting efforts to be reinitiated with USFWS in late 2022 (to be authorized under a separate amendment request) may shape the nature of delta smelt compliance work to be completed by SJAFCA and ECORP in Year 4. We have assumed in the absence of a revised Biological Opinion (BO) that the conditions required by USFWS in a revised BO will be substantially similar to those currently being implemented by SJAFCA. Revised conditions included in a future BO revision that are substantially different from current conditions may need to be considered under separate amendment requests in the future.

Year 4 Task 5.3 Fee: \$6,000.

Existing Tasks 8.2, 8.3, and 9.2 – Agency Reporting in Year 4

This task requests additional budget to prepare periodic (monthly and annual) permit compliance reports for CDFW, NMFS, USFWS, and the RWQCB. Past performance of these tasks over the last three construction years has showed that an average budget of \$8,000. per month is necessary to complete required reporting (monthly compliance and annual completion reporting). We are therefore requesting a Year 4 budget of \$96,000. For reporting in calendar year 2023 (12 months).

Year 4 Tasks 8.2, 8.3, 9.2 Reporting Fee: \$96,000.

CONTRACT 2 REQUESTED CHANGES

We are requesting budget increases for existing Contract 2 tasks to cover construction monitoring efforts (hydroacoustic, WQ, and biological) during construction Year 4 in calendar year 2023. We anticipate the Year 4 IWWW will be July 1 through November 30, 2023 (5 months). We also anticipate a 2-week mobilization period from June 15-30, 2023, and a 2-week demobilization period from December 1-15, 2023. We anticipate 26 weeks of once-weekly biological monitoring outside of the IWWW. We are requesting a Project Management budget of 37 hours per month for 12 months in Year 4. No new tasks are proposed for Contract 2.

Note: New permitting associated with placement of gate RSP may result in the SJAFCA's obligation to implement new permit conditions not currently covered by our contracts (and pending amendments) with KSN. These may need to be considered under future Contract 2 amendment requests if and as needed. We will have clarity on these conditions once the permits are received in early 2023.

Note: Our task structuring proposal below begins with Task 1.2, Hydroacoustic Monitoring, since this task effectively shapes the LOE for other monitoring tasks in Contract 2. Levels of effort for daily rate

monitoring tasks described below are contingent on SJAFCA's authorization by permitting agencies to extend the 2023 in-water work window to 6 months (currently 3.5 months in 2022).

Existing Task 1.2 – Hydroacoustic Monitoring

Our Year 4 fee request is based on 131 days of hydroacoustic monitoring in 2023 at a daily rate of \$2172/day.

Task 1.2 Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.2 Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.2 Fee: \$284,532.

Existing Task 1.3 – Water Quality Monitoring

Our Year 4 fee request is based on an additional 27 days of IWW monitoring at a daily rate of \$2117/day during the June mobilization and December demobilization periods.

Task 1.3 Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.3 Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.3 Fee: \$57,159.

Existing Task 1.1A – General Biological/Environmental Monitoring (During the In-water Work Window)

Our Year 4 fee request is based on 158 days of IWW monitoring in Year 4 at a daily rate of \$1604/day.

Task 1.1A Deliverables:

- *Periodic agency reporting, as required (Contract 1 task)*

Task 1.1A Assumptions:

- *Budget is based on the LOE noted.*

Year 4 Task 1.1A Fee: \$253,432.

Existing Task 1.1B – General Biological/Environmental Monitoring (Outside of the In-water Work Window)

Our Year 4 fee request is based on once-per-week monitoring events over a 26-week period ("off-season") at a daily rate of 1504/day.

Erik Almaas
October 28, 2022
Page 7 of 8

Task 1.1B Deliverables:

- Periodic agency reporting, as required (Contract 1 task)

Task 1.1B Assumptions:

- Budget is based on the LOE noted.

Year 4 Task 1.1B Fee: \$39,104.

Existing Task 3.0 – Project Management/Client and Agency Coordination

This task requests budget to cover 440 hours per year (~37 hrs/mo.) in 2023 for client and agency coordination in Year 4, and to schedule and coordinate monitoring staffing for daily rate tasks.

Task 3 Deliverables:

- Monthly invoices to KSN.

Task 3 Assumptions:

- No new assumptions stated.

Year 4 Task 3.0 Fee: \$105,600.

FEE SUMMARY

The fee changes for the services described above are **\$889,827**. To be provided on a TIME AND MATERIALS NOT TO EXCEED BASIS during Construction Year 4 (= calendar year 2023) of a projected 4-year period of performance, as listed in the table below, and described in this proposal.

	Task Description	Task No.	Total
CONTRACT 1	MBC Nesting Bird Compliance Y4	1.2	\$32,000.
	MBC GGS Compliance Y4	1.3	\$16,000.
	Reporting Y4	8.2, 8.3, 8.2	\$96,000.
	USEWS Impact Forecasting Y4	5.2	\$6,000.
	CONTRACT 1 TOTAL		\$150,000.
CONTRACT 2	Hydroacoustic Monitoring Y4	1.2	284,532.
	Water Quality Monitoring Y4	1.3	57,159.
	Monitoring IWW season Y4	1.1A	253,432.
	Monitoring Non-IWW season Y4	1.1B	39,104
	Project Management/Coordination Y4	3	105,600.
	CONTRACT 2 TOTAL		\$739,827
TOTAL	GRAND TOTAL		\$889,827.

SCHEDULE

Tasks to be delivered under this amendment, when approved, will be completed in Construction Year 4, during calendar year 2023. We assume the Project will be completed by the end of calendar year 2023. Some reporting tasks to be authorized under this amendment request will be completed early in calendar year 2024 to summarize end of 2023 Project activity.

Note: Our current contracts with KSN include completion of environmental DNA (eDNA) sampling to be completed by Cramer Fish Sciences (ECORP subcontractor) for two successive years following project completion. We assume these sampling events and their associated reporting to SJAFCA and permitting agencies will occur in calendar years 2024 and 2025.

EXPENSE REIMBURSEMENT/OTHER:

1. Computer, facsimile, and telephone are included in the billing rates, and there is no additional charge.
 2. Copies (color and black and white), equipment and other direct expenses are reimbursed with a 14% administrative handling charge (excluding per diem).
 3. Subcontractor expenses are reimbursed with a 12% administrative handling charge.
 4. Mileage is reimbursed at current IRS rate with a 14% administrative handling charge.
 5. Per Diem, depending upon location, may be charged where overnight stays are required.
 6. Expert Witness Testimony, including Depositions, is billed at time and a half.
-

San Joaquin Area Flood Control Agency
Smith Canal Gate - Construction Management
AMENDMENT REQUEST NO. 3-2
TASK HOURS BREAKDOWN

TASKS AND DESCRIPTIONS	KJELDSSEN, SINNOCK & NEUDECK, INC. STAFF HOURS								Total Labor Hours	Total Labor Budget	EQUIPMENT					Equipment Budget	OTHER DIRECT COSTS			Other Direct Costs Budget	Total Budget (Rounded)
	Principal Engineer	Associate Engineer	Engineer I	1 Man PW Field Crew	Inspector (Office)	Inspector PW (Field)	Sr. Project Manager	Project Accountant			3D Print Cloud	GPS Equip (1-rec)	Robotic Total Station	HDS Scanner	Boat		Direct Expense	Mileage Expense	Sub Consultant		
	Staff Initials																				
Rates	\$285	\$260	\$195	\$230	\$180	\$235	\$255	\$153			\$25	\$25	\$35	\$150	\$55		110%	0.56	110%		
PROJECT TASKS																					
1.0 Project Management / Administration	24	156	312	0	0	0	260	48	800	\$ 181,884	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 169,813	\$ 169,813	\$ 351,697
1.1 Project Management / Administration	24	156	312				260	48	800	\$181,884						\$0	\$0	\$0	\$169,813	\$169,813	\$ 351,697
2.0 Construction Management	32	668	828	0	52	0	676	0	2256	\$ 526,000	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 86,900	\$ 86,900	\$ 612,900
2.1 Meetings	16	104	104		52		104		380	\$87,760						\$0	\$0	\$0	\$0	\$0	\$ 87,760
2.2 Submittal and RFI Processing		104	624				260		988	\$215,020						\$0	\$0	\$0	\$24,200	\$24,200	\$ 239,220
2.3 Construction Contract Administration	16	260	52				208		536	\$135,340						\$0	\$0	\$0	\$0	\$0	\$ 135,340
2.4 Schedule Management		104					104		208	\$53,560						\$0	\$0	\$0	\$62,700	\$62,700	\$ 116,260
2.5 Construction Project Reporting		96	48						144	\$34,320						\$0	\$0	\$0	\$0	\$0	\$ 34,320
3.0 Inspections	0	0	104	208	0	1560	208	0	2080	\$ 487,760	0	0	0	0	480	\$ 26,400.00	\$ -	\$ -	\$ 201,548	\$ 201,548	\$ 715,708
3.1 General Inspection			52			1560	156		1768	\$416,520					480	\$26,400	\$0	\$0	\$0	\$0	\$ 442,920
3.2 Special Inspection / Materials Testing									0	\$0						\$0	\$0	\$0	\$24,448	\$24,448	\$ 24,448
3.3 Gate Inspection									0	\$0						\$0	\$0	\$0	\$82,500	\$82,500	\$ 82,500
3.4 Sheet Pile Floodwall Inspection									0	\$0						\$0	\$0	\$0	\$68,200	\$68,200	\$ 68,200
3.5 Electrical, Instrumentation & Communications Inspection									0	\$0						\$0	\$0	\$0	\$26,400	\$26,400	\$ 26,400
3.6 Survey Support			52	208			52		312	\$71,240						\$0	\$0	\$0	\$0	\$0	\$ 71,240
4.0 Environmental / Biological Monitoring	0	0	0	0	0	0	0	0	0	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 697,650	\$ 697,650	\$ 697,650
4.3 General Biological / Environmental Monitoring									0	\$0						\$0	\$0	\$0	\$321,790	\$321,790	\$ 321,790
4.4 Hydroacoustic Monitoring									0	\$0						\$0	\$0	\$0	\$312,985	\$312,985	\$ 312,985
4.5 Water Quality Monitoring									0	\$0						\$0	\$0	\$0	\$62,875	\$62,875	\$ 62,875
PROJECT TOTALS	56	824	1244	208	52	1560	1144	48	5136	\$ 1,195,644	0	0	0	0	480	\$ 26,400.00	\$ -	\$ -	\$ 1,155,909.70	\$ 1,155,909.70	\$ 2,377,954
OPTIONAL TASKS																					
GRAND TOTALS	56	824	1244	208	52	1560	1144	48	5136	\$ 1,195,644	0	0	0	0	480	\$ 26,400	\$ -	\$ -	\$ 1,155,910	\$ 1,155,910	\$ 2,377,954

General Note: This costs allocation represents our best estimate at this time and may change subject to future developments during the project. It is possible that some of the estimated manpower requirements for specific task items may increase while others may not require the entire anticipated effort. Charges to this project will be made for actual time spent on the project and will be charged as per the attached Fee Schedule.

RESOLUTION NO. SJAFCA 23-03

**SAN JOAQUIN AREA
FLOOD CONTROL AGENCY**

=====

**AUTHORIZATION TO EXECUTE AMENDMENTS No. 6 TO THE
CONSTRUCTABILITY REVIEW CONTRACT AND AMENDMEN No. 3 TO
THE CONSTRUCTION MANAGEMENT CONTRACT WITH KJELDSSEN,
SINNOCK, NEUDECK INC., FOR ADDITIONAL SERVICES DURING
CONSTRUCTION OF THE SMITH CANAL GATE PROJECT,
AUTHORIZED INTERNAL TRANSFER AND APPROPRIATE FUNDS TO
COVER PROPOSED AMENDMENTS**

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN JOAQUIN
AREA FLOOD CONTROL AGENCY, AS FOLLOWS:

The Board of Directors adopt this resolution to:

1. Authorized Amendment No. 6 to the Constructability Review Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$615,034 for additional Construction Management services during the construction of the Smith Canal Gate Project.
2. Authorize amendment No. 3 to the Construction Management Contract with Kjeldsen, Sinnock, Neudeck, Inc., in the amount of \$3,792,259 for additional Construction Management services during the construction of the Smith Canal Gate Project.
3. Authorize the Executive Director to execute an internal transfer within the Smith Canal Gate Project budget in the amount of \$1,279,796.
4. Appropriate \$4,407,293 to fund the tasks covered in Amendment No. 6 of the Constructability Review Contract and Amendment No. 3 of the Construction Manager Contract with Kjeldsen, Sinnock, Neudeck, Inc.

It is further recommended that the Executive Director be authorized to take appropriate and necessary actions to carry out the intent of the resolution.

PASSED, APPROVED AND ADOPTED this 26th day of January 2023.

XXX XXXX, Chair
of the San Joaquin Area
Flood Control Agency

ATTEST:

CHRIS ELIAS, Secretary
of the San Joaquin Area
Flood Control Agency.

APPROVED AS TO FORM:

SCOTT L. SHAPIRO, Legal Counsel
for the San Joaquin Area
Flood Control Agency

Agenda Item 5.3

January 26, 2023

TO: San Joaquin Area Flood Control Agency

FROM: Chris Elias, Executive Director

SUBJECT: **AUGMENTATION OF PREQUALIFIED LIST OF FIRMS TO PROVIDE PROFESSIONAL REAL ESTATE SERVICES IN SUPPORT OF THE AGENCY'S ONGOING FLOOD PROTECTION PROJECTS**

RECOMMENDATION

It is recommended the Board of Directors of the San Joaquin Flood Control Agency (SJAFCA) adopt a resolution authorizing the Executive Director to augment existing list of prequalified firms to provide real estate services in support of on-going flood protection projects.

SUMMARY

In November 2019, the Board authorized staff to negotiate and execute one or more consultant services Master Agreements for professional engineering and related services in support of SJAFCA's on-going flood protection projects. Following negotiations, a pre-qualified list of professional services firms was established to support SJAFCA. Since then, SJAFCA has retained several professional engineering services firms to advance a suite of flood protection projects. As the projects are progressing through planning and engineering design stages, the need for specialized real estate services continues to grow. To support SJAFCA in handling the growing specialty real estate tasks, staff requested Statements of Qualifications from professional real estate firms to augment the existing list of pre-qualified consultants. This effort resulted in adding the following professional real estate services to SJAFCA's prequalified list: 1-Monument, 2-Bender Rosenthal Inc. (BRI), and 3-Overland Pacific and Cutler, LLC (OPC)

DISCUSSION

Background

On November 07, 2019, SJAFCA's board approved Resolution 19-39 authorizing the Executive Director to negotiate and execute one or more consultant services master agreements for professional engineering and related services in support of the agency's ongoing Capital projects for planning, evaluation, concept development and design of flood protection improvements.

RFQ SELECTED FIRM RESULTS

	Service Area							
	1 - Planning / Plan Formulation	2 - Flood Risk Assessment	3 - Civil Engineering	4 - Geology and Geotechnical Engineering	5 - Hydrology and Hydraulic Engineering	6 - Surveying	7 - Real Estate Support	8 - Environmental Planning and Permitting
Selected Firms	PBI	PBI	PBI	Engeo	MBK	Psomas	Wood Rodgers	ESA
	KSN	KSN	KSN	Blackburn	Wood Rodgers	KSN	KSN	HT Harvey
	MBK	ESA	CBEC	Kleinfelder	PBI	Wood Rodgers		Wood Rodgers
	Wood Rodgers		MGE			CBEC		
			Wood Rodgers					

On August 15, 2022, SJAFCA reached out to same consulting firms on the existing list and the ones that submitted recent proposals and requested they update their proposals and billing rates for their services. On August 29, 2022, SJAFCA received three updated proposals with billing rates in a sealed envelope. On November 3, following evaluation of the complete submittals, representatives of Monument, Bender Rosenthal Inc. (BRI), and Overland Pacific and Cutler, LLC (OPC) were interviewed by SJAFCA's team.

SJAFCA is currently undertaking a very large right of way program with over three active projects of which the Lower San Joaquin River Project Phase 1 has 460 impacted parcels. Real estate is a very important and critical factor of project delivery. This pre-qualified list of firms may support the real estate service needs related to one or more of the following projects:

1. Federally authorized Lower San Joaquin River Project – Phase 1
2. Lower San Joaquin River Project (Lathrop & Manteca) – Mossdale Tract Project
3. Paradise Cut Expansion and South Delta Restoration Project

Because of the sheer volume of upcoming work anticipated in the next few years on SJAFCA's project, three professional real estate service firms were added to augment the existing list of pre-qualified firms to support the Agency. The desired qualifications on specialty real estate support services includes valuation, appraisal, and acquisition support of permanent fee title, temporary and permanent easements, right-of-entry support, and temporary and permanent damages. Work includes researching title reports, landowner engagement, acquiring parcel descriptions, preparing right-of-way documents, developing plats and legal descriptions, developing written offers, offer negotiation and recommendations, condemnation support (non-legal services), title and escrow document review and coordination, relocation assistance and other related real estate support. After extensive evaluations and interviews, the three firms below were recommended to augment the list of pre-qualified firms to provide professional real estate services in support of SJAFCA's on-going flood protection projects:

1. Monument
2. Bender Rosenthal Inc. (BRI)
3. Overland Pacific and Cutler, LLC (OPC)

Next Steps

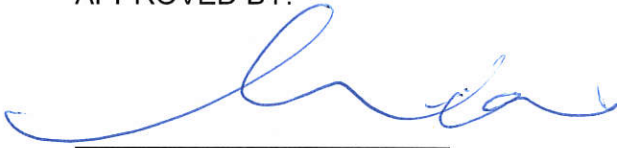
As a next step, staff recommends authorizing the Executive Director to augment the existing list of pre-qualified professional services firms by adding Monument, BRI, and OPC for real estate services in support of SJAFCA's on-going flood protection projects.

FISCAL IMPACT

There are no fiscal impacts at this time until one of the firms is called up for specific task in support of SJAFCA's flood protection project.

Prepared by: Omar Al-Hindi

APPROVED BY:



CHRIS ELIAS
EXECUTIVE DIRECTOR

RESOLUTION NO. SJAFCA 23-04

SAN JOAQUIN AREA
FLOOD CONTROL AGENCY

=====

**RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO
NEGOTIATE AND EXECUTE ONE OR MORE CONSULTANT SERVICES
MASTER AGREEMENTS FOR REAL ESTATE APPRAISALS AND ACQUISITIONS
PROFESSIONAL AND RELATED SERVICES IN SUPPORT OF THE AGENCY'S
ONGOING CAPITAL PROJECTS FOR PLANNING, EVALUATION, CONCEPT
DEVELOPMENT AND DESIGN OF FLOOD PROTECTION IMPROVEMENTS**

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE SAN JOAQUIN AREA FLOOD CONTROL AGENCY, AS FOLLOWS:

The board of directors hereby directs the executive director to negotiate and execute one or more consultant services master agreements for professional engineering and related services in support of the agency's ongoing capital projects for planning, evaluation, concept development and design of flood protection improvements

PASSED, APPROVED AND ADOPTED this 26TH day of January 2023.

XXXX XXX Chair
of the San Joaquin Area
Flood Control Agency

ATTEST:

CHRIS ELIAS, Executive Director
San Joaquin Area Flood Control Agency

APPROVED AS TO FORM:

SCOTT L. SHAPIRO, Legal Counsel
for the San Joaquin Area
Flood Control Agency

RESOLUTION NO. SJAFCA 23-05

SAN JOAQUIN AREA
FLOOD CONTROL AGENCY

=====

**RESOLUTION AUTHORIZING THE EXECUTIVE DIRECTOR TO AUGMENT THE
PREQUALIFIED LIST OF FIRMS ELIGIBLE TO PROVIDE PROFESSIONAL REAL
ESTATE SERVICES IN SUPPORT OF THE AGENCY'S ONGOING FLOOD
PROTECTION PROJECTS**

**NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE
SAN JOAQUIN AREA FLOOD CONTROL AGENCY, AS FOLLOWS:**

The Board of Directors hereby the Executive Director to augment existing list of prequalified firms to provide real estate services in support of on-going flood protection projects.

PASSED, APPROVED AND ADOPTED this 26TH day of January 2023.

XXXX XXX Chair
of the San Joaquin Area
Flood Control Agency

ATTEST:

CHRIS ELIAS, Executive Director
San Joaquin Area Flood Control Agency

APPROVED AS TO FORM:

SCOTT L. SHAPIRO, Legal Counsel
for the San Joaquin Area
Flood Control Agency

Agenda Item 6.1

January 26, 2022

TO: San Joaquin Area Flood Control Agency

FROM: Chris Elias, Executive Director
Seth Wurzel, LWA – Assessment Engineering Consultant

SUBJECT: **BRIEFING REGARDING THE PROPOSED LEVEE CONSTRUCTION AND MAINTENANCE ASSESSMENT ("LCMA") DISTRICT ASSESSMENT METHODOLOGY**

RECOMMENDATION

It is recommended that the Board of Directors of the San Joaquin Area Flood Control Agency (Board) receive a second informational briefing from SJAFCA Staff and Consultants regarding the proposed Levee Construction and Maintenance Assessment District (LCMA). The LCMA is the name of the proposed assessment district being advanced pursuant to the Memorandum of Understanding (MOU) with the San Joaquin County Flood Control and Water Conservation District (District) for a combined assessment district to fund levee operations and maintenance, the Lower San Joaquin River Phase 1 Project and related flood control improvements.

DISCUSSION

At its December Board meeting, the Board received its first information briefing regarding LCMA where staff provided an overview of the approach for delineating the proposed boundary of the assessment district. The special benefit requirements of Proposition 218 require that all parcels receiving a Special Benefit from the services provided by the assessment be assessed. As a result, the Boundary of the Assessment was defined based upon a detailed review of the parcels that would receive special benefit from the following:

- as it relates to Capital Improvements, the avoidance of flood risks through improvements and certification / accreditation efforts.
- as it relates to the Operations & Maintenance Services, the avoidance of flood damages through routine maintenance of existing and improved facilities.

The special benefit requirements of Proposition 218 also require that all parcels be assessed in proportion to the amount of special benefit received. This requires that the Assessment Engineer develop a methodology for assessing (or quantifying) the total amount of special benefits received for each parcel in the proposed district from the services to be funded by the assessment. Staff will provide a second briefing for the Board which will cover the approach and methodology for the assessment of special benefits and determining the proposed assessment for each parcel.

The schedule for the assessment district formation is presented in the matrix below. The goal of the Board briefings is to familiarize the Board and the public with principles guiding the assessment approach as well as the importance of the services to be funded. The matrix shows the remaining key Board and Public interaction timeframes that staff and consultants are executing in the coming months.

**BRIEFING REGARDING THE PROPOSED LEVEE CONSTRUCTION AND MAINTENANCE
ASSESSMENT ("LCMA") DISTRICT ASSESSMENT METHODOLOGY**

<u>Timeframe</u>	<u>Item</u>
<i>December 2022 (completed)</i>	<i>Board Briefing on Benefit Area</i>
January 2023	Board Briefing on Assessment Methodology
March 2023	Board Approval of Engineer's Report / Call for Ballot Proceeding
April 2023	Ballot Mailing
April / May 2023	Public Workshops
June 2023	Public Hearing

At the Board meeting Larsen Wurzel & Associates, Inc. (LWA), the firm that has been engaged by the District to advance the assessment district and provide assessment engineering services, will provide the briefing on the assessment methodology.

FISCAL IMPACT

This is an informational briefing only with no Fiscal Impact to the Agency.

Strategic Plan Consistency Analysis

The material found in this report is consistent with the Mission and Goals of the Board-adopted Strategic Plan, specifically Goal 1 to Plan for and Implement System Resiliency and Goal 3 Facilitate Funding Structures that are Most Beneficial to Local Interests.

APPROVED BY:



CHRIS ELIAS
EXECUTIVE DIRECTOR

**End of
Agenda Packet**