

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Ridgecrest City Hall 100 W California Ave., Ridgecrest, CA 93555 760-499-5002

BOARD OF DIRECTORS

A G E N D A

Thursday, January 16, 2020

Closed Session 10:00 a.m.

Open Session 11:00 a.m.

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact April Nordenstrom at (760) 384-5511. Requests must be made as early as possible and at least one full business day before the start of the meeting. Documents and material relating to an open session agenda items that are provided to the IWVGA Board of Directors prior to a regular meeting will be available for public inspection and copying at Indian Wells Valley Water District, 500 Ridgecrest Blvd, Ridgecrest, CA 93555, or online at <https://iwvga.org/>.

Statements from the Public

The public will be allowed to address the Board during Public Comments about subjects within the jurisdiction of the IWVGA Board and that are NOT on the agenda. No action may be taken on off-agenda items unless authorized by law. Questions posed to the Board may be answered after the meeting or at future meeting. Dialog or extended discussion between the public and the Board or staff will be limited in accordance with the Brown Act. The Public Comments portion of the meeting shall be limited to three (3) minutes per speaker. Each person is limited to one comment during Public Comments.

1. CALL TO ORDER

2. PUBLIC COMMENTS ON CLOSED SESSION

This time is reserved for the public to address the Board about matters NOT on the agenda. No action will be taken on non-agenda items unless authorized by law. Comments are limited to three minutes per person.

3. CLOSED SESSION

- CONFERENCE WITH LEGAL COUNSEL - POTENTIAL LITIGATION
(Government Code Section 54956.9(d)(2)(e)(1)) Number of cases: One (1) Significant exposure to litigation in the opinion of the Board of Directors on the advice of legal counsel, based on: Facts and circumstances that might result in litigation against the IWVGA but which are not yet known to a potential plaintiff or plaintiffs, which facts and circumstances need not be disclosed.

4. OPEN SESSION - 11:00 a.m.

- a. Report on Closed Session
- b. Pledge of Allegiance
- c. Roll Call

5. PUBLIC COMMENTS

This time is reserved for the public to address the Board about matters NOT on the agenda. No action will be taken on non-agenda items unless authorized by law. Comments are limited to three minutes per person.

6. CONSENT AGENDA

- a. Approve Minutes of Board Meeting December 19, 2019
- b. Approve Expenditures
 - i. \$65,929.11 - Stetson Engineers
 - i. \$216.00 - Annual IWVGA Website Renewal and \$60.00 Domain name renewal (iwvga.net, iwvga.org, iwvga.com) – Squarespace, Reimbursable to IWVWD

7. PUBLIC HEARING PURSUANT TO WATER CODE SECTION 10728.4 TO CONSIDER ADOPTION OF THE INDIAN WELLS VALLEY GROUNDWATER BASIN GROUNDWATER SUSTAINABILITY PLAN

8. PRESENTATION ON READINESS AND ENVIRONMENTAL PROTECTION INTEGRATION (REPI) PROGRAM

9. WATER RESOURCES MANAGER (WRM) REPORT

- a. Report on Proposition 1 Grant Status
- b. Severely Disadvantaged Communities (SDAC) Programs Update
- c. Proposition 68 Grant Status Update

10. GROUNDWATER SUSTAINABILITY REPORT – WATER RESILIENCY AND REQUEST FOR FUNDING CONSIDERATION NAVAL AIR WEAPONS STATION CHINA LAKE, CALIFORNIA

11. GENERAL MANAGER’S REPORT

- a. Monthly Financial Report
- b. Well Registration Update

12. CLOSING COMMENTS

This time is reserved for comments by Board members and/or staff and to identify matters for future Board business

13. DATE AND TIME OF NEXT MEETING – February 20, 2020

14. ADJOURN

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INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

City of Ridgecrest, Indian Wells Valley Water District, Inyo County, Kern County, San Bernardino County

BOARD OF DIRECTORS MEETING MINUTES

Thursday, December 19; 10:00 a.m.

IWVGA Members Present:

| | |
|--|--|
| Chairman Ron Kicinski, IWVWD | Don Zdeba, IWVGA General Manager |
| John Vallejo, Inyo County | James Worth, Legal Counsel |
| Mick Gleason, Kern County | Steve Johnson, Stetson Engineers |
| Scott Hayman, City of Ridgecrest | Commander Peter Benson, US Navy, DoD Liaison |
| Thomas Bickauskas, Bureau of Land Management | Lauren Duffy, Clerk of the Board |
| Bob Page, San Bernardino County | |

Meeting recording and public comment letters submitted are made available at:

<https://iwvga.org/iwvga-meetings/>

1. CALL TO ORDER:

The meeting is called to order by Chairman Kicinski at 10:02 a.m.

2. PUBLIC COMMENTS ON CLOSED SESSION:

None.

Chairman Kicinski calls the meeting into Closed Session at 10:02 a.m.

3. CLOSED SESSION:

- CONFERENCE WITH LEGAL COUNSEL - POTENTIAL LITIGATION (Government Code Section 54956.9(d)(2)(e)(1)) Number of cases: One (1) Significant exposure to litigation in the opinion of the Board of Directors on the advice of legal counsel, based on: Facts and circumstances that might result in litigation against the IWVGA but which are not yet known to a potential plaintiff or plaintiffs, which facts and circumstances need not be disclosed.

4. OPEN SESSION:

Meeting was reconvened into Open Session at 11:05 a.m.

- a. Report on Closed Session:
Jim Worth reported that no action was taken which would require disclosure under the Brown Act.
- b. The Pledge of Allegiance is led by Vice Chair Gleason.
- c. Ron Kicinski asks for a moment of silence to recognize the passing of TAC Member Earl Wilson.
- d. April Nordenstrom calls the following roll call:

| | |
|--------------------|---------|
| Director Vallejo | Present |
| Director Hayman | Present |
| Chairman Kicinski | Present |
| Director Page | Present |
| Vice Chair Gleason | Present |

5. PUBLIC COMMENTS:

The Board hears public comments from Sophia Merk and John Kinnect.

6. CONSENT AGENDA:

- a. Approve Minutes of Board Meeting November 21, 2019
- b. 2020 Meeting Dates – 3rd Thursday of every month
- c. Appointment of April Nordenstrom as Clerk of the Board
- d. Approval of Resolution No. 09-19 Appointing Jade Zimmerman as TAC representative for U.S Navy, DoD Liaison
- e. Approve Expenditures
 - i. \$13,226.22 - RWG LAW
 - ii. \$33,064.02 - DRI
 - iii. \$183,634.49 – Stetson Engineers
 - iv. \$80.36 – The Daily Independent

Motion made by Scott Hayman and seconded by Mick Gleason to approve Minutes of Board Meeting November 21, 2019, 2020 meeting dates, appointment of April Nordenstrom as Clerk of the Board, approval of Resolution 09-19, and the following expenditures in the amount of \$13,226.22 to RWG Law, \$33,064.02 to DRI, \$183,634.49 to Stetson Engineers, \$80.36 to The Daily Independent. Motion unanimously carries by the following vote: (Ayes: Gleason, Hayman, Kicinski, Page, Vallejo. Nays: None. Abstain: None.)

Chairman Kicinski notes there will be an edit made to Resolution 09-19, changing section 2.2 to reflect Technical Advisory not Policy Advisory.

Motion made by Scott Hayman and seconded by Mick Gleason to adopt Resolution 09-19. Motion unanimously carries by the following roll call vote.

| | |
|--------------------|-----|
| Director Vallejo | Aye |
| Director Hayman | Aye |
| Chairman Kicinski | Aye |
| Director Page | Aye |
| Vice Chair Gleason | Aye |

7. UPDATE ON IWVGA FINANCES:

- a. Monthly Financial Report

Don Zdeba provides a report on the IWVGA finances (made available on the IWVGA website). The current account balance is \$48,170.00, which will be used to pay the invoices listed under the consent agenda, not including Stetson (combined with deferred August invoice, amount owed is now \$286,289.03). Once payments are made, the balance remaining will be \$1,799.40. Reimbursement for the 3rd invoice submittal should be received within the next 30 days.

Steve Johnson explains the Stetson invoice submitted was high due to the extensive fieldwork that has been done. Any costs associated with that fieldwork will be covered under Prop 1. He further states any receipts in question will be removed from the invoice packet.

8. BOARD TO RECEIVE AND FILE IWVGA GSP DEVELOPMENT AND 2020 POST GSP IMPLEMENTATION PRO-FORMAS:

Don Zdeba reports on the 2020 Pro-formas (made available on the IWVGA website). The 2020 GSP Development Pro-forma still reflects the \$30/acre ft. and certain administrative costs have been removed. Zdeba points out the footnote at the bottom of the page, which explains there may be expense adjustments for work done in 2019 based on further classification as Pre or Post GSP Development costs. As well, Zdeba brings attention to the top three lines under expenses, reflecting the reimbursements to Kern County (\$500,000), City of Ridgecrest (\$210,466), and the advance from

Indian Wells Valley Water District (\$500,000). The GSP Development Pro-forma reflects a positive balance of \$80,245 by the end of 2020. Zdeba states there is no revenue shown in the 2020 Post-GSP Implementation Budget due to the uncertainty regarding increase of the current extraction fee, or new fees going forward. Staff recommends the Board receive and file the current Pro-formas with the understanding that as fees are approved and implemented, updated versions of the Pro-formas will be brought to the Board.

Chairman Kicinski expresses concerns with the ability to finance the Severely Disadvantaged Communities (SDAC) Program. He further questions the timeframe allowed by the state to start working on these projects. Jim Worth responds, a letter requesting an extension will be filed by the end of the week with Department of Water Resources (DWR), however it is uncertain of how long it may take to hear back from them. Steve Johnson adds that DWR has informally approved an extension for longer than the IWVGA has requested. DWR will send a formal approval once the letter of extension has been received.

Director Page clarifies thoughts of the existing extraction fee including both GSP development and administrative costs. Jim Worth answers that the existing extraction fee does include general administrative costs that supported GSP development. Page further questions if the beginning balances shown assume all administrative costs up until the end of the year. Zdeba responds that all administrative costs up until GSP adoption will be covered by the current extraction fee. Page further notes that the Pro-forma does not include water marketing. Zdeba confirms that it does not.

Dave Janiec, Policy Advisory Committee (PAC) Chair, states that at the previous month's meeting the possibility of having a PAC meeting regarding increase to the existing pumping fee was mentioned, however, the Pro-formas do not supply enough detail to make a recommendation. Kicinski agrees and pushes PAC to February.

The Board hears public comment from Sophia Merk

9. WATER RESOURCES MANAGER REPORT:

Steve Johnson provides updates on the following grants/programs; (presentations made available on the IWVGA website)

- a. Report on Proposition 1 Grant Status:
Invoice #3 was submitted November 21, and there have been no further comments received from Department of Water Resources (DWR). Johnson states the PowerPoint presentation reflects invoice #4 covering April 2019 – June 2019, however that is a typo and should have reflected coverage for the months of July 2019 – September 2019.
- b. Severely Disadvantaged Communities (SDAC) Program:
Tentatively approved for a one-year extension and consultants may be retained after Grant Agreement is both modified and approved. Johnson shares concern with cashflow; however, he urges this is an important project for the GSP implementation and once approved it is 100% funded through state grants. Johnson states they will update the Board once they hear back from the state.
- c. Groundwater Sustainability Plan (GSP) Update:
Johnson states that all public comment/review is due no later than January 8, 2020. Public Hearing and Adoption of the GSP will be held on January 16, 2020 with a final submission to DWR on January 24, 2020.
- d. Proposition 68 Grant Status:
Submitted November 14, 2019 with a predicted payout in March 2020. Grant funding request was \$753,900 and will cover various projects going forward, as well as some past costs.

The Board hears public comment from Renee Westa-lusk.

10. UPDATE ON OUTREACH EFFORTS:

Don Zdeba shares that both he and Chairman Kicinski have been invited to address the Democratic Club on Saturday, December 21.

The Board hears public comment from Judie Decker.

11. GENERAL MANAGER'S REPORT:

a. Report on IWVGA's Water Marketer (Capitol Core Group)

Don Zdeba provides a summary of CCG's Technical Memorandum. Most of their efforts have been set towards the Defense Community Infrastructure Program (DCIP). Dave Janiec explains the House of Representatives recently approved a \$50,000,000 Defense Appropriations Budget, that is now in the process of being approved by the Senate. Janiec further expresses that the level of competition for this grant funding will be challenging as it is nationwide. Zdeba states that he will discuss with staff how best to approach DCIP work for CCG going forward.

b. Well Registration Update

Non de minimis – 4

De minimis – 81

The board hears public comment from Mallory Boyd

12. CLOSING COMMENTS :

Chairman Kicinski recognizes Lauren Duffy, for all her hard work during her time as Clerk of the Board for the IWVGA and welcomes April Nordenstrom as the new Clerk. Kicinski thanks Staff, PAC, and TAC, for all their efforts and time committed to the IWVGA. Kicinski thanks the public for comments received on the draft GSP and assures them they are going to solve this problem the best way possible.

Vice Chair Gleason suggests the Board revisit a past decision to keep Don Zdeba as the IWVGA General Manager, due to recent legal proceedings that have been filed against the IWVWD. Gleason expresses concerns with conflict of interest and feels Board and Staff need to look further into an independent general manager.

Director Vallejo concurs with Vice Chair Gleason and suggests Board discussion on what an independent administration looks like going forward.

13. DATE AND TIME OF NEXT MEETING – January 16, 2020; 10:00 a.m.

With no further Board or Public comment, the meeting is reconvened into Closed Session at 11:57 a.m.

14. CLOSED SESSION:

The meeting is called back into open session.

No action is taken which would require disclosure under the Brown Act.

15. ADJOURN:

Vice Chair Gleason adjourned the meeting at 1:30 p.m.

Respectfully submitted,

April Nordenstrom

Clerk of the Board
Indian Wells Valley Groundwater Authority

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Invoice

County of Kern
 County Administrative Office
 1115 Truxton Ave., 5th Floor
 Bakersfield, CA 93301
 ATTN.: Mr. Alan Christensen

Invoice Number: 2652-28
Invoice Date: 01/09/20

Project #: 2652 **Indian Wells Valley Groundwater Authority**

Professional Services through 11/30/2019

Water Resources Management

01 - POAM No. 134 Prep & Attend Board, PAC & TAC Mtgs/Consult w/ Authority & Co

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|--------------------|
| Principal | 38.00 | \$230.00 | \$8,740.00 |
| Supervisor I | 23.00 | \$200.00 | \$4,600.00 |
| Senior I | 0.50 | \$160.00 | \$80.00 |
| Senior Associate | 24.50 | \$120.00 | \$2,940.00 |
| Associate III | 3.50 | \$105.00 | \$367.50 |
| <i>Professional Services Subtotal:</i> | | | <u>\$16,727.50</u> |
| Reimbursables | | | <u>Charge</u> |
| Lodging | | | \$417.67 |
| Mileage | | | \$450.08 |
| <i>Reimbursables Subtotal:</i> | | | <u>\$867.75</u> |
| <i>'OAM No. 134 Prep & Attend Board, PAC & TAC Mtgs/Consult w/ Authority & Com</i> | | | <u>\$17,595.25</u> |

02.01 - POAM No. 15,16 Prop 1 Grant Administration

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|---|-------------------|------------------|-------------------|
| Principal | 1.00 | \$230.00 | \$230.00 |
| Senior Associate | 26.75 | \$120.00 | \$3,210.00 |
| Associate III | 1.50 | \$105.00 | \$157.50 |
| Administrative II | 15.00 | \$65.00 | \$975.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$4,572.50</u> |
| Reimbursables | | | <u>Charge</u> |
| Reproduction | | | \$5.25 |
| <i>Reimbursables Subtotal:</i> | | | <u>\$5.25</u> |
| <i>POAM No. 15,16 Prop 1 Grant Administration Subtotal:</i> | | | <u>\$4,577.75</u> |

03 - POAM No. 31,38 Review of Basin GW Model - GSP Compliance/Prep HCM

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-----------------|
| Supervisor I | 3.00 | \$200.00 | \$600.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$600.00</u> |
| <i>POAM No. 31,38 Review of Basin GW Model - GSP Compliance/Prep HCM Subtotal:</i> | | | <u>\$600.00</u> |

04.02 - POAM No. 20 Data Management System

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Associate I | 3.50 | \$115.00 | \$402.50 |
| Assistant I | 21.25 | \$95.00 | \$2,018.75 |
| <i>Professional Services Subtotal:</i> | | | <u>\$2,421.25</u> |



POAM No. 20 Data Management System Subtotal: \$2,421.25

05 - POAM No. 126 Project Management Costs & Schedule

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Principal | 7.50 | \$230.00 | \$1,725.00 |
| Supervisor I | 2.00 | \$200.00 | \$400.00 |
| Senior Associate | 14.75 | \$120.00 | \$1,770.00 |
| Associate III | 2.00 | \$105.00 | \$210.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$4,105.00</u> |

POAM No. 126 Project Management Costs & Schedule Subtotal: \$4,105.00

05A - POAM No. 125 POAM

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Principal | 7.00 | \$230.00 | \$1,610.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$1,610.00</u> |

POAM No. 125 POAM Subtotal: \$1,610.00

07 - POAM No. 82 IWVGW Basin Oppty & Constraints for Alt Imported Water Suppli

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-----------------|
| Associate III | 5.00 | \$105.00 | \$525.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$525.00</u> |

POAM No. 82 IWVGW Basin Oppty & Constraints for Alt Imported Water Supplies \$525.00

07.01 - Imported Water RFP

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Principal | 4.50 | \$230.00 | \$1,035.00 |
| <i>Professional Services Subtotal:</i> | | | <u>\$1,035.00</u> |

Imported Water RFP Subtotal: \$1,035.00

08 - POAM No. 98 GSP Report - Prep Intro Chapter

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Supervisor I | 2.00 | \$200.00 | \$400.00 |
| Associate III | 8.25 | \$105.00 | \$866.25 |
| <i>Professional Services Subtotal:</i> | | | <u>\$1,266.25</u> |

POAM No. 98 GSP Report - Prep Intro Chapter Subtotal: \$1,266.25

08.01 - POAM No. 106 Executive Summary

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-----------------|
| Associate III | 8.50 | \$105.00 | \$892.50 |
| <i>Professional Services Subtotal:</i> | | | <u>\$892.50</u> |

POAM No. 106 Executive Summary Subtotal: \$892.50

08.05.01 - Pumping Allocation

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--|-------------------|------------------|-------------------|
| Principal | 4.00 | \$230.00 | \$920.00 |
| Supervisor I | 4.50 | \$200.00 | \$900.00 |
| Senior Associate | 1.00 | \$120.00 | \$120.00 |
| Associate III | 0.75 | \$105.00 | \$78.75 |
| <i>Professional Services Subtotal:</i> | | | <u>\$2,018.75</u> |

Pumping Allocation Subtotal: \$2,018.75

08.08 - POAM No. 107 Develop Draft

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|---------------|
|------------------------------|-------------------|------------------|---------------|



08.08 - POAM No. 107 Develop Draft

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|---|
| Principal | 3.00 | \$230.00 | \$690.00 |
| Supervisor I | 18.50 | \$200.00 | \$3,700.00 |
| Senior I | 0.25 | \$160.00 | \$40.00 |
| Associate III | 13.00 | \$105.00 | \$1,365.00 |
| Administrative II | 0.50 | \$65.00 | \$32.50 |
| | | | Professional Services Subtotal: \$5,827.50 |
| | | | POAM No. 107 Develop Draft Subtotal: \$5,827.50 |

10 - POAM No. 138 Stakeholder/SWR Coordination for GSP

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|---|
| Supervisor I | 11.50 | \$200.00 | \$2,300.00 |
| Senior Associate | 52.00 | \$120.00 | \$6,240.00 |
| GIS Manager | 15.00 | \$115.00 | \$1,725.00 |
| Associate III | 41.00 | \$105.00 | \$4,305.00 |
| Assistant I | 0.50 | \$95.00 | \$47.50 |
| Technical Illustrator | 3.50 | \$85.00 | \$297.50 |
| | | | Professional Services Subtotal: \$14,915.00 |
| | | | POAM No. 138 Stakeholder/SWR Coordination for GSP Subtotal: \$14,915.00 |

11.01 - POAM No. 56 Monitoring Wells - Planning

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|--|
| Supervisor I | 6.00 | \$200.00 | \$1,200.00 |
| GIS Manager | 5.25 | \$115.00 | \$603.75 |
| Assistant I | 32.25 | \$95.00 | \$3,063.75 |
| | | | Professional Services Subtotal: \$4,867.50 |
| | | | POAM No. 56 Monitoring Wells - Planning Subtotal: \$4,867.50 |

11.06 - POAM No. 74 Water Quality & Stable Isotope Sampling

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|---|
| Supervisor I | 1.00 | \$200.00 | \$200.00 |
| Associate I | 8.00 | \$115.00 | \$920.00 |
| Associate II | 11.00 | \$110.00 | \$1,210.00 |
| Assistant I | 20.25 | \$95.00 | \$1,923.75 |
| | | | Professional Services Subtotal: \$4,253.75 |
| Reimbursables | | | <u>Charge</u> |
| Laboratory / Testing | | | \$8,796.00 |
| Overnight Mail | | | \$297.61 |
| | | | Reimbursables Subtotal: \$9,093.61 |
| | | | POAM No. 74 Water Quality & Stable Isotope Sampling Subtotal: \$13,347.36 |

14 - POAM No. 139 Pumping Assessment Support

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|--|
| Senior Associate | 2.50 | \$120.00 | \$300.00 |
| | | | Professional Services Subtotal: \$300.00 |
| | | | POAM No. 139 Pumping Assessment Support Subtotal: \$300.00 |

16 - Brackish Water Study Coordination

| Professional Services | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|------------------------------|-------------------|------------------|---------------|
| Supervisor I | 1.00 | \$200.00 | \$200.00 |



16 - Brackish Water Study Coordination

Professional Services Subtotal: \$200.00
Brackish Water Study Coordination Subtotal: \$200.00

20 - Prop 68 Grant Application

Professional Services

| | <u>Bill Hours</u> | <u>Bill Rate</u> | <u>Charge</u> |
|--------------|-------------------|------------------|---------------|
| Principal | 2.00 | \$230.00 | \$460.00 |
| Supervisor I | 3.00 | \$200.00 | \$600.00 |
| Senior I | 19.50 | \$160.00 | \$3,120.00 |

Professional Services Subtotal: \$4,180.00

Prop 68 Grant Application Subtotal: \$4,180.00

***Water Resources Management Subtotal:* \$80,284.11**

Retainer Applied: (\$14,355.00)

***** Invoice Total ***** **\$65,929.11**



REIMBURSABLE SUMMARY

County of Kern
 County Administrative Office
 1115 Truxtun Ave., 5th Floor
 Bakersfield CA 93301
 ATTN.: Mr. Alan Christensen

Invoice Number: 2652-28
Invoice Date: 01/09/20

Project #: 2652 **Indian Wells Valley Groundwater Authority**
 Manager: Stephen Johnson
 Professional Services through 11/30/2019

Water Resources Management

01 - POAM No. 134 Prep & Attend Board,PAC & TAC Mtgs/Consult w/ Authority & Committees to Dev GSP

Reimbursables

| Description | Date | Units | Unit Rate | Charge | Notes |
|-------------|------------|--------|-----------|----------|-------|
| Lodging | 11/07/2019 | 1.00 | \$417.67 | \$417.67 | |
| Mileage | 11/07/2019 | 280.00 | \$0.58 | \$162.40 | |
| Mileage | 11/07/2019 | 216.00 | \$0.58 | \$125.28 | |
| Mileage | 11/21/2019 | 280.00 | \$0.58 | \$162.40 | |

POAM No. 134 Prep & Attend Board,PAC & TAC Mtgs/Consult w/ Auth **\$867.75**

02.01 - POAM No. 15,16 Prop 1 Grant Administration

Reimbursables

| Description | Date | Units | Unit Rate | Charge | Notes |
|--------------|------------|-------|-----------|--------|-------|
| Reproduction | 11/30/2019 | 35.00 | \$0.15 | \$5.25 | |

POAM No. 15,16 Prop 1 Grant Administration Sub-Total: **\$5.25**

11.06 - POAM No. 74 Water Quality & Stable Isotope Sampling

Reimbursables

| Description | Date | Units | Unit Rate | Charge | Notes |
|----------------------|------------|-------|------------|------------|-------|
| Laboratory / Testing | 11/04/2019 | 1.00 | \$1,500.00 | \$1,500.00 | |
| Overnight Mail | 11/05/2019 | 1.00 | \$108.42 | \$108.42 | |
| Overnight Mail | 11/05/2019 | 1.00 | \$189.19 | \$189.19 | |
| Laboratory / Testing | 11/07/2019 | 1.00 | \$2,540.00 | \$2,540.00 | |
| Laboratory / Testing | 11/07/2019 | 1.00 | \$2,796.00 | \$2,796.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$150.00 | \$150.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$150.00 | \$150.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$1,200.00 | \$1,200.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$160.00 | \$160.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$150.00 | \$150.00 | |
| Laboratory / Testing | 11/11/2019 | 1.00 | \$150.00 | \$150.00 | |

POAM No. 74 Water Quality & Stable Isotope Sampling Sub-Total: **\$9,093.61**



| | | | |
|--------------------------------------|-------------------------------------|--------------------------------------|-----------------------|
| Invoice Number 6-839-46453 | Invoice Date Nov 15, 2019 | Account Number 1120-7190-3 | Page 3 of 7 |
|--------------------------------------|-------------------------------------|--------------------------------------|-----------------------|

Ship Date: Nov 05, 2019
Payor: Third Party

Cust. Ref.: NO REFERENCE INFORMATION
Ref.#3:

Ref.#2:

2657-001:11.06

- Fuel Surcharge - FedEx has applied a fuel surcharge of 7.50% to this shipment.
- Distance Based Pricing, Zone 4
- Package sent from: 92054 zip code
- FedEx has audited this shipment for correct packages, weight, and service. Any changes made are reflected in the invoice amount.
- We calculated your charges based on a dimensional weight of 9.0 lbs, 13 in x 10 in x 9 in, using a dimensional factor of 139.

| | | | | |
|----------------------|--------------------------|---|--------------------------------|-----------------|
| Automation | SSFO | Sender | Recipient | |
| Tracking ID | 780761418170 | Stetson Engineers | Dept. Plant Sciences | |
| Service Type | FedEx Priority Overnight | 2171 FRANCISCO BLVD E STE K | UC Davis Stable Isotope Facili | |
| Package Type | Customer Packaging | SAN RAFAEL CA 94901 US | 387 N Quad Ave Room 1210 | |
| Zone | 04 | | DAVIS CA 95616 US | |
| Packages | 1 | | | |
| Actual Weight | 8.0 lbs, 3.6 kgs | Transportation Charge | | 100.78 |
| Rated Weight | 9.0 lbs, 4.1 kgs | Discount | | -6.05 |
| Delivered | Nov 06, 2019 10:27 | Automation Bonus Discount | | -5.04 |
| Svc Area | A2 | Fuel Surcharge | | 6.73 |
| Signed by | N.WALKER | Additional Handling Charge - Package | | 12.00 |
| FedEx Use | 00000000/1530/_ | Total Charge | USD | \$108.42 |

Ship Date: Nov 05, 2019
Payor: Third Party

Cust. Ref.: NO REFERENCE INFORMATION
Ref.#3:

Ref.#2:

2657-001:11.06

- Fuel Surcharge - FedEx has applied a fuel surcharge of 7.50% to this shipment.
- Distance Based Pricing, Zone 4
- Package sent from: 92054 zip code

| | | | | |
|---------------------|--------------------------|---|-------------------------------|-----------------|
| Automation | SSFO | Sender | Recipient | |
| Tracking ID | 780761491183 | Stetson Engineers | Attn: Jennifer Shim | |
| Service Type | FedEx Priority Overnight | 2171 FRANCISCO BLVD E STE K | Accelerator Mass Spectrometry | |
| Package Type | Customer Packaging | SAN RAFAEL CA 94901 US | 1118 East Fourth St | |
| Zone | 04 | | TUCSON AZ 85721 US | |
| Packages | 1 | | | |
| Rated Weight | 25.0 lbs, 11.3 kgs | Transportation Charge | | 185.20 |
| Delivered | Nov 06, 2019 09:16 | Discount | | -11.11 |
| Svc Area | A1 | Automation Bonus Discount | | -9.26 |
| Signed by | K.VALDEZ | Fuel Surcharge | | 12.36 |
| FedEx Use | 00000000/1530/_ | Additional Handling Charge - Package | | 12.00 |
| | | Total Charge | USD | \$189.19 |

NO REFERENCE INFORMATION Reference Subtotal USD \$372.95

Ship Date: Oct 22, 2019
Payor: Shipper

Cust. Ref.: 01-SPARKS(1526)
Ref.#3:

Ref.#2:

- Fuel Surcharge - FedEx has applied a fuel surcharge of 7.50% to this shipment.
- Distance Based Pricing, Zone 5
- FedEx has audited this shipment for correct packages, weight, and service. Any changes made are reflected in the invoice amount.

| | | | | |
|---------------------|--------------------------|----------------------------------|---------------------------|-----------------|
| Automation | INET | Sender | Recipient | |
| Tracking ID | 776787358936 | Allan Richards - 23 | Joe Sparks, Esq. | |
| Service Type | FedEx Standard Overnight | Stetson Engineers, Inc | The Sparks Law Firm, P.C. | |
| Package Type | Customer Packaging | 2171 Francisco Blvd E | 7503 E 1ST ST | |
| Zone | 05 | SAN RAFAEL CA 94901 US | SCOTTSDALE AZ 85251 US | |
| Packages | 1 | | | |
| Rated Weight | 26.0 lbs, 11.8 kgs | Transportation Charge | | 202.75 |
| Delivered | Oct 23, 2019 11:57 | Discount | | -12.17 |
| Svc Area | A1 | Automation Bonus Discount | | -10.14 |
| Signed by | M.AUSTIN | Fuel Surcharge | | 13.53 |
| FedEx Use | 00000000/1349/_ | Total Charge | USD | \$193.97 |

Ship Date: Oct 22, 2019
Payor: Shipper

Cust. Ref.: 01-SPARKS(1526)
Ref.#3:

Ref.#2:

- Fuel Surcharge - FedEx has applied a fuel surcharge of 7.50% to this shipment.
- Distance Based Pricing, Zone 5
- FedEx has audited this shipment for correct packages, weight, and service. Any changes made are reflected in the invoice amount.

| | | | | |
|---------------------|--------------------------|------------------------|---------------------------|--|
| Automation | INET | Sender | Recipient | |
| Tracking ID | 776787358970 | Allan Richards - 23 | Joe Sparks, Esq. | |
| Service Type | FedEx Standard Overnight | Stetson Engineers, Inc | The Sparks Law Firm, P.C. | |
| Package Type | Customer Packaging | 2171 Francisco Blvd E | 7503 E 1ST ST | |
| Zone | 05 | SAN RAFAEL CA 94901 US | SCOTTSDALE AZ 85251 US | |
| Packages | 1 | | | |

Continued on next page

Your booking is confirmed!

CONFIRMATION

Itinerary Number: 19815098287



1 King Bed Non-Smoking

1 king bed - nonsmoking...

[Read More](#)

Swimming Pool

Pay Now

\$169 per night

[Cancellation Policy](#)

Check-In:

Thursday, Nov 7, 2019

Check-Out:

Friday, Nov 8, 2019

Night:

1

Guests:

Stephen B. Johnson, 1 Adult, 0 Children

Jeff Helsley, 1 Adult, 0 Children

Rooms:

2

Description:

Property Location

Located in Ridgecrest, Hampton Inn and Suites Ridgecrest is in the business district, within a 5-minute drive of Maturango Museum and Leroy Jackson Park Sports Complex. This hotel is...

[Read More](#)

Customer Name:

Sharon Johnson

Customer Email:

sharonj@stetsonengineers.com

Customer Phone:

6269676202

Subtotal:

\$338.00

Taxes & Fees:

\$71.68

Service Fee:

\$7.99

Total Cost:

\$417.67

Billing Name:

Sharon Johnson

CC Type:

Visa



The University of Arizona
 University of Arizona AMS Facility
 Department of Physics
 1118 E. Fourth Street
 Tucson, AZ 85721-0081
 Tel: 520-621-6810

Invoice

| | |
|-----------|-----------|
| Date | Invoice # |
| 11/7/2019 | #2991 |
| P.O. No. | Due Date |
| | 12/7/2019 |

| |
|--|
| Bill To |
| Joel Barnard Stetson Engineers Inc. 2171 E. Francisco Blvd. Suite K San Rafael, CA |

CONTACT INFO
 Technical Questions:
 ghodgins@email.arizona.edu
 Billing Questions:
 ghodgins@email.arizona.edu
 Payment Questions:
 sss1@email.arizona.edu

| Serviced | Description | Quantity | Rate | Unit | Amount |
|-----------|---------------------------|----------|--------|------|----------|
| 11/7/2019 | AA113956 - AA113958 (DIC) | 3 | 508.00 | each | 1,524.00 |
| 11/7/2019 | AA113959 - AA113960 (DOC) | 2 | 636.00 | each | 1,272.00 |

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT
 A/P #: _____
 DATE: 11/19/19
 JOB #: 2652-00111.06
 SIG.: JB

For internal UA customers paying by Internal Billing, please credit account 2484500.
 Please reference the invoice number above on your payment.
 see payment methods and their instructions below:

| | |
|-------------------------|------------|
| Total | \$2,796.00 |
| Payments/Credits | \$0.00 |
| Balance Due | \$2,796.00 |

Wire Transfer Info:
 Wells Fargo Bank, N.A.
 420 Montgomery Street,
 San Francisco, CA 94104
 ABA #: 121000248
 Swift Code: WFBIUS6S
 DUNS #: 80-634-5617
 Account #: 0529788309
 UA Tax ID: 74-2652689
 Reference: KFS 2484510

Credit Card Payments:
 Go To:
<https://ams.arizona.edu/portal/simplepayment/>
 1) Please reference the Invoice number found on top
 right of invoice

Check Payments:
 1) Make check payable to The
 University of Arizona
 2) Send check to:
 Physics Department Business Office
 1118 East Fourth Street
 PAS Building 236
 Tucson, AZ 85721

Invoice



The University of Arizona
 University of Arizona AMS Facility
 Department of Physics
 1118 E. Fourth Street
 Tucson, AZ 85721-0081
 Tel: 520-621-6810

| | |
|-----------|-----------|
| Date | Invoice # |
| 11/7/2019 | #3033 |
| P.O. No. | Due Date |
| | 12/7/2019 |

| |
|--|
| Bill To |
| Joel Barnard Stetson Engineers Inc. 2171 E. Francisco Blvd. Suite K San Rafael, CA |

CONTACT INFO
 Technical Questions:
 ghodgins@email.arizona.edu
 Billing Questions:
 ghodgins@email.arizona.edu
 Payment Questions:
 sss1@email.arizona.edu

| Serviced | Description | Quantity | Rate | Unit | Amount |
|--|---------------------------|----------|--------|------|----------|
| 11/7/2019 | AA114046 - AA114050 (DIC) | 5 | 508.00 | each | 2,540.00 |
| <p>STETSON ENGINEERS INC. APPROVED FOR PAYMENT A/P #: _____ DATE: <u>11/19/19</u> JOB #: <u>2652-001</u> : 11.06 SIG.: <u>[Signature]</u></p> | | | | | |

For internal UA customers paying by Internal Billing, please credit account 2484500.
 Please reference the invoice number above on your payment.
 see payment methods and their instructions below:

| | |
|-------------------------|------------|
| Total | \$2,540.00 |
| Payments/Credits | \$0.00 |
| Balance Due | \$2,540.00 |

Wire Transfer Info:
 Wells Fargo Bank, N.A.
 420 Montgomery Street,
 San Francisco, CA 94104
 ABA #: 121000248
 Swift Code: WFBIUS6S
 DUNS #: 80-634-5617
 Account #: 0529788309
 UA Tax ID: 74-2652689
 Reference: KFS 2484510

Credit Card Payments:
 Go To:
<https://ams.arizona.edu/portal/simplepayment/>
 1) Please reference the Invoice number found on top
 right of invoice

Check Payments:
 1) Make check payable to The
 University of Arizona
 2) Send check to:
 Physics Department Business Office
 1118 East Fourth Street
 PAS Building 236
 Tucson, AZ 85721



Laboratories, Inc.
Environmental Testing Laboratory Since 1949

RECEIVED
STETSON ENGINEERS, INC.

DEC 12 2019

Invoice No.
B362603

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT
A/P #:
DATE: 12/18/19 Page 1 of 2
JOB #: 2652-001.11.06

Invoice SAN RAFAEL

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 12/06/19

Lab Number: 1937324

Submitted On: 11/04/19

Submitted By:

Payment Due: 01/05/20

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|---|-------|---------|----------|
| | 1937324 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1937324-01 USBR-01 S/M, 10/29/2019 10:31:00 AM | | | |
| | 1937324-02 USBR-03 S, 10/29/2019 2:16:00 PM | | | |
| | 1937324-03 USBR-04, 10/30/2019 3:50:00 PM | | | |
| | 1937324-04 Baker Range, 10/31/2019 8:45:00 AM | | | |
| | 1937324-05 25S/39E-5K01, 10/31/2019 9:40:00 AM | | | |
| | 1937324-06 Sandquist Spa, 10/31/2019 10:10:00 AM | | | |
| | 1937324-07 George Air Corridor, 10/31/2019 1:35:00 PM | | | |
| | 1937324-08 Charley Tower, 10/31/2019 3:10:00 PM | | | |
| | 1937324-09 25S/38E-3B1, 11/1/2019 9:55:00 AM | | | |
| | 1937324-10 AB303-05, 11/1/2019 11:55:00 AM | | | |
| 10 | Water: Hardness (Dissolved) - (Samples 1937324-01 to 10) | 201 | \$0.00 | \$0.00 |
| 10 | Water: Total Anions - (Samples 1937324-01 to 10) | 201 | \$0.00 | \$0.00 |
| 9 | Water: Total Cations (Dissolved) - (Samples 1937324-01 to 08, 10) | 201 | \$0.00 | \$0.00 |
| 10 | Water: Balance Check TRM - (Samples 1937324-01 to 10) | 201 | \$0.00 | \$0.00 |
| 10 | Water: EPA 120.1 - EC - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 180.1 - Turbidity - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 200.7 - Dissolved Calcium, ICP - (Samples 1937324-01 to 10) | 207 | \$10.00 | \$100.00 |
| 10 | Water: EPA 200.7 - Dissolved Magnesium, ICP - (Samples 1937324-01 to 10) | 207 | \$10.00 | \$100.00 |
| 10 | Water: EPA 200.7 - Dissolved Potassium, ICP - (Samples 1937324-01 to 10) | 207 | \$10.00 | \$100.00 |
| 10 | Water: EPA 200.7 - Dissolved Sodium, ICP - (Samples 1937324-01 to 10) | 207 | \$10.00 | \$100.00 |
| 10 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |

Please refer to the invoice number above when making your payment

Printed 12/6/2019 6:52:45AM



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 12/06/19

Lab Number: 1937324

Submitted On: 11/04/19

Submitted By:

Payment Due: 01/05/20

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|------------|
| 10 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1937324-01 to 10) | 201 | \$10.00 | \$100.00 |
| 10 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1937324-01 to 10) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$1,500.00 |

Please Pay This Amount \$1,500.00

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
Accounts past due may be charged a 1.5% service fee per month until paid in full.



NOV 15 2019

Invoice SAN RAFAEL

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/2019
Lab Number: 1934335
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/2019
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|----------|
| | 1934335 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1934335-01 Demay Well, 10/5/2019 12:45:00 PM | | | |
| 1 | Water: Hardness (TRM) - (Samples 1934335-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Anions - (Samples 1934335-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Balance Check TRM - (Samples 1934335-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: EPA 150.1 - pH - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 180.1 - Turbidity - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934335-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934335-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934335-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934335-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934335-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934335-01) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$150.00 |

Please Pay This Amount \$150.00



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/2019
Lab Number: 1934335
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/2019
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|------------------------|-------|------|--------|
|----------|------------------------|-------|------|--------|

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT

A/P #: _____
DATE: 11/19/19
JOB #: 2652-001:11-06
SIG.: JB

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
Accounts past due may be charged a 1.5% service fee per month until paid in full.

Please refer to the invoice number above when making your payment

Printed 11/11/2019 9:12:35AM



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 11/11/2019

Lab Number: 1934334

Submitted On: 10/07/19

Submitted By:

Payment Due: 12/11/2019

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|----------|
| | 1934334 BCL Project Name: Groundwater Samples Client Project Name: 2625 IWV | | | |
| | 1934334-01 Fields Well, 10/6/2019 9:45:00 AM | | | |
| 1 | Water: Hardness (TRM) - (Samples 1934334-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Anions - (Samples 1934334-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Balance Check TRM - (Samples 1934334-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: EPA 120.1 - EC - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 150.1 - pH - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 180.1 - Turbidity - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934334-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934334-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934334-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934334-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934334-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934334-01) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$160.00 |

Please Pay This Amount \$160.00



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 11/11/2019

Lab Number: 1934334

Submitted On: 10/07/19

Submitted By:

Payment Due: 12/11/2019

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|------------------------|-------|------|--------|
|----------|------------------------|-------|------|--------|

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT

A/P #: _____
DATE: 11/19/19
JOB #: 2652-001:11-06

SIG.: JB

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
Accounts past due may be charged a 1.5% service fee per month until paid in full.

Please refer to the invoice number above when making your payment

Printed 11/11/2019 9:12:44AM



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 11/11/19

Lab Number: 1934207

Submitted On: 10/07/19

Submitted By:

Payment Due: 12/11/19

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|---|-------|---------|---------|
| | 1934207 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1934207-01 Bird Spring , 10/5/2019 8:40:00 AM | | | |
| | 1934207-02 Cow Heaven , 10/5/2019 9:25:00 AM | | | |
| | 1934207-03 Indian Wells Creek , 10/5/2019 10:45:00 AM | | | |
| | 1934207-04 Grapevine Canyon Creek , 10/5/2019 3:30:00 PM | | | |
| | 1934207-05 Sand Canyon Creek , 10/5/2019 4:00:00 PM | | | |
| | 1934207-06 5 Mile Canyon Creek , 10/5/2019 5:30:00 PM | | | |
| | 1934207-07 Short Canyon Creek , 10/6/2019 10:45:00 AM | | | |
| | 1934207-08 Freeman Canyon Spring, 10/6/2019 3:00:00 PM | | | |
| 8 | Water: Hardness (TRM) - (Samples 1934207-01 to 08) | 201 | \$0.00 | \$0.00 |
| 8 | Water: Total Anions - (Samples 1934207-01 to 08) | 201 | \$0.00 | \$0.00 |
| 8 | Water: Total Cations (TRM) - (Samples 1934207-01 to 08) | 201 | \$0.00 | \$0.00 |
| 8 | Water: Balance Check TRM - (Samples 1934207-01 to 08) | 201 | \$0.00 | \$0.00 |
| 8 | Water: EPA 120.1 - EC - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 180.1 - Turbidity - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934207-01 to 08) | 207 | \$10.00 | \$80.00 |
| 8 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934207-01 to 08) | 207 | \$10.00 | \$80.00 |
| 8 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934207-01 to 08) | 207 | \$10.00 | \$80.00 |
| 8 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934207-01 to 08) | 207 | \$10.00 | \$80.00 |
| 8 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |



Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:

Invoice Date: 11/11/19

Lab Number: 1934207

Submitted On: 10/07/19

Submitted By:

Payment Due: 12/11/19

Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|------------|
| 8 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934207-01 to 08) | 201 | \$10.00 | \$80.00 |
| 8 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934207-01 to 08) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$1,200.00 |

Please Pay This Amount

\$1,200.00

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT

A/P#:

DATE: 11/19/19

JOB #: 2652-001:11-06

SIG.: OB

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
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Please refer to the invoice number above when making your payment

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Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/19
Lab Number: 1934208
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/19
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|----------|
| | 1934208 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1934208-01 Meas Well , 10/5/2019 2:40:00 PM | | | |
| 1 | Water: Hardness (TRM) - (Samples 1934208-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Anions - (Samples 1934208-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Cations (TRM) - (Samples 1934208-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Balance Check TRM - (Samples 1934208-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: EPA 120.1 - EC - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 180.1 - Turbidity - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934208-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934208-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934208-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934208-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934208-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934208-01) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$150.00 |

Please Pay This Amount \$150.00



Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Invoice No.
B360280

Invoice

Page 2 of 2

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/19
Lab Number: 1934208
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/19
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|------------------------|-------|------|--------|
|----------|------------------------|-------|------|--------|

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT

A/P #: _____
DATE: 11/19/19
JOB #: 2652-001:11-06

SIG.: 

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
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Laboratories, Inc.
Environmental Testing Laboratory Since 1949

RECEIVED
STETSON ENGINEERS, INC.

Invoice No.
B360281

NOV 15 2019

Invoice SAN RAFAEL

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/19
Lab Number: 1934251
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/19
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|----------|
| | 1934251 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1934251-01 Bork Well, 10/7/2019 8:40:00 AM | | | |
| 1 | Water: Hardness (TRM) - (Samples 1934251-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Anions - (Samples 1934251-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Cations (TRM) - (Samples 1934251-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Balance Check TRM - (Samples 1934251-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: EPA 120.1 - EC - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 180.1 - Turbidity - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934251-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934251-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934251-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934251-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934251-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934251-01) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$150.00 |

Please Pay This Amount \$150.00



Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Invoice No.
B360281

Invoice

Page 2 of 2

| | |
|--|---|
| <p>Client ID: STSNC</p> <p>Attn: Joel Barnard Stetson Engineers Inc. 2171 E. Francisco Blvd. Suite K San Rafael, CA 94901</p> | <p>PO Number:</p> <p>Invoice Date: 11/11/19</p> <p>Lab Number: 1934251</p> <p>Submitted On: 10/07/19</p> <p>Submitted By:</p> <p>Payment Due: 12/11/19</p> <p>Terms: Net 30 days</p> |
|--|---|

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|------------------------|-------|------|--------|
|----------|------------------------|-------|------|--------|

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT
A/P #: _____
DATE: 11/19/19
JOB #: 2652-00111-06
SIG.: OB

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
Accounts past due may be charged a 1.5% service fee per month until paid in full.

Please refer to the invoice number above when making your payment

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Invoice

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/19
Lab Number: 1934336
Submitted On: 10/07/19
Submitted By:

Payment Due: 12/11/19
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|--|-------|----------|----------|
| | 1934336 BCL Project Name: Groundwater Samples Client Project Name: 2652 IWV | | | |
| | 1934336-01 Corcoran Well, 10/6/2019 12:15:00 PM | | | |
| 1 | Water: Hardness (TRM) - (Samples 1934336-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Anions - (Samples 1934336-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Total Cations (TRM) - (Samples 1934336-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: Balance Check TRM - (Samples 1934336-01) | 201 | \$0.00 | \$0.00 |
| 1 | Water: EPA 120.1 - EC - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 160.1 - Total Dissolved Solids @ 180 C - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 180.1 - Turbidity - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Calcium, ICP - (Samples 1934336-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Magnesium, ICP - (Samples 1934336-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Potassium, ICP - (Samples 1934336-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.7 - Total Recoverable Sodium, ICP - (Samples 1934336-01) | 207 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Chloride, Ion Chromatograph - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Fluoride, Ion Chromatograph - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Nitrate as NO3, Ion Chromatograph - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 300.0 - Sulfate, Ion Chromatograph - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Carbonate (CO3) Alkalinity as CaCO3 - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Bicarbonate (HCO3) Alkalinity as CaCO3 - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Hydroxide (OH) Alkalinity as CaCO3 - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 310.1 - Total Alkalinity as CaCO3 - (Samples 1934336-01) | 201 | \$10.00 | \$10.00 |
| 1 | Water: EPA 200.2 - TRM Digestion for 200.(7,8,9), 2xx.x - (Samples 1934336-01) | 207 | \$0.00 | \$0.00 |
| | | | Subtotal | \$150.00 |

Please Pay This Amount \$150.00



Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Invoice No.
B360282

Invoice

Page 2 of 2

Client ID: STSNC

Attn: Joel Barnard
Stetson Engineers Inc.
2171 E. Francisco Blvd. Suite K
San Rafael, CA 94901

PO Number:
Invoice Date: 11/11/19
Lab Number: 1934336
Submitted On: 10/07/19
Submitted By:
Payment Due: 12/11/19
Terms: Net 30 days

| Quantity | Description of Service | Dept. | Unit | Amount |
|----------|------------------------|-------|------|--------|
|----------|------------------------|-------|------|--------|

STETSON ENGINEERS INC.
APPROVED FOR PAYMENT
A/P #: _____
DATE: 11/19/19
JOB #: 2652-001:11.06
SIG.: JB

Please Remit To: 4100 Atlas Court, Bakersfield, California 93308 Phone (661)-327-4911 FAX (661)-327-1918
Accounts past due may be charged a 1.5% service fee per month until paid in full.

Please refer to the invoice number above when making your payment

Printed 11/11/2019 9:22:20AM

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Invoice

Wednesday, January 30, 2019

ISSUED TO:
Lauren Duffy

ISSUED BY:
Squarespace, Inc.
225 Varick Street, 12th Floor
New York, NY 10014

Charges

Subscription: Business (Annually) - iwvga.squarespace.com
Jan 30, 2019 – Jan 30, 2020
\$216.00

| | | |
|-----------------|-----------------|--------------------------|
| Card ending in: | 4891 | All prices in US Dollar. |
| Subtotal: | \$216.00 | |
| Discount: | -- | |
| Due: | \$0.00 | |
| Paid: | \$216.00 | |

All prices in US Dollar.

Invoice

Wednesday, January 16, 2019

ISSUED TO:
Lauren Duffy

ISSUED BY:
Squarespace, Inc.
225 Varick Street, 12th Floor
New York, NY 10014

Charges

Purchase of domain: iwvga.org - iwvga.squarespace.com

Jan 16, 2019 – Jan 16, 2020

\$20.00

| | | |
|-----------------|----------------|--------------------------|
| Card ending in: | 4891 | All prices in US Dollar. |
| Subtotal: | \$20.00 | |
| Discount: | -- | |
| Due: | \$0.00 | |
| Paid: | \$20.00 | |

All prices in US Dollar.

Invoice

Tuesday, January 15, 2019

ISSUED TO:
Lauren Duffy

ISSUED BY:
Squarespace, Inc.
225 Varick Street, 12th Floor
New York, NY 10014

Charges

Purchase of domain: iwvga.net - iwvga.squarespace.com

Jan 15, 2019 – Jan 15, 2020

\$20.00

| | | |
|-----------------|----------------|--------------------------|
| Card ending in: | 4891 | All prices in US Dollar. |
| Subtotal: | \$20.00 | |
| Discount: | -- | |
| Due: | \$0.00 | |
| Paid: | \$20.00 | |

All prices in US Dollar.

Invoice

Tuesday, January 15, 2019

ISSUED TO:
Lauren Duffy

ISSUED BY:
Squarespace, Inc.
225 Varick Street, 12th Floor
New York, NY 10014

Charges

Purchase of domain: iwvga.com - iwvga.squarespace.com

Jan 15, 2019 – Jan 15, 2020

\$20.00

| | | |
|-----------------|----------------|--------------------------|
| Card ending in: | 4891 | All prices in US Dollar. |
| Subtotal: | \$20.00 | |
| Discount: | -- | |
| Due: | \$0.00 | |
| Paid: | \$20.00 | |

All prices in US Dollar.

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IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** January 16, 2020

FROM: IWVGA Staff

SUBJECT: Agenda Item No.8 – Presentation on Readiness and Environmental Protection Integration (REPI) Program

DISCUSSION

In December 2002, Congress gave the Department of Defense (DoD) Services the authority to enter into agreements with qualified organizations and non-federal agencies to limit encroachment by enacting Section 2684a of Title 10 of the United States Code (10 U.S.C. § 2684a), the Readiness and Environmental Protection Integration (REPI) program. Through REPI, the DoD works with state and local governments, and non-profit conservation organizations to address challenges to the military mission. REPI enhances military readiness and helps to avoid more expensive alternatives, such as training workarounds or mission relocation by preventing, mitigating, or reducing restrictions on testing and training missions. REPI achieves this goal through the conservation of open and natural spaces outside installation fence lines that can help avoid incompatible land use, reduce environmental hazards, and protect habitat for wildlife.

A key component of the REPI Program is the use of buffer partnerships among the military services, private conservation groups, and state and local governments. There are two types of DoD funding for REPI buffer partnerships: (1) Service funds or (2) REPI program funds that are identified by Congress in a line-item in the DoD budget. The REPI program does not provide funding to partners through an open grants program, rather each service submits project proposals for funding and specifies how REPI partnerships and their projects are planned, identified, reviewed, and approved.

Under the Department of the Navy (DON), installations develop an Encroachment Management Program (EMP) to address compatibility and readiness sustainment. As a key component of the EMP, the Encroachment Partnering (EP) program provides the tool to implement the 2684a authority and REPI program funding through the development of an encroachment protection agreement (EPA). The encroachment protection agreement is generally a multi-year agreement between a Navy installation and its partner(s) that identifies geographic areas of mutual interest and governs how each party will conduct a transaction under the REPI program. The REPI program at NAWS China Lake is used to address incompatible land use changes, loss of habitat, and environmental issues that can affect the mission capabilities of the installation.

As identified in the draft GSP and previously discussed at TAC and PAC meetings, if not properly mitigated, increased dust from voluntarily retired agricultural lands in the valley could affect the health and wellbeing of the IWV community, groundwater dependent ecosystems, and the NAWS China Lake mission capabilities in the ranges and the R-2508 airspace. As potential increased airborne dust could affect the community and NAWS China Lake, the REPI program could be a potential source of funding for dust mitigation measures.

RECOMMENDED BOARD ACTION(S)

Receive and File

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NAWS China Lake Encroachment Partnering Program

John Kersey
Community Planning Liaison Officer

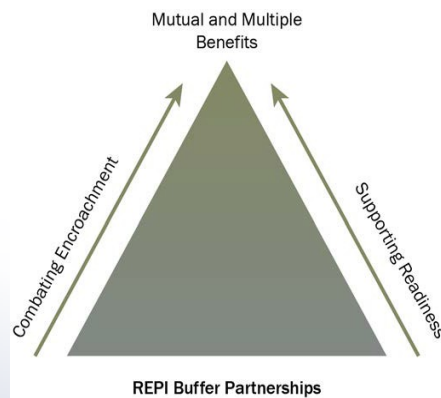
1

1

Readiness and Environmental Protection Integration (REPI)



- 2002 - Congress enacted 10 U.S.C Section 2684a (REPI)
- Key tool for installations to reduce and avoid restrictions on training and testing
- DoD funding for REPI partnerships:
 - Local Governments
 - State Governments
 - Non-profit Conservation Groups
- Does not provide funding to partners through an open grants program, rather each installation submits project proposals for funding.



2

2

Enhances Military Readiness



- Conservation Partnership
 - Limit incompatible land use
 - Mitigate environmental hazards
 - Protect habitat for wildlife
 - Meet Endangered Species Act obligations
 - Recreation
- Cannot fund infrastructure
 - Defense Community Infrastructure Pilot Program

3

3

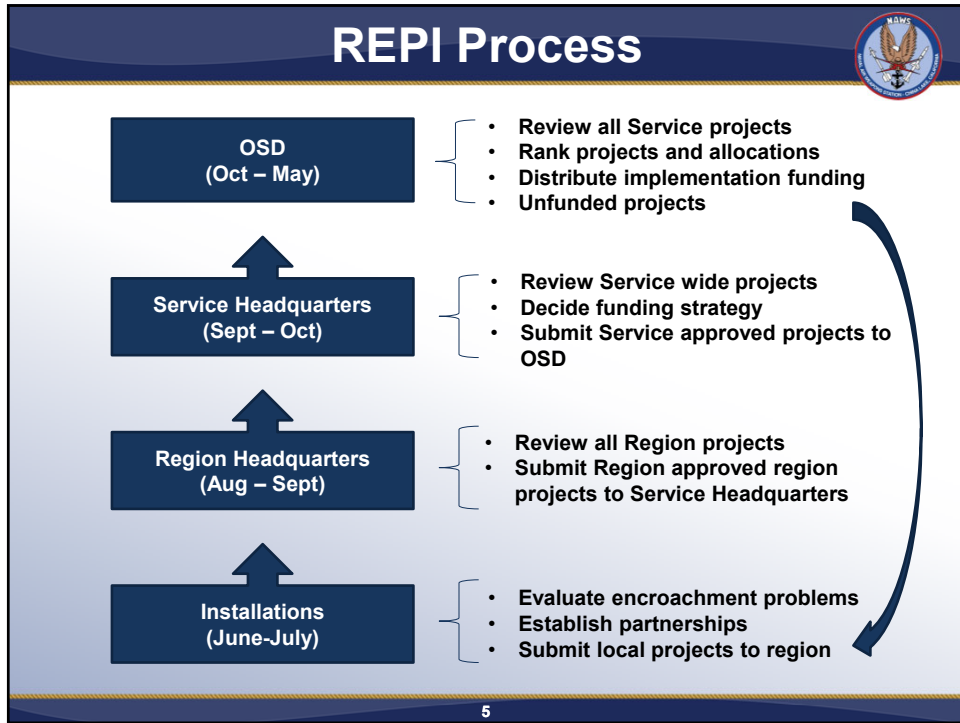
Department of Navy Process



- Encroachment Management Program
 - Developed by the Installation
 - Address compatibility and readiness sustainment
- Encroachment Partnering Program
 - Key component to implement the 2684a authority and REPI program funding
 - Encroachment Protection Agreement:
 - Multi-year agreement between a Navy installation and its partner
 - Identifies geographic area of mutual interest
 - Governs how transactions are conducted under REPI

4

4



5

NAWS REPI Program

- **Encroachment Protection Agreement**
 - Established 2008
 - 8 amendments
 - Add 4 new partners (New Partners Always Welcome)
 - Extended to 2023 (Amendment 8 in 2018)
- **Highlights**
 - +24,000 acres preserved
 - 53 transactions
 - \$18.6 million invested

The Nature Conservancy

Audubon

Transition Habitat
CONSERVANCY

THE TRUST
FOR
PUBLIC
LAND

California Department of
Parks and Recreation

6

6

Dust Mitigation Partnership



- Discussed at TAC and PAC
 - Increased dust affects community health
 - Impacts groundwater dependent ecosystems
 - Affects operations and mission capabilities at NAWS China Lake

- Water Resource Manager
 - Need to consider dust mitigation in GSP
 - Funding options?

7

7

Encroachment Partner Benefits



- No Commitment
- Enhanced Military Readiness
- Protect Valuable Habitat
- Strengthened Military-Community Relationship
- Collaboration
 - State
 - Non-Government Organizations
 - Other Federal Land Conservation Programs

8

8

Questions




9

9

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IWVGA Board Meeting January 16, 2020

- **Prop 1 Status/Schedule**
 - **Invoice #3:**
 - Covers April 2019 through June 2019
 - Draft submitted to DWR November 21st (delays due to GSP development)
 - Total payment after retention: \$186,199.70
 - Currently finalizing Progress Report
 - **Invoice #4:**
 - Covers July 2019 through September 2019
 - Preparing Invoice and Progress Report
 - **Grant Agreement Revisions:**
 - Requesting Prop 1 grant extension for SDAC Project and some Data Gap Project/Studies
 - One-Year extension to be requested – to April 2021 (primarily to complete SDAC Project)
 - Draft letter sent to DWR (January 2020)


1 

AGENDA ITEM 9a

1

IWVGA Board Meeting January 16, 2020

- **Prop 68 Status**
 - Proposition 68 application was submitted to DWR on November 14, 2019
 - Public review of draft funding list (~January/February 2020)
 - DWR final awards (~March 2020)
 - Total applications very close to \$ available (similar to Prop 1 application)
- **IWVGA Projects**
 - Evaluated Imported Water Opportunities (\$144,700 requested)
 - Shallow Well Mitigation Plan (\$195,300 requested)
 - Groundwater Allocation Process (\$250,600 requested)
 - Groundwater Pumping Fee Support (\$163,300 requested)
- **Total Grant Funding Requested = \$753,900**
 - Approximately 50% is recovery of past IWVGA related expenses
 - IWVGA is responsible for cost share (15% of total) or \$133,000. IWVGA has already spent approximately \$100,000 in in-kind services related to the grant projects

2 

AGENDA ITEM 9c

2

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IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** January 16, 2020

FROM: IWVGA Staff

SUBJECT: **Agenda Item No. 10 – Groundwater Sustainability Report**

DISCUSSION

Capitol Core Group has been actively seeking potential funding sources for an infrastructure project, yet to be determined, to provide an augmented water supply to make up the difference between the annual recharge of 7,650 acre-feet reported in the Groundwater Sustainability Plan (GSP) and the 12,000 acre-feet deemed necessary to meet anticipated demand. One potential source of funding identified is through the Department of Defense, Defense Communities Infrastructure Program (DCIP). The Conference Committee staff has agreed upon a \$50M appropriation for the DCIP in the FY2020 bill, pending Congressional vote and signature of the President.

Capitol Core has engaged with the Assistant Secretary of the Navy regarding the Sustainable Groundwater Management Act (SGMA) and the draft GSP process. Briefings have also occurred with the Director of Installation Resilience. At the Director’s request, Capitol Core has provided the draft GSP which has been under review since December 5th.

Discussions with the Assistant Secretary have reached the point where it is necessary to justify the need for an infrastructure project and make an official request of the Department of Defense to consider funding support.

The report in your packet makes the case for a \$15M request to support a water infrastructure project through the DCIP and other programs that may be applicable. The draft of this report was provided to the Authority staff for review and comment and the report in your packet includes those comments. It is important to get this report to the Navy prior to funding considerations on DCIP beginning. If the Authority desires to have funding in 2023, the funding must be secured by FY2021 which means decisions must be pursued from the Navy in 2020. The timing is such that this report must be presented to the Navy by the end of February.

Staff believes it is imperative Capitol Core be allowed to remain engaged in advocating on behalf of the Authority to establish a priority for DCIP funding of an infrastructure project in the Indian Wells Valley. In the past, the DCIP has been looked upon as a “slush fund” so support for funding it has been lukewarm to say the least. With \$50M now working its way through the legislative process, it is important the case be made for the funds to be allocated to projects involving critical infrastructure rather than “pork-type” projects. Capitol Core has initiated the process of forming Agenda Item No. 10 – Groundwater Sustainability Report

Page Two

a coalition with four other military installations with needs related to critical water infrastructure, some of which are immediate and “shovel-ready”. The strategy is to support these installations with more immediate needs so when the time comes for Indian Wells Valley to make its case they will support our request. The four installations and projects are:

- Mountain Home, Idaho - \$62M for an immediate interconnection to address impending loss of water rights.
- Leavenworth, Kansas - \$1.7M for an interconnection to supplement supply
- Clovis, New Mexico - \$30M for a 6-mile pipeline bringing water from the Ute Reservoir
- Enid, Oklahoma - \$45M for a 70-mile pipeline project

Capitol Core has outlined the specific tasks with costs and a timeline to accomplish the objective of garnering support for DCIP funding for a local water infrastructure project. This information is included in the Board packet. Capitol Core understands the current financial constraints the Authority is under and has indicated willingness for the Authority to defer payment until such time as fees are in place to cover these costs.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends the Board support the network foundation Capitol Core has established to date advocating on its behalf to secure funding from the DCIP and authorize Capitol Core to deliver the Groundwater Sustainability Report to the Navy, continue to develop the coalition for critical water infrastructure and other specific tasks as outlined in their proposal. It is understood payment for services related to these specific tasks will be deferred until such time as the Authority has fees in place to cover these expenses.

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GROUNDWATER SUSTAINABILITY REPORT

Water Resiliency and Request for Funding Consideration
Naval Air Weapons Station China Lake, California



The following Report contains information regarding the status of groundwater supplies in the Indian Wells Valley, California. It details a water resiliency plan implemented by the Indian Wells Valley Groundwater Agency and requests funding for an infrastructure project.

The Honorable Lucian Niemeyer
Acting Assistant Secretary of the Navy
Energy, Installations and Environment
1000 Navy Pentagon, Room 4E739
Washington, D.C. 20350-1000

RE: Status of Groundwater Sustainability, Water Resiliency Action Plan, and
Request for Funding Consideration

Dear Secretary Niemeyer:

As the Chair for the Indian Wells Valley Groundwater Authority, California it is my pleasure to provide you a situation report on the groundwater basin and a draft water resiliency action plan. As you are aware, the Indian Wells Valley Groundwater Basin serves as the supply for the Naval Air Weapons Station, China Lake (NAWSCL), a critical installation for Naval weapons testing and air operations. Included within this report and draft-action plan is a request for future consideration to assist in the funding of the resiliency action plan.

I would like to first start by thanking the U.S. Navy for its recognition of water supply at NAWSCL as a potential risk/encroachment issue for the base's mission. This recognition was contained in the Navy's Water Resiliency Assessment. In addition, I would like to thank Navy Region Southwest Command and the Command Staff at Naval Air Weapons Station China Lake for their cooperation, participation, and overall assistance with groundwater management and the draft water resiliency plan. The U.S. Navy's support and input has been a critical component of our water sustainability planning, and the Navy is an ex-officio member of the Indian Wells Valley Groundwater Authority Board.

The Indian Wells Valley Groundwater Basin is currently in overdraft by approximately 25,000 acre-feet per year. The State of California, under the Sustainable Groundwater Management Act (SGMA), designated the groundwater basin as a high priority in critical overdraft and required that the Groundwater Authority complete a Groundwater Sustainability Plan (GSP) by January 31, 2020. The plan must show how the Basin will achieve sustainability by 2040. The Indian Wells Valley Groundwater Authority has drafted its GSP, which has been transmitted to your office for review and components of which are contained herein this Report.

After efficiency measures (both civilian and military), implementation of water savings, and curtailment of civilian water uses, the basin remains in overdraft of between 3,000- and 7,000-acre feet per year. To achieve sustainability and ensure water resiliency in the area, including NAWSCL, the Indian Wells Valley Groundwater Authority must seek to import water from other regions of California.

Transportation of imported water to the Indian Wells Valley Basin can come from two distinct sources: 1) the Los Angeles Department of Water and Power (LADWP) aqueduct or 2) the Antelope-Valley East Kern pipeline (AVEK). Interconnection into Indian Wells Valley Groundwater Basin requires significant infrastructure to accomplish the goal of groundwater recharge or direct delivery. The two projects, detailed within the report, allow the Basin to achieve sustainability, thus creating greater water security for NAWSCL at current and planned usage amounts.

Lastly, I would like to thank you for the attention and kindness you have shown our representatives as they briefed you on this situation. On behalf of the Indian Wells Valley Groundwater Authority Board of Directors, I appreciate your consideration and shared concern for the resiliency of NAWSCL.

Hon. Lucien Niemeyer
Acting Assistant Secretary of Defense
December 2019

If we can answer any questions or provide any additional resources which may be helpful. Please call Don Zdeba, acting General Manager for the Authority at 760.384.5555 or via email at don.zdeba@iwwvd.com.

Sincerely,

Mick Gleason
Chairman, Board of Directors
Indian Wells Valley Groundwater Authority

cc: The Honorable Kevin McCarthy, U.S. House of Representatives
The Honorable Gavin Newsom, Governor State of California (c/o Governor's Military Council)
Rear Admiral Bette Bolivar – Commander, Navy Region Southwest
Captain P.M. Dale – Commanding Officer, Naval Air Weapons Station China Lake

BACKGROUND AND SUMMARY

INDIAN WELLS VALLEY GROUNDWATER BASIN

Background:

Naval Air Weapons Station China Lake (NAWSCL) obtains water supplies necessary to meet mission needs, including operation of mission critical and support facilities; protection of health/safety and maintenance of equipment; and quality of life/personnel requirements, from the Indian Wells Valley Groundwater Basin. The basin (including the water that the base currently uses) has no current access to imported water supplies.

The Indian Wells Valley Groundwater Basin is located in the northwestern part of the Mojave Desert in Southern California and underlies approximately 382,000 acres or approximately 600 square miles of land area in portions of the Counties of Kern, Inyo, and San Bernardino. It is bordered on the west by the Sierra Nevada Mountain Range, on the north by the Coso Range, on the east by the Argus Range and the south by the El Paso Mountains. Surface water flow from the surrounding mountain ranges drains to China Lake, a large dry lake, or playa located in the central north-east part of the basin.

NAWSCL has historically been a major water pumper (user) in the groundwater basin. The U.S. Navy has reduced its groundwater pumping through a combination of instituted conservation measures and a shift from on-installation housing of personnel to off-installation housing of personnel in the nearby City of Ridgecrest, California and unincorporated areas of the Indian Wells Valley. In 2008, NAWSCL instituted a Water Conservation Policy Advisory which instituted strategies to reduce unnecessary and/or excessive water uses. In 2014, NAWSCL Integrated Natural Resource Management Plan (INRM) emphasized strong water conservation methodologies. In 2018, the U.S. Navy indicated the short-term future water needs of NAWSCL as 2,041-acre feet per year, a 25% increase from current water utilization.

As a result of a Department Assessment, the U.S. Navy has listed NAWSCL as being at risk of water scarcity. Base Command has indicated that water scarcity is a major encroachment issue to its mission status.

The Indian Wells Valley Groundwater Basin historically overdrafts nearly 25,000-acre feet per year.

| Historical Inflows/Outflows | | | |
|--|--|--------------------|--------------------|
| Indian Wells Valley Groundwater Basin | | | |
| | | 1922-2016 | 2011-2015 |
| | | Average | Average |
| Inflows/Recharge | | 7,650 AFY | 7,650 AFY |
| Total | | 7,650 AFY | 7,650 AFY |
| Outflows | | | |
| Pumping | | -15,240 AFY | -27,740 AFY |
| Evaporation | | -6,580 AFY | -4,850 AFY |
| Flow to Salt Wells | | -60 AFY | -50 AFY |
| Total | | -21,880 AFY | -32,640 AFY |
| Average Change in Storage | | -14,230 AFY | -24,990 AFY |

In 2014, the State of California enacted the Sustainable Groundwater Management Act (SGMA) that established a framework for the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results. SGMA requires governments and water agencies of high and medium priority basins to halt overdraft and bring groundwater basins into balanced levels of pumping and recharge. Under SGMA, these basins should reach sustainability within 20 years of implementing their sustainability plans (2040-2042). Through the Indian Wells Valley Groundwater Authority, a [draft Groundwater Sustainability Plan \(GSP\)](#) has been developed. The U.S. Navy, through Base Command at NAWSCL, has participated in the development of the GSP.

Executive Summary:

NAWSCL is situated within an arid region which does not have the benefit of a major imported water source and therefore relies solely upon groundwater. The groundwater basin has experienced significant overdraft for decades and, while recognizing the federal reserve water rights, the civilian agency (Indian Wells Valley Groundwater Authority) is tasked by the State of California with developing a sustainability plan (the “GSP”) to achieve sustainability by 2040. The U.S. Navy has participated in the development of the GSP and provided a general annual short-term water utilization estimate of 2,041 AFY. NAWSCL has implemented several conservation measures and has, over several years, moved personnel to off-installation housing which is serviced through the Indian Wells Valley Water District or through private domestic wells.

Despite these reduction measures, the Department found water scarcity to continue to be an encroachment on the NAWSCL mission. Further conservation measures are unlikely to produce enough savings to meet water sustainability in the groundwater basin and imported water supplies are among seven measures being evaluated by the Indian Wells Valley Groundwater Authority to provide water sustainability to the groundwater basin. It is estimated that between 3,000 and 7,000 AFY of imported water is required to meet sustainability requirement of the groundwater basin.

The Government Accounting Office (GAO) Report 20-98 questioned the DOD’s methodological soundness in determining water scarcity for installations including NAWSCL. In its finding, GAO remarked that DOD had not followed normal practices for drought determination. While the Department-Assessment that U.S. Navy relied upon to make its water scarcity determination may or may not have met the GAO practice requirements, the draft-GSP developed by the Indian Wells Valley Groundwater Authority does meet the requirements of those practices and confirms the U.S. Navy Assessment concerning water scarcity at NAWSCL. The draft-GSP has been made available to the Office of Energy, Installations, and Environment for use with the DOD and in responding to the deficiencies that GAO raised.

To provide imported water to the groundwater basin for the purposes of achieving sustainability, construction of infrastructure is required. The Groundwater Authority has identified two potential interconnection points, one through the Los Angeles Department of Water and Power (LADWP) aqueduct and the other through the Antelope Valley-East Kern Water Agency (AVEK) pipeline. Significant costs are associated with both projects with project planning beginning in 2023, construction beginning in 2026, and completion of the project in 2035. The Indian Wells Valley Groundwater Authority has already made general inquiries into the availability of imported water supplies and is in the process of evaluation. One project, through AVEK, requires treated water while the other, through LADWP, would utilize raw water to provide direct recharge to the basin.

There is precedent for other military installations in California to hold water rights. Our research confirms that two bases in California – U.S. Naval Air Station Lemoore and U.S. Air Force Base Vandenberg hold entitlement to the State Water Project (SWP). NAS Lemoore holds approximately 3,000 acre-feet of annual rights as a member agency of the County of Kings State Water Contractor. Vandenberg Air Force Base has 6,050 acre-feet of annual entitlement as a member agency of the Central Coast Water Authority. Each installation uses varying degrees of water each year for their operations, and there is a precedent for other installations in the state to take advantage of imported water supplies.

The Indian Wells Valley Groundwater Authority respectfully requests consideration of U.S. Navy financial participation in the infrastructure project. Such funding is requested through the Defense Communities Infrastructure Program (DCIP), the Readiness and Environmental Protection Integration Program, or other direct-budget methodologies. Full funding is not required until FY2026 due to the construction timeline, although smaller sums may be necessary earlier for planning/engineering tasks. The Report indicates an understanding of the programs' current funding status, appropriations process and U.S. Navy budget process.

The Report also indicates that proportioned ownership of the infrastructure project may be beneficial to the U.S. Navy in meeting water sustainability and achieving water resiliency for NAWSCL as it provides a mechanism for transport and storage of water specific to the installation's needs now and into the future. When coupled with the installation-specific water rights, this may afford the Department the ability to solve portions of other California installations' water scarcity.

SITUATION REPORT INDIAN WELLS VALLEY GROUNDWATER BASIN

Water Utilization in the Indian Wells Valley Groundwater Basin:

Groundwater pumping/extraction in the Indian Wells Valley has been documented for the past 70-years. The main categories of water utilization/pumping are:

- Agriculture uses
- Commercial/industrial uses (primarily mining)
- City/Municipal/Domestic
- U.S. Navy

Documented water pumping from the Basin were first tracked by the U.S. Geological Survey, then later tracked by the Indian Wells Valley Cooperative Groundwater Management Group. Data from 1975 shows total groundwater extraction of 15,980 acre-feet with the NAWCSL being the largest consumer at 31% (~4,954 acre-feet). Peak groundwater extraction occurred within the basin 2007 at 29,443 acre-feet. The peak rate, however, was after the implementation of significant water conservation efforts by the U.S. Navy and a reduction in on-base housing for U.S. Navy personnel as well as civilian contractors. In 2015, water utilization was reduced to 25,285 acre-feet with U.S. Navy water utilization remaining steady on a percentage basis (further reduced from 2007 amounts).

Historical Water Extraction in the Indian Wells Valley Groundwater Basin

| Water Use | 1975 | 2007 | 2015 |
|-------------------------|------------------|------------------|------------------|
| | 15,980 acre-feet | 29,443 acre-feet | 25,285 acre-feet |
| Agriculture | 22% | 50% | 50% |
| Commercial/Industrial | 17% | 10% | 10% |
| City/Municipal/Domestic | 29% | 34% | 34% |
| U.S. Navy | 31% | 6% | 6% |

There are two important considerations to remember regarding the percentages presented in this table. First, while the direct US Navy pumping represents 6% of the 2015 Basin water usage, this does not take into consideration the off-base housing, services and businesses that provide essential support services and amenities to the base and its employees. Without a robust and talented employment base in the Ridgecrest area, the NAWCSL would not be able to deliver on its mission. A large percentage of the City/Municipal/Domestic use has a direct relation to the support of base operations. Second, while agriculture is currently a large portion of the pumping in basin, the proposed management actions will phase out significant agricultural operations in the basin over time. As such, the other uses in the Basin including the Navy's use will become a larger

proportion of the overall pumping once the Groundwater Sustainability Plan’s management actions are implemented.

Resiliency of the Groundwater Basin:

Mountain front recharge is believed to be the dominant source of inflow to the groundwater basin. In review of 14 previous studies updates to the estimated groundwater recharge using an empirical relation between precipitation and groundwater found an average annual recharge amount of 7,650 AFY. The total recharge area is approximately 770 square miles. Specific details of the groundwater recharge, including studies, evidence and analysis can be found within the [“Basin Studies” \(Chapter 3\) of the Indian Wells Valley Groundwater Authority draft GSP](#).

There are no significant interconnected surface water systems which interact with ground water within the Basin. Generally, streams in the valley are ephemeral and recharge occurs only as mountain block recharge. Surface water in Little Lake, located in the Rose Valley recharge area, is thought to infiltrate into the groundwater and then contribute as sub-flow into the basin. Other recharge comes from springs primarily in the mountain regions.

Water Utilization by NAWSCL:

Water reliability is critical to military sustainability and resiliency. The U.S. Navy operates production wells in the Indian Wells Valley Groundwater Basin that supply on-installation water needs. Supported operations include operation of mission critical and support facilities; protection of health/safety and maintenance of equipment; and quality of life/personnel requirements (office buildings, laboratories, residences, and schools). Installation water requirements have varied over the operational years with 1970 being the highest reported extraction of groundwater at 7,988 acre-feet. In 1975, water utilization had dropped to 4,954 acre-feet. Over decades, as installation personnel increasingly moved to off-base housing in Ridgecrest and unincorporated areas of the Indian Wells Valley, and after implementation of aggressive water conservation programs beginning in 2007, groundwater extraction has reduced to 1,595 acre-feet in 2015. Near-term estimates by the U.S. Navy indicate a need of 2,041 beginning in 2020.

Off-installation personnel are provided water serviced through production wells operated/maintained by the Indian Wells Valley Water District and domestic (private) wells in unincorporated areas of the Indian Wells Valley. Such off-installation personnel include scientists, engineers, technicians and professionals that are critical to the mission needs of NAWSCL. Their water use is reflected in the “City/Municipal/Domestic” use percentages in the table on the preceding page.

Discussion:

The U.S. Navy has conducted a Department Assessment in which it designated NAWSCL as being at risk of water scarcity which may impact mission requirements. The empirical data shown above coupled with the studies, surveys and other data included in the Indian Wells Valley Groundwater Authority’s GSP would validate the Navy’s Department Assessment.

The designation of U.S. Military installations as being at risk due to water scarcity issues recently came under criticism by the Government Accountability Office in its report [GAO-20-98](#) which questioned the methodological soundness of the Department of Defense (DOD) determination of water scarcity. The GAO based its criticism on two major issues. First, the DOD did not use uniform criterion across the military branches to determine water scarcity. Secondly, the DOD's methodology did not fully utilize the Environmental Protection Agency's "leading practices" pursuant to the 10-Step Drought Planning Process. The DOD's responded to the first criticism indicating that the water needs varied between the military branches and uniform criterion may not provide an accurate picture of water scarcity issues. The DOD did not respond to the second criticism.

The GAO Report outlined five practices areas that should have been used to create methodological soundness in DOD's water scarcity findings. They include:

- Identify current water availability,
- Identify future water availability,
- Take into account all sources of water,
- Precisely identify locations, and
- Comprehensively include all locations

While these practices may or may not have been included in the Department Assessment for NAWSCL, they are all included/utilized within the Indian Wells Valley Groundwater Authority draft GSP and may be used by the U.S. Navy in support of its previous findings. Additional sources of water, as described herein this report, may be available to the U.S. Navy through water resource transfer. As this source is not generally available to the remaining portions of the Basin, it is not included in the draft GSP.

Concerning on-installation water utilization, NAWSCL has been exemplary in its conservation measures. The historical utilization numbers and best practices implementation demonstrate the impact on water usage. Achieving additional conservation at the installation that will bring water resiliency to NAWSCL is likely not possible.

The U.S. Navy's decision to move personnel off-installation and the considerable utilization of off-installation personnel to meet the critical mission needs of NAWSCL must be taken into account. The base and the surrounding communities have a critical interrelation. Moving all needed personnel on-installation is likely not feasible and would simply move the water requirements currently borne by the Indian Wells Valley Water District and domestic private wells to the U.S. Navy. It, therefore, doesn't solve this issue.

Civilian Actions to Achieve Sustainability:

To achieve sustainability within the Basin, the Indian Wells Valley Groundwater Authority draft-GSP proposes the implementation of seven measures, including:

1. Implementation of an annual pumping allocation plan, transient pool, and fallowing program (specifically geared towards reducing current agricultural pumping).

The annual pumping allocation program will generally assign an allocation to civilian users and develop a fee for any groundwater extraction beyond the “safe yield” allocations. The fee will then be used to develop alternative water resources.

This measure also provides a 51,000 acre-foot “transient pool” of water for civilian pumpers not included in the allocation plan (mostly current agricultural operations). This pool will be available up and until 2040. This “transient pool” is designed to be temporary; Once it is used, there will be no further allocation for this category.

The measure also implements a fallowing of specific agricultural and industrial uses within the Indian Wells Valley Groundwater Basin.

2. Imported Water Supplies

Upon implementation of all measures contained within the draft-GSP, the Indian Wells Valley Groundwater Basin will require an additional 3,000 to 7,000 acre-feet per year to achieve sustainability. The draft GSP indicates that purchase and transport of imported water to the Basin will be necessary.

Transportation infrastructure will be required, and a more specific description of those projects is below.

3. Optimization of Recycled Water

The City of Ridgecrest currently processes approximately 2,700 AF of effluent through the existing wastewater treatment facility (WWTF). The Navy uses approximately 450 AF of recycled annually water to maintain its golf course, and contractually the Navy can use up to 750 AF annually. The City is negotiating a new WWTF agreement with the Navy to build a new facility adjacent to the current facility. The City believes that the new WWTF will have the potential to produce up to 2,000 AF of recycled water toward a project to reduce the amount of imported water needed to balance the basin.

Other measures include:

4. Additional Basin-wide Conservation Measures
5. Shallow Well Mitigation Program
6. Dust Control Mitigation Program
7. Civilian Pumping Optimization Project

Two additional measures are currently being evaluated/considered:

1. Brackish Groundwater Treatment
2. Direct Potable Reuse

Department of Defense Installation-Specific Water Rights:

The U.S. Navy possesses definitive water rights at the Naval Air Station Lemoore, California. The U.S. Air Force possesses similar rights at Vandenberg Air Force Base. In reviewing these water rights, it provides the potential for the two facilities to purchase additional water (water rights) and serve as a transfer to other installations around California. The California Department of Water Resources’ State Water Project serves

both of these bases. NAS Lemoore is a member agency of the County of Kings State Water Contractor and has an allocation of approximately 3,000 acre-feet. Vandenberg Air Force Base is a member agency of the Central Coast Water Authority and has an allocation of 5,500 acre-feet.

Further review of the water rights by the U.S. Navy and U.S. Air Force are needed to more fully understand the possibility and implications of inter-installation transfers of water within California as a means of achieving resiliency. Inter-Department coordination between the branches of the military may provide for greater flexibility and connectivity of water transfers.

Examination of Potential Imported Water Supplies:

The Indian Wells Valley Groundwater Authority has retained the services of Capitol Core Group, Inc. for the purposes of identifying potential imported water supply sources and identifying funding sources for needed infrastructure connections that are listed below. Capitol Core has provided the Authority a written deliverable concerning available future water supply opportunities that may be available for purchase. The sources include various water agencies, department, and other potential arrangements to achieve the 3,000 to 7,000 AFY needed for sustainability in the Basin. As these transactions involve contractual negotiations, they have been provided to the Authority as Confidential.

Infrastructure Required to Transfer Imported Water:

The Indian Wells Valley Groundwater Basin does not currently have access to any outside water supplies. To bring imported water into the Basin will require obtaining access to existing water conveyance facilities and constructing additional infrastructure. Two conveyance facility interconnection points are possible.

The nearest existing conveyance facilities are the Los Angeles Department of Water and Power's Los Angeles Aqueduct (LADWP). A small portion of the Basin is located within the southern portion of the Antelope Valley-East Kern Water Agency (AVEK) which has a water transmission pipeline that terminates near California City, California approximately 50 miles south of the City of Ridgecrest, California and NAWSCCL main entrance gate.

Note that for either one of these options, the transfer partner would simply provide the delivery infrastructure to allow the Indian Wells Valley Groundwater Authority to tie into their system. The Authority would purchase entitlement from other sources and exchange that water for water from the system that is near to the Basin. In either instance, the water going to the Indian Wells Valley would not put further strain on the existing water supplies of the transfer partner.

Discussion of AVEK Conveyance and Direct Use Project:

Under this project the Indian Wells Valley Groundwater Authority would purchase a combination of California State Water "Table A" Entitlement along with short-term and long-term water supplies. Those water supplies would be transferred/"wheeled" through existing AVEK facilities, specifically through the AVEK surface water treatment facilities and the California City Pipeline. AVEK staff has indicated capacity within the existing pipeline to handle the basin's water needs in order to achieve sustainability.

A 50-mile pipeline extension from the California City Pipeline facility along California Interstate 14 would be required. Due to the elevation profiles, at least two pump stations would be required to lift the imported water supplies over the El Paso Mountains and through the El Paso area. Water tanks for storage would also likely be required. The treated water would be used to directly meet the needs of the Indian Wells Valley Groundwater Basin.

A total cost estimate is as follows:

| AVEK Conveyance and Direct Use: | |
|---|------------------|
| Item | Total |
| Infrastructure Capital Costs | \$177,975,000.00 |
| Water Rights Acquisition Costs | \$48,390,000.00 |
| Annual Operations and Maintenance Costs | \$2,280,000.00 |
| Annual Debt Service Costs | \$5,860,000.00 |

The Water Rights and Acquisition costs assume a State Water Project acquisition of 8,056 AFY of permanent transfer at \$6,000.00 per acre-foot. The infrastructure costs assume two 8,800 gallons per minute pump stations, a 28” steel pipeline approximately 50 miles in length, and a one-million-gallon steel reservoir.

NAWSCL off-installation personnel water costs would include infrastructure-capital, water rights acquisition, annual operations and maintenance (O&M), and debt service costs. This represents a major increase in rates when coupled with the suggested fallowing of water pumpers as described in the GSP. In addition, the ability of the U.S. Navy to utilize its “installation-specific water rights” to achieve imported water to NAWSCL would be limited to “treated water,” pursuant to pipeline requirements.

Los Angeles Department of Water and Power Recharge Project:

Under this project the Indian Wells Valley Groundwater Authority would purchase a combination of State Water Table “A” entitlement and both short-term and long-term water supplies. The purchased water would be “wheeled” through the Metropolitan Water District’s system and delivered to LADWP for use in LADWP service area. Agreements between Metropolitan Water District, Indian Wells Valley Groundwater Authority and LADWP would be required to “wheel” the water as described. LADWP would then provide water from its facilities in the Owens Valley to the Indian Wells Valley Groundwater Basin. This is an exchange agreement that would require no new/additional pumping from the Owens Valley and is not a water purchase agreement with LADWP.

A new turnout from the LADWP Los Angeles Aqueduct would be required along with new raw water pipelines conveying Owens Valley water to new spreading grounds located northwest of the Inyokern Airport. The exchanged water from LADWP would be recharged into the Indian Wells Valley Groundwater Basin at the spreading grounds and serve as a supplemental source of recharge to the Basin.

A summary of the conceptual costs, water rights acquisition costs, annual operations and maintenance, and annual service costs is listed below. Annual service costs would consist of water transportation and wheeling fees applied volumetrically to the Indian Wells Valley Groundwater Authority delivered imported water

Situation Report – Indian Wells Valley Groundwater Basin
 Naval Air Weapons Station China Lake
 Report

supplies. The costs presented are based upon an assumed average annual delivery of 5,000 AFY of imported water.

| LADWP Recharge Project | |
|---|-----------------|
| Item | Total |
| Capital Costs | \$55,046,000.00 |
| Water Rights and Acquisition Costs | \$48,390,000.00 |
| Annual Operations and Maintenance Costs | \$180,000.00 |
| Annual Service Costs | \$4,260,000.00 |

The turnout from the Los Angeles Aqueduct includes 28” steel pipeline approximately 10 miles in length and approximately 800 acres of spreading grounds. Water costs include 8,065-acre feet of State Water Project Title A entitlement via a permanent transfer at \$6,000.00-acre foot. Annual operations and maintenance costs are for spreading ground maintenance.

Infrastructure Project Timing:

Final selection of the most feasible imported water infrastructure project (either AVEK or LADWP) will occur in January 2023 after preparation of an engineering report and negotiation with the relevant transfer agencies. Permitting will begin in 2023 and continue through January 2026. Construction on the project would begin in 2026 and be completed in January 2035.

Discussion of the Two Infrastructure Projects:

As indicated in the project descriptions the AVEK project is approximately five-times the length of required pipeline to the LADWP project with substantially higher annual operations and maintenance costs. Water rights and acquisition costs were based on an *apples-to-apples* comparison. The AVEK total project costs are approximately three-times that of the LADWP project costs. Treated water is required for the AVEK project and raw water is required for the LADWP project which is then treated utilizing existing facilities within the Basin. Inyo and Mono Counties, California are opposed to the LADWP project as it represents a transfer of Owens Valley water to the Basin despite that transfer being a net-zero increase in pumping from the Owens Valley.

REQUEST FOR FUNDING PARTICIPATION

Discussion:

The draft GSP recognizes the U.S. Navy's Federal Reserve Water Rights and has taken into account the stated on-installation needs of NAWSCL. The approach taken by the Indian Wells Valley Groundwater Authority is unique as it included a collaborative approach with U.S. Navy in developing a sustainability plan that specified the use and users of water in the entire Basin. It is further unique in developing a solution which allows for imported water that will achieve water sustainability for the region.

The Indian Wells Valley Groundwater Basin is the sole source of water for the entire region, including NAWSCL. It is not currently interconnected to other sources of imported water and without the infrastructure project, the Basin that supports the operations around the base cannot continue pumping at anywhere near current rates sustainably. NAWSCL represents a large portion of the economic viability of the region. The surrounding area represents a major portion of the housing requirements and quality of life for U.S. Navy personnel as well as needed contractors that meet the installation's mission requirements.

The draft-GSP states that funding for the infrastructure project would potentially come from a variety of sources including federal, State, transfer agency participation, and local. In developing a strategic funding plan, the Indian Wells Valley Groundwater Authority took another unique approach...proportionality.

Ratepayers in the Indian Wells Valley Groundwater Basin will bear the costs of imported water rights and acquisition, annual operations and maintenance, and annual service costs. In addition, local agencies will fund a portion of the infrastructure project costs. The infrastructure project is eligible for certain state and federal grants. These grants will be small amounts through a highly competitive application process under existing programs administered by the Environmental Protection Agency, the Department of Interior – Bureau of Land Management, and the State Water Resources Control Board. Awarded amounts will likely not exceed \$6 million between the State and federal grant sources. SGMA was largely an unfunded mandate placed upon local basins to develop a plan on how they would fund measures needed to achieve sustainability. As such a multi-year \$15 million request for directly appropriated funding has been made to the Governor and State Legislature, should the Groundwater Authority choose the LADWP.

Request for Funding Consideration:

The Indian Wells Valley Groundwater Authority formally requests consideration by the U.S. Navy for potential funding of the LADWP/AVEK infrastructure project as part of the Defense Communities Infrastructure Program (DCIP), Readiness and Environmental Protection Integration Program (REPI), other direct budget mechanism and/or a combination of stated programs.

Funding for the project is not required in the immediate fiscal years. This is a request for future-funding beginning in the Fiscal Year 2026. While we realize the U.S. Navy is unable to provide a commitment for such funding participation, our purpose in making the request is to allow for forward planning with regard to budget issues. The request has been discussed with Members of the United States Congress. Without funding participation by the Department of Defense, economic viability of the infrastructure project is called into

question. Recognizing the relatively small population base, ratepayers alone, including U.S. Navy personnel and contractors, cannot bear the entire financial burden of the infrastructure project.

Defense Communities Infrastructure Program (DCIP):

We recognize that Congress authorized \$100 million to DCIP but has not funded an appropriated amount. DCIP funding is contained within the FY2020 Defense Appropriations legislation. We respectfully suggest the DOD prioritize funding requirements for critical infrastructure needs that directly impact the mission of the installation. The infrastructure project as described herein, clearly meets that priority need, although we may not seek funding in this Fiscal Year, should it be appropriated, as the project is not construction-ready, and a preferred transfer partner has not been selected.

We ask that you consider the Indian Wells Valley Groundwater Authority infrastructure project as DCIP-eligible for future funding in appropriate fiscal years.

Readiness and Environmental Protection Integration Program (REPI):

REPI has long been used for the purchase of land which may interfere with an installation's mission. The definition of "real property," however; under 10 USC §2661 (c)(2)(B) states:

(B) The term "real property" includes structures, buildings, or other infrastructure of a military installation, roadways and defense access roads, and any other area on the grounds of a military installation. [emphasis added]

The utilization of REPI for this purpose would allow the DOD to purchase infrastructure critically needed to fulfill the mission readiness of the installation. The infrastructure project fits that definition and while not typically utilized for this purpose, we believe that Congress intended to use REPI for this type of purpose. We ask that you consider this infrastructure project as part of a new potential partnership between the Indian Wells Valley Groundwater Authority and the U.S. Navy and support the project for potential funding.

Facilities Ownership may bring additional Opportunities for Water Resiliency

Funding of the infrastructure project utilizing DCIP, REPI, or direct budget request provides the U.S. Navy a pro-rata ownership of such infrastructure without operations and maintenance costs. When coupled with the potential of installation-specific water rights, this may provide the U.S. Navy with the ability to seek its own purchased water, water banking/storage opportunities within the basin, and transfer/wheeling abilities to other installation where water scarcity exists. This can be used on a branch-specific basis for the U.S. Navy or expanded and/or coupled with other water rights to serve multiple military branches in California.

This allows the U.S. Navy to control its own interest with regard to water resiliency and not merely rely upon the availability of water within the groundwater basin. It also brings the potential beyond sustainability but to groundwater resiliency where it had not previously existed.

Situation Report – Indian Wells Valley Groundwater Basin
Naval Air Weapons Station China Lake
Request for Funding Participation

Report Prepared by:
Capitol Core Group, Inc. of behalf of the Indian Wells Valley Groundwater Authority

Date Prepared:
January 2020

Version:
Version 3.0

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TO: Don Zdeba, General Manager IWVGA

FROM: Michael W. McKinney, Partner

CC: Jeff Simonetti, SVP
Todd Tatum, Sr. Advisor – Partner
Colleen Newman, Sr. Advisor – Washington, D.C.

DATE: January 13, 2020

SUBJECT: Capitol Core Proposed Going-Forward Work Plan

In January, you asked us for an updated potential budget for Capitol Core's work plan for necessary tasks going forward in 2020. We believe that there are still some critical items that need to be addressed for the Groundwater Authority to keep moving the pursuit of potential funding sources forward. Now that the US Congress has passed the Defense Communities Infrastructure Program (DCIP), we believe that this is a potentially important source for the Authority to position itself and pursue in the future. Further, there are still items related to the pursuit of a transfer partner that will need to be addressed prior to making a full formal funding request to both state and federal agencies. As such, this work plan addresses what we view as necessary going-forward tasks under the general headings of Task 3 (Securing Funding Sources) and Task 2 (Transfer Partner Agreements) in our original contract.

As of December 31, 2019, our contract has unexpended amounts of \$102,187.50 for hours and \$6,163.50 for expenses/travel. We built the proposed go-forward budget within the constraints of the remaining budget that is left on the contract. The narrative of our work proposal is below, and we have attached our proposed budget to this document. We appreciate your consideration.

TASK 3 (FEDERAL AND STATE ADVOCACY)

DCIP Procedures/Regulatory

The establishment of DCIP procedures within the DOD is already underway. The extent and complexity of this process is currently unknown and internal to DOD. Capitol Core needs to begin immediately to favorably influence the procedures. Internally within DOD there had previously been consideration given toward limiting DCIP funding to \$5 million grants under a typical competitive process, and the program may consider all proposed infrastructure projects (whether they are critical in nature or not). IWVGA does not support this suggestion and will request priority consideration be given to DCIP-eligible projects that are critical infrastructure needs to support the base's mission. This will provide priority to specific water, energy, certain transportation (ingress/egress) and critical communications needs that are currently supported by civilian agencies outside the base.

Capitol Core will draft this position and seek management approval of the position. We will then begin requesting meetings with Assistant Secretary of Defense of Ellen Lord through the Secretary of the Navy Niemeyer.

It is difficult to provide accurate estimates of the process beyond the initial drafting and lobbying of the regulatory modification request. The request could be dismissed out of hand (ceasing our activities) or DOD

may request further clarification and review of potential policy language (prolonging the procedure development process). We request that IWVGA provide Capitol Core with needed flexibility to influence this process within the total budget amount.

We estimate this process to last through June 2020.

Capitol Core Group's original scope-of-work did not anticipate the need to influence regulatory procedures within any of the federal agencies. Therefore, our original hour estimates did not include this activity within Task 3 as an identified sub-task. It is the nature of our work that policy development is fluid and strategies/tasks must be modified to meet the overall objectives and goals of the project (without going over the original proposed contract amount).

Coalition Development

Critical to the success of this request is development of a coalition of like-minded organizations including the National Rural Electric Cooperatives Association and other similarly situated project managers. It will be easier to make our case to the Department of Defense regarding the priority of "critical infrastructure" with a group of like-minded organizations. We will seek out entities that we know have an interest in establishing the DCIP for critical infrastructure and create a coalition to support our ask for only critical infrastructure programs to be considered for funding eligibility. This process needs to begin immediately.

ASECNAV Lobbying

Development of the Water Sustainability Report and Funding Request to the Assistant Secretary of the Navy, Energy Installations and Environment Office is now complete. Our remaining tasks are to 1) fully vet this request through the U.S. Navy command structure and specific Congressional offices; 2) request supporting positions from the aforementioned offices; 3) establishing meetings with ASECNAV on behalf of the Client; 4) answer any questions and provide follow-up; and 5) oversee the request as it proceeds up through the Administration ("Phase II Lobbying"). Please note the "Governor's Office Request" as it contains items critical to gaining support for the request to Assistant Secretary Niemeyer.

In our opinion, the meeting with senior Department of Defense officials and key congressional supporters would be best presented directly by IWVGA. This would likely require travel by Chairman Gleason, Mr. Zdeba (as the General Manager, and Jeff Simonetti as the lead with the Assistant Secretary's office (Mr. McKinney will only attend if Mr. Simonetti's schedule does not permit travel). Mrs. Newman from Capitol Core would establish the meetings and would accompany the team on the formal request. We believe the critical nature and amount of the request necessitate this personal trip.

Timing of this request is fluid given the IWVGA infrastructure project timeline. Originally, Capitol Core had anticipated this funding request would be achieved through Congressional Authorization and Appropriation. However, due to the fluid nature of the timing for IWVGA to complete its determination of a specific transfer partner, this affords us an additional option of directly budgeting this request through the DOD. Over the past few months, we have diverted our Congressional lobbying activities to focus on this potential path (whether through direct line-item, DCIP or REPI). Much of our requested budget from this item was included in our original scope-of-work estimates. What is new in this subtask are items labelled as "Phase II Lobbying." They are predicated on a favorable decision by ASECNAV, as well as support from pertinent California Congressional delegation members, to consider the funding request. It then anticipates the work needed within the Secretary of Defense's office, the White House, Office of Management and Budget (OMB), and Congressional Appropriations Committee Chairs.

Governor's Office Request

The initial briefings and requests of the California Legislature to consider funding participation have been accomplished. This included an initial briefing of the Governor's Military Council and Office of Planning & Research (OPR). These activities were suspended in October 2019 due to IWVGA budget constraints. The request for consideration of funding by the Governor's offices mirrors the request to ASECNAV. We would be remiss not to seek the Governor's Military Council's support for the funding request to the U.S. Navy as a "priority request" of the State. Our activities had anticipated simultaneous requests to the Governor and ASECNAV as these briefings involve the same offices (Governor and OPR) on the same topic and for the same amounts. This would provide Governor Newsom with a more full and complete picture of the IWVGA infrastructure project funding strategy.

To accomplish this task, we need to brief the OPR personnel on the overall strategy and make a formal request for support. In addition, we need to brief and make the formal request of Governor Newsom's office for State funding. A request to meet with the Governor's office, through the Policy Director, needs to be made. The Governor's schedule and priority will determine if the Governor will attend the briefing. As with the ASECNAV meeting, we believe that presentation of the request be made directly by IWVGA and request attendance/travel by Chairman Gleason and Mr. Zdeba. Mr. McKinney and/or Mr. Simonetti will accompany this team on behalf of Capitol Core Group. We anticipate this to be a daytrip.

All of these items were included within our scope-of-work and would just resume as needed. Scheduling is dependent upon the ASECNAV lobbying timing.

TASK 2 (TRANSFER PARTNER DETERMINATION)

Making the determination of a transfer partner will be necessary prior to the Authority being able to make a formal request for funding from agencies, the California Legislature and/or Congress. These entities will need to know what transfer partner the Authority will work with, what these options will cost, and the infrastructure necessary to deliver the proposed project. Towards this end, we have put together a continuation of the items necessary to assist the Board in making this determination. First, we will work closely with Stetson Engineers to hone the cost estimates for each transfer partner's infrastructure needs as well as the operations and maintenance (O&M) estimates for the use of these facilities. We will update estimates, based on what we believe we can secure from funding sources, the local match associated with the project as well as the potential ongoing costs necessary to operate the system. As was proposed in the original contract (in Task 1D), we will conduct community outreach as necessary to inform the public of our cost estimates. Finally, we will continue our discussions with the transfer partners as the Board works towards a decision on a proposed route.

CONTRACTUAL

The current agreement between IWVGA and Capitol Core expires on March 20, 2020. Obviously, we cannot complete the tasks in the 66 days remaining on the agreement. We request the current agreement be extended through December 31, 2020 in order to complete the remaining tasks contained within this Memorandum. In addition, we will need to move hours/amounts originally anticipated in Task 2 over to Task 3 in order to maintain the current contract amount. There is no request for a contract amount increase within this Memorandum.

Capitol Core Group needs an understanding regarding any contingencies attached to our compensation under agreement (going forward). Some of our activities (e.g. the DOD procedures/policymaking) are immediately requiring our attention. If we are authorized to proceed on that work contingent upon the passage of an augmentation fee, and the Board delays/denies implementation of the fee, the contract would be illusory for Capitol Core. Capitol Core is willing to delay payment for activities and carry those costs for a reasonable

Client Memorandum

period of time, however; such compensation cannot be contingent upon future potential passage of the Augmentation Fee.

I look forward to discussing these items with you and for approval to begin work. Should you have any questions, please give me a call to discuss.

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Task 3 Items

DCIP Procedures/Regulatory Item

| | Position | Legislative/DoD | Coalition | Totals | Total | | |
|-----------|-----------------|------------------|--------------------|--------|---------------|-----------|-----------|
| | <u>Drafting</u> | <u>Briefings</u> | <u>Development</u> | | <u>Amount</u> | | |
| McKinney | 8 | 10 | 7 | 25 | \$ 6,250.00 | McKinney | \$ 250.00 |
| Simonetti | 8 | 15 | 10 | 33 | \$ 7,425.00 | Tatum | \$ 250.00 |
| Newman | 5 | 15 | 10 | 30 | \$ 4,500.00 | Simonetti | \$ 225.00 |
| | | | | 88 | \$ 18,175.00 | Newman | \$ 150.00 |

ASECNAV Funding Request

| | Command Structure | Materials and | Congressional | ASECNAV | Review | Phase II | Totals | Total |
|-----------|---------------------|------------------|-----------------|----------------|------------------|-----------------|--------|---------------|
| | <u>Notification</u> | <u>Reporting</u> | <u>Lobbying</u> | <u>Meeting</u> | <u>Questions</u> | <u>Lobbying</u> | | <u>Amount</u> |
| McKinney | 16 | 5 | 0 | 0 | 4 | 25 | 50 | \$ 12,500.00 |
| Simonetti | 16 | 5 | 10 | 12 | 8 | 25 | 76 | \$ 17,100.00 |
| Newman | 0 | | 10 | 12 | 8 | 25 | 55 | \$ 8,250.00 |
| | | | | | | | 181 | \$ 37,850.00 |

Governor's Office

| | Legislative | OPR | Materials and | Governor | Review | Totals | Total |
|-----------|------------------|------------------|------------------|------------------------|------------------|--------|---------------|
| | <u>Briefings</u> | <u>Briefings</u> | <u>Reporting</u> | <u>Office Lobbying</u> | <u>Questions</u> | | <u>Amount</u> |
| McKinney | 10 | 10 | 2 | 10 | 4 | 36 | \$ 9,000.00 |
| Simonetti | 10 | 10 | 5 | 10 | 4 | 39 | \$ 8,775.00 |
| | | | | | | | \$ 17,775.00 |

Task 3 Totals \$ 73,800.00

Task 2 Items

Imported Water Transfer Partners

| | Determination of | Staff/Board | Community | Totals | |
|-----------|-----------------------|---------------------|-----------------|--------|---------------|
| | <u>Costs for Each</u> | <u>Discussions</u> | <u>Outreach</u> | | <u>Amount</u> |
| | <u>Program</u> | <u>Report Draft</u> | | | |
| Simonetti | 5 | 10 | 5 | 30 | \$ 6,750.00 |
| Tatum | 5 | 10 | 5 | 30 | \$ 7,500.00 |
| | | | | | \$ 14,250.00 |

Ongoing Transfer Partner Discussions

| | Transfer Partner | Totals | |
|-----------|--------------------|--------|---------------|
| | <u>Discussions</u> | | <u>Amount</u> |
| Simonetti | 25 | 25 | \$ 5,625.00 |
| Tatum | 25 | 25 | \$ 6,250.00 |
| | | | \$ 11,875.00 |

Task 1 Totals \$ 73,800.00
Task 2 Totals \$ 26,125.00
Project Grand Total \$ 99,925.00

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Project Cost Report

Date: Commencement to 12/31/2019
Client: Indian Wells Valley Groundwater Authority
Project: 102: Water Supply Procurement Services
Project Manager: Jeff Simonetti
Status: All
Type: Summary
Include: Header, Estimate, YTD, Difference
Show: Header, Sum by Task Header, Hours, Fee



| Header | Estimated Hours | YTD Hours | Remaining Hours | Estimated Fees | YTD Fees | Remaining Budget |
|--|-----------------|---------------|-----------------|---------------------|---------------------|---------------------|
| Task 1 – Determination and Secure Sources of Imported Water Supplies | 261 | 206.5 | 54.5 | \$60,100.00 | \$49,237.50 | \$10,862.50 |
| Task 2 – Negotiation and Agreements for Water Transfers | 252 | 33.5 | 218.5 | \$59,900.00 | \$8,275.00 | \$51,625.00 |
| Task 3 – Identify and Secure Potential Funding Sources | 461 | 310.25 | 150.75 | \$103,775.00 | \$66,750.00 | \$37,025.00 |
| Task 4 – Board Meetings, Staff Meetings and Reporting | 24 | 12.75 | 11.25 | \$5,700.00 | \$3,025.00 | \$2,675.00 |
| Project Total | 998 | 563.00 | 435.00 | \$229,475.00 | \$127,287.50 | \$102,187.50 |

| Expenses | Estimated Amount | YTD Expenses | Remaining Budget |
|--------------------------------|------------------|-------------------|-------------------|
| Total Budget | \$11,800.00 | | |
| Mileage @ \$0.58 per mile | | \$873.24 | |
| Lodging/Hotel (7 nights total) | | \$1,442.09 | |
| Travel/Airline (6-rt.) | | \$3,284.21 | |
| Meals (1) | | \$36.96 | |
| Project to date costs | | \$5,636.50 | \$6,163.50 |

NOTE: Quarterly Project Cost Report (4th Qtr. 2019)

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**Indian Wells Valley Groundwater Authority
December 2019 Financial Report**

| | Project Budget/ POAM | | | FYTD through December | |
|---|-------------------------|---------------|--------------------|-----------------------------|---|
| | Pre-FY 2018 | FY 2018 | 2019 Budget | | |
| Beginning Balance | | | 231,368 | 476,713 | * Includes Sweep Account of \$121,728.11 |
| County of Kern Advance | 500,000 | - | 254,655 | 245,345 | - * Loan - Shouldn't be considered as revenue |
| IWVWD Advance | 500,000 | - | 500,000 | - | - * To be credited against future Pumping Fees - Shouldn't be considered as revenue |
| Navy in-Kind | 1,097,300 | - | 620,600 | 476,700 | - * Tasks being performed by the Navy as in-kind services |
| IWVWD In-kind | 80,000 | - | 80,000 | - | - * Tasks being performed by the IWVWD as in-kind services |
| Initial Member Contribution | 75,000 | 75,000 | - | - | - |
| Beginning Balance | 1,252,300 | 75,000 | 1,455,255 | 953,413 | 476,713 |
| Revenues | | | | | |
| DWR | 249,950 | - | 225,501 | 24,449 | |
| Prop 1 Grant | 2,146,000 | - | - | 931,325 | 851,406 * \$163784.56 for IWVWD; to be reimbursed when GA rec actual funds. |
| -GSP Preparation @ \$1,500,000 | | | | | |
| -SDAC @ \$646,000 | | | | | |
| Assessment Pumping Fee | 1,522,384 | - | 121,788 | 762,973 | 567,846 * Anticipated Pumping Fee Revenue for FY 2019 |
| Total Revenue | 3,918,334 | - | 347,288 | 1,718,747 | 1,419,253 |
| Expenses | | | | | |
| Task 1- Initial GSP Support Studies | 167,600 | 19,341 | 188,065 | (39,805) | 31,762 * Includes \$80,000 IWVWD/City In-Kind Contribution to Salt/Nutrient Plan |
| Task 2- Proposition 1 SGMA GSP Development Grant | 102,880 | 27,280 | 50,481 | 25,119 | 43,389 |
| Task 3- Data Management System | 371,105 | 3,686 | 75,143 | 292,276 | 96,332 |
| Task 4- GSP Development and Submittal | 2,505,700 | 12,136 | 860,130 | 1,633,434 | 764,106 * FY 2018 Includes \$620,600 Navy In-Kind Contribution to Model Development |
| Task 5- SDAC Projects | 646,000 | 1,969 | 45,073 | 598,959 | 25,065 |
| Task 6- IWVGA Project Management and Administrative Tasks | 206,300 | 8,953 | 124,441 | 72,906 | 123,178 |
| - City of Ridgecrest Reimbursement | 210,466 | - | - | - | - * To Be Paid in Out Years |
| Task 7- Legal Services | 200,000 | - | 12,878 | 187,123 | 112,305 |
| Task 8- Stakeholder/Authority Coordination | 289,250 | - | 29,424 | 259,826 | 206,295 |
| - Additional PAC/TAC/Board Meeting Support | 100,000 | - | - | 100,000 | - * To Cover Expenses above POAM Budget |
| - Additional Pump Fee Support | 36,000 | - | - | 36,000 | - * To Cover Expenses above POAM Budget |
| Task 9- Groundwater Pumping Fee Support | 121,500 | - | 98,032 | 23,468 | 103,023 |
| Stetson- TSS Support | 17,464 | - | - | 14,700 | 7,333 * Additional Tasks Outside of POAM |
| Stetson- Brackish Water Support | 47,088 | - | - | 30,000 | 6,025 * Additional Tasks Outside of POAM |
| Stetson- Imported Water Coordination | 48,710 | - | - | 45,000 | 30,774 * Additional Tasks Outside of POAM |
| Stetson- Allocation Process Support | 104,015 | - | - | 50,000 | 97,073 * Additional Tasks Outside of POAM |
| Stetson- Navy-Coso Funding Support | 13,382 | - | - | 10,000 | 5,698 * Additional Tasks Outside of POAM |
| Auditing Services & IWVWD Reimbursement for Website fees | | | | | 6,276 -Unbudgeted |
| Banking Fees | 60 | - | 60 | - | - * Deposit Forms |
| Addtl Insurance Cost | 2,000 | - | - | 2,000 | 9,967 * To Cover Expenditures over POAM Budget |
| PAC & TAC Meeting Costs | 7,470 | - | - | 7,470 | 6,142 * 2.5 hours for PAC + 3.5 hours for TAC each month x 83/hour plus 25% |
| Water Marketing | 230,000 | - | - | 230,000 | 118,683 |
| Well Monitoring | | | | | 15,590 |
| Water Smart Grant | | | | | 3,050 |
| Undocumented Expenditures (pre-FY2018) | | 635 | - | - | - * \$93.95 for Horizon California Publication; \$541.25 for Springhill Suites |
| Total Expenses | 5,426,990 | 74,000 | 1,483,725 | 3,578,475 | 1,812,065 |
| Reserve Requirements | | | | 227,268 | |
| Ending Balance | (256,356) | | (1,133,583) | 83,900 | |
| Unpaid Invoices | | | | | |
| IWVWD Reimbursement for Squarespace charges on card ending 4891 | | | | | 276.00 |
| Stetson INV# 2652-27, 12/13/19 (approved, deferred) | | | | | 183634.49 |
| Stetson INV# 2652-28, 01/09/20 | | | | | 65929.11 |
| | | | | | 249,839.60 |

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