

**Request for Proposals  
for  
Inland Empire Brine Line:  
Reach IV and IV-B Section Condition Assessments**



**Santa Ana Watershed Project Authority**

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# Contents

<b>1. Background</b>	4
<b>2. Introduction</b>	4
a) <b>Agency Background</b>	4
b) <b>The Inland Empire Brine Line</b>	4
c) <b>Ductile Iron Section of Reach IV-B</b>	5
d) <b>Reach IV</b>	5
e) <b>Critical nature of the Condition Assessment</b>	6
<b>3. Schedule</b>	6
<b>4. Proposal Instructions and Conditions</b>	7
a) <b>Pre-Contractual Expenses</b>	7
b) <b>Authority to Withdraw RFP and/or Not Award Contract</b>	7
c) <b>Selection of Multiple Proposals</b>	7
d) <b>Right to Reject Proposal</b>	7
e) <b>Discrepancies in Proposal Documents</b>	7
f) <b>Oral Statements</b>	7
g) <b>Conflict of Interest</b>	7
<b>5. Scope of Work</b>	7
a) <b>Task 1: Project Management</b>	7
b) <b>Task 2: Project Preparation</b>	8
c) <b>Task 3: Prepare Field Inspection Plan</b>	8
d) <b>Task 4: Implement the Field Inspection Plan</b>	8
e) <b>Task 5: Draft and Final Report</b>	8
<b>6. Project Schedule</b>	9
<b>7. Fee Proposal Requirements</b>	9
<b>8. Proposal Requirements</b>	10
a) <b>Content and Format</b>	10
b) <b>Cover or Transmittal Letter</b>	10
c) <b>Project Approach and Scope of Services</b>	10
d) <b>Project Team and Organization Diagram</b>	10
e) <b>Project Schedule</b>	10
f) <b>Contract Exceptions, Proof of Insurance</b>	11
<b>9. General Requirements</b>	11
a) <b>Insurance Requirements</b>	11
b) <b>Standard Form of Agreement</b>	11
c) <b>Assigned Representatives</b>	12
<b>10. Consultant Evaluation and Selection Process</b>	12

<b>a) Selection Process</b> .....	12
<b>11. Attachments</b> .....	12
<b>12. Available Documents</b> .....	12
<b>Appendix A</b> .....	15
<b>Appendix B</b> .....	16

**REQUEST FOR PROPOSALS  
FOR  
SANTA ANA WATERSHED PROJECT AUTHORITY  
Inland Empire Brine Line: Reach IV and IV-B Section Condition Assessments**

Santa Ana Watershed Project Authority (SAWPA) requests proposals from qualified firms to perform a condition assessment on two (2) sections of the Inland Empire Brine Line. The relevant section of Reach IV-B is approximately 1.6 miles long and the relevant section of Reach IV is 2.36 miles long.

Proposals must be submitted and uploaded onto Planet Bids at: <https://pbsystem.planetbids.com/portal/52676/portal-home> as a complete electronic/PDF file by no later than **December 15, 2022 at 3:00 p.m.**, along with the Fee Proposal, which shall be submitted as both a PDF and Microsoft Excel file and uploaded as General Attachments. SAWPA will not accept hand-delivered proposals. **Proposals received after specified date and time WILL NOT be accepted.**

A non-mandatory **pre-proposal meeting** will be held via Zoom on November 15, 2022, at 10:00 a.m. Please email Daniel Vasquez at [dvasquez@sawpa.org](mailto:dvasquez@sawpa.org) for a link to the Zoom Meeting.

Prospective Offerors are required to put all RFP questions, clarifications, or comments through PlanetBids' Q&A system at: <https://pbsystem.planetbids.com/portal/52676/portal-home> as and/or in writing to David Ruhl, P.E., Executive Manager of Engineering and Operations ([druhl@sawpa.org](mailto:druhl@sawpa.org)). Questions, clarifications, or comments must be received no later than December 9, 2022, at 4:00 p.m. The Offerors must verify that SAWPA received the e-mail transmission.

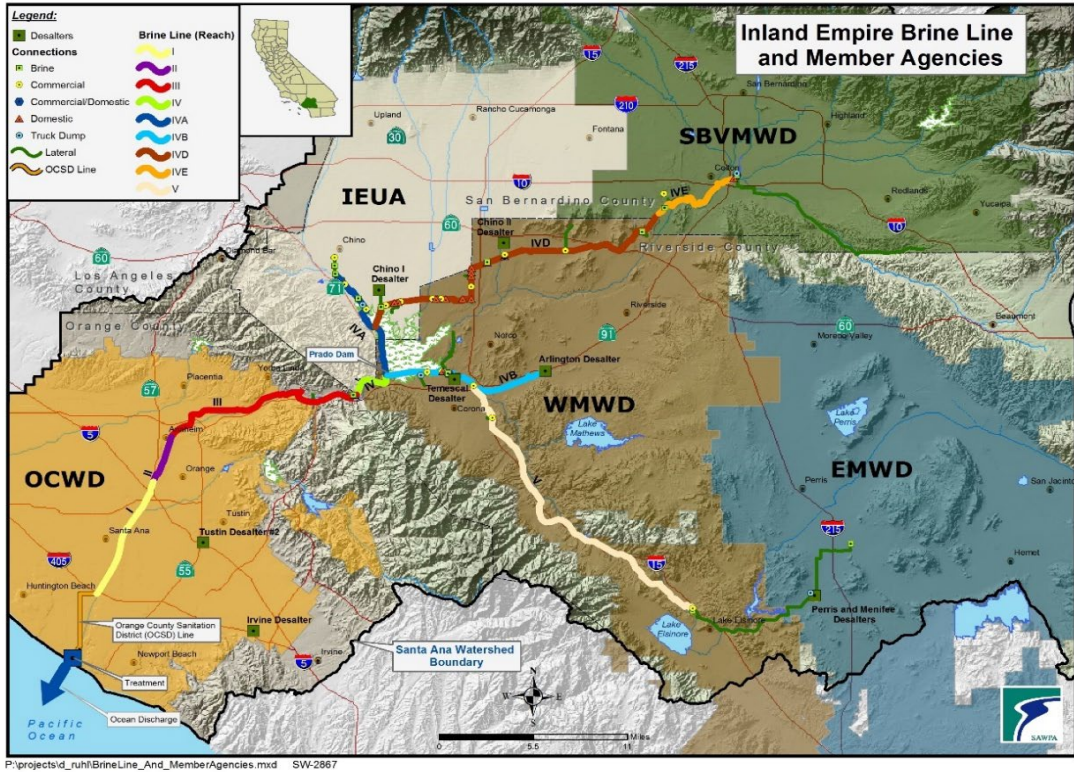
## 1. Background

SAWPA's Brine line in Reach IV and the ductile iron pipe portion of Reach IV-B have been identified as high priority in our 2021 Consequence of Failure (COFA) analysis. The result of this project will aid SAWPA in identifying problematic Brine Line system components, necessity of improved access, confirm accuracy in SAWPA's Geographical Informational System (GIS), analyze pipeline conditions, and prioritize our capital improvement program accordingly.

## 2. Introduction

- a) **Agency Background**: The Santa Ana Watershed Project Authority (SAWPA) was formed in 1972 to plan and build facilities to protect water quality in the Santa Ana River Watershed. SAWPA is a Joint Powers Authority (JPA) comprised of five (5) member agencies: Eastern Municipal Water District (EMWD), Inland Empire Utilities Agency (IEUA), Orange County Water District (OCWD), San Bernardino Valley Municipal Water District (SBVMWD), and Western Municipal Water District (WMWD). To learn more about SAWPA please visit [www.sawpa.org](http://www.sawpa.org).
- b) **The Inland Empire Brine Line**: The Inland Empire Brine Line (Brine Line) is approximately 73 miles of pipeline constructed to provide for a safe discharge of highly saline wastewater to protect the water quality of the Santa Ana River Watershed. The Brine Line carries this highly saline wastewater to a wastewater treatment plant in Huntington Beach operated by Orange County Sanitation District.

SAWPA owns approximately 73 miles of pipeline referred to as the Inland Empire Brine Line (Brine Line) in Riverside and San Bernardino Counties. The Brine Line was initially constructed to provide for highly saline, non-domestic discharges to protect the inland water quality in the upper Santa Ana River Watershed. The Figure Below indicates the SAWPA Member Agency boundaries and associated Brine Line reaches.

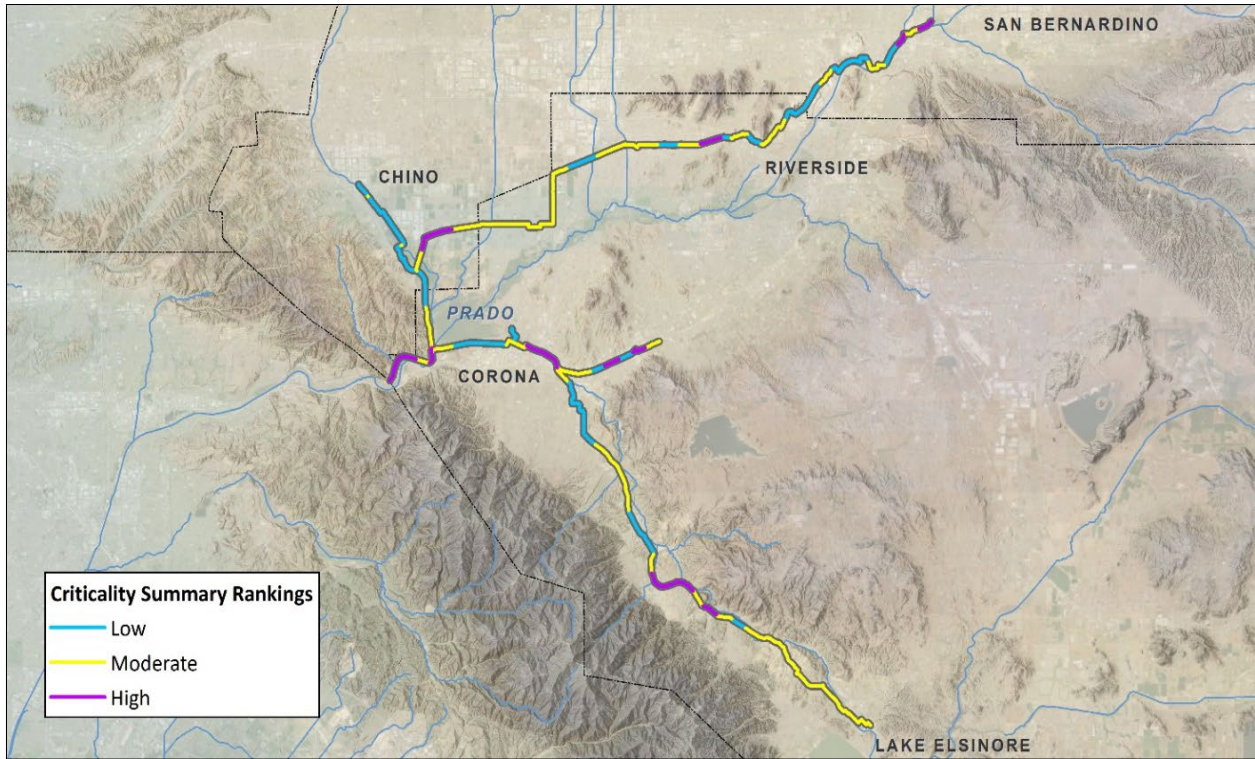


**Figure A: Inland Empire Brine Line and Member Agency Boundaries**

- c) **Ductile Iron Section of Reach IV-B:** The relevant section of Reach IV-B is approximately 1.6 miles of 36-inch Ductile Iron Pipe (DIP) which crosses several streets in the City of Corona and runs along the Riverside County Flood Control’s Temescal Creek Channel access road. This section of the Brine Line conveys highly saline brine water primarily from five desalters and several industrial dischargers via gravity to Reach IV downstream. The Corona Temescal Desalter discharges into this section as well as the SRPS emergency connection. Table A conveys the pipe materials and length data. The Reach IV-B daily flow is about 5 – 7 million gallons per day (MGD) as referenced in Table B. Please see Appendix A for a more detailed overview of system components and nearby topography.
- d) **Reach IV:** Reach IV was constructed in 1975 and is the oldest portion of the Brine Line. Reach IV is comprised of 42”-48” Reinforced Concrete Pipe which conveys a combined highly saline brine water from Reaches IV-A, IV-B, IV-D, IV-E, and V from the Inland Empire to Reach III via gravity. Reach IV is where all the brine discharge from upstream reaches combines into a single pipe. Detailed on Appendix B is a map indicating system components and a general representation of surrounding topography. Reach IV begins just south of the Prado Flood Control Basin, runs along the Santa Ana River and flows west through Chino Hills State Park and Green River Golf Course. Flows by type in Reach IV are as indicated on Figure C.

Reach	Pipe Material and Lining System	Length (Feet)	Last Condition Assessment
Reach IV-B (DIP Section)	DIP (Coal Tar Epoxy Lined)	8448	Unknown
Reach IV (42 to 48-inch)	RCP (360 <sup>0</sup> T-Lock PVC Liner)	12,500	Unknown

**Table A: Reach IV B and IV pipeline properties**



**Figure D: Final Criticality Summary Rankings for Brine Line Segments**

Flow Type	Average Daily Flow (MGD)	Percent of Total (%)
Potable Water Production	9.6	79
Industrial	1.2	10
Power Generation	0.5	4
Wastewater Desalination	0.4	4
Domestic	0.3	3
<b>Total</b>	<b>12.0</b>	<b>100.00</b>

**Table B: SAWPA Monthly Total Flow to Orange County Sanitation District**

- e) **Critical nature of the Condition Assessment:** In 2021 the Criticality Assessment coordinated rankings from the Probability of Failure Analysis and the Consequence of Failure Analysis in order to establish Criticality Rankings for Brine Line Infrastructure. The resulting Technical Memorandum identified Reach IV and the DIP section of IV - B as meeting high criticality definitions set forth in the document due to variables such as material properties and age.

### 3. Schedule

Issue Request for Proposals	<b>November 1, 2022</b>
Pre-proposal meeting	<b>November 15, 2022</b>
Proposals due	<b>December 15, 2022 3:00 PM PST</b>
Interview panel conducts interview of top proposing firms	<b>January 11, 2023</b>
Recommend Award	<b>February 7, 2023</b>
Issue Notice to Proceed	<b>February 2023</b>

## 4. Proposal Instructions and Conditions

- a) **Pre-Contractual Expenses:** Pre-Contractual expenses are defined as expenses incurred by prospective bidders in:
- Preparing a proposal in response to the RFP
  - Submitting that proposal to SAWPA
  - Negotiating with SAWPA in any matter related to this RFP, proposal, and/or contractual agreement
  - Any other expenses incurred by the prospective bidder prior to the date of an executed contract

SAWPA will not, in any event, be liable for any pre-contractual expenses incurred by any prospective bidder. In addition, no prospective bidder shall include any such expenses as part of the price proposed to perform the requested services.

- b) **Authority to Withdraw RFP and/or Not Award Contract:** SAWPA reserves the right to withdraw the RFP at any time without prior notice. Further, SAWPA makes no representations that any agreement will be awarded to any prospective bidder responding to this RFP. SAWPA expressly reserves the right to postpone the opening of proposals for its own convenience and to reject any and all proposals in response to this RFP without indicating any reasons for such rejection(s).
- c) **Selection of Multiple Proposals:** Due to the widely varied geographic area and technical requirements, SAWPA has found teams of consultants to be very effective in providing the technical expertise and personnel required to perform services for the Brine Line. Therefore, SAWPA reserves the right to select more than one prospective firm to provide services for all or part of the proposed scope of work.
- d) **Right to Reject Proposal:** SAWPA reserves the right to reject any or all proposals submitted. Any award made for this engagement will be made to the firm/s, which, in the opinion of SAWPA, is best qualified to perform the services and represents the best value and effectiveness.
- e) **Discrepancies in Proposal Documents:** Should prospective firms find discrepancies in, or omissions from the RFP, or if the intent of the RFP is not clear, and if provisions of the specifications restrict any prospective firm from proposing, they may request in writing that the deficiency(s) be modified. Such request must be received by SAWPA at least ten (10) working days before the proposal due date. All registered firms will be notified by addendum of any approved changes in the request for proposal documents.
- f) **Oral Statements:** SAWPA is not responsible for oral statements made by any of its employees or agents concerning the RFP. If the prospective firm requires specific information, a written request must be submitted to SAWPA.
- g) **Conflict of Interest:** The Consultant shall review their past, current, or proposed work with agencies or firms having a significant interest in the Brine Line to verify a conflict of interest or the appearance of a conflict will not occur.

## 5. Scope of Work

- a) **Task 1: Project Management.** The consultant shall provide all efforts to manage all tasks in a cost effective, timely, and professional manner, including but not limited to, overseeing consultant efforts; attend kick-off meeting with SAWPA staff to solicit input and confirm approach and criteria; provide regular project status reports and invoices of appropriate detail; participate in biweekly conference

calls (zoom meeting) to discuss project status; participate in (3) workshops with SAWPA staff to present the draft Field Inspection Plan, prior to Implementation of the Field Inspection Plan and upon submittal of the draft report; participate in two (2) Project Agreement 24 Committee Meetings to present the findings and the draft report. Consultant shall prepare and facilitate a PowerPoint presentation for workshops and Committee meetings.

- b) **Task 2: Project Preparation:** The consultant shall review all pertinent records pertaining to Reach IV and the Ductile Iron section of Reach IV-B for the Brine Line including associated Record Drawings, applicable GIS data, flow data, available CCTV, and applicable maintenance records.
- c) **Task 3: Prepare Field Inspection Plan:** The consultant shall prepare a field inspection plan (FIP). This plan shall include the strategy and investigative measures to collect the necessary data to present a representative sample of the associated Brine Line system components. This plan shall present the method to catalog the relevant sections of SAWPA's Brine Line infrastructure for identifying both the current condition as well as components and sections which have the greatest risk for structural deficiencies. The developed method will justify the assessment technologies chosen and discuss the reasoning for choosing said technologies against other available solutions. The FIP shall include overall cost and schedule to implement the FIP. Submit plan for SAWPA review. Incorporate comments and submit for final review and concurrence.

The FIP shall field verify the information received during the Project Preparation Phase including where the ductile irons section of Reach IV-B begins and ends.

The FIP shall implement all required safety precautions associated with the chosen methodology. The FIP will account for all potential necessary environmental permitting requirements and work restrictions. The FIP shall also include logistical assignment of responsibilities on behalf of both Consultant and the collaborative efforts of SAWPA.

A complete Bypass Plan shall be provided by the FIP which will include engineering drawings for trenching and piping design and layouts, necessary traffic control plan, spill prevention plans and a Task Schedule. Some pre-identified duties of SAWPA may include (1) to provide subcontractor for traffic control, (2) Act as the liaison between the dischargers, and the consultant for controlling flows, (3) Provide CCTV and line cleaning contractor, (4) provide for bypass piping and pumping, if needed (5) Obtain necessary encroachment permits from local governing bodies. SAWPA retains the discretion to provide any or all of these services for the completion of this project.

- d) **Task 4: Implement the Field Inspection Plan:** Following review and concurrence by SAWPA staff, the Consultant shall execute the field inspection plan.
- e) **Task 5: Draft and Final Report:** The consultant shall prepare a draft and final report of the findings as a result of the implementation of the FIP. Consultant shall submit the draft report to SAWPA for review and incorporate comments and submit to SAWPA for final review. The report shall be in the format of a technical memorandum. The report shall include:

- Background of the inspection types and methods.
- Rating System for discovered defects.
- A narrative of the types and characteristics of defects found.
- Recommendations for prioritization of maintenance activities as well as access expansion.
- Analysis for coupon corrosion testing if such testing has been deemed necessary by SAWPA staff.
- Tabular list of all pipe segments and associated system components reviewed in the FIP. List shall include condition rating, defects, and other system attributes.
- Statistical analysis of corrosion level likelihood in pipeline areas that were unable to be captured by employed methodology, including ratings. This should take into consideration



normal flowrates, elevations and geometry, nearby corrosion levels and similar verified pipe segments.

- Recommendations for methods and prioritization of pipe and system component rehabilitation and/or replacement as necessary. A Technical memorandum shall be prepared in such case which details an evaluation of methods to repair and protect remaining structural integrity of the relevant sections of pipeline to extend its useful life. The memorandum shall evaluate techniques such as durability of repair, construction methods, work area requirements, magnitude of costs, implementation hurdles, regulatory requirements, permitting requirements as well as compare/contrast the associated advantages and disadvantages of each given method.
- The consultant shall prepare five (5) hard copies of draft report and five (5) copies of the final report. Other final deliverables shall include any video or photographic records, data and reports from the FIP.

## 6. Project Schedule

The Consultant shall conduct a kick-off meeting within one (1) week from the notice to proceed. SAWPA anticipates the total time to complete the work is 36 weeks.

## 7. Fee Proposal Requirements

In preparing the fee schedule for the services identified under the scope of work, the Consultant shall take into consideration the following:

- i) Compensation for Consultant direct services provided in completing the tasks shall be based upon an hourly billing rate up to a not-to-exceed amount.
- ii) For each task, provide a breakdown of labor hours by employee billing classification together with the cost of non-labor and sub-consultant services. The labor breakdown shall be compiled by project task and be based on a listing of work tasks that correlates with the Consultant's defined scope of work for the project proposal. For each task, sum the total hours and the total cost. The sum of all task hours and task cost shall be provided. This information will be used by SAWPA to evaluate the reasonableness of the fee proposal and will be used in negotiating the final fee amounts for the contract agreement. Optional tasks shall be detailed as described above for all tasks. Optional tasks shall be broken out separately and not included in the sum of all task hours and all task costs. For each optional task sum the total hours and the total cost.
- iii) The Consultant shall detail the hours allocated to meetings by meeting type (kickoff, bi-weekly coordination, Commission, etc.).
- iv) The Consultant's billing rates for all classifications of staff likely to be involved in the project shall be included with the fee proposal, along with the markup rate for any non-labor expenses and sub-consultants.
- v) SAWPA will review the fee proposal of the Consultant deemed most qualified after completing a review of the proposals and conducting interviews. The final scope and fee will be negotiated with the top ranked Consultant.
- vi) Reimbursable expenses will not be allowed unless included in the proposal and negotiated prior to a contract. Billing rate escalations during the contract term are disfavored and shall be approved in negotiations prior to execution of a contract.

## 8. Proposal Requirements

- a) **Content and Format:** Although no specific format is required by SAWPA, this section is intended to provide guidelines to the Consultant regarding features, which SAWPA will look for and expect to be included in the proposal. SAWPA requests that submitted proposals are organized, presented in an understandable format, and relevant to the services requested. Consultant's proposals shall be clear, accurate, and comprehensive. Excessive or irrelevant material is not of benefit and will not contribute to overall evaluation.

Proposals should be limited to pertinent information. Proposal should be no more than fifteen (15) **typed pages** (based on an 11-point minimum font size), including Table of Contents. Resumes, cover letter and page dividers will not count toward the proposal page limit. Resumes should be included in an appendix. The fee proposal, provided in a separate file, should contain information to clearly respond to the information that is requested in the RFP.

The proposal should include the following:

- Cover or transmittal letter
- Table of Contents, page numbering
- Project Approach and Scope of Services
- Project Team and Organization Diagram
- Descriptions of similar projects by key staff to be used on this assignment including scope and complexity of the projects
- Brief resumes of key staff and sub-consultants (In Appendix)
- Relevant and appropriate references
- Project schedule
- Breakdown of total hours by Task. Total hours include Consultant personnel and subconsultants.
- Contract Exceptions, Proof of Insurance
- Fee proposal, billing rates for staff. In addition, the fee proposal shall include a breakdown of hours by type of personnel identified as part of the project team (**submitted in a separate file**).

Some of these areas are described in further detail below:

- b) **Cover or Transmittal Letter:** An individual authorized to bind the Consultant shall sign the proposal and fee proposal. The proposal shall contain a statement that the proposal and fee are valid for at least a 90-day period.
- c) **Project Approach and Scope of Services:** A description of the work that will be undertaken shall be included in this section. It should explain the technical approach, methodology, and specific tasks and activities that will be performed to address the specific issues and work items identified in the RFP. It should also include a discussion of constraints, problems, and issues that should be anticipated during the contract, and suggestions for approaches to resolving them. Any proposed deviations to the scope of work as described herein should be clearly noted.
- d) **Project Team and Organization Diagram:** The purpose of this section is to describe the organization of the project team including sub-consultants and key staff. A project manager shall be named who shall be the prime contact and be responsible for coordinating all activities with SAWPA. An organizational diagram shall be submitted showing all key team members, their office location, and the relationship between SAWPA, the project manager, key staff, and sub-consultants. There also shall be a brief description of the role and responsibilities of all key staff and sub-consultants identified in the team organization.
- e) **Project Schedule:** A project schedule shall be included which identifies the timetable for completion of tasks, activities, and phases of the project that correlate with the scope of work for the project.

There should be a brief discussion of any key assumptions used in preparing the timetable, and identification of critical tasks and/or events that could impact the overall schedule.

- f) **Contract Exceptions, Proof of Insurance:** The Consultant shall carefully review the standard agreement and include with the proposal a description of any exceptions requested to the standard contract. If there are no exceptions, a statement to that effect shall be included in the proposal. The Consultant shall furnish, with the proposal, proof of insurance coverage to the minimum levels identified in Section 7.
- g) **Fee Proposal** (Separate File) A Fee Proposal shall be submitted per the requirements of Section 7 as both a PDF and Excel file and uploaded as General Attachments.

## 9. General Requirements

### a) **Insurance Requirements**

- i. **The Consultant shall furnish, with the proposal, proof of the following minimum insurance coverage. Full information on insurance requirements is listed in Attachment B.** These minimum levels of coverage are to be maintained for the duration of the project:
- ii. Obtain a Commercial **General Liability and an Automobile Liability** insurance policy, including contractual coverage, with limits for bodily injury and property damage in an amount of not less than \$2,000,000.00 per occurrence for each such policy. Such policy shall name SAWPA, its officers, employees, agents and volunteers, as an additional insured, with any right to subrogation waived as to SAWPA, its officers, employees, agents and volunteers. If Commercial General Liability Insurance or other form with an aggregate limit is used, either the general aggregate limit shall apply separately to the work assigned by SAWPA under this Agreement or the general aggregate limit shall be at least twice the required occurrence limit. The coverage shall be at least as broad as Insurance Services Office Commercial General Liability Coverage (occurrence Form CG 00 01) and Insurance Services Office Form CA 00 01 covering Automobile Liability, Code 1 (any auto). The Commercial Liability Insurance shall include operations, products and completed operations, as applicable.
- iii. Obtain a policy of **Professional Liability** (errors and omissions) insurance appropriate to the Consultant's profession in a minimum amount of \$2,000,000.00 per claim or occurrence to cover any negligent acts or omissions or willful misconduct committed by Consultant, its employees, agents and subcontractors in the performance of any services for SAWPA. Architects' and engineers' coverage shall include contractual liability.
- iv. Obtain a policy of **Employer's Liability** insurance in a minimum amount of \$1,000,000.00 per accident for bodily injury and property damage.
- v. Provide **worker's compensation** insurance or a California Department of Insurance-approved self-insurance program in an amount and form required by the State of California and the Employer's Liability Insurance that meets all applicable Labor Code requirements, covering all persons or entities providing services on behalf of the Consultant and all risks to such persons or entities.

**The Consultant is encouraged to contact its insurance carriers during the Proposal stage to ensure that the insurance requirements can be met if selected for negotiation of a contract agreement.**

- b) **Standard Form of Agreement:** The selected Consultant will enter into an agreement with SAWPA based upon the contents of the RFP and the Consultant's proposal. SAWPA's standard form of agreement is included as **Appendix C**. The Consultant shall carefully review the agreement, especially in regard to the indemnity and insurance provisions, and include with the proposal a description of any exceptions requested to the standard contract. If there are no exceptions, a statement to that effect shall be included in the proposal.

- c) **Assigned Representatives:** SAWPA will assign a responsible representative to administer the contract and to assist the Consultant in obtaining information. The Consultant also shall assign a project manager who shall be identified in the proposal. The Consultant's representative shall remain in responsible charge of the Consultant's duties from the notice-to-proceed through project completion. SAWPA's representative shall approve any substitution of representatives or sub-consultants identified in the written proposal. SAWPA reserves the right to review and approve/disapprove all key staff and sub-consultant substitution or removal and may consider such changes not approved to be a breach of contract.

## 10. Consultant Evaluation and Selection Process

- a) **Selection Process:** SAWPA's consultant evaluation and selection process is based on comprehensive review of the proposals for professional services. The following criteria will be used in evaluating the proposals:
- (1) Understanding of the project requirements including identification of critical elements and key issues for successful project implementation.
  - (2) Technical approach and work plan for the project.
  - (3) Relevant qualifications and experience of the firm, project manager, other key individuals, and sub-consultants and past performance and experience.
  - (4) Schedule.
  - (5) Quality control procedures.
  - (6) Results of reference checks.
  - (7) Clarity of proposal and compliance with proposal requirements.

Firms submitting the best proposals may be invited to an interview conducted by a selection panel made up of representatives from SAWPA member agencies, sub-agencies, and/or SAWPA staff. The number of firms to be invited for interviews is at the discretion of SAWPA. The interview format and details will be included in the interview invitation letter. SAWPA recognizes the significant effort required to respond to this RFP and therefore discourages any firm or team which lacks the required experience to submit a proposal for evaluation.

SAWPA may negotiate a contract with the most qualified firm or firms for the desired consulting services and compensation level, which SAWPA determines is fair and reasonable. Failing a successful negotiation with the best-qualified firm or firms, SAWPA will terminate negotiations and continue the negotiation process with the next most qualified firm(s), in order to obtain the services at a fair and reasonable price, until an agreement is reached, a firm is selected, and an agreement is executed.

## 11. Attachments

- Appendix A - Ductile Iron Section of Reach IV-B
- Appendix B - Reach IV
- Appendix C - Standard form of Agreement

## 12. Available Documents

The following reference documents are available for download from SAWPA (Dropbox). Please e-mail Haley Mullay at [hmullay@sawpa.org](mailto:hmullay@sawpa.org) and cc David Ruhl at [druhl@sawpa.org](mailto:druhl@sawpa.org) to receive download instructions.

- a) Record drawings
- b) Monthly flowrates.
- c) Available CCTV, if any.
- d) Inland Empire Brine Line Criticality Assessment Technical Memorandum 2021

e) Santa Ana Watershed Project Authority Overflow Emergency Response Plan (OERP)

### 13.PROPOSAL AUTHORIZATION

**(Please provide this document (or exact information) on your letterhead)**

I certify I am authorized to submit a binding proposal on behalf of my company, (enter company name), and this proposal conforms to required specifications unless otherwise noted.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Proposal Submitted by

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Email

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Telephone Number

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Facsimile Number

# Appendix A

## Brine Line IVB MAS 4B-0290 to 4B-0470



● Brine Line MAS

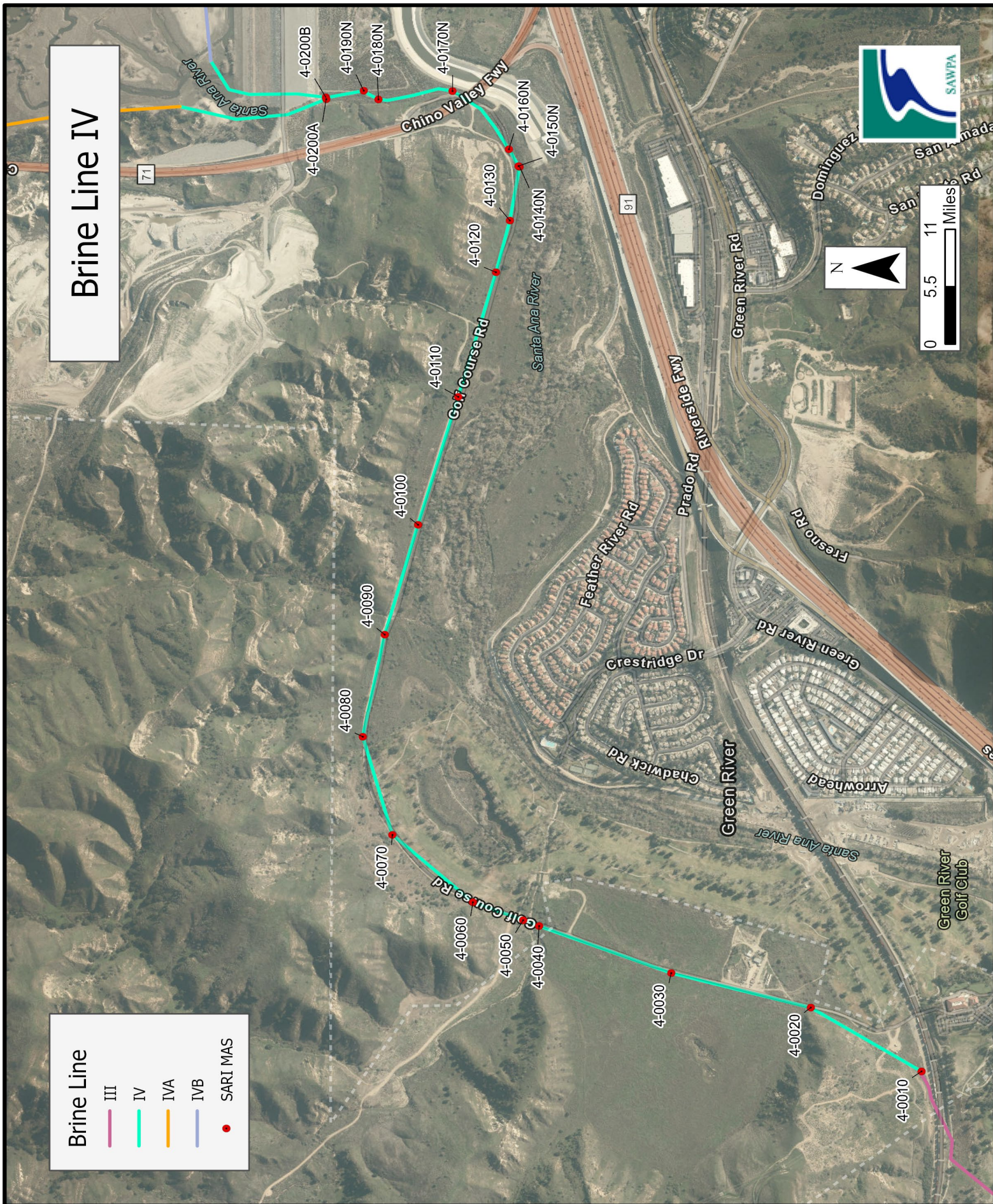
**Brine Line**

— IVB

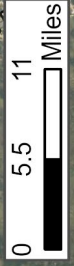
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# Appendix B



**Brine Line IV**



**Brine Line**

- III
- IV
- IVA
- IVB
- SARTI MAS