



**CITY OF HUGHSON  
CITY COUNCIL MEETING  
CITY COUNCIL CHAMBERS  
7018 Pine Street, Hughson, CA**

**AGENDA  
MONDAY, JANUARY 23, 2023 – 6:00 P.M.**

**How to participate in, or observe the Meeting:**

- In person in the City Council Chambers and submit public comment when invited during the meeting.
- Remotely via WebEx by using the link below:

Meeting Link:

<https://cityofhughson.my.webex.com/cityofhughson.my/j.php?MTID=m60f7c025acfa0a269947b024ca74c72a>

Meeting Number: 2556 029 6558

Meeting Password: TgKN6FuRw43  
(84566387 from phones and video systems)

- Observe only via YouTube live, by accessing this link:

[https://www.youtube.com/channel/UC-PwkdlrKoMmOJDzBSodu6A?view\\_as=subscriber](https://www.youtube.com/channel/UC-PwkdlrKoMmOJDzBSodu6A?view_as=subscriber)

**Should technology problems cause issues providing access to the meeting via WebEx and/or YouTube, the in-person meeting will proceed as scheduled.**

- In addition, recorded City Council meetings are posted on the City's website the first business day following the meeting. Recorded videos can be accessed with the following link:

<http://hughson.org/our-government/city-council/#council-agenda>



**CALL TO ORDER:** Mayor George Carr

**ROLL CALL:** Mayor George Carr  
Mayor Pro Tem Ramon Bawanan  
Councilmember Samuel Rush  
Councilmember Randy Crooker  
Councilmember Julie Ann Strain

**FLAG SALUTE:** Mayor George Carr

**INVOCATION:** Hughson Ministerial Association

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**1. PUBLIC BUSINESS FROM THE FLOOR (No Action Can Be Taken):**

Members of the audience may address the City Council on any item of interest to the public pertaining to the City and may step to the podium, state their name and city of residence for the record (requirement of name and city of residence is optional) and make their presentation. Please limit presentations to five minutes. Since the City Council cannot take action on matters not on the agenda, unless the action is authorized by Section 54954.2 of the Government Code, items of concern, which are not urgent in nature can be resolved more expeditiously by completing and submitting to the City Clerk a "Citizen Request Form" which may be obtained from the City Clerk.

**2. PRESENTATIONS: NONE.**

**3. CONSENT CALENDAR:**

All items listed on the Consent Calendar are to be acted upon by a single action of the City Council unless otherwise requested by an individual Councilmember for special consideration. Otherwise, the recommendation of staff will be accepted and acted upon by roll call vote.

**3.1:** Approval of City Council Minutes.

**3.2:** Approval of City Council Minutes..

**3.3:** Approval of Warrants Register.

**3.4:** Approval of the Treasurer's Report for September 2022.

**3.5:** Appoint a Hughson Representative to the Stanislaus Animal Services Agency Advisory Committee.



- 3.6:** Consideration to Re-appoint Alan McFadon to the Planning Commission.
- 3.7:** Adopt Resolution No. 2023-04, Approving a Professional Services Agreement for Strategic Planning Services and Authorizing the City Manager to Execute the Agreement.
- 3.8:** Adopt Resolution No. 2023-05, Accepting Senior Nutrition Infrastructure Grant Funds from the County of Stanislaus in the Amount not to Exceed \$114,450, and Authorizing the City Manager to Execute a Subrecipient Agreement.
- 3.9:** Adopt Resolution No. 2023-06, Approving a Donation to Project Resolve.

#### **4. UNFINISHED BUSINESS:**

- 4.1:** Update Regarding the Well 7 Replacement Project Status.
- 4.2:** Approval of a Revised and Restated Non-Potable Water Agreement, with the Hughson Unified School District and Authorization for the City Manager to Execute the Agreement.

#### **5. PUBLIC HEARING TO CONSIDER THE FOLLOWING:**

- 5.1:** **A.** Adopt Resolution No. 2023-07, Declaring Results of a Special Election for the City of Hughson Public Safety and Maintenance Services Community Facilities District.  
  
**B.** Adopt Resolution No. 2023-08, A Resolution of Formation of the City of Hughson Communities Facilities District and to Levy a Special Tax Therein for the City of Hughson Public Safety and Maintenance Services Community Facilities District.
- 5.2:** Introduce and Waive the First Reading of Ordinance No. 2023-01, Amending the Hughson Municipal Code Pertaining to Title 15 Building Code Regulations.

#### **6. NEW BUSINESS:**

- 6.1:** Adopt Resolution No. 2023-09, Affirming the City of Hughson's Commitment to Supporting the Riverview Mobile Home Estates Water Consolidation Project and Authorize the City Manager to execute the Letter of Support.

#### **7. CORRESPONDENCE: NONE.**



**8. COMMENTS:****8.1: Staff Reports and Comments: (Information Only – No Action)****City Manager:****City Clerk:****Community Development Director:****Police Services:****City Attorney:****Student Representative:****8.2: Council Comments: (Information Only – No Action)****8.3: Mayor's Comments: (Information Only – No Action)****9. CLOSED SESSION TO DISCUSS THE FOLLOWING:****9.1: CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION**  
Initiation of litigation pursuant to paragraph (4) of subdivision (d) of Section 54956.9: One (1) case.**ADJOURNMENT:****Notice Regarding Non-English Speakers:**

Pursuant to California Constitution Article III, Section IV, establishing English as the official language for the State of California, and in accordance with California Code of Civil Procedures Section 185, which requires proceedings before any State Court to be in English, notice is hereby given that all proceedings before the City of Hughson City Council shall be in English and anyone wishing to address the Council is required to have a translator present who will take an oath to make an accurate translation from any language not English into the English language.

**WAIVER WARNING**

If you challenge a decision/direction of the City Council in court, you may be limited to raising only those issues you or someone else raised at a public hearing(s) described in this Agenda, or in written correspondence delivered to the City of Hughson at or prior to, the public hearing(s).



**AMERICANS WITH DISABILITIES ACT/CALIFORNIA BROWN ACT**  
**NOTIFICATION FOR THE CITY OF HUGHSON**

This Agenda shall be made available upon request in alternative formats to persons with a disability; as required by the Americans with Disabilities Act of 1990 (42 U.S.C. Section 12132) and the Ralph M. Brown Act (California Government Code Section 54954.2).

**Disabled or Special needs Accommodation:** In compliance with the Americans with Disabilities Act, persons requesting a disability related modification or accommodation in order to participate in the meeting and/or if you need assistance to attend or participate in a City Council meeting, please contact the City Clerk's office at (209) 883-4054. Notification at least 48-hours prior to the meeting will assist the City Clerk in assuring that reasonable accommodations are made to provide accessibility to the meeting.

**UPCOMING EVENTS:**

<b>January 23</b>	▪ Economic Development Committee Meeting, City Hall, 4:30 PM
<b>January 30</b>	▪ Hughson has Heart Planning Meeting, City Council Chambers, 6:00 PM
<b>February 13</b>	▪ <b>President Lincoln's Birthday Observed – City Hall Closed</b>
<b>February 14</b>	▪ Special City Council Meeting, Hughson High School Reeder Hall/WebEx Videoconference/YouTube Live Stream, 6:00 PM
<b>February 15</b>	▪ Parks, Recreation and Entertainment Commission Meeting, City Council Chambers, 6:00 PM
<b>February 20</b>	▪ <b>President Washington's Birthday Observed – City Hall Closed</b>
<b>February 21</b>	▪ Planning Commission Meeting, City Council Chambers, 6:00 PM
<b>February 27</b>	▪ State of the City of Hughson Address, Hughson High School Theatre, 6:00 PM

**General Information:** The Hughson City Council meets in the Council Chambers on the second and fourth Mondays of each month at 6:00 p.m., unless otherwise noticed.

**Council Agendas:** The City Council agenda is now available for public review at the City's website and City Clerk's Office, 7018 Pine Street, Hughson, California on the Friday, prior to the scheduled meeting. Copies and/or subscriptions can be purchased for a nominal fee through the City Clerk's Office.

**Questions:** Contact the City Clerk at (209) 883-4054.



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### AFFIDAVIT OF POSTING

**DATE:** January 20, 2023 **TIME:** 2:00 PM  
**NAME:** Ashton Gose **TITLE:** City Clerk





## **CITY COUNCIL AGENDA ITEM NO. 3.1 SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Approval of the City Council Minutes  
**Presented By:** Ashton Gose, Executive Assistant/City Clerk  
**Approved By:** Merry Mayhew  
City Manager

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### **Staff Recommendation:**

Approve the Minutes of the Regular Meeting of January 9, 2023.

### **Background and Overview:**

The draft minutes of the January 9, 2023 meeting are prepared for the Council's review.





**CITY OF HUGHSON**  
**CITY COUNCIL MEETING**  
CITY HALL COUNCIL CHAMBERS  
7018 PINE STREET, HUGHSON, CA

**MINUTES**  
**MONDAY, JANUARY 9, 2023 – 6:00 P.M.**

**CALL TO ORDER:** Mayor George Carr

**ROLL CALL:**

Present: Mayor George Carr  
Mayor Pro Tem Ramon Bawanan  
Councilmember Samuel Rush  
Councilmember Randy Crooker  
Councilmember Julie Ann Strain

Staff Present: Merry Mayhew, City Manager  
Ashton Gose, City Clerk  
Eric Nims, City Attorney  
Carla Jauregui, Community Development Director  
Jose Vasquez, Public Works Superintendent  
Jaime Velazquez, Utilities Superintendent  
Fidel Landeros, Chief of Police

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**1. PUBLIC BUSINESS FROM THE FLOOR (No Action Can Be Taken):**

NONE.

**2. PRESENTATIONS:**

**2.1:** Proclaim January 9, 2023 as National Law Enforcement Appreciation Day.

**Mayor Carr proclaimed January 9, 2023 as National Law Enforcement Appreciation Day.**



### **3. CONSENT CALENDAR:**

**All items listed on the Consent Calendar are to be acted upon by a single action of the City Council unless otherwise requested by an individual Councilmember for special consideration. Otherwise, the recommendation of staff will be accepted and acted upon by roll call vote.**

- 3.1:** Approve the Minutes of the Regular Meeting of December 12, 2022.
- 3.2:** Approve the Warrants Register.
- 3.3:** Approve the 2023 City Council Appointments to Boards and Committees.
- 3.5:** Approve the Award and Installation of Concrete and an ADA Ramp to the Community Development Department Offices, to Machado & Sons Construction, Inc., at a Total Cost of \$7,050.
- 3.6:** Approve Mayor George Carr's Attendance at the Mayor's Conference in Washington, D.C., January 17-20, 2023, and Reimburse Costs Associated with Attending the Conference.
- 3.7:** Approve Council Members Julie Strain and Randy Crooker to Attend the League of California Cities New Mayors and Council Members Academy in Sacramento, CA from January 18 through January 20, 2023, and Reimburse Costs Associated with Attending the Academy.
- 3.8:** Adopt Resolution No. 2023-01, Approving the 2022-2023 Subrecipient Agreement for the Community Development Block Grant (CDBG) Entitlement Funds with Stanislaus County, and Authorize the Mayor to Sign the Agreement.

**Councilmember Rush requested Consent Calendar item 3.4 be pulled for special consideration.**

- 3.4:** Review and Approve a Ten-Year Revised and Restated Non-Potable Water Agreement with the Hughson Unified School District and Authorize the City Manager to Execute the Agreement Inclusive of Edits by the City Attorney.

**Mayor Carr moved Consent Calendar item 3.4 to New Business item 6.2 for additional discussion.**

**CARR/BAWANAN 5-0-0-0 motion passes to approve the Consent Calendar excluding item 3.4, with the following roll call vote:**



BAWANAN	RUSH	STRAIN	CROOKER	CARR
AYE	AYE	AYE	AYE	AYE

4. **UNFINISHED BUSINESS:** NONE.

5. **PUBLIC HEARING TO CONSIDER THE FOLLOWING:** NONE.

6. **NEW BUSINESS:**

6.1: Adopt Resolution No. 2023-02, Ratifying the Emergency Expenditure of Water Fixed Asset Replacement Fund No. 255 to Rebuild the Well 3 Motor.

Superintendent Velazquez presented the staff report on this item.

Mayor Carr opened public comment at 6:20 PM. There was no public comment.  
Mayor Carr closed public comment at 6:20 PM.

CARR/BAWANAN 5-0-0-0 motion passes To adopt Resolution No. 2023-02, Ratifying the Emergency Expenditure of Water Fixed Asset Replacement Fund No. 255 to Rebuild the Well 3 Motor. , with the following roll call vote:

BAWANAN	RUSH	STRAIN	CROOKER	CARR
AYE	AYE	AYE	AYE	AYE

6.2: Review and Approve a Ten-Year Revised and Restated Non-Potable Water Agreement with the Hughson Unified School District and Authorize the City Manager to Execute the Agreement Inclusive of Edits by the City Attorney.

The staff report was not presented on this item.

CARR/BAWANAN 5-0-0-0 motion passes to bring agenda item 6.2 back for consideration at a regularly scheduled City Council meeting, with the following roll call vote:

BAWANAN	RUSH	STRAIN	CROOKER	CARR
AYE	AYE	AYE	AYE	AYE

7. **CORRESPONDENCE:** NONE.

8. **COMMENTS:**

8.1: Staff Reports and Comments: (Information Only – No Action)



**City Manager:**

City Manager Mayhew informed the City Council that the Senior Community Center suffered a small fire.

**City Clerk:**

City Clerk Gose provided a reminder regarding a scheduled AB1234 Ethics Training on January 19, 2023.

**Community Development Director:**

Director Jauregui provided an update on storm related issues.

**Police Services:**

Chief Landeros provided the City Council with the latest Crime Statistic Report.

**City Attorney:**

City Attorney Nims provided an update regarding AB2449.

**8.2:** Council Comments: (Information Only – No Action)

**Councilmember Crooker thanked City staff for their continued hard work.**

**Councilmember Rush requested an update be provided at a future meeting regarding the Well 7 Replacement Project.**

**Councilmember Strain thanked Hughson Police Services for their presence in the City. She attended a route for Operation Santa Claus/Light Up The Town. She thanked staff for all of their help during her transition as a new Councilmember.**

**Mayor Pro Tem Bawanan thanked City staff and Hughson Police Services for their continued hard work.**

**8.3:** Mayor's Comments: (Information Only – No Action)

**Mayor Carr thanked and acknowledged City public works and utility staff for their hard work resolving the storm related issues within the City. He thanked Hughson Police Services for always keeping the City safe, and for their visible presence within the City.**

**9. CLOSED SESSION TO DISCUSS THE FOLLOWING: NONE.**

**ADJOURNMENT:**

**STRAIN/CROOKER 5-0-0-0 motion passes to adjourn the regular meeting of January 9, 2023 at 6:45 PM with the following roll call vote:**



<b>BAWANAN</b>	<b>RUSH</b>	<b>STRAIN</b>	<b>CROOKER</b>	<b>CARR</b>
AYE	AYE	AYE	AYE	AYE

**APPROVED:**

**GEORGE CARR, Mayor**


**ATTEST:**

**ASHTON GOSE, Executive Assistant/City Clerk**





## **CITY COUNCIL AGENDA ITEM NO. 3.2 SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Approval of the City Council Minutes  
**Presented By:** Ashton Gose, Executive Assistant/City Clerk  
**Approved By:**   
City Manager

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### **Staff Recommendation:**

Approve the Minutes of the Special Meeting of January 13, 2023.

### **Background and Overview:**

The draft minutes of the January 13, 2023 meeting are prepared for the Council's review.





**CITY OF HUGHSON**  
**SPECIAL CITY COUNCIL MEETING**  
CITY HALL COUNCIL CHAMBERS  
7018 PINE STREET, HUGHSON, CA

**MINUTES**  
**FRIDAY, JANUARY 13, 2023 – 4:00 P.M.**

**CALL TO ORDER:** Mayor George Carr

**ROLL CALL:**

Present: Mayor George Carr  
Mayor Pro Tem Ramon Bawanan  
Councilmember Sam Rush  
Councilmember Julie Ann Strain  
Councilmember Randy Crooker

Staff Present: Merry Mayhew, City Manager  
Ashton Gose, City Clerk  
Eric Nims, City Attorney  
Carla Jauregui, Community Development Director

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**1. PUBLIC BUSINESS FROM THE FLOOR (No Action Can Be Taken):**

**NONE.**

**2. PRESENTATIONS: NONE.**

**3. CONSENT CALENDAR: NONE.**

**4. UNFINISHED BUSINESS: NONE.**

**5. PUBLIC HEARING TO CONSIDER THE FOLLOWING: NONE.**

**6. NEW BUSINESS:**



- 6.1:** Adopt Resolution No. 2023-03, Ratifying the City Manager/Director of Emergency Services' Proclamation that an Emergency Situation Exists due to Flood Risk and Other Damage Resulting from Severe Storms.

**City Manager Mayhew presented the staff report on this item.**

**Mayor Carr opened public comment at 4:02 PM. There was no public comment. Mayor Carr closed public comment at 4:02 PM.**

**CARR/STRAIN 4-0-0-1 motion passes to adopt Resolution No. 2023-03, Ratifying the City Manager/Director of Emergency Services' Proclamation that an Emergency Situation Exists due to Flood Risk and Other Damage Resulting from Severe Storms, with the following roll call vote:**

BAWANAN	RUSH	STRAIN	CROOKER	CARR
AYE	ABSENT	AYE	AYE	AYE

**7. CORRESPONDENCE: NONE.**

**8. COMMENTS: NONE.**

**9. CLOSED SESSION TO DISCUSS THE FOLLOWING: NONE.**

**ADJOURNMENT:**

**CARR/BAWANAN 4-0-0-1 motion passes to adjourn the regular meeting of January 13, 2023 at 4:04 PM with the following roll call vote:**

BAWANAN	RUSH	STRAIN	CROOKER	CARR
AYE	ABSENT	AYE	AYE	AYE

**APPROVED:**

\_\_\_\_\_  
**GEORGE CARR, Mayor**

**ATTEST:**

\_\_\_\_\_  
**ASHTON GOSE, Executive Assistant/City Clerk**





## **CITY COUNCIL AGENDA ITEM NO. 3.3**

### **SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Approval of Warrants Register  
**Enclosure:** Warrants Register  
**Presented By:** Sarah Chavarin, Accounting Manager  
**Approved By:** Merry Mayhew  
City Manager

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#### **Staff Recommendation:**

Approve the Warrants Register as presented.

#### **Background and Overview:**

The warrants register presented to the City Council is a listing of all expenditures paid from January 6, 2023, through January 17, 2023.

#### **Fiscal Impact:**

There are reductions in various funds for payment of expenses.





Hughson

# Check Report

By Check Number

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name		Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description		Discount Amount	Payable Amount	
<b>Bank Code: MM Bank-Money Market Bank Account</b>							
00645	INTERNAL REVENUE SERVICE		01/06/2023	Bank Draft	0.00	55.20	DFT0001965
<a href="#">INV0008374</a>	Invoice	01/06/2023	Medicare		0.00	55.20	
00645	INTERNAL REVENUE SERVICE		01/06/2023	Bank Draft	0.00	307.12	DFT0001966
<a href="#">INV0008375</a>	Invoice	01/06/2023	Federal Income Tax		0.00	307.12	
00645	INTERNAL REVENUE SERVICE		01/13/2023	Bank Draft	0.00	1,448.52	DFT0001978
<a href="#">INV0008423</a>	Invoice	01/13/2023	Medicare		0.00	1,448.52	
00645	INTERNAL REVENUE SERVICE		01/13/2023	Bank Draft	0.00	369.32	DFT0001979
<a href="#">INV0008424</a>	Invoice	01/13/2023	SS-Social Security		0.00	369.32	
00645	INTERNAL REVENUE SERVICE		01/13/2023	Bank Draft	0.00	4,189.96	DFT0001982
<a href="#">INV0008427</a>	Invoice	01/13/2023	Federal Income Tax		0.00	4,189.96	

## Bank Code MM Bank Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	0	0	0.00	0.00
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	5	5	0.00	6,370.12
EFT's	0	0	0.00	0.00
	<b>5</b>	<b>5</b>	<b>0.00</b>	<b>6,370.12</b>



## Check Report

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
Bank Code: Payable Bank-Payable Bank						
00005	A&A PORTABLES, INC	01/06/2023	Regular	0.00	80.78	56111
<a href="#">114-13449721</a>	Invoice	11/30/2022	Well 7 Fence Rental	0.00	80.78	
00016	ABS PRESORT	01/06/2023	Regular	0.00	6,560.62	56112
<a href="#">130285</a>	Invoice	12/09/2022	BILL PRINTING- December 2022	0.00	1,560.62	
<a href="#">MP-20221212</a>	Invoice	12/12/2022	Postage Advance for Mailing Services	0.00	5,000.00	
01603	Amazon Capital Services, Inc.	01/06/2023	Regular	0.00	608.10	56113
<a href="#">1FLT-QDV9-6Q33</a>	Invoice	12/20/2022	Charger, Batteries, Coffee	0.00	608.10	
00094	AT&T MOBILITY	01/06/2023	Regular	0.00	490.62	56114
<a href="#">287303621604X1...</a>	Invoice	12/02/2022	PHONES	0.00	490.62	
01817	Black Castle Construction	01/06/2023	Regular	0.00	1,610.00	56115
<a href="#">INV-0151</a>	Invoice	12/20/2022	restroom rental (trunk or treat)	0.00	550.00	
<a href="#">INV-0173</a>	Invoice	12/20/2022	restroom rental ( Lebright)	0.00	1,060.00	
01787	Bob Holl Sheet Metal Inc	01/06/2023	Regular	0.00	179.00	56116
<a href="#">29255779</a>	Invoice	12/20/2022	ice machine diagnostic	0.00	179.00	
01830	CivicPlus, LLC	01/06/2023	Regular	0.00	4,100.00	56117
<a href="#">249223</a>	Invoice	11/07/2022	Citywide Website Development	0.00	4,100.00	
01570	CSG Consultants	01/06/2023	Regular	0.00	26,262.86	56118
<a href="#">47043</a>	Invoice	11/15/2022	Contract Services Planning/Building	0.00	4,037.50	
<a href="#">47949</a>	Invoice	12/09/2022	Contract Services Planning/Building	0.00	2,327.50	
<a href="#">B221410</a>	Invoice	08/01/2022	Contract Services Planning/Building	0.00	12,938.38	
<a href="#">B221750</a>	Invoice	10/03/2022	Contract Services Planning/Building	0.00	4,926.38	
<a href="#">B221927</a>	Invoice	11/01/2022	Contract Services Planning/Building	0.00	1,403.13	
<a href="#">B222103</a>	Invoice	12/01/2022	Contract Services Planning/Building	0.00	629.97	
00368	CSU STANISLAUS	01/06/2023	Regular	0.00	57.00	56119
<a href="#">CMP-011949</a>	Invoice	12/19/2022	November 2022 Live Scan - Envia	0.00	57.00	
01576	ICU Technologies Inc.	01/06/2023	Regular	0.00	890.94	56120
<a href="#">INV1728</a>	Invoice	12/20/2022	Camera work	0.00	890.94	
00659	J.B. Anderson Land Use Planning	01/06/2023	Regular	0.00	772.00	56121
<a href="#">120122HUGH</a>	Invoice	12/01/2022	General Planning Services	0.00	772.00	
00755	MCR ENGINEERING, INC	01/06/2023	Regular	0.00	5,687.50	56122
<a href="#">17808</a>	Invoice	12/10/2022	Job 23-002	0.00	5,687.50	
00611	Mid Valley Publications	01/06/2023	Regular	0.00	466.20	56123
<a href="#">340124</a>	Invoice	12/20/2022	Publication	0.00	466.20	
00889	PLATT	01/06/2023	Regular	0.00	3,493.73	56124
<a href="#">3J45515</a>	Invoice	12/20/2022	light pole (whitmore ave)	0.00	3,493.73	
00906	PROVOST & PRITCHARD CONSU	01/06/2023	Regular	0.00	650.00	56125
<a href="#">96527</a>	Invoice	12/21/2022	TCP Treatment Design	0.00	650.00	
00910	PURCHASE POWER	01/06/2023	Regular	0.00	549.95	56126
<a href="#">INV0008332</a>	Invoice	12/13/2022	POSTAGE	0.00	549.95	
01408	RAYA, NEIL	01/06/2023	Regular	0.00	45.00	56127
<a href="#">INV0008326</a>	Invoice	12/14/2022	State Test SWRCB- Raya	0.00	45.00	
01493	Salonen Electrical Inc	01/06/2023	Regular	0.00	6,342.86	56128
<a href="#">3823</a>	Invoice	11/10/2022	Well Site surge protection device showing fa...	0.00	6,342.86	
00978	SAN JOAQUIN VALLEY Air Pollution Control Distric	01/06/2023	Regular	0.00	577.00	56129
<a href="#">N155379</a>	Invoice	12/20/2022	Genset permit	0.00	577.00	
01820	Thompson Woolley Builders, Inc	01/06/2023	Regular	0.00	5,000.00	56130



## Check Report

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
<a href="#">I-21-591</a>	Invoice	12/14/2022	Install 6" Tall Cove Base	0.00	5,000.00	
01149	TURLOCK IRRIGATION DIST.	01/06/2023	Regular	0.00	25,390.21	56131
<a href="#">INV0008330</a>	Invoice	12/19/2022	ELECTRIC	0.00	25,390.21	
01176	USA BLUE BOOK	01/06/2023	Regular	0.00	130.32	56132
<a href="#">163774</a>	Invoice	11/02/2022	Blanket PO	0.00	130.32	
01192	VISION SERVICE PLAN	01/06/2023	Regular	0.00	505.12	56133
<a href="#">816790162</a>	Invoice	12/19/2022	MEDICAL INSURANCE WITHHELD- January 2...	0.00	505.12	
01206	WARDEN'S OFFICE	01/06/2023	Regular	0.00	19.97	56134
<a href="#">2089641-0</a>	Invoice	12/21/2022	MISC OFFICE SUPPLIES	0.00	19.97	
00010	A.S.C.A.P	01/11/2023	Regular	0.00	420.00	56135
<a href="#">INV0008360</a>	Invoice	12/20/2022	Annual License Fee 2023	0.00	420.00	
00049	ALLIED ADMINISTRATORS	01/11/2023	Regular	0.00	2,165.36	56136
<a href="#">INV0008362</a>	Invoice	12/25/2022	DELTA DENTAL - February 2023	0.00	2,165.36	
01603	Amazon Capital Services, Inc.	01/11/2023	Regular	0.00	509.21	56137
<a href="#">1747-WFLR-QRDO</a>	Invoice	01/04/2023	Employee Record Folders	0.00	61.60	
<a href="#">1DVX-1LV4-KXRC</a>	Credit Memo	12/16/2022	RETURN OF 1J9R-JM6N-91ND	0.00	-147.36	
<a href="#">1J9R-JM6N-91ND</a>	Invoice	12/16/2022	ELECTRIC STARTER FOR KAWASKI	0.00	147.36	
<a href="#">1PPC-LL1V-GQ9F</a>	Invoice	01/10/2023	24 Volt power supply	0.00	436.88	
<a href="#">1YVT-99MJ-3613</a>	Invoice	08/15/2022	Office Supplies	0.00	10.73	
00104	AYERA TECHNOLOGIES INC.	01/11/2023	Regular	0.00	84.00	56138
<a href="#">426812</a>	Invoice	01/01/2023	Net Service	0.00	84.00	
01817	Black Castle Construction	01/11/2023	Regular	0.00	55,000.00	56139
<a href="#">INV-0388</a>	Invoice	12/19/2022	Draw1 for quote 0500, Material and Labor	0.00	55,000.00	
01817	Black Castle Construction	01/11/2023	Regular	0.00	-55,000.00	56139
01808	Butterfield Electric Inc	01/11/2023	Regular	0.00	32,883.13	56140
<a href="#">S049072</a>	Invoice	12/06/2022	Electrical Work for Senior Center	0.00	32,883.13	
00210	California Building Standards Commission	01/11/2023	Regular	0.00	84.60	56141
<a href="#">INV0008358</a>	Invoice	01/03/2023	Green Building Fee 4th Quarter 2022	0.00	84.60	
00284	CHARTER COMMUNICATION	01/11/2023	Regular	0.00	97.70	56142
<a href="#">0054047121022</a>	Invoice	12/10/2022	IP ADDRESS- 1ST	0.00	97.70	
00310	CLARK'S PEST CONTROL	01/11/2023	Regular	0.00	190.00	56143
<a href="#">32565392</a>	Invoice	01/05/2023	PEST CONTROL	0.00	119.00	
<a href="#">32566265</a>	Invoice	01/05/2023	PEST CONTROL	0.00	71.00	
01538	Colonial Life	01/11/2023	Regular	0.00	604.87	56144
<a href="#">5405907-1201825</a>	Invoice	12/19/2022	Colonial Life for December 2022	0.00	604.87	
00364	CSJVRMA	01/11/2023	Regular	0.00	37,387.00	56145
<a href="#">RMA 2023-00159</a>	Invoice	12/16/2022	2022/2023 3rd Qtr Deposits	0.00	37,387.00	
00464	EZ NETWORK SOLUTIONS	01/11/2023	Regular	0.00	5,998.29	56146
<a href="#">42063</a>	Invoice	12/30/2022	IT SERVICES Monthly Billing for November	0.00	1,115.79	
<a href="#">TS42138</a>	Invoice	01/01/2023	IT SERVICES Monthly Billing for January	0.00	4,882.50	
00474	FERGUSON ENTERPRISES,INC	01/11/2023	Regular	0.00	181.22	56147
<a href="#">1763613</a>	Invoice	12/20/2022	Blanket PO	0.00	181.22	
00510	G3 ENGINEERING, INC	01/11/2023	Regular	0.00	5,900.45	56148
<a href="#">2022-7686</a>	Invoice	11/01/2022	Blue-White M3S24-SND	0.00	5,900.45	
00528	GILTON SOLID WASTE MANAGE	01/11/2023	Regular	0.00	1,895.07	56149
<a href="#">HUGHSS-077</a>	Invoice	01/02/2023	STREET SWEEPING for December 2022	0.00	1,895.07	



## Check Report

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
00546	GRANITE TELECOMMUNICATION	01/11/2023	Regular	0.00	2,978.60	56150
<a href="#">586537646</a>	Invoice	01/01/2023	PHONES	0.00	2,978.60	
00614	HUGHSON FARM SUPPLY	01/11/2023	Regular	0.00	523.20	56151
<a href="#">H440094</a>	Invoice	12/01/2022	Blanket PO	0.00	24.36	
<a href="#">H440241</a>	Invoice	12/02/2022	Blanket PO	0.00	93.39	
<a href="#">H440378</a>	Invoice	12/05/2022	Blanket PO	0.00	31.77	
<a href="#">H440529</a>	Invoice	12/06/2022	Blanket PO	0.00	153.16	
<a href="#">H440823</a>	Invoice	12/08/2022	Blanket PO	0.00	32.33	
<a href="#">H440939</a>	Invoice	12/09/2022	Blanket PO	0.00	36.17	
<a href="#">H441489</a>	Invoice	12/15/2022	Blanket PO	0.00	75.46	
<a href="#">H441530</a>	Invoice	12/16/2022	Blanket PO	0.00	76.56	
00627	HUGHSON NAPA AUTO & TRUCK	01/11/2023	Regular	0.00	8.50	56152
<a href="#">352023</a>	Invoice	12/06/2022	Blanket PO Napa	0.00	8.50	
01805	Joaquin Painting	01/11/2023	Regular	0.00	44,787.00	56153
<a href="#">9698</a>	Invoice	12/14/2022	senior center floors	0.00	44,787.00	
00682	KAISER FOUNDATION HEALTH	01/11/2023	Regular	0.00	6,633.91	56154
<a href="#">691534618860</a>	Invoice	12/25/2022	MEDICAL SERVICES- February 2023	0.00	6,633.91	
01748	Martin Marietta Materials, Inc	01/11/2023	Regular	0.00	248.16	56155
<a href="#">37585647</a>	Invoice	01/10/2023	asphalt for Narcisco	0.00	248.16	
01606	McClatchy Company LLC	01/11/2023	Regular	0.00	573.25	56156
<a href="#">163544</a>	Invoice	11/30/2022	Print Recruitment Ad DOF	0.00	573.25	
00611	Mid Valley Publications	01/11/2023	Regular	0.00	932.40	56157
<a href="#">340107</a>	Invoice	11/18/2022	Pine and 4th Concrete - Legal Notice	0.00	932.40	
00775	MISSION UNIFORM SERVICE	01/11/2023	Regular	0.00	1,156.50	56158
<a href="#">518265375</a>	Invoice	11/30/2022	Blanket PO uniforms	0.00	106.50	
<a href="#">518307390</a>	Invoice	12/05/2022	Blanket PO uniforms	0.00	69.74	
<a href="#">518307391</a>	Invoice	12/05/2022	Blanket PO uniforms	0.00	137.80	
<a href="#">518307393</a>	Invoice	12/05/2022	Blanket PO uniforms	0.00	61.10	
<a href="#">518347558</a>	Invoice	12/09/2022	Blanket PO uniforms	0.00	166.09	
<a href="#">518350825</a>	Invoice	12/12/2022	Blanket PO uniforms	0.00	66.24	
<a href="#">518350826</a>	Invoice	12/12/2022	Blanket PO uniforms	0.00	76.10	
<a href="#">518350827</a>	Invoice	12/12/2022	Blanket PO uniforms	0.00	61.10	
<a href="#">518394614</a>	Invoice	12/19/2022	Blanket PO uniforms	0.00	66.24	
<a href="#">518394615</a>	Invoice	12/19/2022	Blanket PO uniforms	0.00	76.10	
<a href="#">518394616</a>	Invoice	12/19/2022	Blanket PO uniforms	0.00	61.10	
<a href="#">518437824</a>	Invoice	12/26/2022	Blanket PO uniforms	0.00	66.24	
<a href="#">518437825</a>	Invoice	12/26/2022	Blanket PO uniforms	0.00	81.05	
<a href="#">518437826</a>	Invoice	12/26/2022	Blanket PO uniforms	0.00	61.10	
00824	NEUMILLER & BEARDSLEE	01/11/2023	Regular	0.00	14,087.75	56159
<a href="#">335713</a>	Invoice	12/21/2022	LEGAL SERVICES	0.00	1,600.00	
<a href="#">335714</a>	Invoice	12/21/2022	LEGAL SERVICES	0.00	3,500.00	
<a href="#">336233</a>	Invoice	12/21/2022	LEGAL SERVICES	0.00	8,987.75	
00879	PG & E	01/11/2023	Regular	0.00	1,793.52	56160
<a href="#">INV0008359</a>	Invoice	12/23/2022	UTILITIES	0.00	1,793.52	
00901	PREFERRED ALLIANCE, INC.	01/11/2023	Regular	0.00	169.49	56161
<a href="#">0178932-IN</a>	Invoice	11/30/2022	OFF-SITE PARTICIPANT	0.00	169.49	
00914	Harbans Singh ET AL	01/11/2023	Regular	0.00	300.06	56162
<a href="#">1014218</a>	Invoice	12/21/2022	Blanket PO Diesel (highway)	0.00	300.06	
01784	Ryan Process INC	01/11/2023	Regular	0.00	3,505.37	56163
<a href="#">2211007-INV</a>	Invoice	11/03/2022	Masterflex Pump and Tubing	0.00	3,505.37	



## Check Report

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
00978	SAN JOAQUIN VALLEY Air Pollution Control Distric	01/11/2023	Regular	0.00	1,043.00	56164
<a href="#">N155674</a>	Invoice	12/30/2022	23/24 Annual Permits to Operate	0.00	900.00	
<a href="#">N155675</a>	Invoice	12/30/2022	23/24 Annual Permits to Operate	0.00	143.00	
01599	SMILE BUSINESS PRODUCTS, INC	01/11/2023	Regular	0.00	99.24	56165
<a href="#">1088061</a>	Invoice	01/09/2023	COPIES	0.00	99.24	
01069	STEELEY, JARED WATER & WA	01/11/2023	Regular	0.00	2,704.00	56166
<a href="#">9696</a>	Invoice	01/03/2023	Balnket PO Lab /service	0.00	2,704.00	
01110	TESCO CONTROLS, INC	01/11/2023	Regular	0.00	5,510.04	56167
<a href="#">0078131-IN</a>	Invoice	11/07/2022	Clarifier Flowmeters	0.00	5,510.04	
01152	TYLER TECHNOLOGIES	01/11/2023	Regular	0.00	150.00	56168
<a href="#">025-405658</a>	Invoice	12/12/2022	Accounts Payable- Training Ramos	0.00	150.00	
01159	UNITED PAVEMENT MAINTENANCE	01/11/2023	Regular	0.00	358,113.03	56169
<a href="#">11207</a>	Invoice	12/02/2022	22-30 Tully rd and 2nd st Sewer Water Pro	0.00	358,113.03	
01264	VERIZON WIRELESS	01/11/2023	Regular	0.00	456.12	56170
<a href="#">9923772447</a>	Invoice	01/09/2023	MIFI DEVICES/ CAMERAS	0.00	456.12	
01206	WARDEN'S OFFICE	01/11/2023	Regular	0.00	48.21	56171
<a href="#">2090586-0</a>	Invoice	01/03/2023	MISC OFFICE SUPPLIES	0.00	48.21	
01226	WILLE ELECTRIC	01/11/2023	Regular	0.00	92.92	56172
<a href="#">S2120627.001</a>	Invoice	01/10/2023	electric detector	0.00	92.92	
01779	Complex Steel Building	01/12/2023	Regular	0.00	17,506.31	56173
<a href="#">COH01152023</a>	Invoice	01/11/2023	Carport at WWTP	0.00	17,506.31	
01817	Black Castle Construction	01/13/2023	Regular	0.00	55,000.00	56174
<a href="#">INV0008429</a>	Invoice	12/19/2022	Draw 1 for Quote 0500, Material and Labor	0.00	55,000.00	
00862	P.E.R.S.	01/06/2023	Bank Draft	0.00	128.50	DFT0001962
<a href="#">INV0008371</a>	Invoice	01/06/2023	PERRA EE	0.00	128.50	
00862	P.E.R.S.	01/06/2023	Bank Draft	0.00	142.20	DFT0001963
<a href="#">INV0008372</a>	Invoice	01/06/2023	PEPRA-ER	0.00	142.20	
01067	STATE OF CALIFORNIA	01/06/2023	Bank Draft	0.00	119.76	DFT0001964
<a href="#">INV0008373</a>	Invoice	01/06/2023	State Income Tax	0.00	119.76	
01067	STATE OF CALIFORNIA	01/06/2023	Bank Draft	0.00	20.94	DFT0001967
<a href="#">INV0008376</a>	Invoice	01/06/2023	Payroll SDI	0.00	20.94	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	16.00	DFT0001968
<a href="#">INV0008409</a>	Invoice	01/13/2023	CalPERS Survivor	0.00	16.00	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	817.05	DFT0001969
<a href="#">INV0008410</a>	Invoice	01/13/2023	Classic CalPERS	0.00	817.05	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	1,432.89	DFT0001970
<a href="#">INV0008411</a>	Invoice	01/13/2023	CalPER ER	0.00	1,432.89	
00226	CalPERS SUPPLEMENTAL INCO	01/13/2023	Bank Draft	0.00	50.00	DFT0001971
<a href="#">INV0008412</a>	Invoice	01/13/2023	ROTH CONTRIBUTION	0.00	50.00	
00226	CalPERS SUPPLEMENTAL INCO	01/13/2023	Bank Draft	0.00	977.73	DFT0001972
<a href="#">INV0008414</a>	Invoice	01/13/2023	CalPer Def Comp	0.00	977.73	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	2,384.48	DFT0001974
<a href="#">INV0008418</a>	Invoice	01/13/2023	PERRA EE	0.00	2,384.48	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	2,638.82	DFT0001975
<a href="#">INV0008419</a>	Invoice	01/13/2023	PEPRA-ER	0.00	2,638.82	



## Check Report

Date Range: 01/06/2023 - 01/17/2023

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Post Date	Payable Description	Discount Amount	Payable Amount	
00862	P.E.R.S.	01/13/2023	Bank Draft	0.00	319.76	DFT0001976
<a href="#">INV0008420</a>	Invoice	01/13/2023	PERS Service Credit Purchase	0.00	319.76	
01067	STATE OF CALIFORNIA	01/13/2023	Bank Draft	0.00	1,331.62	DFT0001977
<a href="#">INV0008422</a>	Invoice	01/13/2023	State Income Tax	0.00	1,331.62	
01067	STATE OF CALIFORNIA	01/13/2023	Bank Draft	0.00	49.69	DFT0001980
<a href="#">INV0008425</a>	Invoice	01/13/2023	ETT	0.00	49.69	
01067	STATE OF CALIFORNIA	01/13/2023	Bank Draft	0.00	1,192.07	DFT0001981
<a href="#">INV0008426</a>	Invoice	01/13/2023	SUI	0.00	1,192.07	
01067	STATE OF CALIFORNIA	01/13/2023	Bank Draft	0.00	506.97	DFT0001983
<a href="#">INV0008428</a>	Invoice	01/13/2023	Payroll SDI	0.00	506.97	

## Bank Code Payable Bank Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	100	64	0.00	752,291.26
Manual Checks	0	0	0.00	0.00
Voided Checks	0	1	0.00	-55,000.00
Bank Drafts	16	16	0.00	12,128.48
EFT's	0	0	0.00	0.00
	<b>116</b>	<b>81</b>	<b>0.00</b>	<b>709,419.74</b>



**All Bank Codes Check Summary**

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	100	64	0.00	752,291.26
Manual Checks	0	0	0.00	0.00
Voided Checks	0	1	0.00	-55,000.00
Bank Drafts	21	21	0.00	18,498.60
EFT's	0	0	0.00	0.00
	<b>121</b>	<b>86</b>	<b>0.00</b>	<b>715,789.86</b>

**Fund Summary**

Fund	Name	Period	Amount
999	POOLED CASH/CONSOLIDATED CASH	1/2023	715,789.86
			<b>715,789.86</b>





## **CITY COUNCIL AGENDA ITEM NO. 3.4**

### **SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Approval of the Treasurer's Report for September 2022  
**Enclosure:** Treasurer Report - September 2022  
**Presented By:** Ashton Gose, Executive Assistant/City Clerk  
**Approved By:** Merry Mayhew  
City Manager

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#### **Staff Recommendation:**

Approve the City of Hughson Treasurer's Report for September 2022.

#### **Background and Discussion:**

The City Treasurer reviews the City's cash and investment practices and approves the monthly Treasury Reports and a quarterly Investment Portfolio Report. As of September 2022, the City of Hughson has a cash and investment balance total of \$30,881,625 with \$2,620,624 invested. All investment actions executed since the last report have been made in full compliance with the City of Hughson's Investment Policy. The City of Hughson will meet its expenditure obligations for the next six months as required by California Government Code Section 53646 (b) (2) and (3) respectively.

The Treasurer report for September 2022 reflects the most current representation of the City's funds and investments and provides a necessary outlook for both past, and present investment and spending habits. While investments and funds differ from time to time, it is the goal of the City to maintain safety and stability with its funds, while additionally promoting prudence and growth.

Attached is the City of Hughson Treasurer's Report for September 2022, along with supplementary graphs depicting the percentage of the City's total funds, a breakdown of the Developer Impact Fees, and an additional line plot graph further demonstrating the Developer Impact Fees. This graph depicts the Developer Impact Fees' actual balance for the past five years. After review and evaluation of the report, City staff has researched funds with a significant deficit balance and submits the following detailed explanation for September 2022:



#### Transportation Capital and CDBG Street Project Fund:

The Transportation Capital Project Fund currently reflects a negative balance of (\$240,938), which is a positive difference of \$487 from the previous year. The CDBG Street Project Fund currently reflects a negative balance of (\$18,629) reflecting a positive difference of \$36,283 from the previous year. As the City continues to produce transportation projects, the transportation fund will likely continue to show a negative balance. City staff will continue to monitor and report the status of these reimbursements as the funds become available.

#### **Fiscal Impact:**

As of September 2022, the City's cash and investments total \$30,881,625. This compares to a September 2021 balance of \$26,748,149 and represents an increase of \$4,133,477.



**City of Hughson  
Treasurer's Report  
September 2022**

	<b>MONEY MARKET</b>	<b>GENERAL</b>	<b>REDEVELOPMENT**</b>	<b>TOTAL</b>
Bank Statement Totals	\$ 27,477,116.12	\$ 844,777.41	\$ -	\$ 28,321,893.53
Adjustment	\$ 1,057.98	\$ 231.54		
Outstanding Deposits +	\$ 97,574.90	\$ 465.00	\$ -	\$ 98,039.90
Outstanding Checks/transfers -	\$ (26,774.42)	\$ (132,157.32)	\$ -	\$ (158,931.74)
<b>ADJUSTED TOTAL</b>	<b>\$ 27,548,974.58</b>	<b>\$ 713,316.63</b>	<b>\$ -</b>	<b>\$ 28,261,001.69</b>
Investments: Various				\$ 1,048,980.05
Multi-Bank WWTP				\$ 1,486,318.02
Investments: L.A.I.F.		\$ 42,730.76	\$ 42,594.86	\$ 85,325.62

**General Ledger Adjustments**

Wages Payable 0.00

**TOTAL CASH & INVESTMENTS \$ 30,881,625.38**


<b>Books - All Funds</b>	<b>September 2021</b>	<b>September 2022</b>	<b>Difference</b>	<b>% of Variance</b>
100 GENERAL FUND	3625457	3579140.92	-46,316.08	-1.28%
105 GENERAL FUND CONTINGENCY RESERVE	1008859.5	1099071.4	90,211.90	8.94%
110 FIXED ASSETS	0	0	0.00	n/a
210 SEWER	3217172.31	3667335.75	450,163.44	13.99%
215 SEWER FIXED ASSET REPLACEMENT	5028241.54	5178784.82	150,543.28	2.99%
220 SEWER DEV IMPACT FEE	-361348.03	296444.62	657,792.65	182.04%
225 WWTP Expansion 2008	104921.57	-184054.07	-288,975.64	-275.42%
240 WATER	750333.31	1173845.35	423,512.04	56.44%
245 Water TCP123	2780869.95	3639891.66	859,021.71	30.89%
250 WATER DEV IMPACT FEE	278358.63	459648.45	181,289.82	65.13%
255 Water Fixed Asset Replacement	1741673.35	723178.31	-1,018,495.04	-58.48%
270 COMMUNITY/SENIOR CENTER	19386.58	19419.48	32.90	0.17%
280 U.S.F. Resource Com. Center	1038.29	-1767.13	-2,805.42	-270.20%
310 Garbage/Refuse	140977.63	208481.18	67,503.55	47.88%
320 GAS TAX 2103	195034.22	207098.2	12,063.98	6.19%
321 GAS TAX 2105	79695.25	98079.93	18,384.68	23.07%
322 GAS TAX 2106	-3728.89	-22021.46	-18,292.57	-490.56%
323 GAS TAX 2107	46334.1	52431.94	6,097.84	13.16%
324 GAS TAX 2107.5	4422.14	5672.14	1,250.00	28.27%
325 Measure L SALES TAX-ROADS	826128.14	1313528.65	487,400.51	59.00%
326 SB-1 ROADS MAINTENANCE REHABILITATION	343424.91	480405.97	136,981.06	39.89%
340 LANDSCAPE LIGHTING DISTRICT	0	-1145.75	-1,145.75	#DIV/0!
350 BENEFIT ASSESSMENT DISTRICT	0	-126.84	-126.84	#DIV/0!
360 COMMUNITY FACILITIES DISTRICT	7255.15	7255.15	0.00	0.00%
370 COMMUNITY ENHANCEMENT DEV IMPACT FEE	217485	263858.78	46,373.78	21.32%
371 TRENCH CUT FUND	3093.6	222093.6	219,000.00	7079.13%
372 IT RESERVE	110233.69	117968.36	7,734.67	7.02%
373 SELF-INSURANCE	73303.49	73303.49	0.00	0.00%
374 DIABILITY ACCESS AND EDUCATION	2803.14	4049.48	1,246.34	44.46%
380 CLAIM ON CASH-CLFRF/ARPA	904854	1715909.04	811,055.04	89.63%
381 AB109 PUBLIC SAFETY	35722.29	35722.29	0.00	0.00%
382 ASSET FORFEITURE	1660.43	1660.43	0.00	0.00%
383 VEHICLE ABATEMENT	36034.36	52481.02	16,446.66	45.64%
384 SUPPLEMENTAL LAW ENFORCEMENT SERVICE F	398049.04	448674.06	50,625.02	12.72%
385 FEDERAL FUNDED OFFICER FUND	6620	6620	0.00	0.00%
390 98-EDBG-605 BUSINESS ASSISTANCE	93595.6	93595.6	0.00	0.00%
391 96-EDBG-438 Grant	403.43	403.43	0.00	0.00%
392 94-STBG-799 HOUSING REHAB	228582.58	230153.82	1,571.24	0.69%
393 HOME Program Grant (FTHB)	35043.29	35043.29	0.00	0.00%
394 96-STBG-1013 Grant	211301.77	210636.94	-664.83	-0.31%
395 CALHOME REHAB	40000	40000	0.00	0.00%
410 LOCAL TRANSPORTATION	51671.34	51671.34	0.00	0.00%
415 LOCAL TRANSPORTATION NON MOTORIZED	13219	13219	0.00	0.00%
420 TRANSPORTATION STREET PROJECTS	-241425.15	-240938.15	487.00	0.20%
425 PUBLIC WORKS STREET PROJECTS-CDBG	-54911.39	-18628.78	36,282.61	66.07%
450 STORM DRAIN DEV IMPACT FEE	700750.75	832111.89	131,361.14	18.75%
451 PUBLIC FACILITY DEV IMPACT FEE	1605684.49	1726222.01	120,537.52	7.51%
452 PUBLIC FACILITY STREET DEV IMPACT FEE	352442.29	548036.05	195,593.76	55.50%
453 PARK DEV IMPACT FEE	720675.74	831965.53	111,289.79	15.44%
454 PARKLAND IN LIEU	557592.32	650928.22	93,335.90	16.74%
510 WATER/SEWER DEPOSIT	88788.66	98924	10,135.34	11.42%
520 RDA SUCCESSOR AGENCY	250817.73	347780.33	96,962.60	38.66%
521 RDA FIXED ASSETS	0	0	0.00	n/a
530 LANDSCAPE LIGHTING DISTRICT	6902.39	3528.21	-3,374.18	n/a
531 LANDSCAPE LIGHTING DISTRICT	54278.96	56463.61	2,184.65	n/a
532 LANDSCAPE LIGHTING DISTRICT	28782.86	26508.62	-2,274.24	n/a
533 LANDSCAPE LIGHTING DISTRICT	41365.22	42951.45	1,586.23	n/a
534 LANDSCAPE LIGHTING DISTRICT	-31839.34	-30421.16	1,418.18	n/a
535 LANDSCAPE LIGHTING DISTRICT	9613.43	6403.86	-3,209.57	n/a
536 LANDSCAPE LIGHTING DISTRICT	25374.66	31479.63	6,104.97	n/a
537 LANDSCAPE LIGHTING DISTRICT	-57308.4	-73222.74	-15,914.34	n/a
538 LANDSCAPE LIGHTING DISTRICT	-33172.11	-47343.5	-14,171.39	n/a
539 LANDSCAPE LIGHTING DISTRICT	27995.29	25386.11	-2,609.18	n/a
540 LANDSCAPE LIGHTING DISTRICT	50671.17	52344.57	1,673.40	n/a
541 LANDSCAPE LIGHTING DISTRICT	30367.71	26192.32	-4,175.39	n/a
542 LANDSCAPE LIGHTING DISTRICT	3226.4	-1651.64	-4,878.04	n/a
543 LANDSCAPE LIGHTING DISTRICT	16027.54	28530.94	12,503.40	n/a
550 BENEFIT ASSESSMENT DISTRICT	69505.34	69672.99	167.65	n/a
551 BENEFIT ASSESSMENT DISTRICT	12655.83	11986.51	-669.32	n/a
552 BENEFIT ASSESSMENT DISTRICT	130437.16	146101.41	15,664.25	n/a
553 BENEFIT ASSESSMENT DISTRICT	-1530.37	-7698.14	-6,167.77	n/a
554 BENEFIT ASSESSMENT DISTRICT	52768.08	60954.81	8,186.73	n/a
555 BENEFIT ASSESSMENT DISTRICT	13600.4	31472.2	17,871.80	n/a
560 COMMUNITY FACILITIES DISTRICT	19828.24	27921.58	8,093.34	n/a

Developer Impact Fees \*\*\* 3,514,048.87 4,958,287.33 1,444,238.46  
**TOTAL ALL FUNDS: 26,748,148.60 30,881,625.38 4,133,476.78**

**Break Down of Impact Fees \*\*\***

220 SEWER DEV IMPACT FEE	-361,348.03	\$296,444.62	657,792.65	182.04%
250 WATER DEV IMPACT FEE	278,358.63	\$459,648.45	181,289.82	65.13%
370 COMMUNITY ENHANCEMENT DEV IMPACT FEE	217,485.00	\$263,858.78	46,373.78	21.32%
450 STORM DRAIN DEV IMPACT FEE	700,750.75	\$832,111.89	131,361.14	18.75%
451 PUBLIC FACILITY DEV IMPACT FEE	1,605,684.49	\$1,726,222.01	120,537.52	7.51%
452 PUBLIC FACILITY STREET DEV IMPACT FEE	352,442.29	\$548,036.05	195,593.76	55.50%
453 PARK DEV IMPACT FEE	720,675.74	\$831,965.53	111,289.79	15.44%
<b>Break Down of Impact Fees ***</b>	<b>3,514,048.87</b>	<b>4,958,287.33</b>	<b>1,444,238.46</b>	<b>41.10%</b>

I hereby certify that the investment activity for this reporting period conforms with the Investment Policy adopted by the Hughson City Council, and the California Government Code Section 53601. I also certify that there are adequate funds available to meet the City of Hughson's budgeted and actual expenditures for the next six months.

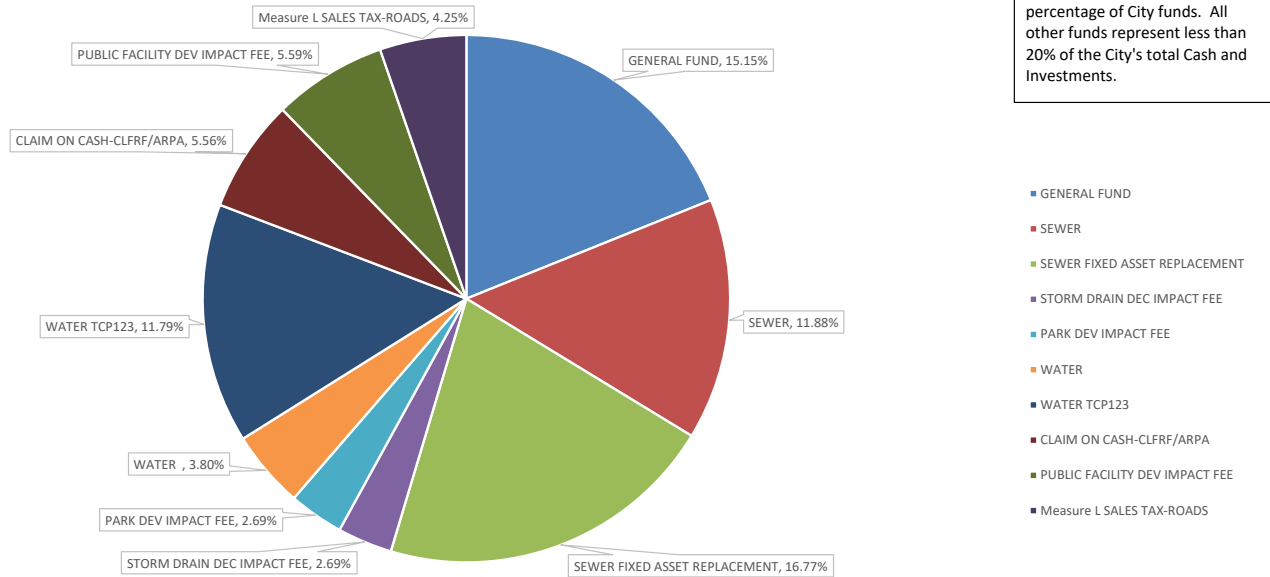
  
Reviewed By: Sopheap Dong-Carreon

**11/30/2022**  
Date

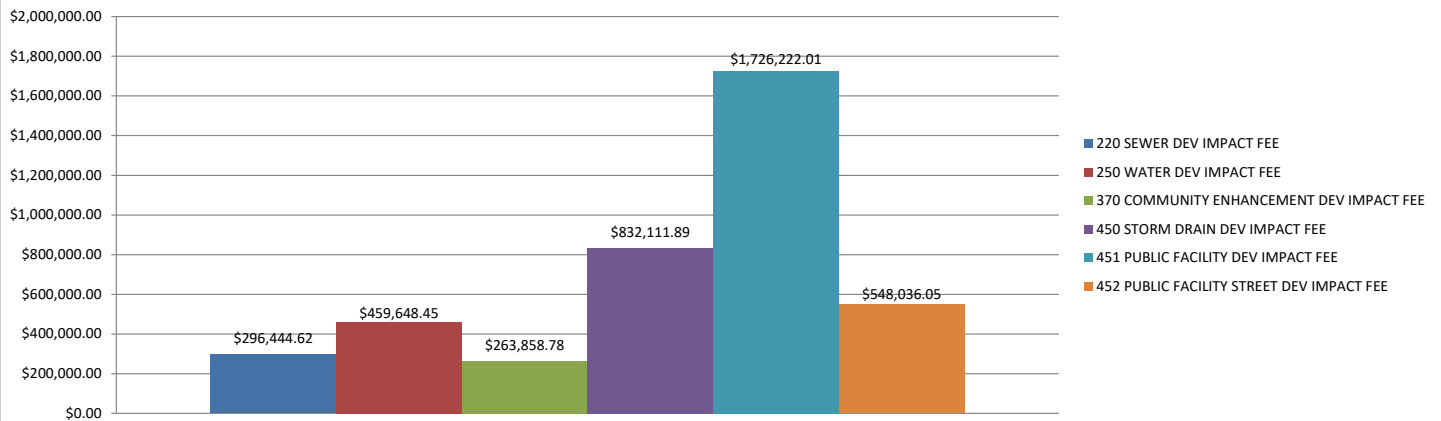


## Treasurer's Report - Charts and Graphs September 2022

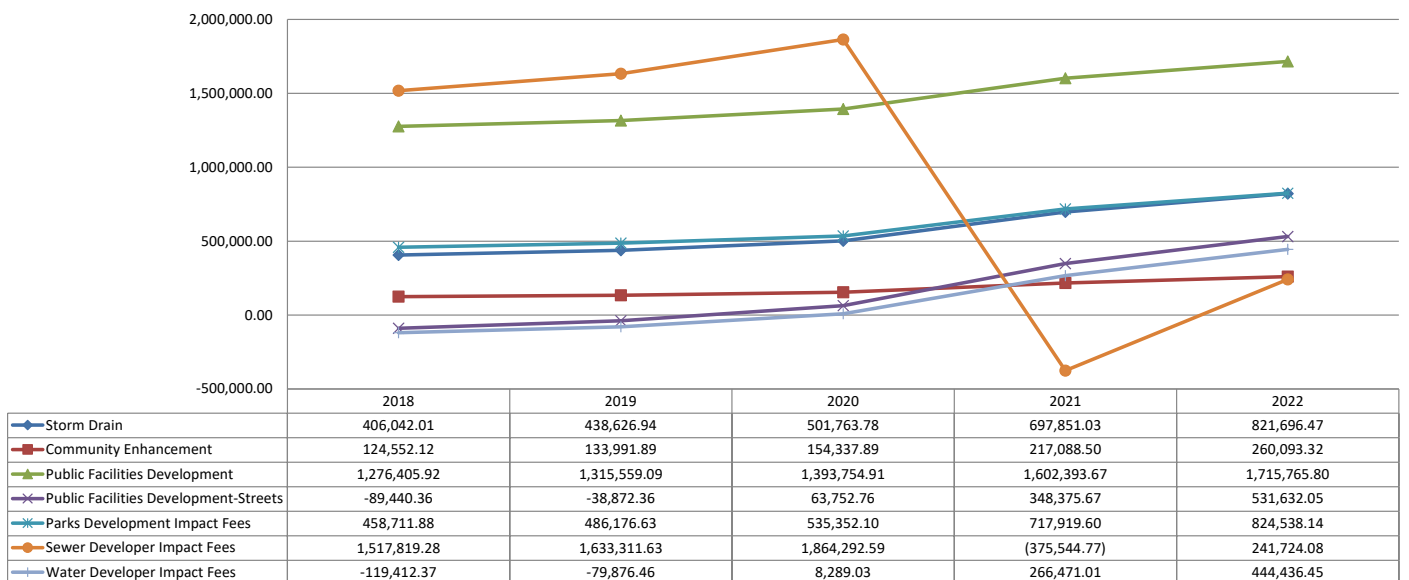
Percentage of Fund - September 2022



September 2022 Breakdown of Developer Impact Fees



5 Year Trend for Developer Impact Fees for the Month of September







## CITY COUNCIL AGENDA ITEM NO. 3.5

### SECTION 3: CONSENT CALENDAR

**Meeting Date:** January 23, 2023  
**Subject:** Appoint a Hughson Representative to the Stanislaus Animal Services Agency Advisory Committee  
**Enclosures:** Application for Appointment  
Stanislaus Animal Services Agency Advisory Committee Bylaws  
Draft City Council Boards & Committees Appointments  
**Presented By:** Ashton Gose, Executive Assistant/City Clerk  
**Approved By:** Merry Mayhew  
City Manager

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#### **Staff Recommendation:**

Appoint Linda Ford to the Stanislaus Animal Services Agency Advisory Committee.

#### **Background and Overview:**

The City Council's participation in various boards and committees within the City and Stanislaus County is very beneficial to the City of Hughson.

To keep track of the boards and committees and to ensure continued involvement, the City Council reviews the Council Committee appointments annually. Modifications to the assignments typically established each year are considered on an as-needed basis.

Due to the Covid-19 pandemic, the Stanislaus Animal Services Agency (SASA) Advisory Committee became inactive in 2020. Currently, there are no active committee members, and until the present time, there has not been an expressed interest by a Hughson resident for the seat on the SASA Advisory Committee.

#### ***Stanislaus Animal Services Agency Advisory Committee***

The Committee was established on September 15, 2011, to protect and enhance the quality of life for animals and residents of Stanislaus County. The Committee is comprised of seven (7) members, six (6) of those members residing in each of the SASA Board member's jurisdiction. Currently, City Manager Mayhew sits as a SASA Board member.



Responsibilities include educating the community on animal care, public relations, and serving as a resource.

Key purposes:

- Serve as an advisor to the SASA Board and Executive Director
- Promote public awareness of the Stanislaus Animal Services Agency
- Develop methods to promote the adoption of animals at the shelter
- Develop methods to decrease the number of animals entering the shelter
- Continue efforts to increase and encourage volunteer participation at the shelter

***Candidate for Appointment – Linda Ford***

Hughson resident Ms. Linda Ford has over fifty (50) years of clerical to administrative experience, including a position formally held with SASA as a Confidential Assistant.

City Clerk Gose reached out to Ms. Ford in the last week to confirm her interest in the appointment in order to bring the item for City Council consideration. Ms. Ford submitted an application for appointment to the SASA Advisory Committee (2-year term) on January 6, 2023.

Should the City Council approve this item, City Manager Mayhew will recommend Ms. Ford's appointment to the Advisory Committee, to the SASA Board for final approval.

**Fiscal Impact:**

There is no fiscal impact to the City of Hughson associated with this item.



**APPLICATION FOR APPOINTMENT TO THE COMMITTEE OF  
Stanislaus Animal Services Agency Advisory Committee**

I, \_\_\_\_\_, hereby make application for consideration by the  
Board of Stanislaus Animal Services Agency to the above-named public office.

Residence Address: \_\_\_\_\_

City/State/Zip Code: \_\_\_\_\_

Phone: Home \_\_\_\_\_ Cell: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Identify strengths, background and experience which could contribute to representation of the  
public sector on policy development. Please list below:

- Employment Experience:
  
  
  
  
  
  
  
  
  
  
- Organization and Community Experience:
  
  
  
  
  
  
  
  
  
  
- Have you ever served on an advisory board/committee? If yes, when and  
which board/committee?





- Education: (High school, college, trade school or training.)  
Note: There is no specific educational requirement.

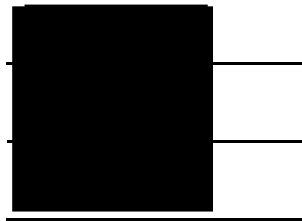
Do you have any financial or professional interest or association related to this position?  
Yes \_\_\_ No \_\_\_ If yes, please explain.

Please list three references with telephone numbers:

Name

Phone

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

A large black rectangular box redacting the phone numbers for the three references listed.

**Applicant Certification: PLEASE READ BEFORE SIGNING.**

I CERTIFY that the statements made by me in this application are true, complete and correct to the best of my knowledge and belief. I understand that statements made are subject to verification and that any misrepresentation, fraud or omission of material facts may result in denial of appointment.

I hereby authorize representatives of Stanislaus Animal Services Agency (SASA) to contact organizations (including employers and schools) and individuals listed, for the purpose of establishing or verifying my qualifications and work history in connection with this application. I understand and acknowledge that such information will be used confidentially and for the purpose of appointment decisions only.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

This form must be emailed to Megan Morriss [morrissm@stancounty.com](mailto:morrissm@stancounty.com) or mailed/hand delivered to Stanislaus Animal Services Agency 3647 Cornucopia Way, Modesto, CA 95358.



# **STANISLAUS ANIMAL SERVICES AGENCY ADVISORY COMMITTEE BYLAWS**

**Adopted June 21, 2012**  
Amended November 20, 2014

## **ARTICLE 1-NAME**

The name of this committee shall be the "Stanislaus Animal Services Agency Advisory Committee. Whenever the term "Committee" is used in these Bylaws, it shall mean Stanislaus Animal Services Agency Advisory Committee.

## **ARTICLE 2 - AUTHORITY**

The authority for the formation and operation of this Committee is set forth in the Joint Powers Agreement Establishing the Stanislaus Animal Services Agency ("SASA") dated October 27, 2009, paragraph 3.3 (j) and Government Code section 6500. The SASA Board approved formation of this Committee at its meeting on September 15, 2011.

## **ARTICLE 3-PURPOSE**

The Committee is established to protect and enhance the quality of life for animals and residents of Stanislaus County. Responsibilities include educating the community on animal care; public relations; and serving as a resource.

- Serve as an advisor to the SASA Board and Executive Director
- Promote a public awareness of the Stanislaus Animal Services Agency
- Develop methods to promote adoption of animals at the shelter.
- Develop methods to decrease the number of animals entering the shelter.
- Continue efforts to increase and encourage volunteer participation at the shelter.

## **ARTICLE 4-MEMBERSHIP**

Section 1. Composition. The composition of this Committee shall be comprised of seven (7) members: six (6) members-Each member of the Stanislaus Animal Services Agency Board shall appoint a member to the Committee who shall reside in that member's jurisdiction; and one (1) member who shall be a licensed veterinarian appointed by the SASA Board. The licensed veterinarian must reside and maintain a physical location for their practice within County of Stanislaus or any of its cities.



The Committee will draw on consultation of California Licensed Veterinarians, kennel owner/operators, animal groups, and others, as needed. The consultants will provide their expertise in a non-voting capacity.

Section 2. Subcommittees. There shall be standing, ad hoc sub-committees. The Chairperson shall recommend members for appointment to these subcommittees, subject the approval of the Committee. No more than three (3) Committee members may serve on each subcommittee. Each subcommittee shall select a chairperson who may or may not be a member of the Committee.

Section 3. Other. The Chairperson shall be an ex-officio member of all committees. All plans and/or recommendations from a subcommittee shall be (a) presented by the sub-committee chairperson, or designee, to the Committee for action and (b) acted upon at the next regularly scheduled meeting of the Committee.

## **ARTICLE 5-MEETINGS**

Section 1. Date and Location of Meetings. The regular meetings of this Committee shall be held on the first Thursday of January, February, April, May, July, August, October and November at 3647 Cornucopia Way, at 6:00pm.

All meetings of the Committee shall be conducted in accordance with the Ralph M. Brown Act. The Chair or a majority of the Committee members may call a special meeting to conduct business outside of the regularly scheduled meeting dates, as needed.

Section 2. Cancellation of Meetings. The Chair of the Committee may cancel a meeting with 72 hours notice. In the event of a meeting cancellation, the Secretary shall provide a notice stating the date, time, and place of the next meeting of the Committee.

Section 3. Public Comment. Every agenda for regular and special meetings shall provide an opportunity for members of the public to address the Committee on any item of interest concerning the Stanislaus Animal Services Agency.

Section 4. Agenda. At least five days before each regular meeting the Secretary shall post and send by email a copy of the agenda of the meeting to each Committee member and member of the public who has requested in writing to receive the agendas of Committee meetings. Committee members shall also receive the printed materials referenced in the agenda, provided they are a reasonable size. In addition, all printed materials referenced in the agenda of the Committee shall be available for public review at the offices of SASA.



## **ARTICLE 6 - PARLIAMENTARY PROCEDURE**

Section 1. Parliamentary Authority. The rules of parliamentary practice set forth in Robert's Rules of Order shall govern all meetings of the Committee.

Section 2. Quorum. A quorum shall consist of a simple majority of the members of the Committee. In the absence of a quorum, the Committee may adjourn or may reschedule the meeting to a specific date and time.

Section 3. Voting. Each of the seven members shall be a voting member of the Committee. The affirmative vote of a majority of a quorum of the Committee shall constitute the vote required for action.

Section 4- Attendance at Meetings. Members are expected to attend all meetings of the Committee and those meetings of the sub-committees on which the member sits. A member who is unable to attend a meeting shall give advance notice of his/her inability to attend the meeting to the chairperson or secretary. A roll call shall be taken at the beginning of each meeting. A member who arrives late (after roll call) has the responsibility to notify the secretary taking minutes of his/her arrival before or by the end of the meeting.

## **ARTICLE 7-OFFICERS**

Section 1-Terms of Chairperson and Vice Chairperson. The officers of the Committee shall be a Chairperson ("Chair") and a Vice-Chairperson ("Vice Chair"). At the first regular meeting of the Committee in January of each calendar year, the members of the Committee shall elect officers from among them. The officers shall take office on the date of their election. Officers shall be elected to serve for one year (1) year or until their successor is elected.

Section 2- Chair Responsibilities. The Chair shall preside at all meetings of the Committee, shall preserve order and decorum, shall decide all questions of order raised by any member, and shall determine the agenda for each meeting in consultation with SASA Executive Director. The Chair shall have the right to participate in the proceedings of the Committee. The Chair shall represent the Committee before the SASA Agency Board. In the absence of the Chair, the Vice-Chair shall preside until such time as the Chair returns or until the next scheduled election. In the absence of both the Chair and the Vice-Chair, the members shall select by motion a member to preside over the meeting.

### Section 3-Secretary.

The SASA Executive Director shall appoint a staff person to serve as Secretary. The Secretary is not a member of the Committee and has no vote. The duties of the Secretary are to act as custodian of the records of the Committee, to make a complete record of the proceedings of the Committee, and to perform other functions directed by the Committee or by these Bylaws



## **ARTICLE 8-ADVISORY COMMITTEE**

Section 1-Term of Office. Each SASA Board member shall recommend an individual for appointment to the Committee in accordance with its local rules, and then subject to the SASA Board's approval. All Committee members shall serve a term of two (2) years, and may be re-appointed for a second term with the approval of the SASA Board. After sitting out one term, a Committee member may re-apply for appointment. Members shall serve without compensation.

Section 2-Removal. Committee members may be removed for good cause by the SASA Board. Upon removal, the SASA Board shall appoint a suitable person, from the same jurisdiction as the removed member, to serve the remaining term of a Committee member. The person appointed to fill this unexpired term shall not be considered to have served a term.

Section 3-Vacancy. When a vacancy occurs for any reason the Committee Secretary shall notify SASA Board. The SASA Board shall appoint a suitable person from the same jurisdiction until the end of the unexpired term. The person appointed to complete the unexpired term shall not be considered to have served a term.

Section 4-Conflict of Interest. When a matter is discussed, considered or voted on by the Committee or a sub-committee that involves potential financial benefit, or other conflicting concern, to a Committee member, that member shall abstain from such discussion, consideration, and vote on that matter.

## **ARTICLE 9: ADOPTION AND AMENDMENT**

Section 1-Adoption. These Bylaws shall become effective immediately upon approval by a majority of the membership of the Committee and approval by the Stanislaus Animal Service Agency Board.

Section 2-Amendment. These Bylaws may be amended by a majority vote of a quorum of the Committee provided that fifteen (15) days before the meeting, the full Committee is notified of the language of such change(s) and of the time, date and place of the intended vote on such change(s). The amendment will not be effective until approved by the Stanislaus Animal Services Agency Board.





## **City Council Boards & Committees Appointments**

**January 1, 2023 – December 31, 2023**

2+2 Committee School District: Quarterly	Ramon Bawanan Julie Strain
2+2 Fire District Committee: Every Other Month	Randy Crooker George Carr
Budget & Finance Subcommittee: As needed – 3 to 4 times per year	Ramon Bawanan George Carr
Economic Development Committee: 4 <sup>th</sup> Monday of Each Month	George Carr Randy Crooker Sam Rush (Alt)
League of California Cities Executive Committee: Quarterly – Or as Needed	George Carr Julie Strain (Alt)
San Joaquin Valley Air Pollution Control District Committee: As Needed	Sam Rush Julie Strain (Alt)
Stanislaus Council of Governments (StanCOG) Board of Directors: 3 <sup>rd</sup> Wednesday of Each Month	George Carr Ramon Bawanan (Alt)
Stanislaus County Disaster Council: Once A Year or As Needed	Julie Strain Ramon Bawanan (Alt)
Stanislaus County Local Task Force on Solid Waste: Quarterly	Sam Rush Randy Crooker (Alt)
Stanislaus Economic Development Action Committee (EDAC): 2 Times Per Year	George Carr Sam Rush (Alt)
JPA – West Turlock Subbasin Groundwater Sustainability Agency - Quarterly	Randy Crooker Sam Rush (Alt)
Turlock Mosquito Abatement District	Michael Ann Mitchell
SASA Advisory Committee	Linda Ford

**Draft January 23, 2023**





## **CITY COUNCIL AGENDA ITEM NO. 3.6**

### **SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Consideration to Re-appoint Alan McFadon to the Planning Commission  
**Presented By:** Ashton Gose, Executive Assistant/City Clerk  
**Approved By:**   
City Manager

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#### **Staff Recommendation:**

Re-appoint Alan McFadon to the Planning Commission.

#### **Background and Overview:**

The Hughson Planning Commission consists of five members appointed by the Mayor, with a majority of the City Council, to alternating two-year terms. Currently, there are two (2) scheduled vacancies for terms that expired on December 31, 2022.

Incumbent Alan McFadon has expressed his interest in continuing to serve on the Planning Commission. If appointed, his term would begin January 1, 2023 and expire on December 31, 2024.

Since there is still one Commission term that expired on December 31, 2022 (former Commissioner Randy Crooker), staff will open an application period, and advertise the vacancy until filled.

#### **Fiscal Impact:**

Per the Hughson Municipal Code, Hughson Planning Commissioners are compensated \$50 per meeting attended and reimbursement of necessary travel and other expenses incurred by the performance of their official duties. The City's annual budget includes funding for this commitment.





## **CITY COUNCIL AGENDA ITEM NO. 3.7**

### **SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023  
**Subject:** Adopt Resolution No. 2023-04, Approving a Professional Services Agreement for Strategic Planning Services and Authorizing the City Manager to Execute the Agreement  
**Enclosures:** Professional Service Agreement  
Sloan Sakai Yeung & Wong LLP – Management Strategies Group Services  
Brad Kilger Narrative  
**Presented By:** Merry Mayhew, City Manager  
**Approved By:** Merry Mayhew  
City Manager

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#### **Staff Recommendations:**

1. Adopt Resolution No. 2023-04, approving the Professional Services Agreement with Sloan Sakai Yeung & Wong for City Council Strategic Planning Services.
2. Authorize the City Manager to execute the Professional Services Agreement with Sloan Sakai Yeung & Wong for City Council Strategic Planning Services inclusive of any final edits by the City Attorney.

#### **Background:**

During Fiscal Year 2017-18 the Hughson City Council and staff undertook a comprehensive update of the Council's goals and objectives process. This included holding a public workshop to assist in determining the City's priorities, values, and vision for the community to help reset the City's goal-setting process. On February 13, 2018, the Hughson City Council approved updated vision and mission statements and a set of values that reflected the City's desire for the future of Hughson and indicate how the City will carry out its duties to achieve that future. The Council also adopted a list of goals and accompanying action steps to set forth the priority programs and projects the City expected to accomplish and how it would focus its resources.



Since 2018 the Council has reviewed a Goals Report in 2019, 2020, and 2021 to ensure the goals align with allocated resources during the annual budget process and to establish the City's priorities for the upcoming year. With the addition of two new members to the City Council staff believes it is an opportune time to revisit the City's current vision, mission, values, goals and most important priorities in order to ensure they reflect the intent of the current City Council and also to ensure the City's limited resources are properly focused on the most critical needs and projects.

## **Discussion:**

If Council concurs, staff is recommending the City Council undertake an update of the goal-setting process similar to what was done in 2018. However, staff believes it would be beneficial to utilize a more comprehensive strategic planning approach to formulating the Council's priorities for the coming fiscal year. Strategic planning includes goal setting, but it can also include a review of current data on community and economic trends, infrastructure needs; staffing, City finances, an assessment of the City's strengths, weaknesses (challenges) opportunities, and threats, and the creation of a prioritized action plan. These tools assist the City in identifying relevant priority projects and prioritizing services and resource allocations that address the current needs of the community, in addition to crafting the City's mission, vision, and values.

The benefits to using a strategic plan process include:

- Providing clear guidance on the goals of the governing body to the City Manager.
- Creating a communication device for the Council, staff, and community members.
- Providing a framework for making budgetary decisions.
- Assisting in prioritizing programs and projects.
- Assisting in focusing the allocation of limited financial and staffing resources.
- Informing the community about City services, fundamental needs and financial capacity
- Assisting in obtaining input from the community about the City's future.

Developing a comprehensive long-term (three to five-year) strategic plan takes significant time, planning and funding. Such an endeavor is most likely not practical for a City the size of Hughson with our limited resources. Therefore, staff is recommending a process that is more manageable yet serves the purpose of identifying the Council's priorities and implementing them based on the best available data and information.

The process envisioned by staff would include the following components:

- Interviews of Council, management staff and key stakeholders to ascertain needs and wants and perceptions of the opportunities and challenges facing the City in accomplishing those needs.
- City Council conducts a single full-day workshop or two half-day workshops to do the following:



- Review the data collected and the results of interviews.
  - Discuss the City's current strengths, weaknesses, opportunities and threats.
  - Review and discuss the City's current vision, mission, and values and make any desired modifications.
  - Review of current goals and the progress in attaining them.
  - Establish a set of long-range goals and if appropriate objectives.
  - Develop a list of specific actions to accomplish over the next 12 to 24 months for each goal.
  - Using agreed-upon selection criteria conduct an initial prioritization of the action items.
- Staff will take the decisions of the Council and prepare a draft strategic plan for Council consideration at a future Council meeting.
  - As part of the upcoming budget process the proposed action items will be reviewed to evaluate staffing resources and funding requirements for each action item. Based on this information the Council will conduct a final prioritization of the action items. Those selected will be incorporated into the FY 2023-24 Budget.

The end result is a document that sets forth the City's current vision, mission, values, goals and objectives and outlines a strategy for implementing them. The plan would be used by both the City Council and staff to prioritize services and projects. This is especially true for new opportunities that present themselves. If something that is not in the City's work plan or budget comes up, staff and the Council can evaluate whether this opportunity meets the objectives of the adopted Strategic Plan.

Staff is seeking City Council concurrence to undertake a strategic planning process that will enhance the City's long-term planning and goal setting, which will help provide a foundation for making budgeting decisions and the prioritization of services in a fiscally sustainable manner. If Council agrees to proceed, staff will need assistance in developing the information and materials for the Council's workshop. It would also be beneficial to utilize the services of an experienced strategic planning consultant to facilitate the workshop. Staff has reached out to an experienced public sector management consulting firm, Sloan Sakai Yeung & Wong, which has offered the services of one of their team to assist staff (see attached background information and consultant biography). As City staff cannot determine the exact number of consultant hours that will be required to assist staff in conducting the strategic planning process, it is recommended the City enter into a professional service agreement for a not-to-exceed amount.

### **Fiscal Impact:**

The proposed professional service agreement is for a not-to-exceed amount of \$10,000 for a limited term duration of four months and will be funded through the General Fund. There are existing budget appropriations to pay for the consultant services due to current finance staff vacancies.



**CITY COUNCIL  
CITY OF HUGHSON  
RESOLUTION NO. 2023-04**

**RESOLUTION OF THE CITY OF HUGHSON CITY COUNCIL APPROVING THE  
PROFESSIONAL SERVICES AGREEMENT WITH SLOAN SAKAI YEUNG & WONG  
FOR STRATEGIC PLANNING SERVICES**

**WHEREAS**, the City has determined that it requires the professional services of a consultant to assist City staff in conducting a strategic planning process to create a vision for City of Hughson's future, and determining the necessary goals, priorities, and action strategies to achieve that vision; and

**WHEREAS**, the City and the Consultant desire to enter into this "Master Professional Service Agreement," which commences on January 24, 2023, for the Consultant to provide the above-described planning services; and

**WHEREAS**, the Consultant represents that it is fully qualified to perform such professional services by virtue of its experience and the training, education and expertise of its principals and employees; and

**WHEREAS**, the Consultant further represents that it is willing to accept responsibility for performing such services in accordance with the terms and conditions set forth in this Agreement.

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson approves the Professional Services Agreement with Sloan Sakai Yeung & Wong for strategic planning services in an amount not to exceed \$10,000.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23<sup>rd</sup> day of January 2023 by the following roll call vote:

**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

\_\_\_\_\_  
**GEORGE CARR, Mayor**

**ATTEST:**

\_\_\_\_\_  
**ASHTON GOSE, City Clerk**



**MASTER  
PROFESSIONAL SERVICES AGREEMENT**  
(City of Hughson/ Sloan Sakai Yeung & Wong LLP)

THIS MASTER SERVICES AGREEMENT ("Agreement") is entered into by and between the City of Hughson, a California municipal corporation ("City") and Sloan Sakai Yeung & Wong LLP ("Consultant").

**RECITALS**

WHEREAS, the City has determined that it requires the professional services of a consultant to assist City staff in conducting a strategic planning process to create a vision for City of Hughson's future, and determining the necessary goals, priorities, and action strategies to achieve that vision.

WHEREAS, the City and the Consultant desire to enter into this "Master Professional Service Agreement," which commences on January 24, 2023, for the Consultant to provide the above-described planning services.

WHEREAS, the Consultant represents that it is fully qualified to perform such professional services by virtue of its experience and the training, education and expertise of its principals and employees.

WHEREAS, the Consultant further represents that it is willing to accept responsibility for performing such services in accordance with the terms and conditions set forth in this Agreement.

**NOW, THEREFORE**, for and in consideration of the mutual covenants and conditions herein contained, City and Consultant agree as follows:

**1. DEFINITIONS**

1.1. "Scope of Services" means the professional services as are generally set forth in Scope attached hereto as Exhibit A, and incorporated herein by this reference.

1.2. "Approved Fee Schedule" means the compensation rates as are set forth in Consultant's "Compensation" document attached hereto as Exhibit B.

1.3. "Commencement Date" means January 25, 2023.

1.4. "Expiration Date" means the date the contract is expired.



## **2. TERM**

2.1 The term of this Agreement shall commence at 12:00 a.m. on January 25, 2023 and shall expire at 11:59 p.m. on May 26, 2023 unless extended by written agreement of the parties or terminated earlier in accordance with Section 14 ("Termination") below.

## **3. CONSULTANT'S SERVICES**

3.1. Consultant shall perform the services identified in the Scope of Services attached as Exhibit A. City shall have the right to request, in writing, changes in the Scope of Services. Any such changes mutually agreed upon by the parties, and any corresponding increase or decrease in compensation, shall be incorporated by written amendment to this Agreement. In no event shall the total compensation and costs payable to Consultant under this Agreement exceed the total sum set forth in Section 4.1 unless specifically approved in advance and in writing by City.

3.2. Services performed by Consultant under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. Consultant shall comply with all applicable federal, state and local laws and regulations, including the conflict of interest provisions of Government Code Section 1090 and the Political Reform Act (Government Code Section 81000 et seq.).

3.3. Consultant represents that it has, or will secure at its own expense, all personnel required to perform the services identified in the Scope of Services. All such services shall be performed by Consultant or under its supervision, and all personnel engaged in the work shall be qualified to perform such services. The Community Development Director, or his/her designee shall be Consultant's project administrator and shall have direct responsibility for management of Consultant's performance under this Agreement. No change shall be made in Consultant's project administrator without City's prior written consent.

## **4. COMPENSATION**

4.1. City agrees to compensate Consultant for the services provided under this Agreement, and Consultant agrees to accept in full satisfaction for such services, payment in accordance with Exhibit B. The maximum compensation for the services to be provided under this Agreement Consultant may charge City and which City will pay Consultant is \$10,000. City also agrees to reimburse Consultant for any extraordinary costs Consultant incurs in the performance of the services provided under this Agreement, provided such extraordinary costs are approved in writing by City.

4.2 Consultant shall submit to City an invoice for the services performed pursuant to this Agreement. Each invoice shall include a detailed itemization of the services rendered during the billing period and the amount due. Within ten business days of receipt of each invoice, City shall



notify Consultant in writing of any disputed amounts included on the invoice. Within thirty days (30) calendar days of receipt of each invoice, City shall pay all undisputed amounts included on the invoice. City shall not withhold applicable taxes or other authorized deductions from payments made to Consultant.

4.3. Payments for any services requested by City and not included in the Scope of Services shall be made to Consultant by City on a time-and-materials basis using Consultant's standard fee schedule.

## **5. OWNERSHIP OF WRITTEN PRODUCTS**

5.1. All reports, documents or other written material ("written products") developed by Consultant in the performance of this Agreement shall be and remain the property of City without restriction or limitation upon its use or dissemination by City. Consultant may take and retain copies of such written products as desired, but no such written products shall be the subject of a copyright application by Consultant.

## **6. RELATIONSHIP OF PARTIES**

6.1. Consultant is, and shall at all times remain as to City, a wholly independent contractor. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise to act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not represent that it is, or that any of its agents or employees are, in any manner employees of City.

## **7. CONFIDENTIALITY**

7.1. To the fullest extent permitted by law, all data, documents, discussion, or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without prior written consent by City. City shall grant such consent if disclosure is legally required. Upon request, all City data shall be returned to City upon the termination or expiration of this Agreement.

## **8. INDEMNIFICATION**

8.1. To the fullest extent permitted by law, Consultant shall indemnify, hold harmless and defend City, its officers, agents, employees and volunteers from and against any and all claims and losses, costs or expenses for any damage due to death or injury to any person and injury to any property resulting from any alleged acts that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant or any of its officers, employees, servants, agents, or subcontractors in the performance of this Agreement, except those matters arising from City's sole negligence or willful misconduct. Such costs and expenses shall include reasonable attorneys' fees incurred by counsel of City's choice. To the extent applicable, Consultant's duty



to defend professional liability claims is subject to the provisions of California Civil Code Section 2782.2.

8.2. City shall have the right to offset against the amount of any compensation due Consultant under this Agreement any amount due City from Consultant as a result of Consultant's failure to pay City promptly any indemnification arising under this Section 8.

8.3. The obligations of Consultant under this Section 8 will not be limited by the provisions of any workers' compensation act or similar act. Consultant expressly waives any statutory immunity under such statutes or laws as to City, its officers, agents, employees and volunteers.

8.4. Consultant agrees to obtain executed indemnity agreements with provisions identical to those set forth here in this Section 8 from each and every subcontractor or any other person or entity involved by, for, with or on behalf of Consultant in the performance of this Agreement. In the event Consultant fails to obtain such indemnity obligations from others as required herein, Consultant agrees to be fully responsible and indemnify, hold harmless and defend City, its officers, agents, employees and volunteers from and against any and all claims and losses, costs or expenses for any damage due to death or injury to any person and injury to any property resulting from any alleged intentional, reckless, negligent, or otherwise wrongful acts, errors or omissions of Consultant's subcontractors or any other person or entity involved by, for, with or on behalf of Consultant in the performance of this Agreement. Such costs and expenses shall include reasonable attorneys' fees incurred by counsel of City's choice.

8.5. City does not, and shall not, waive any rights that it may possess against Consultant because of the acceptance by City, or the deposit with City, of any insurance policy or certificate required pursuant to this Agreement. This hold harmless and indemnification provision shall apply regardless of whether or not any insurance policies are determined to be applicable to the claim, demand, damage, liability, loss, cost or expense.

## **9. INSURANCE**

9.1. During the term of this Agreement, Consultant shall carry, maintain, and keep in full force and effect insurance against claims for death or injuries to persons or damages to property that may arise from or in connection with Consultant's performance of this Agreement. Such insurance shall be of the types and in the amounts as set forth below:

9.1.1. Comprehensive General Liability Insurance with coverage limits of not less than One Million Dollars (\$1,000,000), per occurrence and in the aggregate, including products and operations hazard, contractual insurance, broad form property damage, independent consultants, personal injury, underground hazard, and explosion and collapse hazard where applicable.

9.1.2. Automobile Liability Insurance for vehicles used in connection with the performance of this Agreement with minimum limits of One Million Dollars (\$1,000,000) per claimant and One Million dollars (\$1,000,000) per incident.



9.1.3. Worker's Compensation insurance as required by the laws of the State of California.

9.1.4. Professional Errors and Omissions Insurance with coverage limits of not less than One Million Dollars (\$1,000,000).

9.2. Consultant shall require each of its subcontractors to maintain insurance coverage that meets all of the requirements of this Agreement.

9.3. The policy or policies required by this Agreement shall be issued by an insurer admitted in the State of California and with a rating of at least A:VII in the latest edition of Best's Insurance Guide.

9.4. Consultant agrees that if it does not keep the aforesaid insurance in full force and effect, City may either (i) immediately terminate this Agreement; or (ii) take out the necessary insurance and pay, at Consultant's expense, the premium thereon.

9.5. At all times during the term of this Agreement, Consultant shall maintain on file with City a certificate or certificates of insurance showing that the aforesaid policies are in effect in the required amounts and naming the City and its officers, employees, agents and volunteers as additional insureds. Consultant shall, prior to commencement of work under this Agreement, file with City such certificate(s).

9.6. Consultant shall provide proof that policies of insurance required herein expiring during the term of this Agreement have been renewed or replaced with other policies providing at least the same coverage. Such proof will be furnished at least two weeks prior to the expiration of the coverages.

9.7. The general liability and automobile policies of insurance required by this Agreement shall contain an endorsement naming City and its officers, employees, agents and volunteers as additional insureds. All of the policies required under this Agreement shall contain an endorsement providing that the policies cannot be canceled or reduced except on thirty days' prior written notice to City. Consultant agrees to require its insurer to modify the certificates of insurance to delete any exculpatory wording stating that failure of the insurer to mail written notice of cancellation imposes no obligation, and to delete the word "endeavor" with regard to any notice provisions.

9.8. The insurance provided by Consultant shall be primary to any coverage available to City. Any insurance or self-insurance maintained by City and/or its officers, employees, agents or volunteers, shall be in excess of Consultant's insurance and shall not contribute with it.

9.9. All insurance coverage provided pursuant to this Agreement shall not prohibit Consultant, and Consultant's employees, agents or subcontractors, from waiving the right of subrogation prior to a loss. Consultant hereby waives all rights of subrogation against the City.

9.10. Any deductibles or self-insured retentions must be declared to and approved by the City.



9.11. Procurement of insurance by Consultant shall not be construed as a limitation of Consultant's liability or as full performance of Consultant's duties to indemnify, hold harmless and defend under Section 8 of this Agreement.

## **10. MUTUAL COOPERATION**

10.1. City shall provide Consultant with all pertinent data, documents and other requested information as is reasonably available for the proper performance of Consultant's services under this Agreement.

10.2. In the event any claim or action is brought against City relating to Consultant's performance in connection with this Agreement, Consultant shall render any reasonable assistance that City may require.

## **11. RECORDS AND INSPECTIONS**

11.1. Consultant shall maintain full and accurate records with respect to all matters covered under this Agreement for a period of three years after the expiration or termination of this Agreement. City shall have the right to access and examine such records, without charge, during normal business hours. City shall further have the right to audit such records, to make transcripts therefrom and to inspect all program data, documents, proceedings, and activities.

## **12. NOTICES**

12.1. Any notices, bills, invoices, or reports required by this Agreement shall be deemed received on: (i) the day of delivery if delivered by hand, facsimile or overnight courier service during Consultant's and City's regular business hours; or (ii) on the third business day following deposit in the United States mail if delivered by mail, postage prepaid, to the addresses listed below (or to such other addresses as the parties may, from time to time, designate in writing).

If to City:

City of Hughson  
City Manager  
P.O. Box 9  
Hughson, CA 95326  
Telephone: (209) 883-4054  
Facsimile: (209) 883-2638

With courtesy copy to:

Eric Nims, City Attorney  
Neumiller & Beardslee  
P.O. Box 20  
3121 W. March Lane, Suite 100  
Stockton, CA 95219



Telephone: (209) 948-8200  
Facsimile: (209-) 948-4910

If to the Consultant:

Timothy Yeung, Managing Partner  
555 Capitol Mall, Suite 600  
Sacramento, CA 95814  
Phone: 916-258-8800  
Email: tyeung@sloansakai.com

### **13. SURVIVING COVENANTS**

13.1. The parties agree that the covenants contained in Section 7, Section 8, Paragraph 10.2 and Section 11 of this Agreement shall survive the expiration or termination of this Agreement.

### **14. TERMINATION**

14.1. City shall have the right to terminate this Agreement for any or no reason on five calendar days' written notice to Consultant. Consultant shall have the right to terminate this Agreement for any or no reason on thirty calendar days' written notice to City. Consultant agrees to cease all work under this Agreement on or before the effective date of any notice of termination. All City data, documents, objects, materials or other tangible things shall be returned to City upon the termination or expiration of this Agreement.

14.2. If City terminates this Agreement due to no fault or failure of performance by Consultant, then Consultant shall be paid based on the work satisfactorily performed at the time of termination. In no event shall Consultant be entitled to receive more than the amount that would be paid to Consultant for the full performance of the services required by this Agreement.

### **15. GENERAL PROVISIONS**

15.1. Consultant shall not delegate, transfer, subcontract or assign its duties or rights hereunder, either in whole or in part, without City's prior written consent, and any attempt to do so shall be void and of no effect. City shall not be obligated or liable under this Agreement to any party other than Consultant.

15.2. In the performance of this Agreement, Consultant shall not discriminate against any employee, subcontractor, or applicant for employment because of race, color, creed, religion, sex, marital status, sexual orientation, national origin, ancestry, age, physical or mental disability or medical condition.



15.3. Consultant agrees to comply with the regulations of City's "Conflict of Interest Code." Said Code is in accordance with the requirements of the Political Reform Act of 1974. Consultant covenants that it presently has no interest, and shall not have any interest, direct or interest, which would conflict in any manner with the performance of service required hereunder. The term "conflict" shall include, as a minimum, the definition of a "conflict of interest" under the California Fair Political Practices Act and the City of Hughson Conflict of Interest Code, as that term is applied to consultants.

15.4. In accomplishing the scope of services of this Agreement, Consultant(s) may be performing a specialized or general service for the City, and there is a substantial likelihood that the consultant's work product will be presented, either written or orally, for the purpose of influencing a governmental decision. As a result, employees of the Consultant or the Consultant itself may be subject to a Category "1" disclosure of the City's Conflict of Interest Code. If in fact this applies to the Consultant a form 700 must be filed.

15.5. The captions appearing at the commencement of the sections hereof, and in any paragraph thereof, are descriptive only and for convenience in reference to this Agreement. Should there be any conflict between such heading, and the section or paragraph thereof at the head of which it appears, the section or paragraph thereof, as the case may be, and not such heading, shall control and govern in the construction of this Agreement. Masculine or feminine pronouns shall be substituted for the neuter form and vice versa, and the plural shall be substituted for the singular form and vice versa, in any place or places herein in which the context requires such substitution(s).

15.6. The waiver by City or Consultant of any breach of any term, covenant or condition herein contained shall not be deemed to be a waiver of such term, covenant or condition or of any subsequent breach of the same or any other term, covenant or condition herein contained. No term, covenant or condition of this Agreement shall be deemed to have been waived by City or Consultant unless in writing.

15.7. Consultant shall not be liable for any failure to perform if Consultant presents acceptable evidence, in City's sole judgment, that such failure was due to causes beyond the control and without the fault or negligence of Consultant.

15.8. Each right, power and remedy provided for herein or now or hereafter existing at law, in equity, by statute, or otherwise shall be cumulative and shall be in addition to every other right, power, or remedy provided for herein or now or hereafter existing at law, in equity, by statute, or otherwise. The exercise, the commencement of the exercise, or the forbearance of the exercise by any party of any one or more of such rights, powers or remedies shall not preclude the simultaneous or later exercise by such party of any of all of such other rights, powers or remedies. In the event legal action shall be necessary to enforce any term, covenant or condition herein contained, the party prevailing in such action, whether reduced to judgment or not, shall be entitled to its reasonable court costs, including accountants' fees, if any, and attorneys' fees expended in such action.

15.9. If any term or provision of this Agreement or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, then such term or provision shall be amended to, and solely to, the extent necessary to cure such invalidity or



unenforceability, and in its amended form shall be enforceable. In such event, the remainder of this Agreement, or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby, and each term and provision of this Agreement shall be valid and be enforced to the fullest extent permitted by law.

15.10. This Agreement shall be governed and construed in accordance with the laws of the State of California.

15.11. If either party initiates an action to enforce the terms hereof or declare rights hereunder, the parties agree that the venue thereof shall be the County of Stanislaus, State of California. Consultant hereby waives any rights it might have to remove any such action pursuant to California Code of Civil Procedure Section 394.

15.12. All documents referenced as exhibits in this Agreement are hereby incorporated into this Agreement. In the event of any material discrepancy between the express provisions of this Agreement and the provisions of any document incorporated herein by reference, the provisions of this Agreement shall prevail. This instrument contains the entire Agreement between City and Consultant with respect to the transactions contemplated herein. No other prior oral or written agreements are binding upon the parties. Amendments hereto or deviations herefrom shall be effective and binding only if made in writing and executed by City and Consultant.

15.13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which taken together shall constitute one and the same instrument. Each party agrees that this Agreement and any other documents to be delivered in connection herewith may be electronically signed, and that any electronic signatures appearing on this Agreement or such other documents are the same as handwritten signatures for purposes of validity, enforceability, and admissibility.

TO EFFECTUATE THIS AGREEMENT, the parties have caused their duly authorized representatives to execute this Agreement on the dates set forth below.

“City”  
City of Hughson

“Consultant”  
Sloan Sakai Yeung & Wong LLP

By: \_\_\_\_\_  
Merry Mayhew, City Manager

By: \_\_\_\_\_  
Timothy Yeung, Managing Partner

Date:

Date: 1/18/23



Attest:

By \_\_\_\_\_  
Ashton Gose, City Clerk

Date: \_\_\_\_\_

Approved as to form:

By: \_\_\_\_\_  
Eric Nims, City Attorney

Date:



## **EXHIBIT A**

### **SCOPE OF SERVICES**

Consultant, Sloan Sakai Yeung & Wong LLP ("Consultant"), shall provide strategic planning services, which include, but are not limited to reviewing relevant City documents; preparing reports; assisting City staff in conducting an Environmental Scan of the community; conducting interviews with City Council members and City management staff to ascertain individual expectations and goals for the community, perceptions of the City's strengths and weaknesses in achieving those goals, and suggested priorities to accomplish the goals; facilitating one or two community workshops with City Council and staff to develop an agreed upon vision, mission and values for the City, which will guide the creation of goals and action items to implement the vision; and assisting City staff in the creation of a work plan to appropriately focus staff and City financial resources on accomplishing the adopted action items ("Services"). The Services shall not include any legal advice, legal analysis, or legal representation.

As may be directed by the City Manager, Consultant will also provide other non-legal, consulting services for additional matters that are requested, provided there is mutual agreement to perform that additional work. A letter confirming such additional work shall bring such work within the scope of this agreement.

Consultant's authorized representative, Brad Kilger, shall be the primary person responsible for the performance of the Services. No other person may perform Services relating to this Agreement without the City Manager's prior written consent and Consultant shall not replace Brad Kilger with any other personnel without the City Manager's prior written consent.



## **EXHIBIT B**

### **COMPENSATION**

CITY shall pay CONSULTANT for the Services on a cost reimbursement basis, up to the not-to-exceed amount (as defined in Section 4.1 of the Agreement).

CONSULTANT agrees to use appropriate methods to contain its fees and costs under this Agreement. Compensation shall include only the following costs, which shall all count toward the not-to-exceed amount:

#### **1. Direct Labor**

Direct labor costs shall be the total number of hours worked on the job times the agreed hourly rate for such labor as set forth on the attached Exhibit B-1. CITY will pay regular straight-time rate, including any work performed on overtime or on holidays or weekends.

#### **2. Other Direct Costs**

The following categories of costs are eligible for reimbursement, which shall be made at the actual cost to CONSULTANT without any additional mark-up:

- a. Reasonable living and traveling expenses of employees when away from home office on business in its prosecution of the Services. CONSULTANT must have prior approval of CITY to be reimbursed for these expenses.
- b. Automobile expenses for personal vehicle use, if necessary, at the IRS approved mileage rate.
- c. Reproduction of drawings and specifications by CONSULTANT as required under this Agreement, at rates prevailing in this community for bulk reproduction or at other reasonable rates approved by CITY.
- d. Special overnight delivery or messenger services.

Payments to CONSULTANT for reimbursable costs/expenses will be made only after the specific costs/expenses have been incurred and CONSULTANT has submitted substantiating documentation, such as copies of paid invoices or other documentation confirming that such costs/expenses have been incurred.



## **EXHIBIT B-1**

Compensation for the Services will be based on a discounted standard for the personnel performing services under this agreement at the time such services are rendered. The discounted rate is \$200 per hour. Brad Kilger will be the Consultant primarily responsible for providing Services and no other person may perform the Services relating to this Agreement without prior written consent from the City Manager. If other Consultants, are assigned to work on projects relating to this Agreement, then current hourly rates of those individuals in the amounts identified below for "other consultants" shall be utilized.

### **Public Sector Fee Schedule**

Effective January 1, 2023 to December 31, 2024

Brad Kilger: \$200

Other Consultants: \$175 - \$295

These rates are reviewed and may be adjusted annually, generally in January of each year.



# Sloan Sakai

ATTORNEYS AT LAW

## Solving Complex Problems

At Sloan Sakai Yeung & Wong LLP, our goal is to help you solve the complex challenges facing your organization, helping you to accomplish your mission. Our approach is team-based and multi-disciplinary. Our talent is top notch. Our firm environment is open, supportive, and innovative. Put it all together and you have one of the preeminent firms in the state supporting and working for you.

## Partnering for the Future

We strive to be long-term partners to our clients. We give our clients the best thinking from attorneys and consultants who know the most about the issues clients face. We work collaboratively with clients to implement that thinking for success and over the long run. We are nimble, with the ability to quickly pull together subject matter experts to address a client's problem. This allows us to innovate where others are merely adequate. We also have the expertise to recommend practical solutions that minimize risk, while assertively representing clients should litigation arise.

## Our Areas of Expertise:

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**Labor Law:** On a daily basis, our team helps public employers meet the ample challenges of California's exceptionally broad and challenging public sector labor laws.

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**Labor Relations & Collective Bargaining:** Our labor lawyers offer labor law advice and representation to public and non-profit employers, serving as chief negotiators at the bargaining table and advising on strategy and strategic initiatives.

---

**Government Law:** We provide strategic and timely advice that takes into account the practical realities faced by appointed and elected decision-makers and the staff hired to support them.

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**Employment Law:** We guide employers through the ever-changing maze of federal and state employment laws, local codes and ordinances, collectively bargained agreements, and personnel rules and policies.

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**Environmental Law/CEQA:** Our firm has extensive experience representing public agencies in a wide range of environmental law issues, including the interpretation of, and compliance with, the California Environmental Quality Act.

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**Litigation:** Our team's extensive experience defending public agency decisions and actions in federal and state courts contributes toward the best possible case outcomes.

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**Workers' Comp Carve-Outs:** An alternative to the Workers' Comp system, our firm represents and helps employers develop a Carve-Out program that will save substantial time and money while improving labor/management relations.

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**Investigations:** Our firm is often called upon to conduct investigations into allegations of harassment, discrimination, retaliation, whistle blower claims, ethics violations, misuse of public resources, workplace fraud, workplace violence, and other kinds of misconduct in the workplace.

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**Non-profit Organizations:** As advisors, litigators and negotiators, we do all we can to help non-profits and charter schools not only meet their challenges but thrive.

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## For more information, visit [sloansakai.com](http://sloansakai.com)

555 Capitol Mall, Suite 600  
Sacramento, CA 95814

2200 Powell Street, Suite 450  
Emeryville, CA 94608



# Management Strategies Group

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SLOAN SAKAI YEUNG & WONG LLP

True to the spirit of innovation, Sloan Sakai Yeung & Wong provides you access to our carefully selected team of consultants from our fully integrated consulting practice called the Management Strategies Group (MSG). The synergy between the legal and consulting branches provides a unique blend of skills and talents that benefits our clients in unique ways. You don't always need a lawyer to help solve problems or make better management decisions. As former public servants with insight drawn from decades of experience, MSG offers pragmatic and effective solutions and work with your management team to develop and implement a winning strategy for changes. Our experts have walked in your shoes and understand your world, providing critical support in any situation.

## **MSG Services Include:**

- Labor Relations & Collective Bargaining
- Human Resources Management
- Risk Management
- Executive Support, Crisis Management & Organizational Development
- Public Safety Management
- Joint Powers Authorities and 911 Centers
- Financial Management & Restructuring
- Department Assessments & Project Management

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555 Capitol Mall, Suite 600  
Sacramento, CA 95814

2200 Powell Street, Suite 450  
Emeryville, CA 94608



## **PERSONAL NARRATIVE FOR BRAD L. KILGER, AICP**

Mr. Kilger has over 40 years of professional municipal government experience. He retired in February 2019. Since his retirement he has worked as a public sector management consultant and interim city manager in the cities of Gustine, Calistoga, Los Altos and South Lake Tahoe. Prior to retiring he served as City Manager for the cities of Martinez, Benicia and Ceres, and the Town of Yucca Valley. In addition to having extensive public sector management experience, his primary field of technical expertise is in economic and community development. In that capacity he has served as Community and Economic Development Director in the cities of Modesto, Murrieta, and the Town of Apple Valley. He has also held the positions of Planning Director for the City of San Bernardino and Deputy Planning Director for the County of San Bernardino.

Mr. Kilger received a Bachelor of Science degree in Environmental Sciences from the University of California Riverside and a Masters Degree in Business Administration from California State University San Bernardino. He holds a Certificate in Economic Development from California State University, Bakersfield and is a credentialed member of the American Institute of Certified Planners (AICP).

Mr. Kilger is a member of the International City/County Management Association (ICMA) and the California City Managers Foundation (CCMF). He currently serves as ICMA Senior Advisor for the Central Valley Division of the League of California Cities City Manager's Department. He has previously served as President of the League of Cities City Managers Department, President of the California Redevelopment Association (CRA), Vice-chair of the California Rural Development Council, on the Board of Directors of the California Association for Local Economic Development (CALED), and as a member of the California Planning Roundtable.





## **CITY COUNCIL AGENDA ITEM NO. 3.8**

### **SECTION 3: CONSENT CALENDAR**

**Meeting Date:** January 23, 2023

**Subject:** Adopt Resolution No. 2023-05, Accepting Senior Nutrition Infrastructure Grant Funds from the County of Stanislaus in the Amount not to Exceed \$114,450, and Authorizing the City Manager to Execute a Subrecipient Agreement

**Enclosure:** Agreement Between the County of Stanislaus Area Agency on Aging and Veteran's Services and the City of Hughson

**Presented By:** Ashton Gose, Executive Assistant/City Clerk

**Approved By:** Merry Mayhew  
City Manager

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#### **Staff Recommendations:**

1. Adopt Resolution 2023-05, accepting Senior Nutrition Infrastructure Grant Funds from the County of Stanislaus in the amount not to exceed \$114,450.
2. Authorize the City Manager to execute a subrecipient agreement, inclusive of any final edits by the City Attorney.

#### **Background and Discussion:**

The Hughson Senior Community Center was constructed some time ago through a partnership between the City and the Chamber of Commerce that raised funds to construct a facility that would provide services to meet the needs of the Hughson community with a focus on the senior members of the population.

The Center is currently utilized as a location for the County of Stanislaus Area Agency on Aging and Veteran Services Congregate Senior Meals Program, with members meeting at least three times a week.

On November 8, 2022, the County Board of Supervisors adopted a resolution approving the Senior Nutrition Infrastructure Grant Funds, which provides and emphasizes priority funding for purchasing, upgrading, or refurbishing infrastructure for the production and distribution of congregate or home-delivered meals, for the Area Agency on Aging.



The Area Agency on Aging requested a scope of work from the City for the Community Senior Center to include potential item/equipment purchases, and infrastructure upgrades and estimated costs associated with each. The approved scope of work is included in the attached Subrecipient Agreement as Exhibit A.

The purchases and upgrades include the following:

- Removal and replacement of dining room flooring, 3,375 square feet
- Energy efficient lighting replacement (LED commercial can lights in the kitchen/dining area)
- Tables – 4 mobile cafeteria tables
- Chairs – 50 stackable chairs
- Ice machine 265 lb. capacity
- Steam Table – 3 well 120V
- Refrigerator 54” reach in
- Commercial 1000W microwave
- Prep table 36x30
- Flying insect air curtain 42”

As equipment purchases and property upgrades are made and completed, the City will forward invoices/receipts to the County as proof for reimbursement, in the total amount not to exceed \$114,450.

**Fiscal Impact:**

There is no negative fiscal impact associated with this item. As reimbursements are received, the City will apply the funds directly to the costs associated with purchases and upgrades to the Community Senior Center.



**CITY OF HUGHSON  
CITY COUNCIL  
RESOLUTION NO. 2023-05**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUGHSON ACCEPTING  
SENIOR NUTRITION INFRASTRUCTURE GRANT FUNDS FROM THE COUNTY OF  
STANISLAUS IN AN AMOUNT NOT TO EXCEED \$114,450 AND AUTHORIZING THE  
CITY MANAGER TO EXECUTE THE SUBRECIPIENT AGREEMENT**

**WHEREAS**, the Hughson Community Senior Center is utilized as a location for the County of Stanislaus Area Agency on Aging and Veteran Services Congregate Senior Meals Program; and

**WHEREAS**, the Senior Nutrition Infrastructure Grant provides and emphasizes priority funding for purchasing, upgrading, or refurbishing infrastructure for the production and distribution of congregate or home-delivered meals; and

**WHEREAS**, the City of Hughson has identified uses for purchasing, upgrading, or refurbishing the Senior Community Center for the production and distribution of congregate or home-delivered meals.

**WHEREAS**, on November 8, 2022, the County Board of Supervisors adopted a resolution approving the Senior Nutrition Infrastructure Grant Funds for the Area Agency on Aging and authorized the Director of the Department of Aging and Veterans Services, to sign contract NI-2223-30 with the California Department of Aging in the amount of \$760,004 for the term of October 1, 2022, through October 31, 2023, and any subsequent amendments; and

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson accepts Senior Nutrition Infrastructure Grant Funds from the County of Stanislaus, in the amount not to exceed \$114,450, and authorizes the City Manager to execute the Subrecipient Agreement, attached hereto as Exhibit A, inclusive of any final edits from the City Attorney.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23<sup>rd</sup> day of January 2023 by the following roll call vote:

**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

---

**GEORGE CARR, Mayor**



**ATTEST:**

ASHTON GOSE, City Clerk



**AGREEMENT BETWEEN  
THE COUNTY OF STANISLAUS  
AREA AGENCY ON AGING  
AND VETERANS SERVICES  
AND THE CITY OF HUGHSON**

This AGREEMENT FOR INDEPENDENT CONTRACTOR SERVICES (the “Agreement”), dated for reference purposes as of October 1, 2022, is by and between STANISLAUS COUNTY AREA AGENCY ON AGING AND VETERANS SERVICES ("the County") and the CITY OF HUGHSON ("Subgrantee"), a California non-profit corporation or a public agency.

**RECITALS**

WHEREAS, on November 8, 2022, the County Board of Supervisors adopted a resolution approving the Senior Nutrition Infrastructure Grant Funds for the Area Agency on Aging and authorized the Director of the Department of Aging and Veterans Services, to sign contract NI-2223-30 with the California Department of Aging in the amount of \$760,004 for the term of October 1, 2022, through October 31, 2023, and any subsequent amendments.

WHEREAS, The Senior Nutrition Infrastructure Grant (“Grant”) provides and emphasizes priority funding for purchasing, upgrading, or refurbishing infrastructure for the production and distribution of congregate or home-delivered meals, including but not limited to the following:

- Production-scale commercial kitchens including commercial grade equipment such as ovens, stoves, steamers, and mixers.
- Warming, refrigeration, or freezer capacity and equipment including refrigerators and freezers, hot holding equipment, insulated food delivery bags, and steam tables.
- Food delivery vehicles including cars, trucks, vans, and temperature-controlled vehicles.
- Improvements and equipment to expand capacity for providers of meals including food/meal packing equipment, dishwashers, three-compartment sinks, prep tables, steam tables, and salad bars.
- Refurbishments including repair or replacement of damaged and/or deteriorated flooring and/or repair and painting of damaged wall surfaces in areas where food is prepared, packaged, stored, or served including areas where kitchenware is washed and stored.
- Grantee must verify flooring or painting is not covered under a building lease prior to requesting use of infrastructure funding for this purpose and the grantee must maintain documentation in case of grant monitoring or audit.
- Energy efficient light fixtures in kitchen or congregate meal service areas.
- Installation costs (labor/materials) for allowable improvements and equipment.



- Furniture, including table and chairs, for congregate meal service areas.

WHEREAS, this funding cannot be used to make additions, improvements, modifications, replacements, rearrangements, reinstallations, renovations, or alterations to capital assets that materially increase their value or useful life. This includes any equipment that is permanently affixed to a building such as non-portable generators, walk-in refrigerators, and walk-in freezers.

WHEREAS, the Subgrantee has applied to be a subrecipient of Grant funds for the purposes approved in the Grant Agreement.

NOW THEREFORE, in consideration of the mutual promises, covenants, terms and conditions hereinafter contained, the parties hereby agree as follows:

#### **TERMS AND CONDITIONS**

1. RECITALS. The above recitals are true and correct and are hereby incorporated as a material part of this Agreement.
2. SCOPE OF WORK.
  - 2.1 The Subgrantee shall procure and purchase the equipment, infrastructure or improvements ("Improvements") set forth in EXHIBIT A attached hereto and by this reference, made a part hereof.
  - 2.2 After the Improvements are procured, purchased, installed and operational, the County will reimburse the Subgrantee for the actual cost of the work, not to exceed the amount set forth in EXHIBIT A. The Subgrantee's request for reimbursement shall be on forms approved by the County.
  - 2.3 The Subgrantee shall provide the insurance set forth in EXHIBIT B attached hereto and by this reference, made a part hereof.
  - 2.4 Improvements installed by the Subgrantee shall be performed in a timely manner consistent with the requirements and standards established by the Grant Requirements set forth in EXHIBIT C and applicable Federal, State and County laws, ordinances, regulations and resolutions.
  - 2.5 If the Improvements require installation costs, Subgrantee shall pay for all costs of installation without reimbursement from the Grant, unless otherwise set forth in Exhibit A.
  - 2.6 Subgrantee's contractors shall comply with all applicable prevailing wage and Labor Code requirements as set forth on EXHIBIT D.



- 2.7 Except as expressly provided in EXHIBIT A of this Agreement, Subgrantee shall not be entitled to nor receive from the County any additional consideration, compensation, salary, wages or other type of remuneration for services rendered under this Agreement. Specifically, Subgrantee shall not be entitled by virtue of this Agreement to consideration in the form of overtime, health insurance benefits, retirement benefits, disability retirement benefits, sick leave, vacation time, paid holidays or other paid leaves of absence of any type or kind whatsoever.
- 2.8 The County shall not withhold any Federal or State income taxes or Social Security tax from any payments made by the County to Subgrantee under the terms and conditions of this Agreement. Payment of all taxes and other assessments on such sums is the sole responsibility of Subgrantee. The County has no responsibility or liability for payment of Subgrantee's taxes or assessments.
- 2.9 Payment of all services provided in accordance with the provisions of this Agreement is contingent upon the availability of County, State and Federal funds. Grant funds have been received by the County.

3. TERM.

- 3.1 GRANT PERFORMANCE PERIOD. Unless sooner terminated as provided below or by some other method provided for in this Agreement, all tasks and work performed, and all Improvements or equipment to be purchased and installed must be completed during the grant performance period from October 1, 2022, through October 31, 2023. No invoices for equipment purchased or work completed after October 31, 2023, will be paid. All invoices and documentation required for reimbursement shall be submitted by no later than December 31, 2023.
- 3.2 Should either party default in the performance of this Agreement or materially breach any of its provisions, the other party, at that party's option, may terminate this Agreement by giving written notification to the other party.
- 3.3 This Agreement shall terminate upon ten (10) days prior written notice on the occurrence of (a) bankruptcy or insolvency of either party, (b) sale of Subgrantee's business, (c) cancellation or nonrenewal of insurance required under the terms of this Agreement, and (d) if, for any reason, Subgrantee ceases to be licensed or otherwise authorized to do business in the State of California, and the Subgrantee fails to remedy such defect or defects within thirty (30) days of receipt of notice of such defect or defects.
- 3.4 This Agreement may be terminated by the County for the reasons set forth in EXHIBIT C, Grant Requirements.



4. LICENSES, PERMITS.

Any licenses, certificates or permits required by the Federal, State, County or municipal governments for Subgrantee to provide the services and work described in EXHIBIT A must be procured by Subgrantee and be valid at the time Subgrantee enters into this Agreement and throughout Subgrantee's performance of the work and services contemplated by this Agreement. Further, during the term of this Agreement, Subgrantee must maintain such licenses, certificates, and permits in full force and effect. Licenses, certificates, and permits may include but are not limited to driver's licenses, professional licenses or certificates and business licenses. Such licenses, certificates and permits shall be procured and maintained in force by Subgrantee at no expense to the County.

Subgrantee shall comply with all local, State and Federal laws, rules and regulations.

5. OFFICE SPACE, SUPPLIES, EQUIPMENT.

Unless otherwise provided in EXHIBIT A, Subgrantee shall provide such office space, installation costs, supplies, equipment, vehicles, reference materials and telephone service as is necessary for Subgrantee to relating to the Improvements identified in EXHIBIT A to this Agreement. The County is not obligated to reimburse or pay Subgrantee for any expense or cost incurred by Subgrantee in procuring or maintaining such items. Responsibility for the costs and expenses incurred by Subgrantee in providing and maintaining such items is the sole responsibility and obligation of Subgrantee.

6. INSURANCE.

The Subgrantee shall obtain, and maintain at all times during the term of this Agreement, insurance coverage in the amounts and coverage specified in EXHIBIT B, which is attached hereto and, by this reference, made a part hereof.

7. DEFENSE AND INDEMNIFICATION.

7.1 To the fullest extent permitted by law, the Subgrantee shall indemnify, hold harmless and defend the County and its agents, officers and employees from and against all claims, damages, losses, judgments, liabilities, expenses and other costs, including litigation costs and attorneys' fees, arising out of, resulting from, or in connection with the performance of this Agreement by the Subgrantee or its officers, employees, agents, representatives or subcontractors. This indemnification obligation extends to and includes personal injury, death, or damage or destruction to tangible or intangible property, including the loss of use; provided, however, such indemnification shall not extend to or cover loss, damage or expense arising from the gross negligence or willful misconduct of the County or its agents, officers and employees.

7.2 The Subgrantee's obligation to defend, indemnify and hold the County and its agents, officers and employees harmless under the provisions of this paragraph is



not limited to or restricted by any requirement in this Agreement for the Subgrantee to procure and maintain a policy of insurance.

- 7.3 The Subgrantee shall indemnify, defend and hold harmless and shall be responsible for any and all federal, state and local taxes, fees, or contributions required to be paid with respect to Subgrantee and Subgrantee's officers, employees, and agents engaged in the performance of this Agreement, including and without limitation unemployment insurance, social security and payroll tax withholding.

8. STATUS OF SUBGRANTEE.

- 8.1 All acts of Subgrantee and its officers, employees, agents, representatives, subcontractors and all others acting on behalf of Subgrantee relating to the performance of this Agreement, shall be performed as independent contractors and not as agents, officers or employees of the County. Subgrantee, by virtue of this Agreement, has no authority to bind or incur any obligation on behalf of the County. No agent, officer or employee of the County is to be considered an employee of Subgrantee. It is understood by both Subgrantee and the County that this Agreement shall not be construed or considered under any circumstances to create an employer-employee relationship or a joint venture.
- 8.2 At all times during the term of this Agreement, the Subgrantee and its officers, employees, agents, representatives or subcontractors are, and shall represent and conduct themselves as, independent contractors and not employees of the County.
- 8.3 Subgrantee shall determine the method, details and means of performing the work and services to be provided by Subgrantee under this Agreement. Subgrantee shall be responsible to the County only for the requirements and results specified in this Agreement and, except as expressly provided in this Agreement, shall not be subjected to the County's control with respect to the physical action or activities of Subgrantee in fulfillment of this Agreement. Subgrantee has control over the manner and means of procuring, purchasing, and installing the Improvements under this Agreement.
- 8.4 If in the performance of this Agreement Subgrantee contracts with or employs any third persons, such persons shall be entirely and exclusively under the direction, supervision and control of Subgrantee. All terms of the contract or employment including hours, wages, working conditions, discipline, hiring and discharging or any other terms or requirements of law shall be determined by the Subgrantee.
- 8.5 It is further understood and agreed that Subgrantee must issue W-2 forms or other forms as required by law for income and employment tax purposes for all of Subgrantee's assigned personnel under the terms and conditions of this Agreement.
- 8.6 As an independent contractor, Subgrantee hereby indemnifies and holds the County harmless from any and all claims that may be made against the County based upon



any contention by any third party that an employer-employee relationship exists by reason of this Agreement.

9. RECORDS AND AUDITS.

- 9.1 Subgrantee shall prepare and maintain all writings, documents, and records prepared or compiled in connection with the performance of this Agreement for a minimum of five (5) years from the termination or completion of this Agreement or until such records and their supporting documentation are released due to closure of Federal/State audit, whichever is longer. This includes any handwriting, typewriting, printing, photostatic, photographing, and every other means of recording upon any tangible thing, any form of communication or representation including letters, words, pictures, sounds, or symbols or any combination thereof.
- 9.2 Any authorized representative of the County shall have access to any writings listed above for the purposes of making audit, evaluation, examination, excerpts, and transcripts during the period such records are to be maintained by the Subgrantee. Further, the County has the right at all reasonable times to audit, inspect, or otherwise evaluate the work performed or being performed under this Agreement.
- 9.3 The County shall have the right to audit all invoices and records of the Subgrantee related to this Agreement as required by State law.
- 9.4 The Subgrantee agrees that its financial records shall contain itemized records of all costs and be available for inspection in Stanislaus County within three (3) working days of the request by the County, State or Federal agencies.
- 9.5 Monitoring by the County may be accomplished by the following non-exclusive means: field reviews, audit claims, review of records.

10. NONDISCRIMINATION.

- 10.1 During the performance of this Agreement, the Subgrantee and its officers, employees, agents, representatives or subcontractors shall not unlawfully discriminate in violation of any Federal, State or local law, rule or regulation against any employee, applicant for employment or person receiving services under this Agreement because of race, religious creed, color, national origin, ancestry, physical or mental disability (including perception of a disability), medical condition, genetic information, marital status, sex, gender (including pregnancy, childbirth, or related medical conditions), gender identity, gender expression, age (over 40), sexual orientation, military and veteran status, political affiliation or belief. The Subgrantee and its officers, employees, agents, representatives or subcontractors shall comply with all applicable Federal, State and local laws and regulations related to non-discrimination and equal opportunity, including without limitation the County's non-discrimination policy; the Fair Employment and Housing Act (Government Code sections 12900 et seq.); California Labor Code



sections 1101 and 1102; the Federal Civil Rights Act of 1964 (P.L. 88-352) as amended, Section 504 of the Rehabilitation Act of 1973 as amended (29 U.S.C. 797), the Americans with Disabilities Act (ADA) of 1990, the ADA Amendments Act of 2008, the Pregnancy Discrimination Act, the Equal Pay Act, the Age Discrimination in Employment Act of 1967 (ADEA), and Title II of the Genetic Information Nondiscrimination Act of 2008 (GINA); and all applicable regulations promulgated in the California Code of Regulations or the Code of Federal Regulations.

10.2 The Subgrantee shall include the non-discrimination and compliance provisions of this clause in all subcontracts to perform work under this Agreement.

10.3 The Subgrantee shall provide a system by which recipients of service shall have the opportunity to express and have considered their views, grievances and complaints regarding the Subgrantee's delivery of services.

#### 11. ASSIGNMENT.

The Subgrantee shall not assign or subcontract this Agreement without the express written consent of the County. Further, Subgrantee shall not assign any monies due or to become due under this Agreement without the prior written consent of the County.

#### 12. WAIVER OF DEFAULT.

Waiver of any default by either party to this Agreement shall not be deemed to be waiver of any subsequent default. Waiver or breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach, and shall not be construed to be a modification of the terms of this Agreement unless this Agreement is modified as provided below.

#### 13. NOTICE.

Any notice, communication, amendment, addition or deletion to this Agreement, including change of address of either party during the term of this Agreement shall be made within thirty (30) days in writing and may be personally served or, alternatively, sent by prepaid first class mail and/or to the email listed below as follows to the respective parties:

To County:                   The County of Stanislaus  
Area Agency on Aging and Veterans Services  
Attention: Kim Delucchi, Contracts Coordinator  
3500 Coffee Road, Suite 19  
Modesto, CA 95355

or

kdelucchi@stancounty.com



To Subgrantee: City of Hughson  
Attention: Merry Mayhew, City Manager  
7018 Pine Street  
Hughson, CA 95326

or

mmayhew@hughson.org

14. **CONFLICTS.** The Subgrantee agrees that it has no interest and shall not acquire any interest direct or indirect which would conflict in any manner or degree with the performance of the work and services under this Agreement.
15. **SEVERABILITY.** If any portion of this Agreement or application thereof to any person or circumstance shall be declared invalid by a court of competent jurisdiction or if it is found in contravention of any Federal, State or the County statute, ordinance or regulation the remaining provisions of this Agreement or the application thereof shall not be invalidated thereby and shall remain in full force and effect to the extent that the provisions of this Agreement are severable.
16. **AMENDMENT.** The County's Director of Area Agency on Aging and Veterans Services ("Director") may amend, revise or supplement the Agreement by Administrative Amendment in order to maintain compliance with applicable laws and regulations or Grant requirements upon written notice to the Subgrantee. The Administrative Amendment shall be effective upon execution by the Director and delivery to Subgrantee. Amendments which modify the substantive terms of the Agreement shall be approved by the Director and the Executive Director of the Subgrantee.
17. **ADVICE OF ATTORNEY.** Each party warrants and represents that in executing this Agreement, it has received independent legal advice from its attorneys or the opportunity to seek such advice.
18. **CONSTRUCTION.** Headings or captions to the provisions of this Agreement are solely for the convenience of the parties, are not part of this Agreement, and shall not be used to interpret or determine the validity of this Agreement. Any ambiguity in this Agreement shall not be construed against the drafter, but rather the terms and provisions hereof shall be given a reasonable interpretation as if both parties had in fact drafted this Agreement.
19. **GOVERNING LAW AND VENUE.** This Agreement shall be deemed to be made under, and shall be governed by and construed in accordance with, the laws of the State of California. Any action brought to enforce the terms or provisions of this Agreement shall have venue in the County of Stanislaus, State of California.



20. ACCOUNTABILITY.

- 20.1 In the event of an audit exception or exceptions, the Subgrantee shall be responsible for the deficiency resulting from the Subgrantee's non-compliance with program requirements.
- 20.2 In the event of any State hearings, cash grant award or lawsuit award resulting from Subgrantee's failure to perform as required by this Agreement, reimbursement shall be made to the damaged party by Subgrantee.
21. SEVERABILITY. If any provision of this Agreement or the application thereof is invalid, that invalidity shall not affect other provisions or applications of the Agreement which can be given effect without the invalid provision or application, and to this end the provisions of this Agreement are severable.
22. ASSIGNABILITY. Without the written consent of CDA and the County, the Subgrantee's interest in and responsibilities under this Agreement shall not be assignable by the Grantee either in whole or in part.
23. WAIVER. Any failure by a party to enforce its rights under this Agreement, in the event of a breach, shall not be construed as a waiver of said rights; and the waiver of any breach under this Agreement shall not be construed as a waiver of any subsequent breach.
24. APPLICABLE LAW. The laws of the State of California shall govern all proceedings concerning the validity and operation of this Agreement and the performance of the obligations imposed upon the parties hereunder. The parties hereby waive any right to any other venue. The place where the Agreement is entered into and place where the obligation is incurred is Sacramento County, California.
25. DISCRIMINATION. The Subgrantee agrees that during the performance of this Agreement, it will not discriminate, harass, or allow harassment or discrimination against any employee or applicant for employment based on race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. The Subgrantee agrees to require the same of all contractors and consultants retained to carry out the activities under this Agreement
26. DEBARMENT. Subgrantee represents and warrants, to the best of its knowledge and belief, that neither Subgrantee nor any of its Principals ("Principal" means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity) or its contractors are presently debarred, suspended, proposed for debarment, voluntarily excluded, or involuntarily excluded from receiving a contract from any federal, state or local government or agency, nor has it been declared ineligible for the award of contracts by any federal, state, or local government or agency, nor does it appear on any federal, state or local government's Excluded Parties List System. Subgrantee shall provide immediate written notice to the County if, at any time



Subgrantee learns that this representation was erroneous when submitted or has become erroneous by reason of changed circumstances. The representations and warranties above are a material representation of fact upon which reliance was placed when entering into this Agreement. If it is later determined that Subgrantee knowingly made a false representation, in addition to other remedies available to the County, the County may terminate this Agreement.

27. **LOBBYING CERTIFICATION FOR CONTRACTS, GRANTS, LOANS, AND COOPERATIVE AGREEMENTS.** As required by Section 1352, Title 31 of the U.S. Code, and implemented at 45 CFR Part 93, for persons entering into a grant, cooperative agreement or contract over \$100,000, or loan, or loan guarantee over \$150,000, as defined at 45 CFR Part 93, Sections 93.105 and 93.110 the undersigned Subrecipient certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal certification is a material representation of fact upon which reliance was placed when this contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned Subrecipient shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned Subrecipient shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly. This transaction was made or entered into.

Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into.



28. **ADDITIONAL RESTRICTIONS ON LOBBYING:** Federal regulations provide restrictions on the use of federal funds for lobbying or political advocacy. In general, the restrictions apply to attempts at influencing elections, partisan contributions, and the introduction or enactment of legislation and legislative liaison activities. Unallowable lobbying with federal funds includes such activities as direct electioneering or participation in campaigns, direct lobbying to politically influence federal or state legislation, and efforts to generate concerted public action on a legislative issue. (The detail of these restrictions is contained in U.S. Office of Management and Budget Circular A-122 as amended.)
29. **CERTIFICATION RE: ECONOMIC SANCTIONS CALIFORNIA STATE EXECUTIVE ORDER N-6-22.**
- 29.1 Subgrantee shall review their investments and Agreements to ensure their compliance with economic sanctions imposed by the U.S. Government in response to Russia's actions in Ukraine, as well as any sanctions imposed under state law (collectively, economic sanctions), and to take actions to support the Ukrainian Government and people, including by refraining from new investments in, and financial transactions with, Russian institutions or companies that are headquartered or have their principal place of business in Russia (Russian entities), not transferring technology to Russia or Russian entities, and by directly providing support to the Government and people of Ukraine.
- 29.2 The County shall terminate any Agreement with any individual or entity that is in violation of Executive Order N-6-22 or that is subject to economic sanctions therein, and shall not enter an Agreement with any such individual or entity while the Executive Order is in effect.
- 29.3 For Agreements valued at five million dollars (\$5,000,000) or more, Subgrantee shall provide a written report to the County regarding compliance with economic sanctions and steps taken in response to Russia's action in Ukraine, including but not limited to, desisting from making new investments in, or engaging in financial transactions with Russia or Russian entities, and directly providing support to Ukraine, while the Executive Order is in effect.
30. **ENTIRE AGREEMENT.**
- 30.1 This Agreement and all exhibits attached hereto supersedes any and all other agreements, either oral or in writing, between any of the parties herein with respect to the subject matter hereof and contains all the agreements between the parties with respect to such matter. Each party acknowledges that no representations, inducements, promises or agreements, oral or otherwise, have been made by any party, or anyone acting on behalf of any party, which is not embodied herein, and that no other agreement, statement or promise not contained in this Agreement shall be valid or binding.



- 30.2 The person signing this Agreement (“Signatory”) represents and warrants that he or she is duly authorized and has legal capacity to execute this Agreement. Signatory represents and warrants that the execution and delivery of the Agreement and the performance of Subgrantee’s obligations hereunder have been duly authorized and that the Agreement is a valid and legal agreement binding on Subgrantee and enforceable in accordance with its terms.
- 30.3 This Agreement may be executed in counterparts, each of which shall be deemed to be an original but all of which, taken together, shall constitute one and the same agreement.
- 30.4 Each party agrees that the electronic signatures (whether digital or encrypted) of the parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures. Electronic signature means any electronic sound, symbol, or process attached to or logically associated with a record and executed and adopted by a party with the intent to sign such record (including facsimile or email electronic signatures) pursuant to the California Uniform Electronic Transactions Act (Cal. Civ. Code § 1633.1 et seq.) as amended from time to time.

*[SIGNATURES APPEAR ON FOLLOWING PAGE]*



IN WITNESS WHEREOF, THE PARTIES OR THEIR DULY AUTHORIZED REPRESENTATIVES HAVE EXECUTED THIS AGREEMENT EFFECTIVE AS OF THE 1ST DAY OF OCTOBER OF 2022.

<b>COUNTY OF STANISLAUS</b>	<b>CITY OF HUGHSON</b>
By: _____ Dan Wirtz GSA Director/Purchasing Agent	By: _____ Merry Mayhew, City Manager
Date: _____	Date: _____
APPROVED AS TO CONTENT: Aging and Veterans Services Department	
By: _____ Margie Palomino Director	
Date: _____	
APPROVED AS TO FORM: Thomas E. Boze, County Counsel	
By: <u>Marc Hartley</u> Marc Hartley, Deputy County Counsel	
Date: <u>December 23, 2022</u>	

**THE COUNTY OF STANISLAUS**

Approved BOS Resolution #: 2022-0617

Dated: November 8, 2022



## **EXHIBIT A SCOPE OF WORK**

Subgrantee shall procure, purchase, and install the following equipment/property for uses consistent with the Grant.

The Hughson Community Center has requested and been approved to purchase and install the items listed below.

**The City of Hughson and the Hughson Community Center shall:**

- a. Purchase the items/equipment and installations for use at the Hughson Community Center to be used during the serving of meals for seniors.
  - i. Removal and replacement of dining room flooring, 3,375 square feet
  - ii. Energy efficient lighting replacement (LED commercial can lights in the kitchen/dining area)
  - iii. Tables – 4 mobile cafeteria tables
  - iv. Chairs – 50 stackable chairs
  - v. Ice machine 265 lb. capacity
  - vi. Steam Table – 3 well 120V
  - vii. Refrigerator 54” reach in
  - viii. Commercial 1000W microwave
  - ix. Prep table 36x30
  - x. Flying insect air curtain 42”
- b. The purchased items will be used and stored at the Hughson Community Center. The Hughson Community Center is responsible for tracking and reporting annually to the AAA inventory of the items through the end of December 31, 2024.
- c. Location/Space – Provide appropriate space to store, use, and maintain the items/equipment at the Hughson Community Center, 2307 4<sup>th</sup> Street, Hughson, CA 95326.
- d. Invoices shall be submitted to Department of Aging and Veterans Services, Attention: Mr. Paresh Jadav, 3500 Coffee Road, Suite 19, Modesto, CA 95355, by the fifteenth (15<sup>th</sup>) day for the previous month’s expenses. The invoices may be submitted electronically to [jadavp@stancounty.com](mailto:jadavp@stancounty.com) with a cc to [ericksj@stancounty.com](mailto:ericksj@stancounty.com). The final invoice due date for purchases in October 2023 is November 15, 2023.
- e. Cooperate with Elderly Nutrition Program and County Department of Environmental Health (DER) and abide by the rules and regulations. DER Meal service permit held by the AAA.

Upon proof that the equipment/property was purchased, installed and is operational in accordance with Grant requirements, the County will reimburse Subgrantee an amount not to exceed \$114,450.00.



GRANT PERFORMANCE PERIOD. All tasks and work performed must be completed during the grant performance period from October 1, 2022, through October 31, 2023. No invoices for work completed or Improvements procured or installed after October 31, 2023, will be paid.

The Subgrantee must submit all invoices within a reasonable time but, no later than ten (10) months from the date that services were provided or the Improvements were procured. If Subgrantee fails to provide invoices within ten (10) months of the date services are rendered or Improvements procured, the County may elect to reject the invoices for payment as untimely and Subgrantee will be deemed to have waived any right to payment of the late invoices.

#### Travel Reimbursement

The Subgrantee shall not be reimbursed for any travel-related expenses. Any and all travel shall be at the expense of the Subgrantee.



## Exhibit B

### Insurance Required for Most Contracts - Subgrantee (Not for Construction Contracts)

Subgrantee shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Subgrantee, his agents, representatives, employees or subcontractor.

#### MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than One Million Dollars (\$1,000,000) per incident or occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability:** If the Subgrantee or the Subgrantee's officers, employees, agents, representatives or Subcontractor utilize a motor vehicle in performing any of the work or services under the Agreement Insurance Services Office (ISO) Form Number CA 00 01 covering any auto (Code 1), or if Subgrantee has no owned autos, hired, (Code 8) and non-owned autos (Code 9), with limit no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage and transportation related pollution liability.
3. **Workers' Compensation** Insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.

If the Subgrantee maintains broader coverage and/or higher limits than the minimums shown above, the County requires and shall be entitled to the broader coverage and/or the higher limits maintained by the Subgrantee. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the County.

**Application of Excess Liability Coverage:** Subgrantees may use a combination of primary, and excess insurance policies which provide coverage as broad as ("follow form" over) the underlying primary policies, to satisfy the Required Insurance provisions.

#### **Other Insurance Provisions**

The insurance policies are to contain, or be endorsed to contain, the following provisions:

#### **Additional Insured Status**

The County, its officers, officials, employees, agents and volunteers are to be covered as additional insureds on the CGL and Auto policy with respect to liability arising out of work or operations performed



by or on behalf of the Subgrantee including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Subgrantee's insurance (**at least** as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 if a later edition is used).

### ***Primary Coverage***

For any claims related to this contract, the Subgrantee's insurance coverage shall be primary coverage **at least** as broad as ISO CG 20 01 04 13 as respects the County, its officers, officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees, agents or volunteers shall be excess of the Subgrantee's insurance and shall not contribute with it.

### ***Reporting***

Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the County or its officers, officials, employees, agents or volunteers.

### ***Notice of Cancellation***

Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the County in accordance with policy terms and conditions.

### ***Waiver of Subrogation***

Subgrantee hereby grants to County a waiver of any right to subrogation (except for Professional Liability) which any insurer of said Subgrantee may acquire against the County by virtue of the payment of any loss under such insurance. Subgrantee agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the County has received a waiver of subrogation endorsement from the insurer.

### ***Self-Insured Retentions***

Self-insured retentions must be declared to and approved by the County. The County may require the Subgrantee to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

### ***Acceptability of Insurers***

Insurance is to be placed with California admitted insurers (licensed to do business in California) with a current A.M. Best's rating of no less than A-VII or a Standard & Poor's rating of at least BBB, however, if no California admitted insurance company provides the required insurance, it is acceptable to provide the required insurance through a United States domiciled carrier that meets the required Best's rating and that is listed on the current List of Approved Surplus Line Insurers (LASLI) maintained by the California Department of Insurance.

### ***Claims Made Policies***

If any of the required policies provide claims-made coverage:



1. The Retroactive Date must be shown, and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided for **at least** five (5) years after completion of the contract of work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Subgrantee must purchase “extended reporting” coverage for a minimum of five (5) years after completion of work.

### ***Verification of Coverage***

Subgrantee shall furnish the County with a copy of the policy declaration and/or endorsement page(s), original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All **certificates and endorsements are to be received and approved by the County before work commences**. However, failure to obtain the required documents prior to the work beginning shall not waive the Subgrantee’s obligation to provide them. The County reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

### ***Subcontractor***

Subgrantee shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Subgrantee shall ensure that County is an additional insured on insurance required from Subcontractor.

### ***Special Risks or Circumstances***

County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

### ***Insurance Limits***

The limits of insurance described herein shall not limit the liability of the Subgrantee and Subgrantee's officers, employees, agents, representatives or Subcontractor. Subgrantee's obligation to defend, indemnify and hold the County and its officers, officials, employees, agents and volunteers harmless under the provisions of this paragraph is not limited to or restricted by any requirement in the Agreement for Subgrantee to procure and maintain a policy of insurance.

[SIGNATURES SET FORTH ON THE FOLLOWING PAGE]



\_\_\_\_\_ Exempt from Auto – I will not utilize a vehicle in the performance of my work with the County.

\_\_\_\_\_ Exempt from WC – I am exempt from providing workers' compensation coverage as required under section 1861 and 3700 of the California Labor Code.

I acknowledge the insurance requirements listed above.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_


Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Vendor Name: City of Hughson

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*For CEO-Risk Management Division use only*

Exception: N/A

Approved by CEO for Risk Management:  Date: 12/15/2022



**EXHIBIT C**  
**GRANT REQUIREMENTS**

1. SUBGRANTEE RESPONSIBILITIES.

a. Subgrantee acknowledges that the California Department of Aging (CDA) may make reasonable changes to its procedures in support of this grant and its requirements. If CDA makes any changes to its procedures and guidelines, CDA agrees to notify Grantee, and Grantee will notify Subgrantee, within a reasonable timeframe.

b. Subgrantee shall complete the Grant Scope in accordance with the time of the Grant Performance Period set forth in Section 1, and under the terms and conditions of this agreement.

c. Subgrantee agrees that any other project changes or alterations which deviate from the intent of the project selection criteria provided by the Grantee in the original application must be submitted in writing to CDA Agreement Manager for prior approval.

2. DISPUTE RESOLUTION. The following dispute resolution procedure is applicable to the Grant.

In the event of a dispute, Grantee will discuss the problem informally with CDA's Grant Agreement Manager. If unresolved, the Grantee shall file a written "Notice of Dispute" with the CDA Grant Agreement Manager within ten (10) days of discovery of the problem. Within ten (10) days of receipt, the CDA Grant Agreement Manager shall meet with the Grantee for purposes of resolving the dispute. Any dispute arising under the terms of this Agreement which is not resolved within a reasonable period of time, the Grantee may bring it to the attention of the Deputy Director of the Division of Home and Community Living (DHCL) at [dhcl@aging.ca.gov](mailto:dhcl@aging.ca.gov). The decision of the CDA DHCL Deputy Director shall be final. Unless otherwise instructed by the CDA Grant Agreement Manager, the Grantee shall continue with its responsibilities under this Agreement during any dispute.

Upon request by the County, Subgrantee shall participate in good faith in the dispute resolution procedure, and comply with any decisions of the Grant Manager, the CDA or DHCL.

3. AGENCY.

a. In the performance of this Agreement, the Subgrantee and its agents, employees, and sub-subgrantees shall act in an independent capacity and not as officers, employees, or agents of the CDA or the County.

b. The Subgrantee is solely responsible for all activities supported by the Grant under this Agreement.



c. Nothing in this Agreement creates a partnership, agency, joint venture, employment, or any other type of relationship between the parties.

d. The Subgrantee shall not represent itself as an agent of the CDA or the County for any purpose and has no authority to bind the CDA in any manner whatsoever.

#### 4. PROMOTIONAL MATERIALS AND PUBLICATIONS.

a. The Centers for Medicare and Medicaid Services (CMS) and the California Department of Aging shall be acknowledged in all promotional materials and publications related to the CMS-funded project.

b. The Subgrantee must ensure that CDA receives full credit as the funding program and that the CMS is acknowledged as the source of funds.

c. Publications and information releases about the project must credit Home and Community Based Services. An appropriate statement for a publication or project press release is:

“This [publication/project] was supported in whole or in part by the Centers for Medicare and Medicaid Services (CMS) and the California Department of Aging (CDA), and no official endorsement by the CMS or the CDA shall be inferred.”

This credit line on products of a project, such as materials and publicity, is important to foster support from the public and by state and federal funding sources.

#### 5. PUBLICITY OBLIGATIONS.

a. The Subgrantee shall notify the County of any promotional materials or publications resulting from the award no later than five (5) days in advance of distribution, whether they are print, film, electronic, or in any other format or medium.

b. Copies of all promotional materials will be provided to the County.

c. The Subgrantee will acknowledge CMS support as noted above.

d. The Subgrantee agrees that the CDA may include information about this grant and its outcomes in its own annual reports, with specific reference to the Grantee, and may distribute such information to third parties.

#### 6. COPYRIGHT.

a. The County owns and retains titles to any copyrights or copyrightable material from any original works that it creates within the scope of this Agreement in accordance with the federal Copyright Act (17 U.S.C. 101, et seq.).



b. The Subgrantee is responsible for obtaining any necessary licenses, permissions, releases or authorizations to use text, images, or other materials owned, copyrighted, or trademarked by third parties and for extending such licenses, permissions, releases, or authorizations to the California Department of Aging pursuant to this section.

c. The CDA may upload, post, or transmit copyrighted material produced or purchased with grant funds on a California Department of Aging website for public access and viewing.

## 7. RECORDS.

a. Communications, grant related documents, data, original receipts, and invoices must be retained by the Subgrantee for seven (7) years beyond the final invoice date, and shall be made available to CDA upon request.

b. The Subgrantee agrees to maintain adequate grant program records and adequate financial records consistent with generally accepted accounting practices.

c. The Subgrantee shall maintain satisfactory financial accounts, documents, including loan documents, and all other records for the project and to make them available to CDA for auditing at reasonable times. The Subgrantee also agrees to retain such financial accounts, documents, and records for five years following project termination or issuance of final payment, whichever is later.

d. The Subgrantee shall keep such records as CDA shall prescribe, including records which fully disclose:

- i. The disposition of the proceeds of CDA funding assistance;
- ii. The total cost of the project in connection with such assistance that is given or used;
- iii. The amount and nature of that portion of the project cost supplied by other sources; and
- iv. Any other such records that will facilitate an effective audit.

e. The Subgrantee agrees that CDA or the County shall have the right to inspect and make copies of any books, records, or reports pertaining to this Agreement or matters related thereto during regular office hours. The Subgrantee shall maintain and make available for inspection by CDA or the County accurate records of all of its costs, disbursements and receipts with respect to its activities under this Agreement. Such accounts, documents, and records shall be retained by the Subgrantee for at least five years following project termination or issuance of final payment, whichever is later.



f. The Subgrantee shall use a generally accepted accounting system as required by CDA.

#### 8. PROJECT TERMINATION.

a. Project Termination refers to the non-completion of a Grant scope. Any grant funds that have not been expended by the Subgrantee shall revert back to CDA.

b. The County may unilaterally rescind this Agreement at any time prior to commencement of the project. The commencement of the project means the date of the letter notifying Subgrantee of the award or when the funds are appropriated, whichever is later. After project commencement, this Agreement may be rescinded, modified or amended only by mutual agreement in writing between the Grantee and CDA, unless the provisions of this agreement provide that mutual agreement is not required.

c. Failure by the Subgrantee to comply with the terms of any legislation applicable to the Grant, and/or this Agreement, specified or general, that Subgrantee has entered into with the County, may be cause for suspension of all obligations of CDA or the County until CDA or the County determines such failure was due to no fault of the Subgrantee. In such case, the County may reimburse Subgrantee for eligible costs properly incurred in performance of this Agreement despite non-performance of the Subgrantee. To qualify for such reimbursement, Subgrantee agrees to mitigate its losses to the best of its ability.

d. Any breach of any term, provision, obligation or requirement of this Agreement by the Subgrantee shall be a default of this Agreement. In the case of any default by Subgrantee, CDA and the County shall be entitled to all remedies available under law and equity, including, but not limited to: specific performance; return of all grant monies; payment to CDA of the fair market value of the project property or actual sales price, whichever is higher; and payment to CDA of the costs of enforcement of this Agreement, including but not limited to court and arbitration costs, fees, expenses of litigation, and reasonable attorney fees.

e. The Subgrantee and the County agree that if the Grant Scope includes development, final payment may not be made until the work described in the Grant Scope is complete.

9. BUDGET DETAIL AND PAYMENT PROVISIONS. It is agreed and understood that this grant award amount is a ceiling and that the County will only reimburse the allowable cost of services rendered or goods purchased as authorized by CDA at or below the grant award amount.

10. EXPENDITURE OF FUNDS. The Subgrantee shall expend all funds received hereunder in accordance with this Agreement. The Subgrantee agrees to include these requirements in all contracts it enters into with subgrantees to provide services pursuant to this Agreement.

11. ACCOUNTABILITY FOR FUNDS. The Subgrantee shall maintain accounting records for funds received under the terms and conditions of this Agreement. These records shall be separate from those for any other funds administered by the Subgrantee and shall be maintained in accordance with Generally Accepted Accounting Principles.



12. UNEXPENDED FUNDS. Upon termination, cancellation, or expiration of this Agreement, or dissolution of the entity, the Subgrantee shall return to the County immediately upon written demand, any funds provided under this Agreement, which are not payable for goods or services delivered prior to the termination, cancellation, or expiration of this Agreement, or the dissolution of the entity.

### 13. FUNDING CONTINGENCIES INVOICING AND PAYMENT.

a. Subgrantee shall prepare and submit a monthly expenditure report in an electronic format to the County no later than the last business day of each month or as specified by CDA or the County. The report shall include all costs and funding sources for the month prior Payments will be made to reimburse expenditures reported unless grantee pre-selects an Advance method at the time of agreement execution Subgrantee shall be charged \$75 per program fund source for expedited payments to recover the fees charged by the State Controller's Office (SCO). CDA or the County may waive the fees on a case-by-case basis as appropriate.

b. CDA may require financial reports more frequently than indicated above or with more detail (or both), upon written notice to the grantee, until such time as CDA determines that the financial management standards are met.

c. For services satisfactorily rendered, and upon receipt and approval of invoices submitted as described herein, the CDA agrees to compensate the Grantee in accordance with Exhibit A.

d. CDA reserves the right to refuse payment to the Subgrantee or disallow costs for any expenditure, as determined by CDA to be: out of compliance with this Agreement, unrelated or inappropriate to agreement activities, when adequate supporting documentation is not presented, or where prior approval was required, but was either not requested or not granted.

### 14. INSTRUCTIONS TO SUBGRANTEE.

a. The County shall reimburse Subgrantee with funding that has been appropriated, designated, encumbered, or otherwise made available for payment by the State under this Agreement.

b. Payments will be made to reimburse monthly expenditures reported. The County shall process and approve reported expenditures that are based upon actual, not estimated expenditures. The County shall notify the Subgrantee of any disputed expenditures.

c. Upon written request by CDA or the County, Subgrantee shall submit additional documentation or justification to support the reported expenditure.

d. The Subgrantee shall ensure, to the extent feasible, that all budgeted funds are expended by the expiration of this Agreement.



15. BUDGET CONTINGENCY CLAUSE. It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the program, this Agreement shall no longer be in full force and effect. In this event, the State or the County shall have no liability to pay any funds whatsoever to Grantee or to furnish any other considerations under this Agreement and Grantee shall not be obligated to perform any provisions of this Agreement. If funding for any Fiscal Year is reduced or deleted by the Budget Act for purposes of this program, the State or the County shall have the option to either cancel this Agreement with no liability occurring to the State or the County, or offer an Agreement amendment to Subgrantee to reflect the reduced amount. If this Agreement overlaps Federal and State fiscal years, should funds not be appropriated by Congress or approved by the Legislature for the Fiscal Year(s) following that during which this Agreement was executed, the State or County may exercise its option to cancel this Agreement. In addition, this Agreement is subject to any additional restrictions, limitations, or conditions enacted by Congress or the Legislature which may affect the provisions or terms of funding of this Agreement in any manner.



## **EXHIBIT D**

### **LABOR CODE, PREVAILING WAGES AND APPRENTICESHIP REQUIREMENTS**

#### **ARTICLE 1 - REGISTRATION**

##### **Contractor and Subcontractor Registration.**

In accordance with California Labor Code Section 1725.5, Contractors and Subcontractors (as defined by California Labor Code Section 1722.1, including Consultant, when applicable) bidding on or engaging in the performance of any Public Works contracts in California shall be registered with the Department of Industrial Relations. Labor Code Section 1725.5(f) states: "This section does not apply to work performed on a public works project of twenty-five thousand dollars (\$25,000) or less when the project is for construction, alteration, demolition, installation, or repair work or to work performed on a public works project of fifteen thousand dollars (\$15,000) or less when the project is for maintenance work." Although the unregistered contractor or subcontractor under Labor Code Section 1725.5(f) is not required to furnish the records specified in Section 1776 directly to the Labor Commissioner, such unregistered contractor shall retain the records specified in Section 1776 for at least three years after completion of the work. (Labor Code Section 1771.4).

#### **ARTICLE 2 – WORKING HOURS (Labor Code Section 1810-1815).**

Eight hours labor constitutes a legal day's work in all cases where the same is performed under the authority of any law of this State, or under the direction, or control, or by the authority of any officer of this State acting in his official capacity, or under the direction, or control or by the authority of any municipal corporation, or of any officer thereof. (Labor Code Section 1810).

The time of service of any worker employed upon public work is limited and restricted to eight hours during any one calendar day, and 40 hours during any one calendar week, except as provided for under Labor Code Section 1815. (Labor Code Section 1811).

Every contractor and subcontractor shall keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by him or her in connection with the public work. The record shall be kept open at all reasonable hours to the inspection of the awarding body and to the Division of Labor Standards Enforcement. (Labor Code Section 1812).

The contractor or subcontractor shall, as a penalty to the Owner, forfeit twenty-five dollars (\$25) for each worker employed in the execution of the contract by the respective contractor or subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of this article. The awarding body shall take cognizance of all violations of this article committed in the course of the execution of the contract, and shall report them to the Division of Labor Standards Enforcement. (Labor Code Section 1813).

Notwithstanding the provisions of Labor Code Sections 1810 to 1814, inclusive, and notwithstanding any stipulation inserted in any contract pursuant to the requirements of said sections, work performed by employees of contractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon public work upon compensation for all hours worked in excess of 8 hours per day at not less than 1-1/2 times the basic rate of pay. (Labor Code Section 1815).

#### **ARTICLE 3 – WORKERS' COMPENSATION (Labor Code Section 1860-1861).**

In accordance with the provisions of Labor Code Section 3700, every contractor will be required to secure the payment of compensation to his or her employees. (Labor Code Section 1860).

By submission of a bid, the Contractor hereby certifies as follows: "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that



code, and I will comply with such provisions before commencing the performance of the work of this contract.” (Labor Code Section 1861).

#### ARTICLE 4 – DEBARRED CONTRACTORS AND SUBCONTRACTORS.

Debarred Contractors or Subcontractors. In accordance with the provisions of the California Labor Code, contractors or subcontractors may not perform work on a public works project with a subcontractor who is ineligible to perform work on a public project pursuant to Section 1777.1 or Section 1777.17 of the California Labor Code. Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract. Any public money that is paid or may have been paid to a debarred subcontractor by a contractor on the Project shall be returned to the Agency. The Contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the Project.

#### ARTICLE 5 – PREVAILING WAGES.

This Project is subject to applicable prevailing wage requirements, including prevailing wage compliance monitoring and enforcement by the Department of Industrial Relations.

“Public Works” Includes Preconstruction, Construction, Post-Construction Work. Under Labor Code 1720(a), “public works” includes all of the following: Construction, alteration, demolition, installation, or repair work done under contract and paid for in whole or in part out of public funds. For purposes of this paragraph, “construction” includes work performed during the design, site assessment, feasibility study, and other preconstruction phases of construction, including, but not limited to, inspection and land surveying work, regardless of whether any further construction work is conducted, and work performed during the post-construction phases of construction, including, but not limited to, all cleanup work at the jobsite. For purposes of this paragraph, “installation” includes, but is not limited to, the assembly and disassembly of freestanding and affixed modular office systems.

This Project is subject to the requirements of Labor Code Section 1720 et seq., the terms of which are incorporated herein by this reference.

Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are on file at <http://www.dir.ca.gov/dlse/dlsePublicWorks.html> or in the offices of the Owner and are deemed included in the Bidding Documents. Upon request, Owner will make available copies to any interested party. The successful Bidder shall post the applicable prevailing wage rates at the Site.

Contractor shall pay to persons performing labor in and about Work provided for in the Contract Documents an amount equal to or more than the general prevailing rate of per diem wages for (1) work of a similar character in the locality in which the Work is performed and (2) legal holiday and overtime work in said locality. The per diem wages shall be an amount equal to or more than the stipulated rates contained in a schedule that has been ascertained and determined by the Director of the State Department of Industrial Relations and Owner to be the general prevailing rate of per diem wages for each craft or type of workman or mechanic needed to execute this Contract. Contractor shall also cause a copy of this determination of the prevailing rate of per diem wages to be posted at each Site.

Contractor shall forfeit, as a penalty to Owner, Two Hundred Dollars (\$200.00) for each worker employed in performing labor in and about the Work provided for in the Contract Documents for each Day, or portion thereof, that such worker is paid less than the said stipulated rates for any work done under the Contract Documents by him or her or by any Subcontractor under him or her, in violation of Articles 1 and 2 of Chapter 1 of Part 7 of Division II of the California Labor Code.



The sums and amounts which shall be forfeited pursuant to this paragraph and the terms of the Labor Code shall be withheld and retained from payments due to Contractor under the Contract Documents, but no sum shall be so withheld, retained or forfeited except from the final payment without a full investigation by either the State Department of Industrial Relations or by Owner. The Labor Commissioner pursuant to Labor Code Section 1775 shall determine the final amount of forfeiture.

Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of work or labor on Work provided for in the Contract, provision that Subcontractor shall pay persons performing labor or rendering service under subcontract or other arrangement not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed in the Labor Code.

Contractor stipulates that it shall comply with all applicable wage and hour laws, including without limitation Labor Code Section 1813. Failure to so comply, including without limitation Labor Code Section 1776, shall constitute a default under this Contract.

Contractor and all Subcontractors shall keep accurate payroll records in accordance with Labor Code Section 1776. If directed by the Labor Commissioner, Owner will withhold Contract payments when payroll records are delinquent or inadequate.

Contractor shall post all jobsite notices if and when prescribed by regulation.

The payroll records enumerated above must be certified and shall be available for inspection at all reasonable hours at the principal office of Contractor as required by Labor Code Section 1776.

Contractor shall inform Owner of the location of records enumerated above, including the street address, city and county, and shall, within five working Days, provide a notice of a change of location and address.

Each contractor and subcontractor shall furnish the records specified in Section 1776 directly to the Labor Commissioner, in the following manner:

(i) At least monthly or more frequently if specified in the contract with the awarding body. For purposes of this clause, "monthly" means that a submission of records shall be made at least once every 30 days while work is being performed on the project and within 30 days after the final day of work performed on the project.

(ii) In an electronic format, in the manner prescribed by the Labor Commissioner, on the department's internet website.

A contractor or subcontractor who fails to furnish records relating to its employees, shall be subject to a penalty by the Labor Commissioner of one hundred dollars (\$100) per each day in which that party was in violation of subparagraph (A), not to exceed a total penalty of five thousand dollars (\$5,000) per project. Penalties received pursuant to this paragraph shall be deposited in the State Public Works Enforcement Fund established by Section 1771.3 and shall be used only for the purposes specified in that section.

If the contractor or subcontractor is not registered pursuant to Section 1725.5 and is performing work on a project for which registration is not required because of subdivision (f) of Section 1725.5 (work performed on a public works project of twenty-five thousand dollars (\$25,000) or less when the project is for construction, alteration, demolition, installation, or repair work or to work performed on a public works project of fifteen thousand dollars (\$15,000) or less when the project is for maintenance work), the unregistered contractor or subcontractor is not required to furnish the records specified in Section 1776 directly to the Labor Commissioner but shall retain the records specified in Section 1776 for at least three years after completion of the work.



Contractor or Subcontractor has 10 Days in which to comply subsequent to receipt of a written notice requesting the records enumerated in Labor Code Section 1776(a). In the event that Contractor or Subcontractor fails to comply with the ten-Day period, he or she shall, as a penalty to Owner on whose behalf the contract is made or awarded, forfeit \$100.00 for each calendar Day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due. Contractor is not subject to a penalty assessment pursuant to this paragraph due to the failure of a Subcontractor to comply with this paragraph.

Contractor shall notify Owner in writing in the event of any change, addition or substitution of a subcontractor.

Contractor will be fully responsible for reporting to and providing all documentation and other information required by the Department of Industrial Relations, and for paying all resulting penalties, fines, and other amounts due on account of any prevailing wage or other labor, wage or hour violation.

#### ARTICLE 6 – APPRENTICES ON PUBLIC WORKS PROJECTS

Contractor and Contractor's subcontractor(s) shall be responsible for compliance with the provisions of law relating to employment of apprentices, including Labor Code Sections 1777.5, 1777.6, and 1777.7. Pursuant to Labor Code Section 1777.7, violations of Labor Code Section 1777.5 may result in forfeiture not to exceed One Hundred Dollars (\$100.00) for each full calendar day of non-compliance. Information regarding apprenticeship standards, wage schedules, and other requirements may be obtained from the DIR or from the Division of Apprenticeship Standards of the DIR.

The requirements of Labor Code §1777.5 do not apply to contracts of general contractors or to contracts of specialty contractors not bidding for work through a general or prime contractor when the contracts of general contractors or those specialty contractors involve less than thirty thousand dollars (\$30,000).

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of the California Department of Industrial Relations, or from the Division of Apprenticeship Standards and its branch offices.





## CITY COUNCIL AGENDA ITEM NO. 3.9

### SECTION 3: CONSENT CALENDAR

**Meeting Date:** January 23, 2023  
**Subject:** Adopt Resolution No. 2023-06, Approving a Donation to Project Resolve  
**Enclosure:** Project Resolve Community Poll-2021  
**Presented By:** Merry Mayhew  
**Approved By:** Merry Mayhew  
City Manager

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#### Staff Recommendation:

Adopt Resolution No. 2023-06, approving a donation to Project Resolve in the amount of \$1,000.

#### Background and Overview:

In 2020, angry protests were conducted in many cities across the United States. Behind the anger, were killings of unarmed black men, by police officers. One example in 2020 was George Floyd in Minneapolis that was held down by police officers, one of whom had his knee on Mr. Floyd's neck for more than nine minutes while he pleaded that he could not breathe. After his death, protests broke out across the United States and even demonstrations in other parts of the world.

In Stanislaus County, Sheriff Jeff Dirkse, city police chiefs, the Probation Department Chief, California Highway Patrol, and the district attorney's office responded to requests to convene for a series of meetings about the issues in our own community. Community members from elected officials, leaders of religious and community groups, individuals, charities, the South Modesto Partnership, and the NAACP began meeting with the help of a professional facilitator. The goal of Project Resolve is to build and maintain trust and strong relationships between our communities and law enforcement.

EMC Research, a national polling and market research firm with more than 30 years of experience in the industry, surveyed and collected data used to identify areas of strength, weakness, and opportunities for improving and maintaining strong relationships between residents of communities and the local law enforcement agencies and personnel.



The first survey was conducted in 2021 between February 18-26, over 1000 interviews were conducted in English and Spanish by trained, professional interviewers, and the cost was funded by local donors and Stanislaus County. Specific questions and responses are detailed in the attached 2021 Project Resolve Community Poll.

Key findings from the 2021 Poll include:

- Stanislaus County residents have generally favorable opinions about law enforcement in the County. The Sheriff's Department, local police departments, and individual police officers receive positive favorability and job ratings from the majority of county residents.
- More than three-out-of-four residents feel that county law enforcement treats them with respect (77%) and that local law enforcement is reliable and trustworthy (76%).
- Those with less positive or more negative ratings of local law enforcement tend to be younger and are more likely to be Hispanic or Black, Indigenous, and People of Color (BIPOC) residents.
- There is little difference between how residents view the County Sheriff's Department and local police departments. Most residents do not distinguish one from the other and generally hold the same opinions of both county and local law enforcement.
- Despite positive ratings for law enforcement, a majority of residents (52%) are concerned about police violence in Stanislaus County, and a significant majority (80%) feel crime is a major problem in the county. Additionally, more than one-third of residents (38%) indicate they have personally had a negative interaction with a police officer.

A large majority of residents say they are concerned about police violence and use of force in Stanislaus County, indicating this concern is at the very least in the back of the minds of many residents, despite their generally positive views of local law enforcement. The largest share of negative opinions regarding law enforcement is among younger residents ages 18-39 and residents of color.

Based on the results of the Poll, the Sheriff's Department has made a concentrated effort to reach those having the largest share of negative opinions of law enforcement. These efforts include an increase in social media information sharing, designating a lieutenant who coordinates and deploys deputies to community events for greater community outreach, and providing community debriefing of major incidents quickly and with as much information as the investigation and law allow. The Sheriff's Department also has an annual report that is provided to the public to provide transparency and accountability.



Specific to the City of Hughson, and resulting from the responses received from the Poll, Chief Fidel Landeros started the Spanish Language Community Academy as a way to reach out to the Hispanic community in Hughson and build relationships and trust between the community and law enforcement.

**Discussion:**

As Project Resolve moves into the 3<sup>rd</sup> year, each stakeholder group is asked to contribute to funding a follow-up survey and the ongoing collection of data and learning about what activities are supporting or impeding progress toward strong relationships between communities and their law enforcement.

Project Resolve proposed that cities consider a sliding scale based on a percentage of the city population to the total county population. For Hughson, the percentage is approximately 1.36% which equates to \$544. The recommendation is to increase the donation to \$1,000 as the follow-up survey is necessary and beneficial to determine if the actions taken based on the responses received are having the desired effect of building relationships and trust with the community.

If approved, the donation would be made payable to:

Center for Human Services  
Attn: Project Resolve  
2000 W. Briggsmore Ave., Ste. I  
Modesto, CA 95350

**Fiscal Impact:**

If approved, there is a \$1,000 fiscal impact on the City of Hughson's General Fund. Budget appropriations are available due to current staff vacancies.



**CITY OF HUGHSON  
CITY COUNCIL  
RESOLUTION NO. 2023-06**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUGHSON APPROVING A  
DONATION TO PROJECT RESOLVE IN THE AMOUNT OF \$1,000**

**WHEREAS**, Project Resolve is a local network resolved to build and maintain trust and strong relationships between Stanislaus County communities and law enforcement; and

**WHEREAS**, trust between a community and its law enforcement agencies is fundamental to effective policing and community safety; and

**WHEREAS**, Project Resolve conducted a community-wide assessment in 2021 to provide Project Resolve, its partners, and Stanislaus County residents with local data regarding the feeling and perceptions of law enforcement; and

**WHEREAS**, the data is being used to identify areas of strength, weakness, and opportunities for improving and maintaining strong relationships between residents of Stanislaus County and their local law enforcement agencies and personnel; and

**WHEREAS**, data from a 2023 community-wide assessment will be used to inform the community if the actions taken by law enforcement based on the 2021 assessment is having the desired effect of building relationships and trust with the community.

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson approves a donation of \$1,000 to the Center for Human Services, Attn: Project Resolve.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23<sup>rd</sup> day of January 2023 by the following roll call vote:

**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

\_\_\_\_\_  
**GEORGE CARR, Mayor**

**ATTEST:**

\_\_\_\_\_  
**ASHTON GOSE, City Clerk**





# Project Resolve Stanislaus County *February 2021*

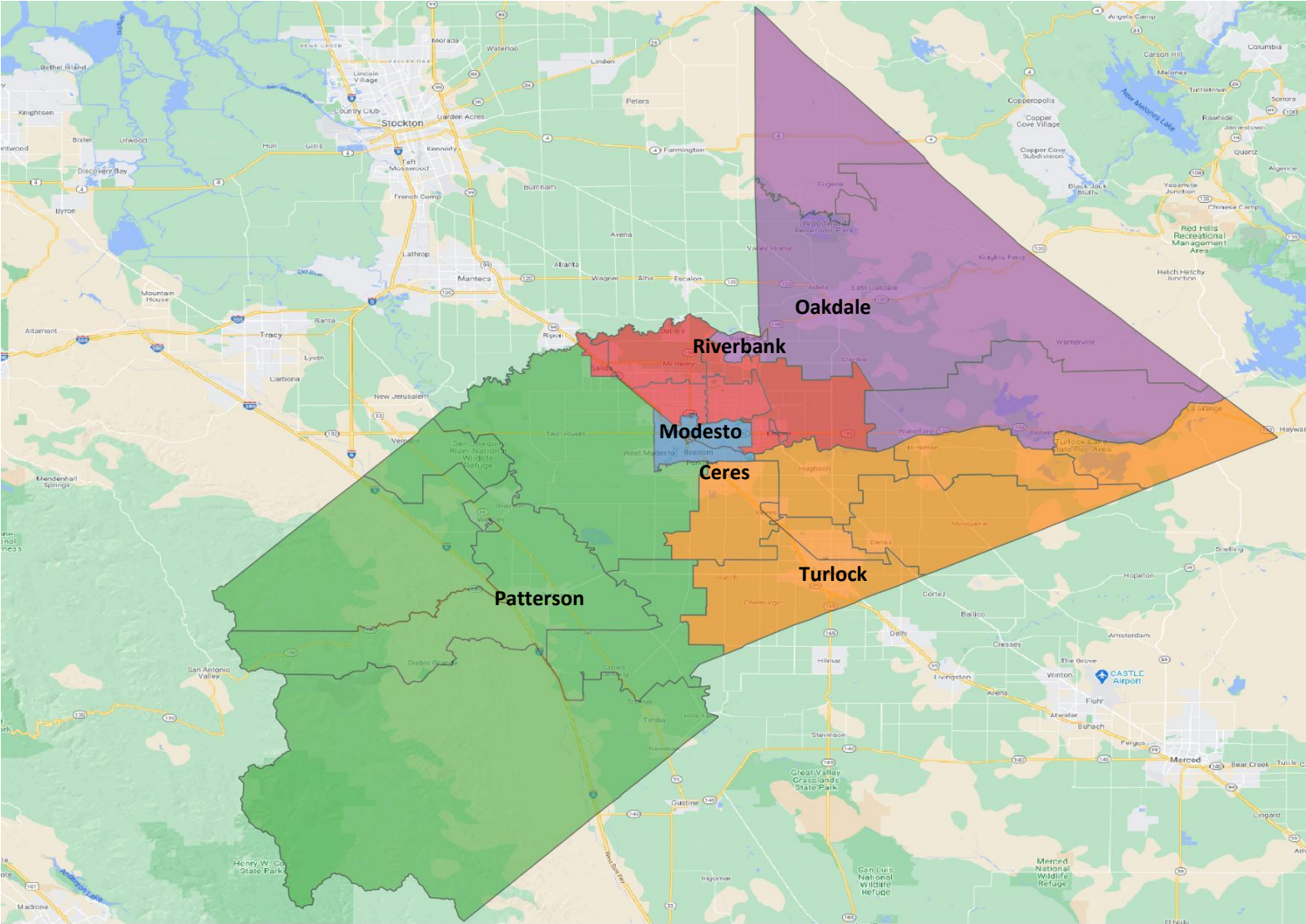


- ▶ Live telephone/online email and text-to-web survey of Stanislaus County residents 18+
- ▶ Survey conducted February 18 – 26, 2021
- ▶ 1,006 interviews; overall margin of error  $\pm 3.09$  percentage points
- ▶ Interviews were conducted in English and Spanish by trained, professional interviewers; landlines and mobile phones included

Please note that due to rounding, some percentages may not add up to exactly 100%.



# Regions



Region	Zip Codes
North Modesto (33%)	95319, 95350, 95352, 95355, 95356, 95357, 95368
South Modesto (13%)	95351, 95353, 95354
West (13%)	95313, 95322, 95358, 95360, 95363, 95385, 95387
Northeast (12%)	95230, 95361, 95367, 95386
Southeast (29%)	95307, 95316, 95323, 95326, 95328, 95329, 95380, 95381, 95382



# Key Findings

- ▶ Stanislaus County residents have generally favorable opinions about law enforcement in the County. The Sheriff's Department, local police departments, and individual police officers receive positive favorability and job ratings from the vast majority of county residents.
- ▶ More than three-out-of-four residents feel that county law enforcement treats them with respect (77%) and that local law enforcement is reliable and trustworthy (76%).
- ▶ Those with less positive or more negative ratings of local law enforcement tend to be younger and are more likely to be Hispanic or BIPOC residents.
- ▶ On the whole, there is little difference between how residents view the County Sheriff's Department and local police departments. Most residents do not distinguish one from the other and generally hold the same opinions of both county and local law enforcement.
- ▶ Despite positive ratings for law enforcement, a majority of residents (52%) are concerned about police violence in Stanislaus County, and a significant majority (80%) feel crime is a major problem in the county. Additionally, more than one-third of residents (38%) indicate they have personally had a negative interaction with a police officer.



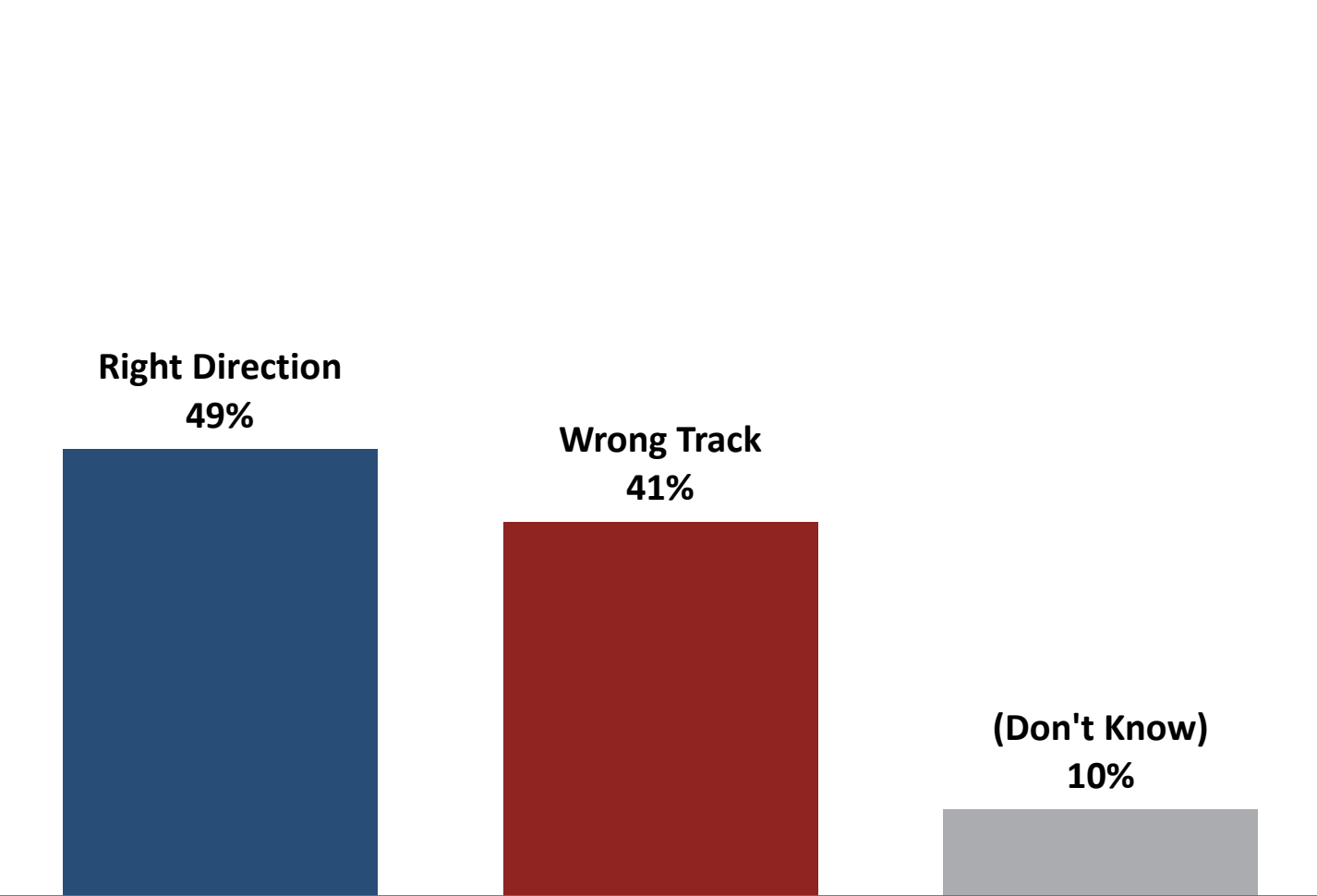


**Issue Environment**



# Right Direction/Wrong Track

Residents are split about the direction Stanislaus County is heading. Self-identified liberal and moderate residents are more likely to feel optimistic than ideologically conservative residents.



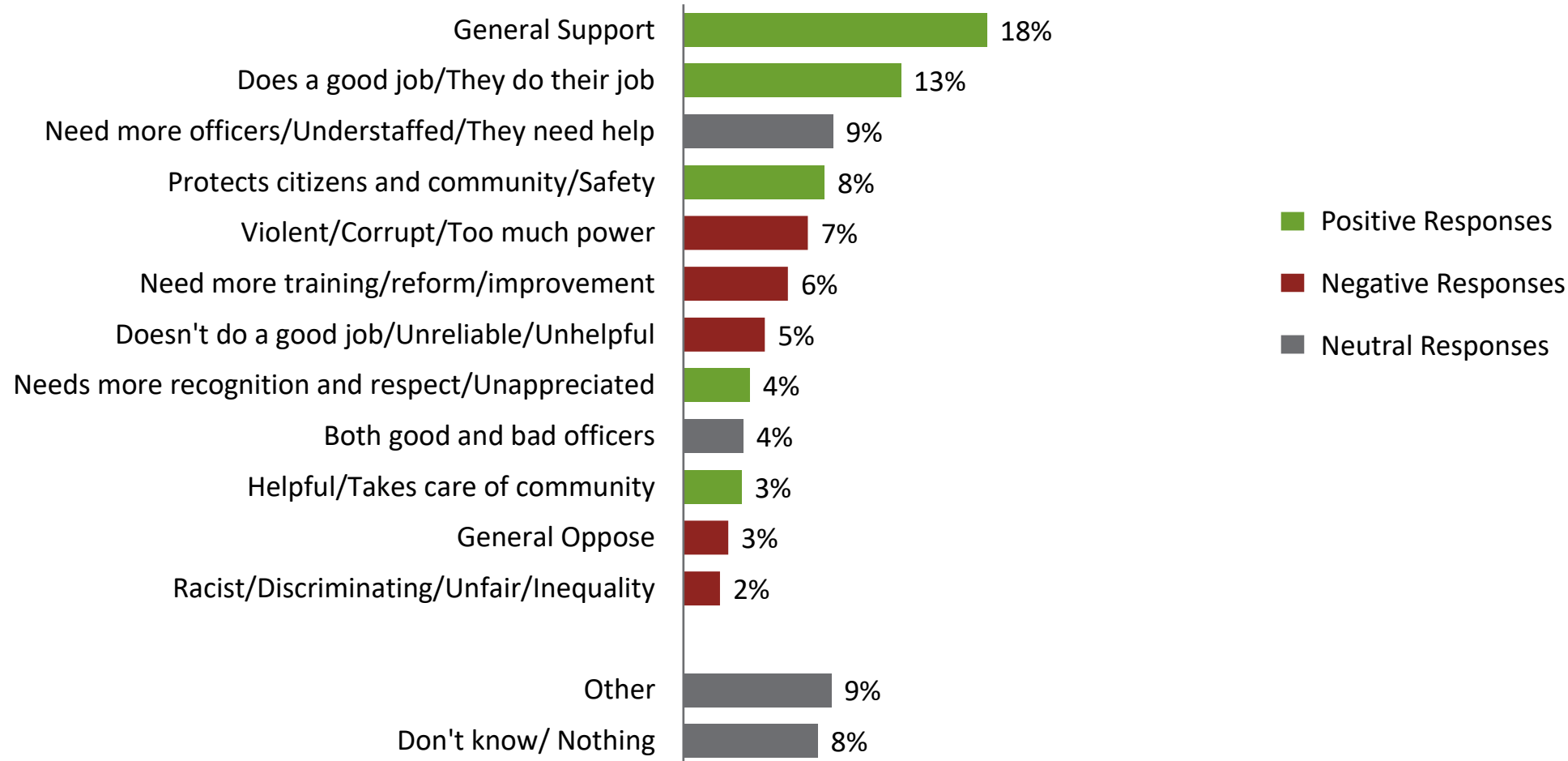
	Right Direction	Wrong Track	Don't know
Overall	49%	41%	10%
Male (45%)	48%	40%	12%
Female (55%)	50%	42%	8%
18-29 (20%)	50%	39%	10%
30-39 (16%)	47%	47%	6%
40-49 (17%)	45%	47%	8%
50-64 (26%)	47%	42%	11%
65+ (20%)	57%	33%	10%
White (42%)	48%	42%	11%
Hispanic (42%)	53%	37%	9%
BIPOC (16%)	42%	51%	7%
North Modesto (33%)	49%	41%	9%
South Modesto (13%)	48%	40%	12%
West (13%)	52%	40%	8%
Northeast (12%)	57%	40%	3%
Southeast (29%)	45%	43%	12%
Liberal (26%)	55%	38%	7%
Moderate (32%)	54%	36%	10%
Conservative (41%)	42%	47%	11%

Q3. Do you feel that things in Stanislaus County are going in the right direction or do you feel things are pretty seriously off on the wrong track?



# Law Enforcement Opinions

*No single reaction or idea is top of mind for most residents when they think of law enforcement; while many have generally positive opinions, approximately one-in-four have a negative top-of-mind reaction.*





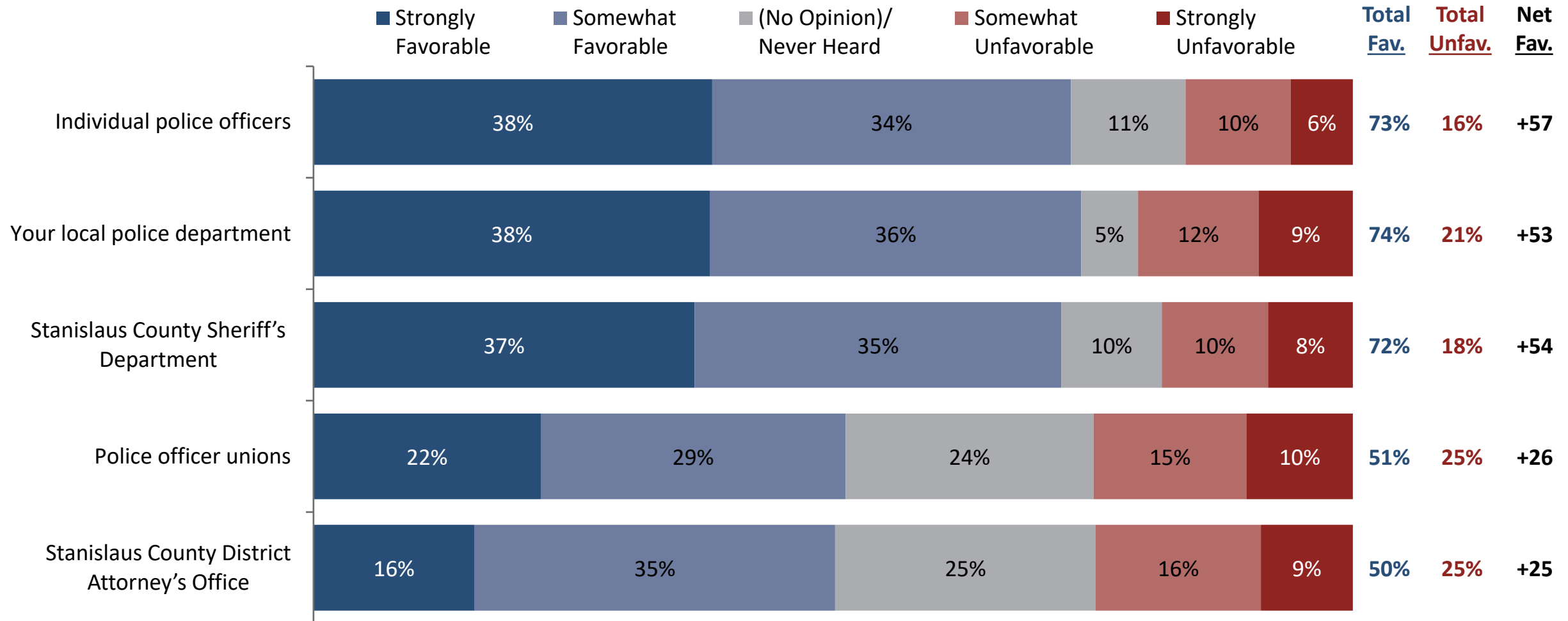


**Ratings**



# Law Enforcement Favorable Ratings

*Individual police officers, your local police department, and the Sheriff's Department receive positive favorability ratings.*

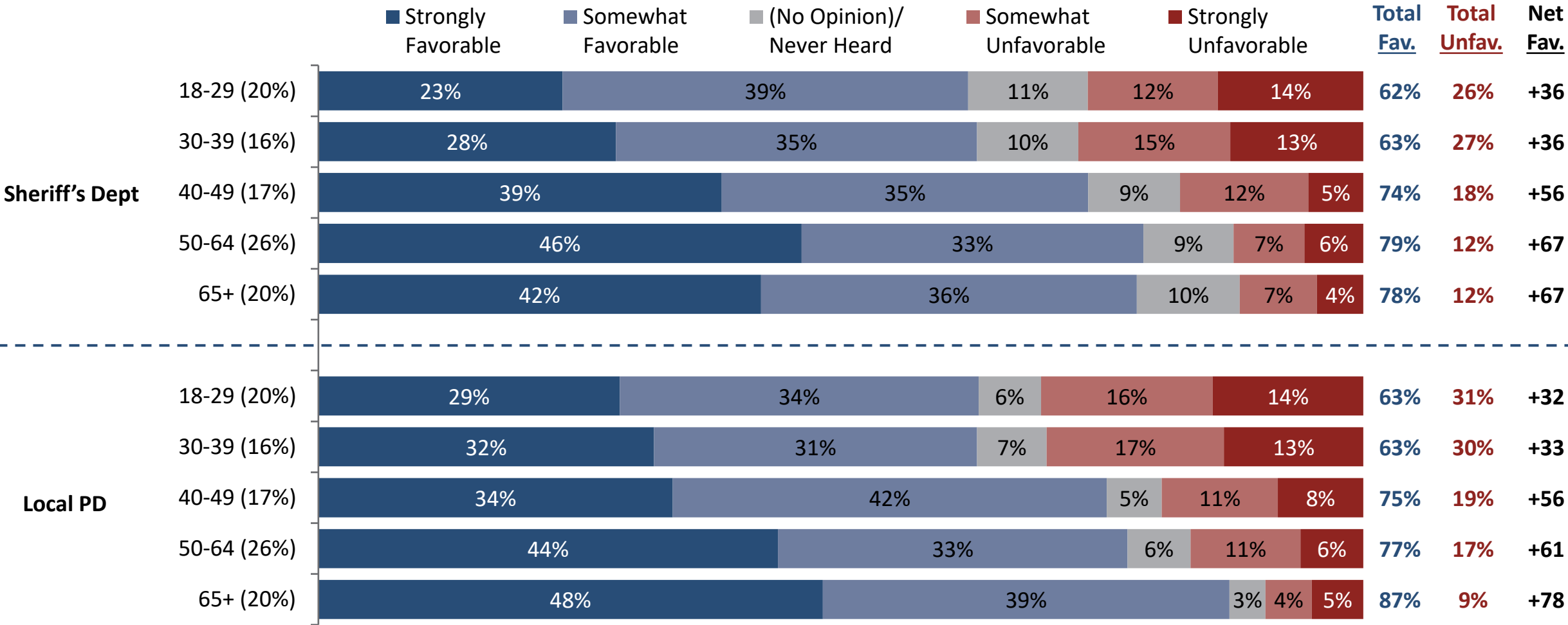


Q5-9. I'm going to read you a list of several people and organizations. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one. If you have never heard of one, please just say so.



# Sheriff & Local PD Favorable Ratings by Subgroups

*Ratings are similar across age groups.*

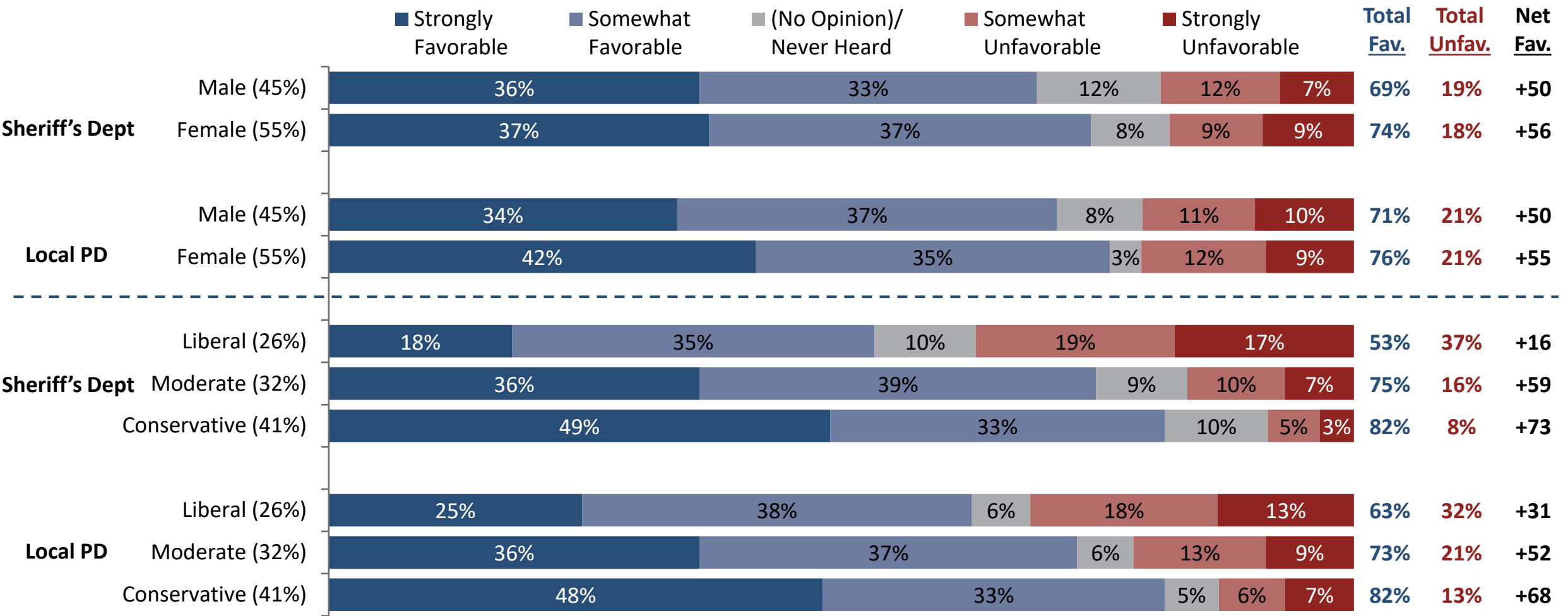


Q5/7. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...the Stanislaus County Sheriff's Department/your local police department.



# Sheriff & Local PD Favorable Ratings by Subgroups

*Self-identified liberals have a lower net favorable rating of the Sheriff's Department v. local police departments.*

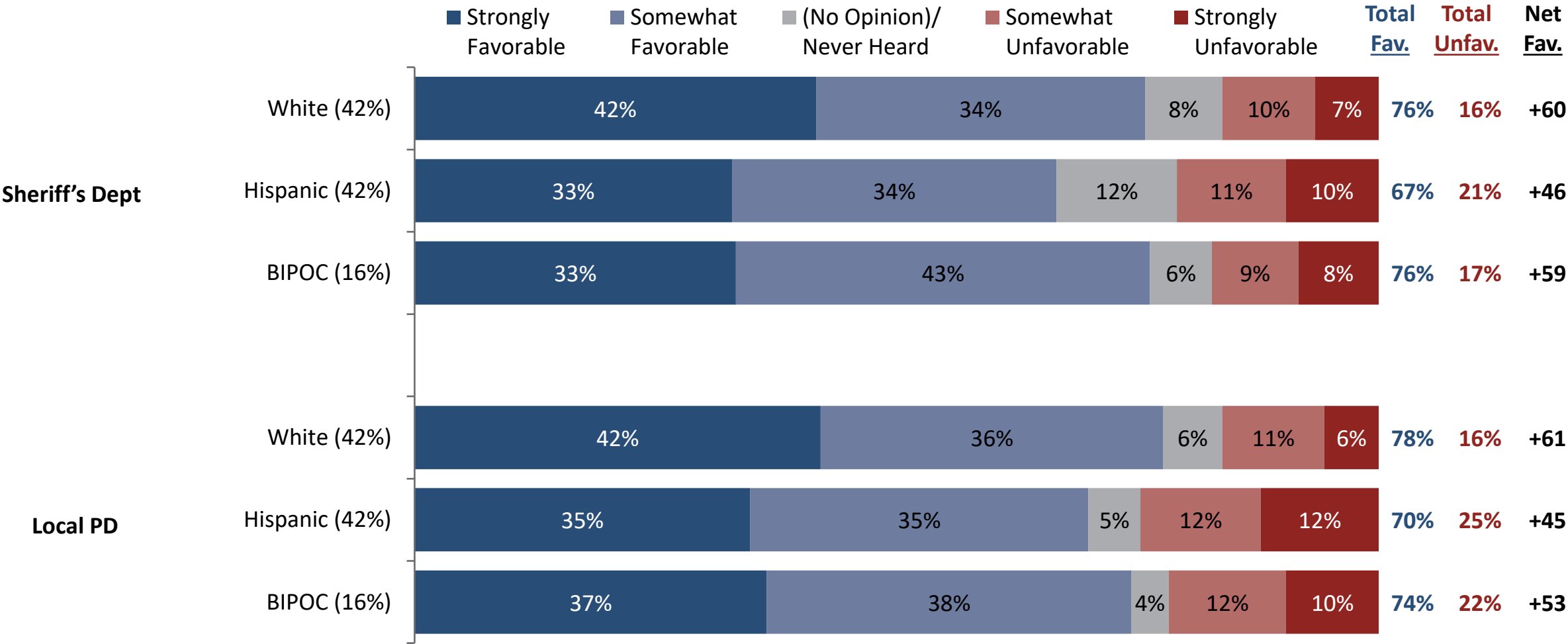


Q5/7. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...the Stanislaus County Sheriff's Department/your local police department.



# Sheriff & Local PD Favorable Ratings by Subgroups

*Favorable ratings are similar across racial/ethnic categories.*

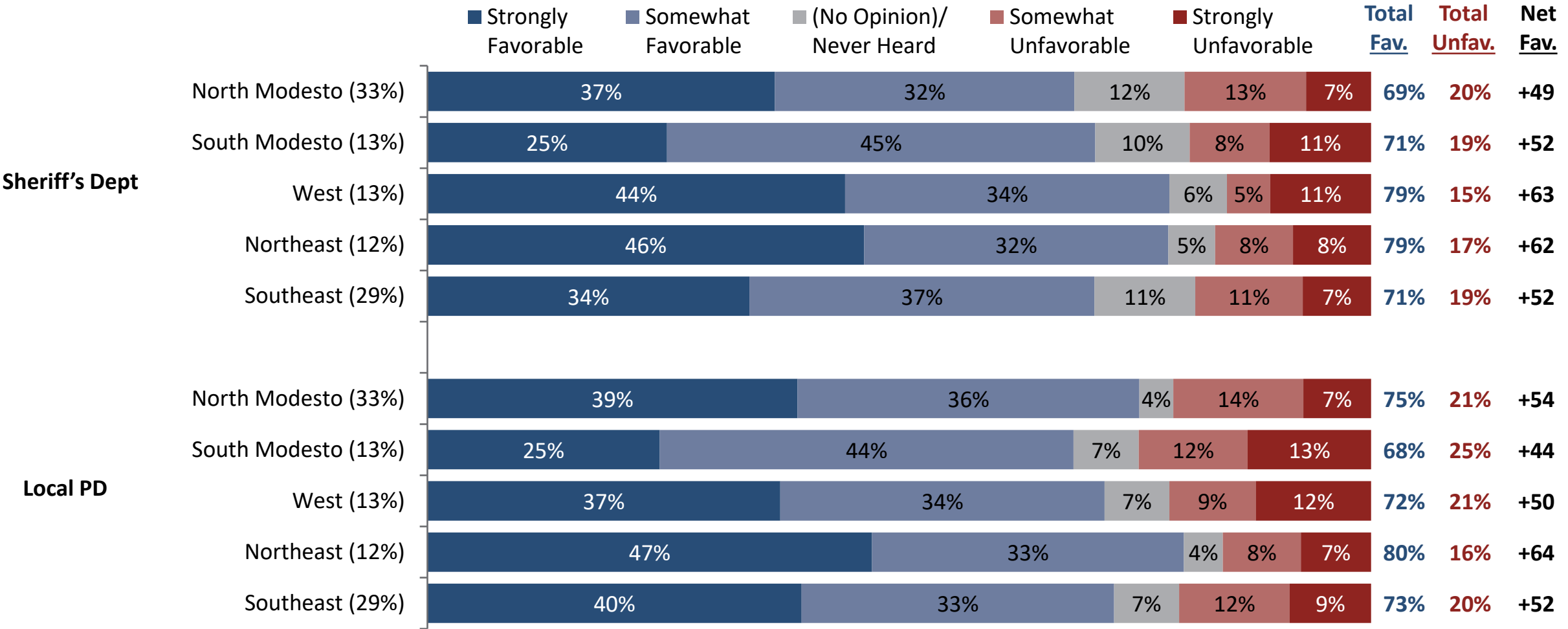


Q5/7. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...the Stanislaus County Sheriff's Department/your local police department.



# Sheriff & Local PD Favorable Ratings by Subgroups

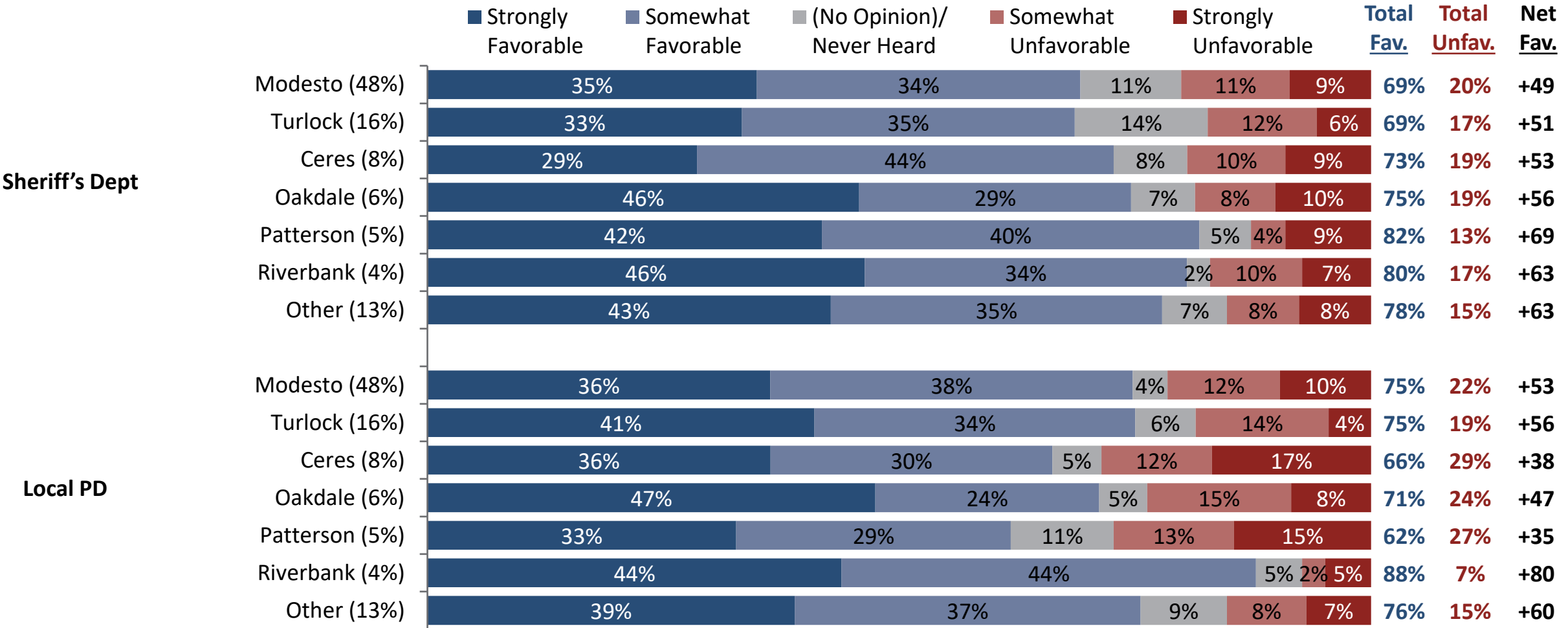
West region residents have a more positive view of the Sheriff's Department than local police departments.





# Sheriff & Local PD Favorable Ratings by Subgroups

Ceres and Patterson residents have a more negative view of local police departments compared to their opinions of the Sheriff's Department.





# Profiles of Sheriff's Department Favorability



Among the **37%** of residents that have a Strongly Favorable opinion of the Sheriff's Department...

- 57% are over the age of 50
- 48% are White
- 55% are conservative

---

Among the **8%** of residents that have a Strongly Unfavorable opinion of the Sheriff's Department...

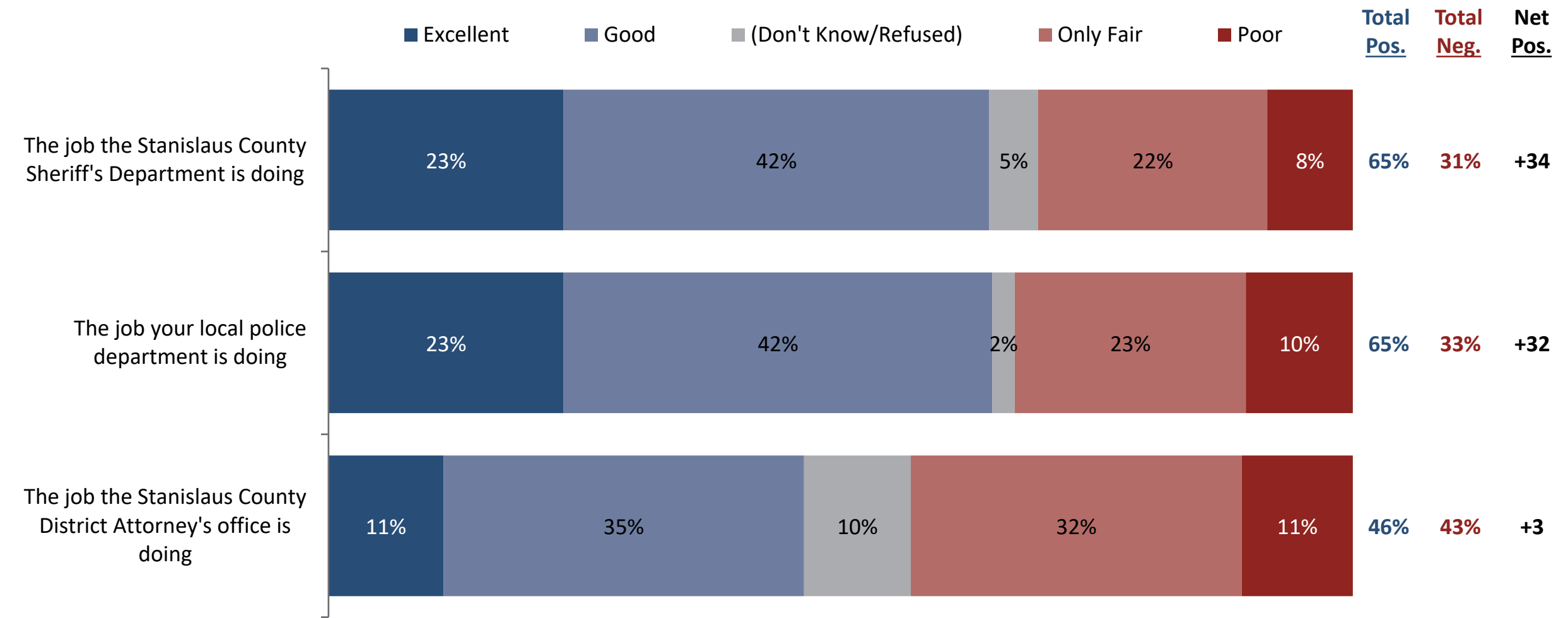
- 60% are under the age of 40
- 50% are Hispanic
- 56% are liberal





# Job Ratings

*A majority of residents gave a positive job rating for the County Sheriff’s Department as well as their local police department, while residents are split on the District Attorney’s office.*





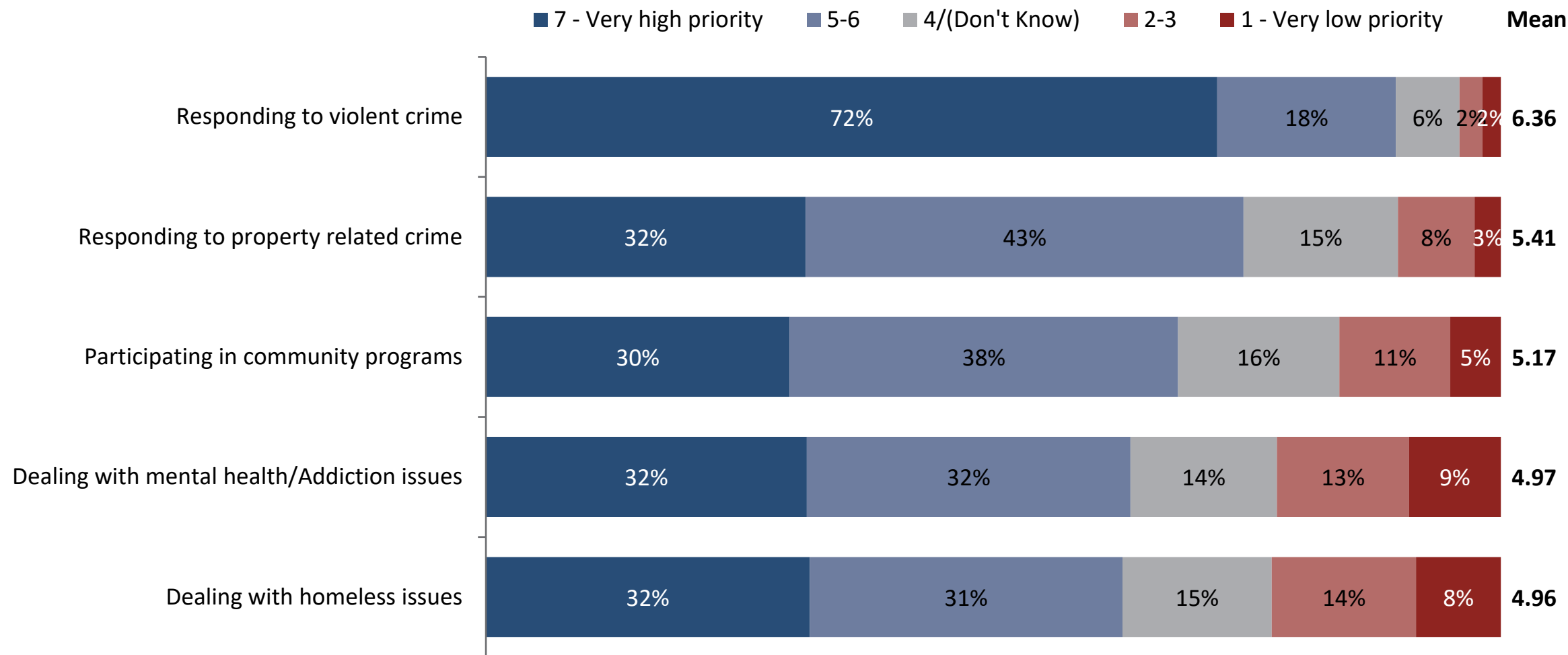


**Priorities & Opinions**



# Law Enforcement Priorities

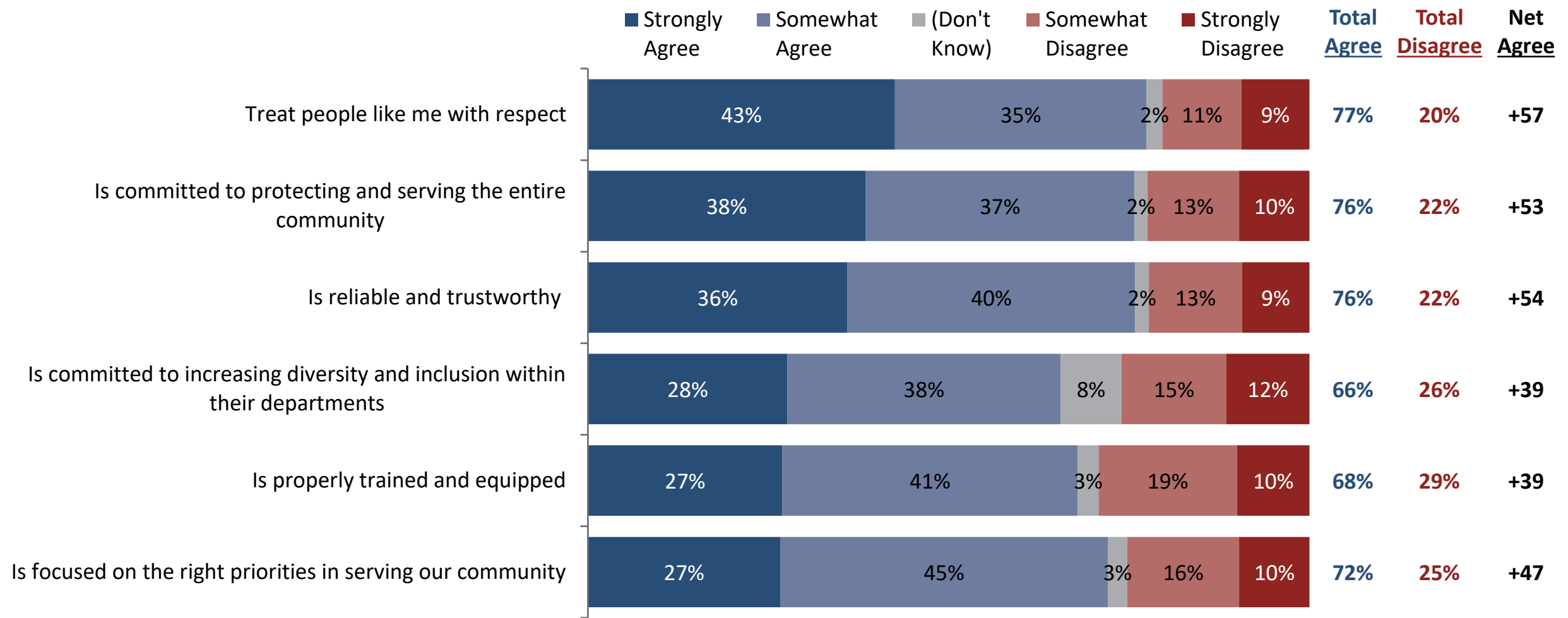
*Responding to violent crime is clearly a top law enforcement priority for local residents; nearly two-thirds of residents or more see other items as at least somewhat of a priority.*





# Agree/Disagree: Law Enforcement in Stanislaus County

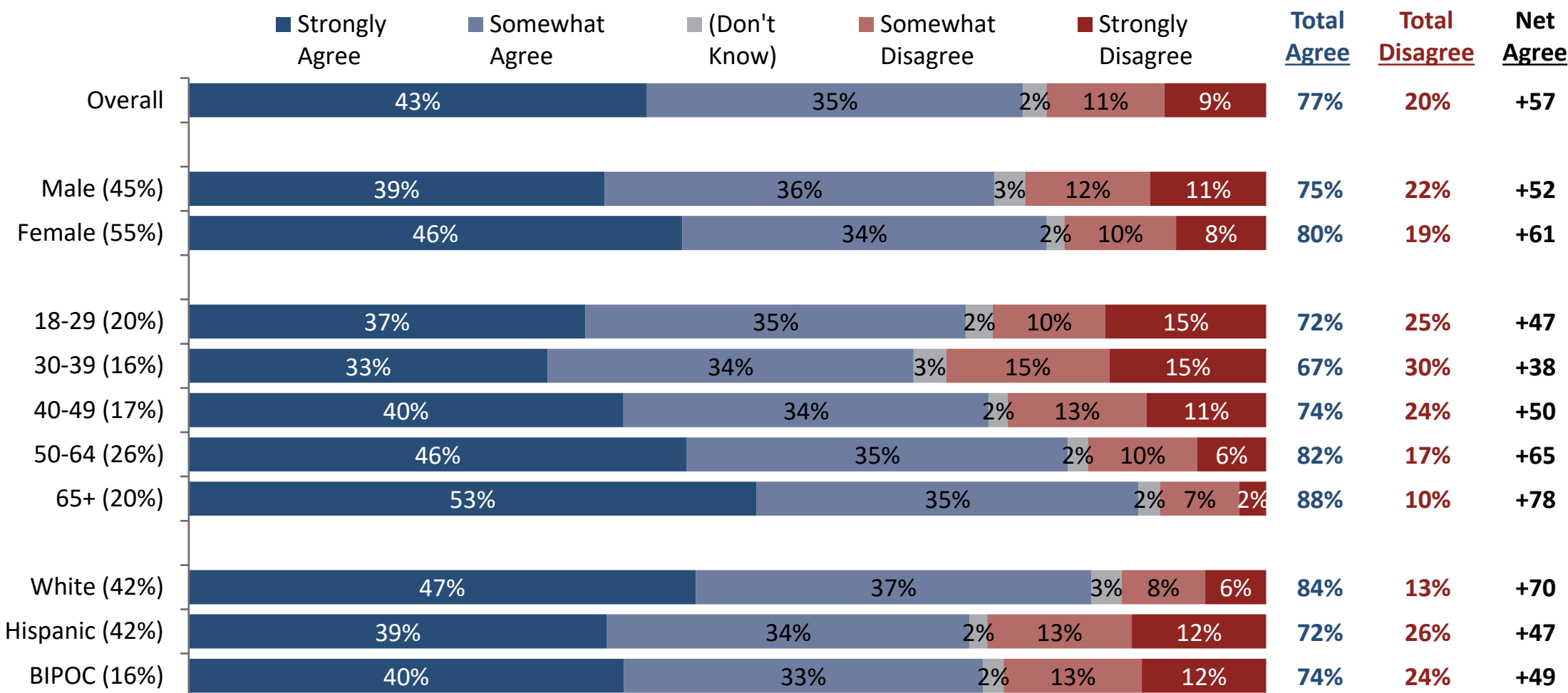
*Attitudes toward law enforcement in Stanislaus County are largely positive. Most people feel law enforcement is respectful, trustworthy, and committed to serving the whole community.*





# Agree/Disagree: Respect

*All subgroups agree that law enforcement in the County treat people like them with respect. Younger, Hispanic and BIPOC residents are more likely to disagree.*

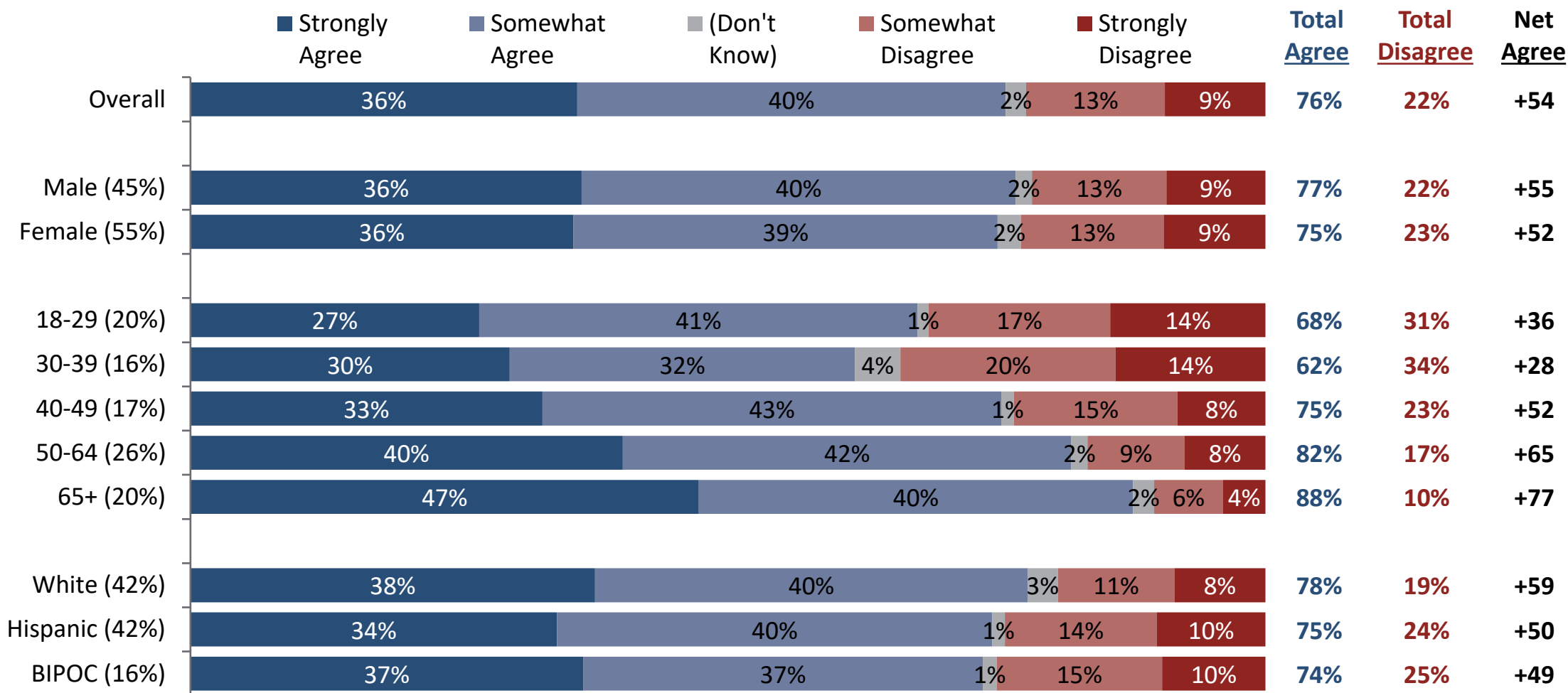


Q20. I'm going to read you a list of phrases. For each one please tell me if you strongly agree, somewhat agree, somewhat disagree or strongly disagree that the phrase describes law enforcement in Stanislaus County...*Treat people like me with respect.*



# Agree/Disagree: Reliable and Trustworthy

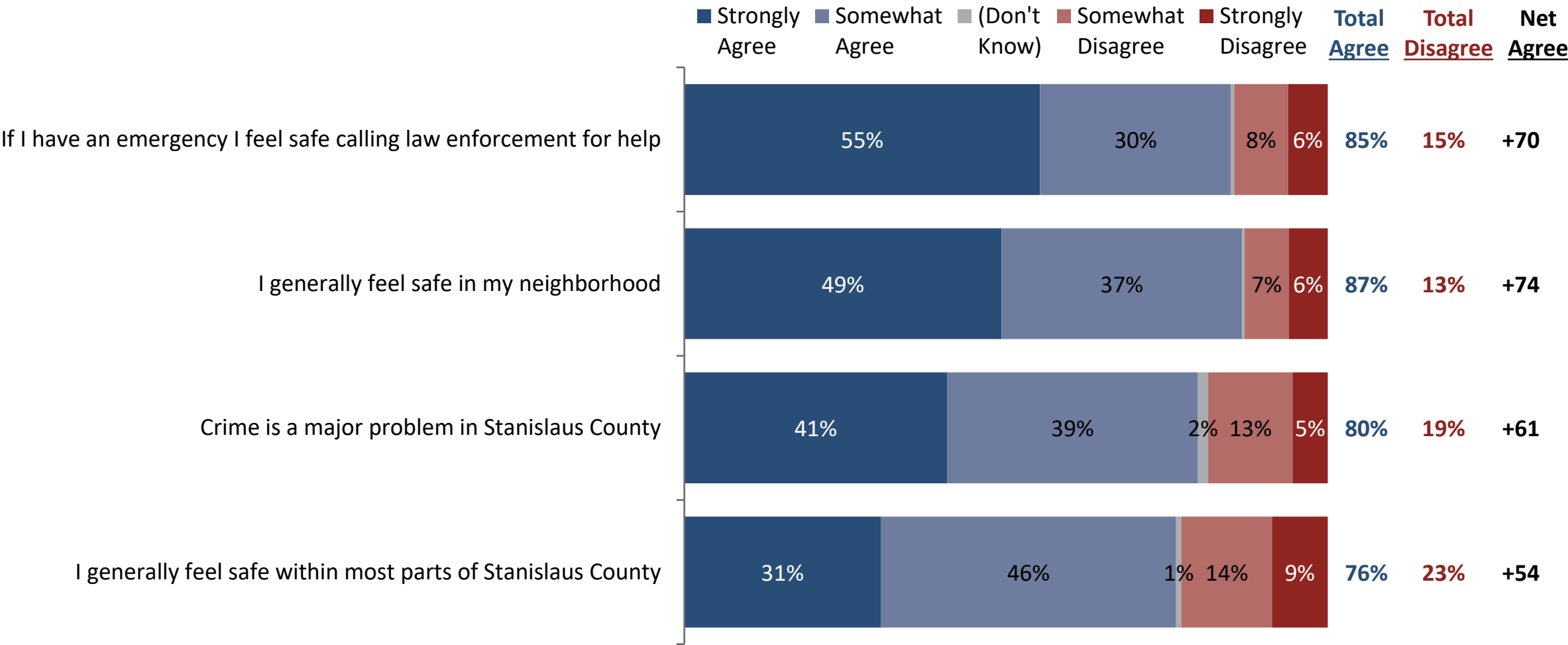
Older residents give law enforcement very high trust ratings.





# Agree/Disagree: Safety in Stanislaus County

*The vast majority of residents feel safe in their own neighborhood and within most parts of the County; however, most also believe crime is a major problem in the County.*

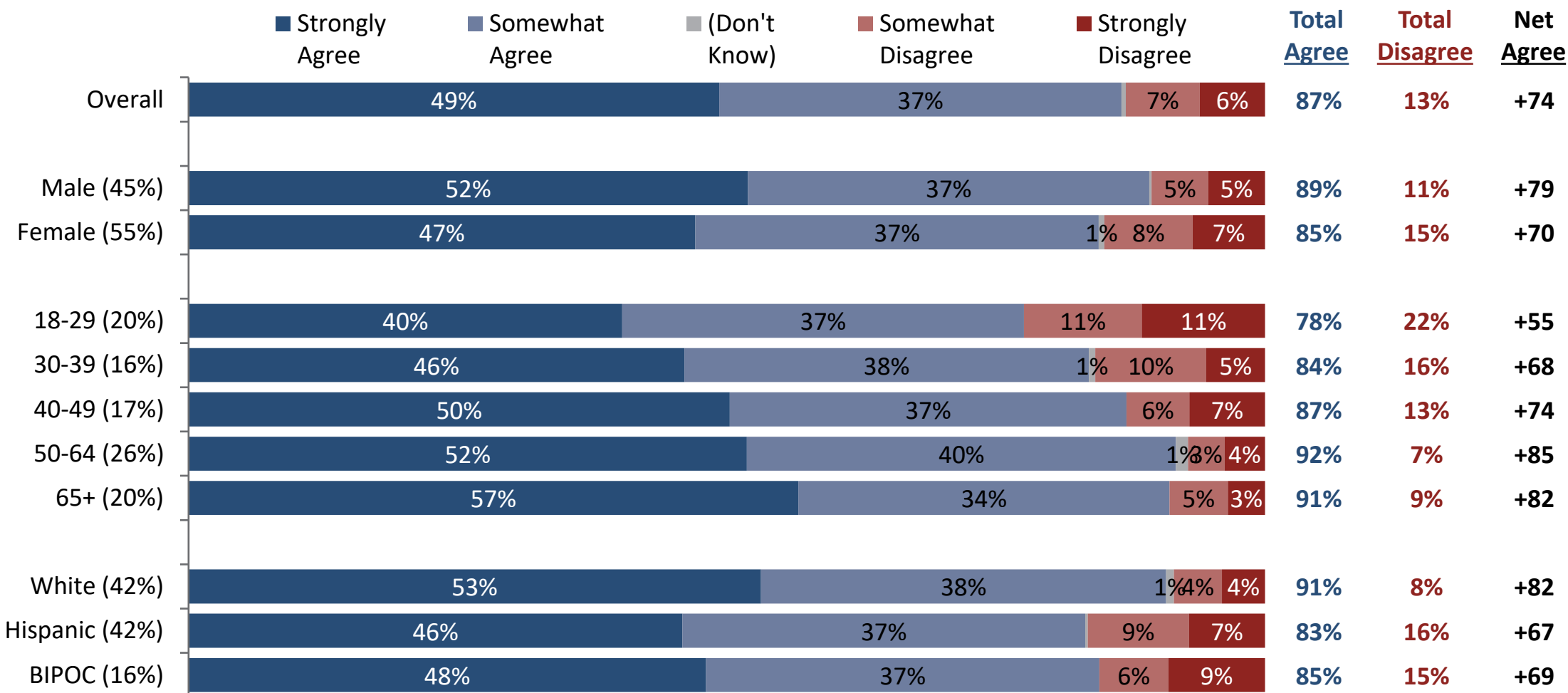


Q29/30/31/34. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement.



# Agree/Disagree: Feels Safe in Neighborhood

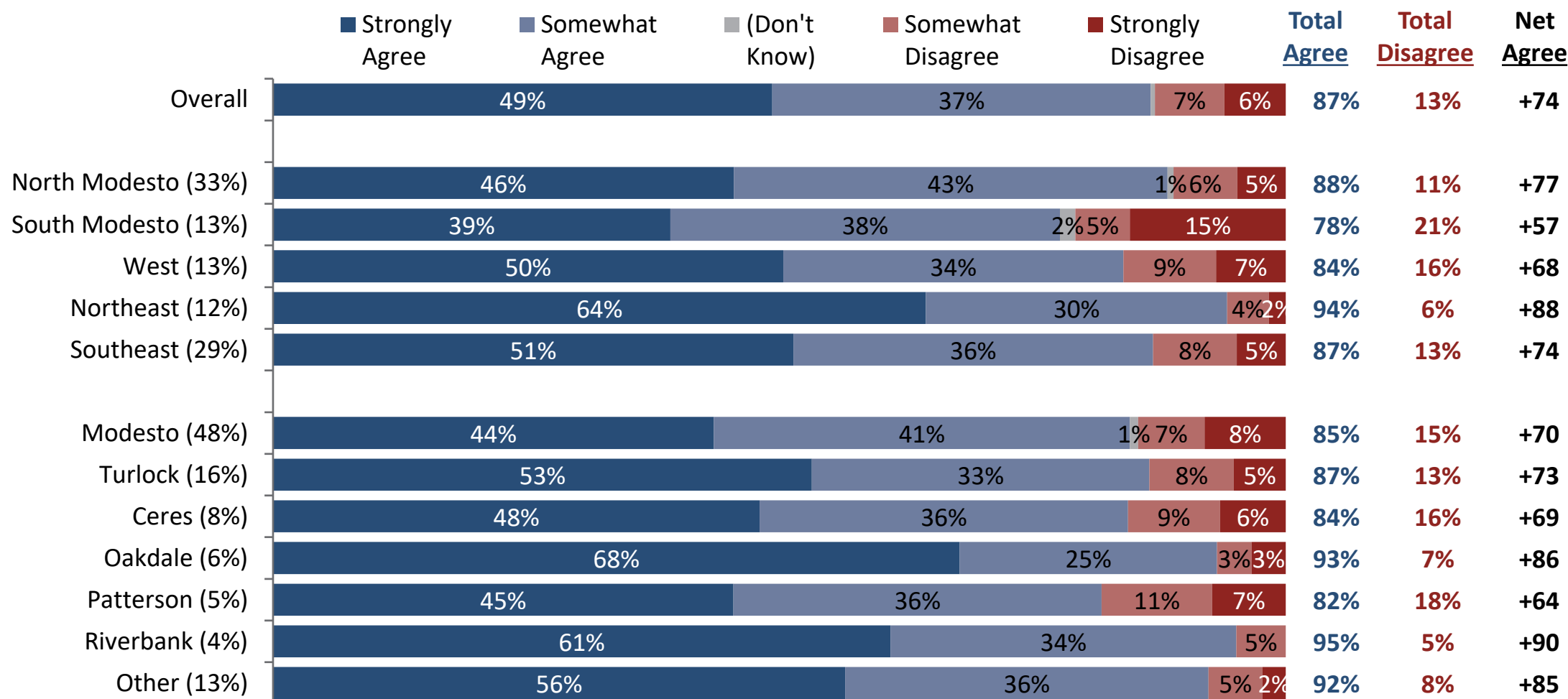
Residents across demographic groups generally feel safe in their neighborhood.





# Agree/Disagree: Feels Safe in Neighborhood

*Residents in the South Modesto region are more likely to indicate that they do not feel safe in their neighborhood, although the vast majority even in this region still indicate that they generally feel safe.*

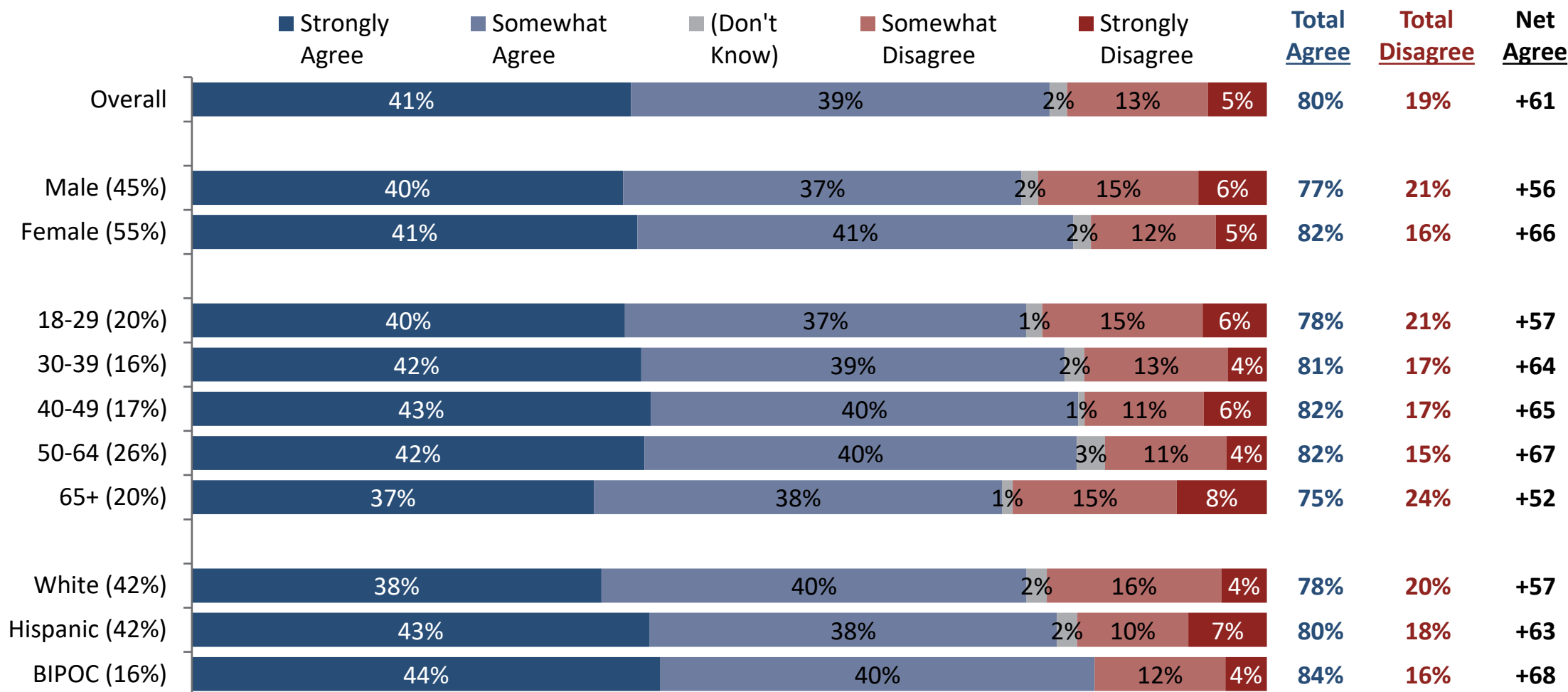


Q30. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*I generally feel safe in my neighborhood.*



# Agree/Disagree: Crime is a Major Problem

*There is agreement across subgroups that crime is a major problem in the County.*

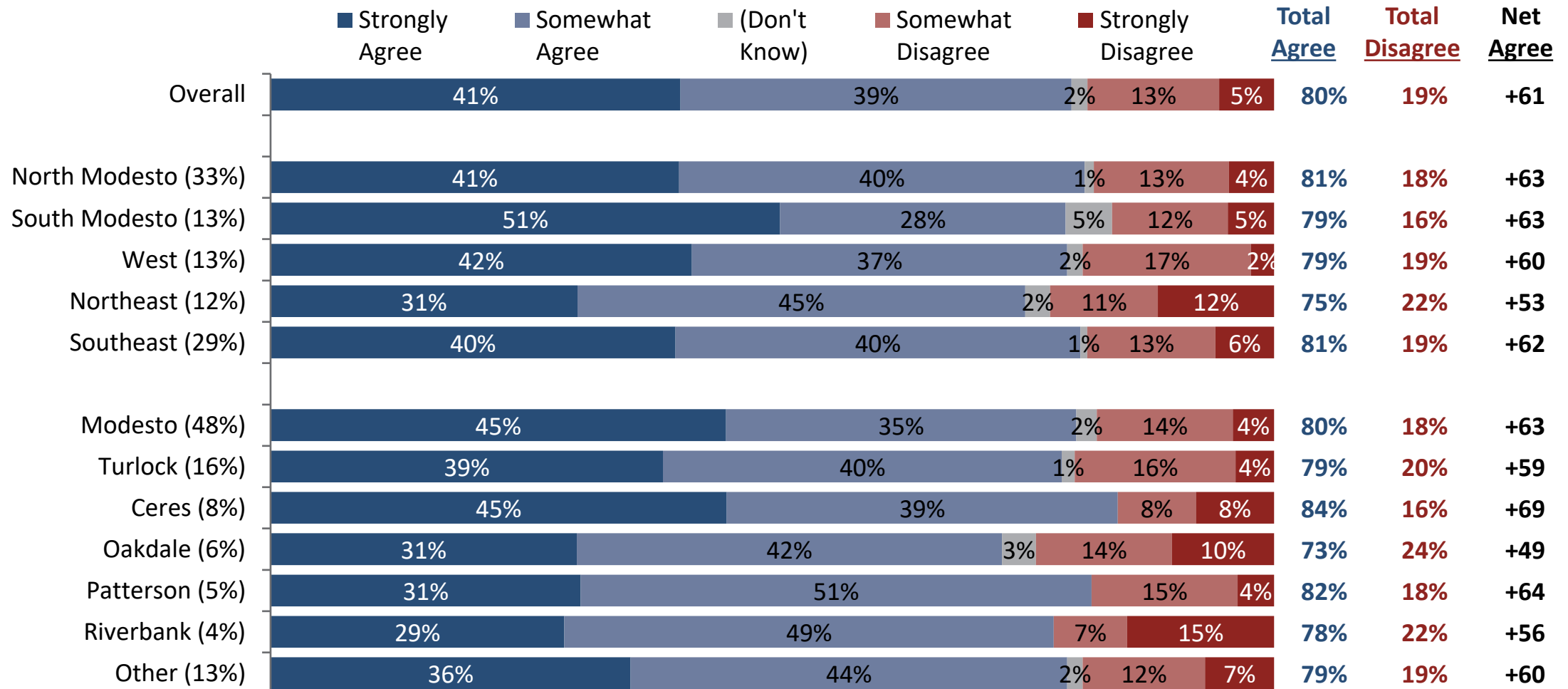


Q31. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*Crime is a major problem in Stanislaus County.*



# Agree/Disagree: Crime is a Major Problem

*Residents in the South Modesto region are more likely to agree that crime is a major problem.*

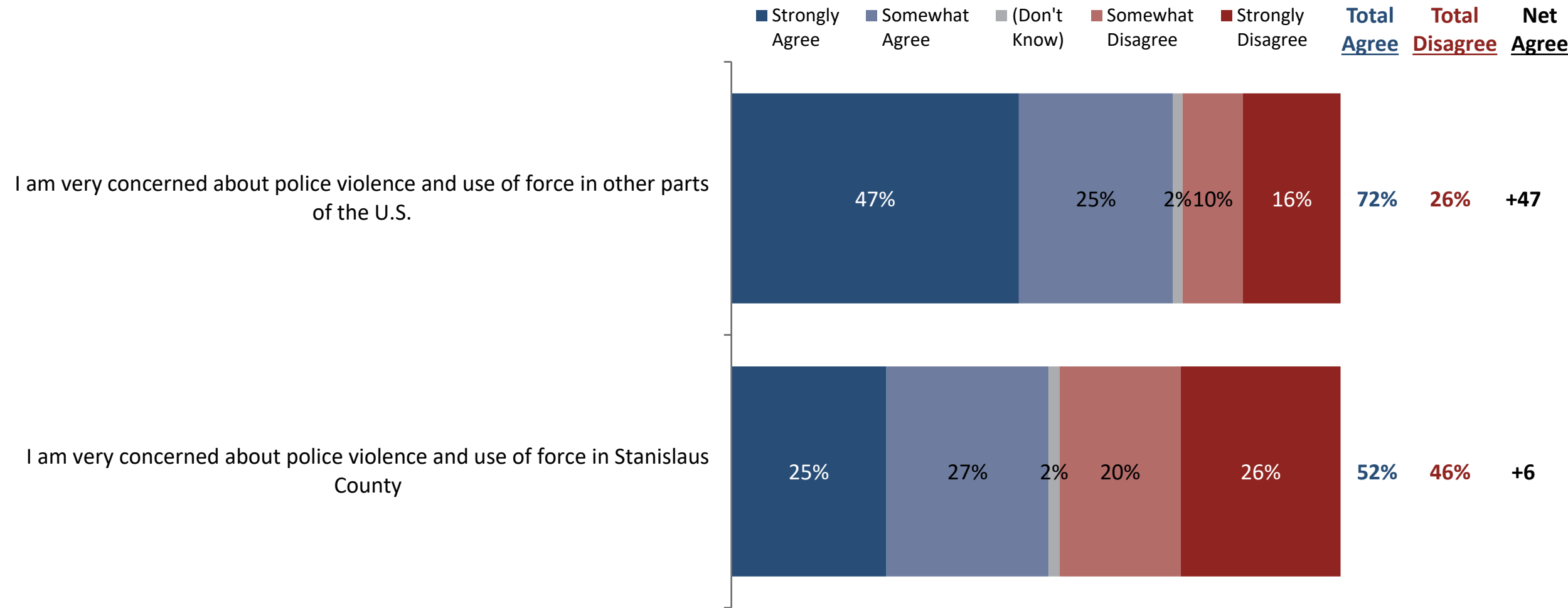


Q31. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*Crime is a major problem in Stanislaus County.*



# Agree/Disagree: Concern About Police Violence

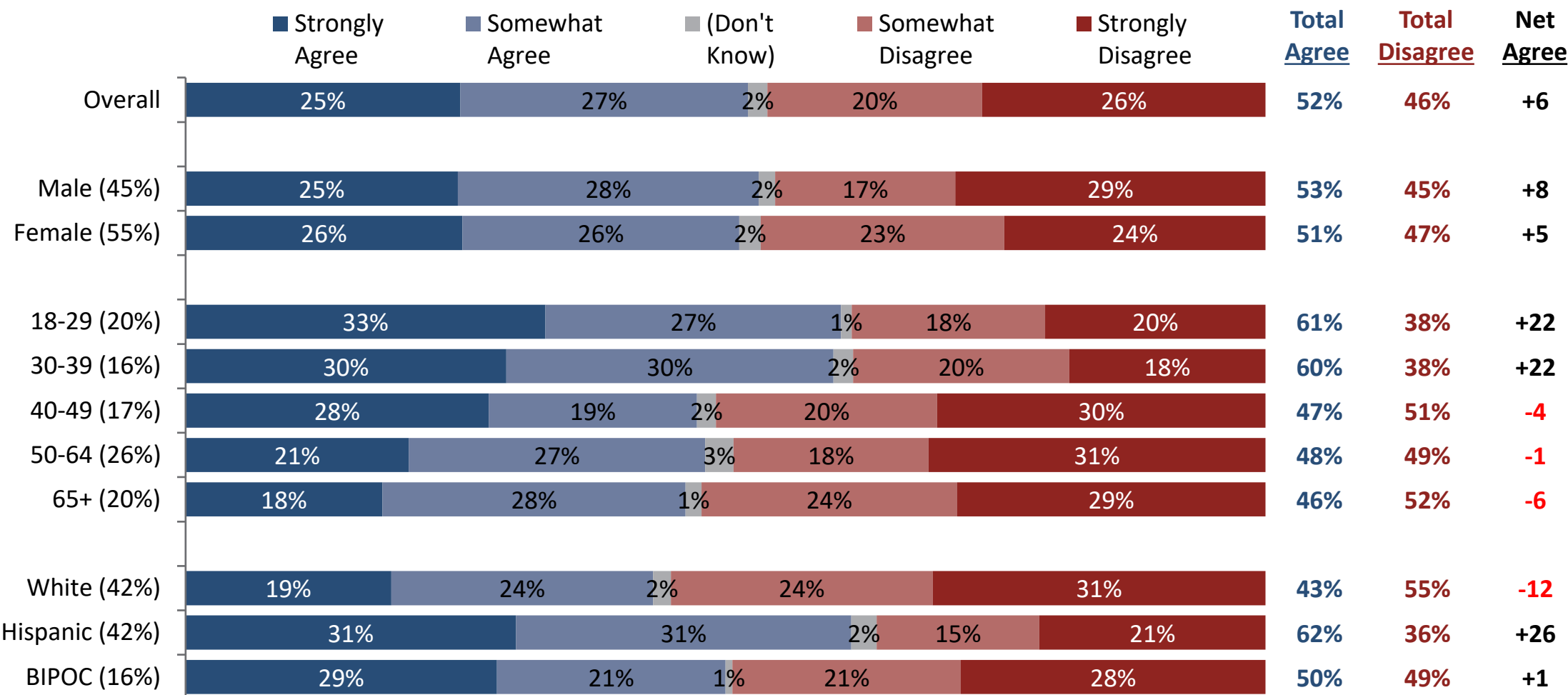
*A majority residents are concerned about police violence in Stanislaus County.*





# Agree/Disagree: Police Violence in Stanislaus County

Hispanic and younger residents are more likely to express concern about police violence in the county.

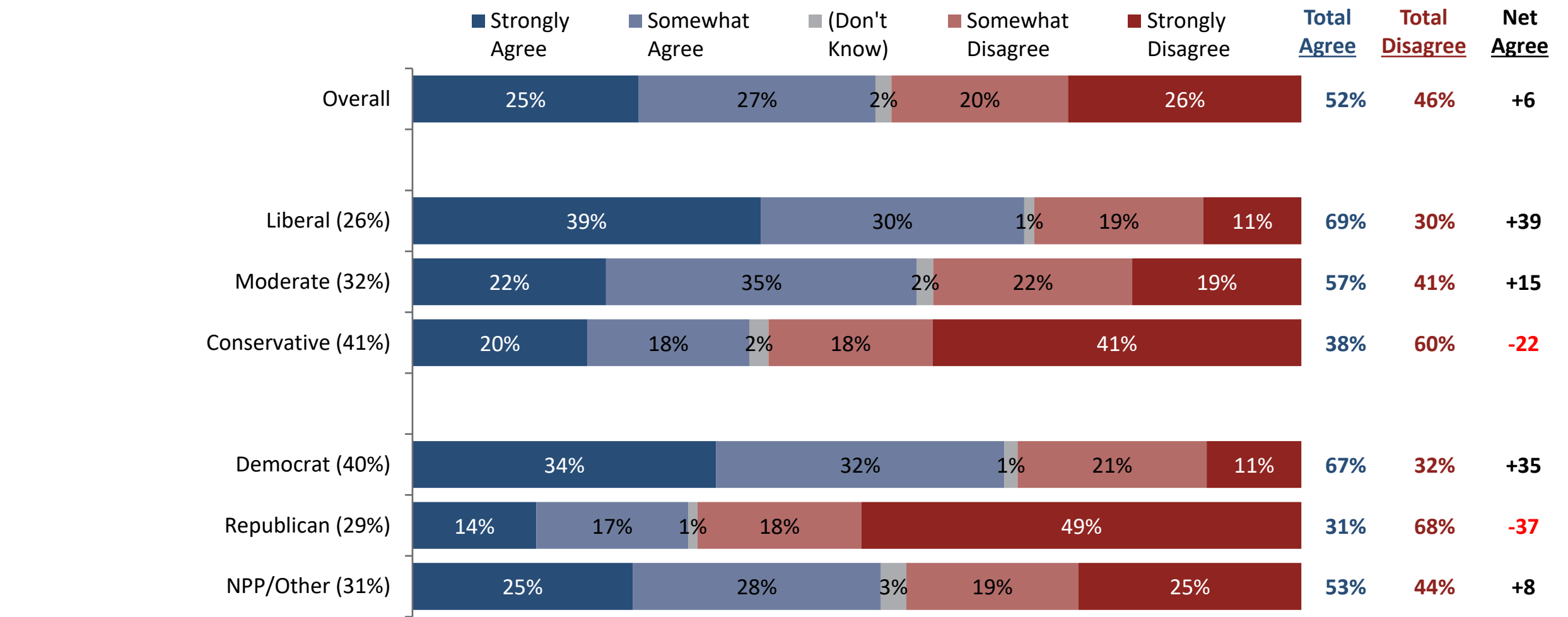


Q26. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*I am very concerned about police violence and use of force in Stanislaus County.*



# Agree/Disagree: Police Violence in Stanislaus County

*The topic of police violence has become a partisan issue, with Democrats more likely to be concerned and Republicans more likely to indicate that they are not concerned about it.*

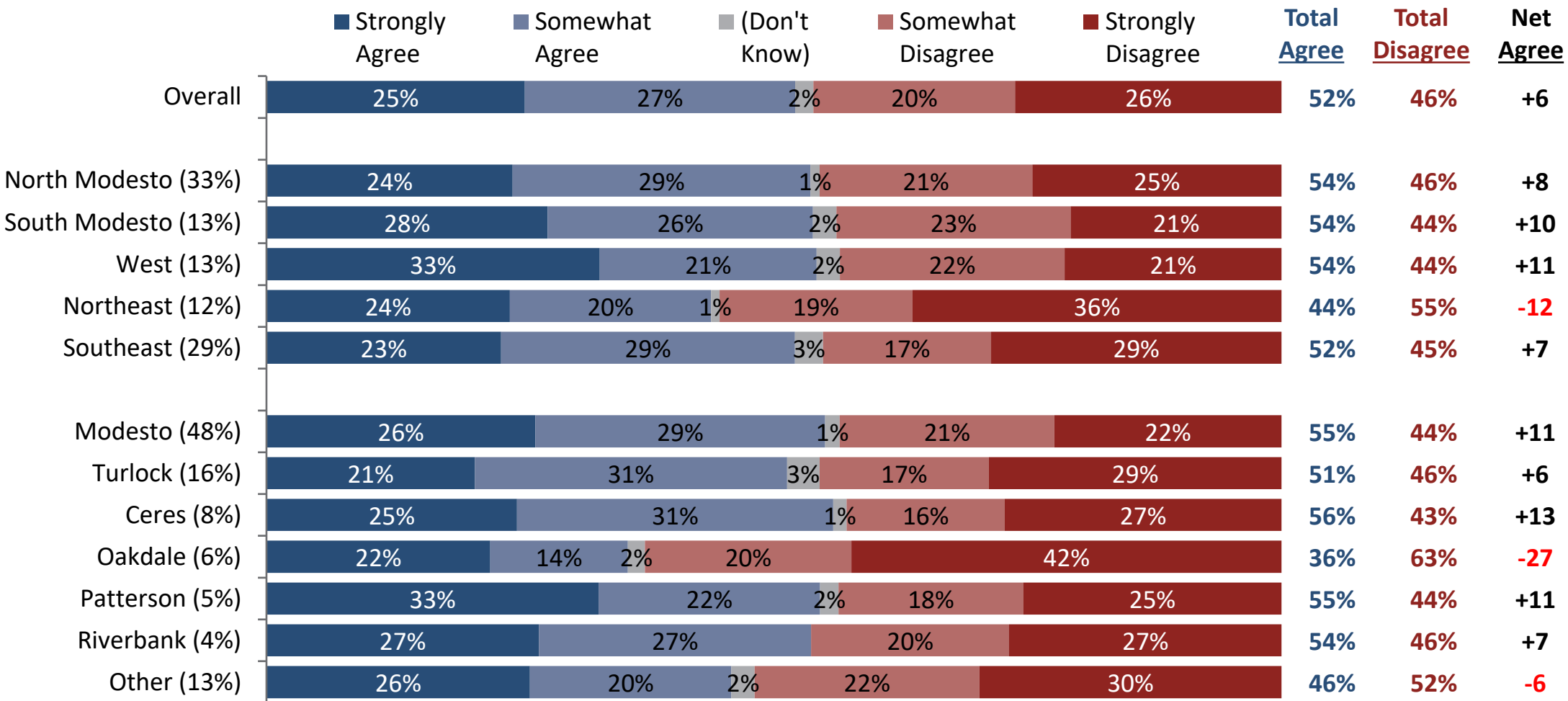


Q26. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*I am very concerned about police violence and use of force in Stanislaus County.*



# Agree/Disagree: Police Violence in Stanislaus County

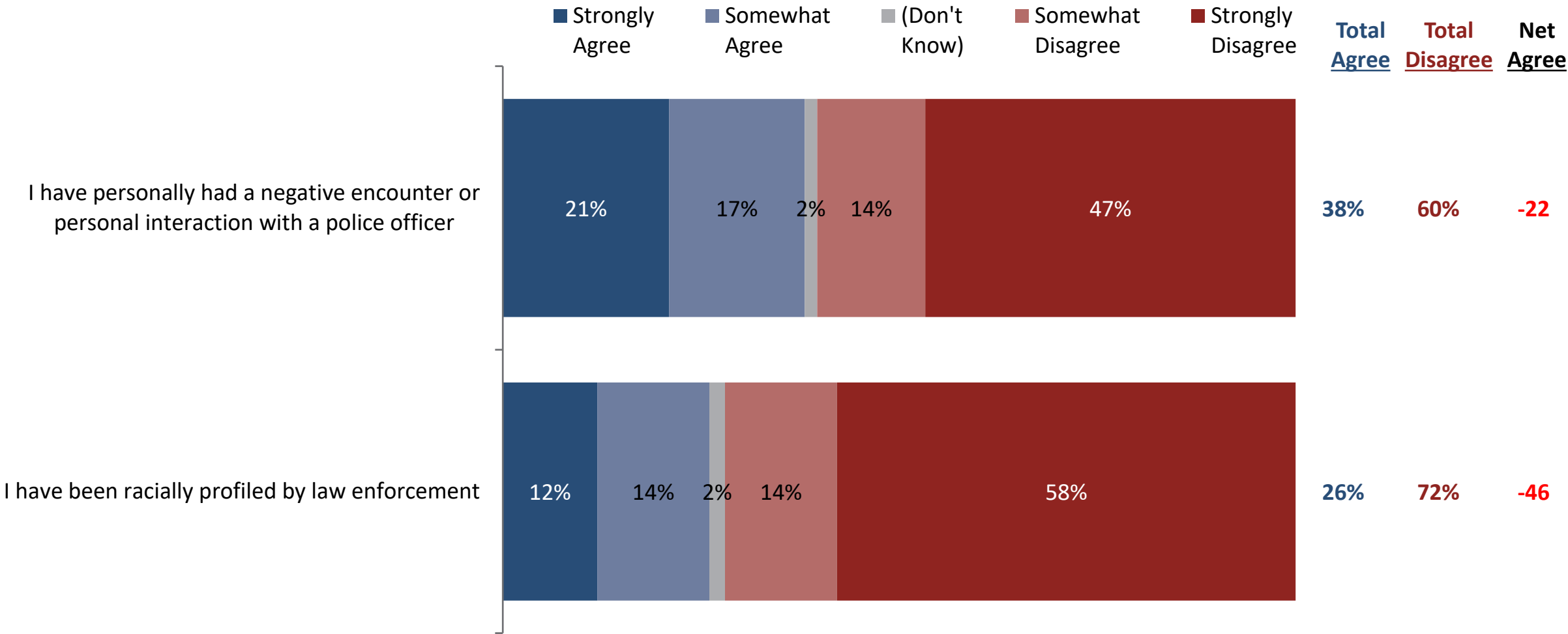
Residents in Oakdale and the Northeast region are less likely to express concern about police violence in the county.





# Agree/Disagree: Negative Experiences

*More than one-in-four residents feel they have been racially profiled by law enforcement, and more than one-third have personally had a negative interaction with a police officer.*



Q32/33. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement.

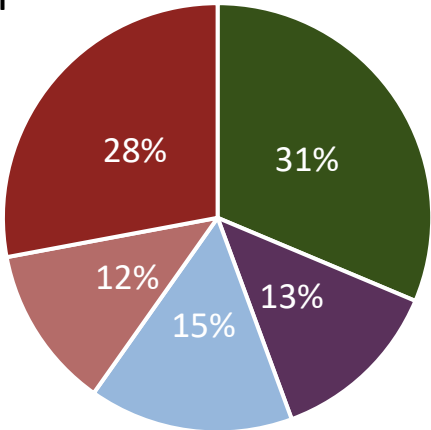


# Agree: Negative Encounter (38%)

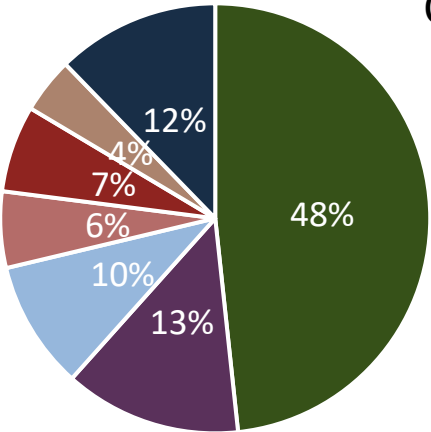
*Respondents who have had a negative encounter with a police officer are more likely to be under the age of 65, Hispanic, and are more likely to live in Modesto, particularly in the North Modesto region.*

Region

- North Modesto
- South Modesto
- West
- Northeast
- Southeast

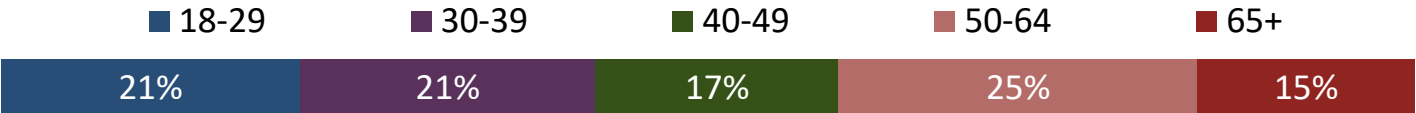


City



- Modesto
- Turlock
- Ceres
- Oakdale
- Patterson
- Riverbank
- Other

Age



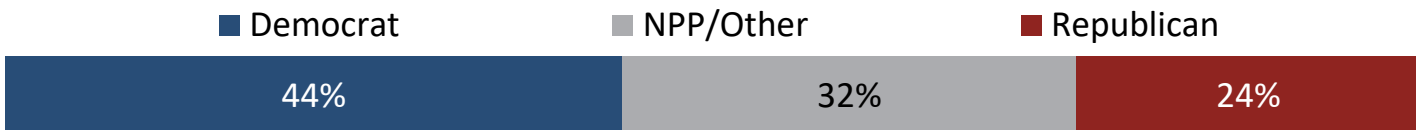
Gender



Ethnicity



Party Registration

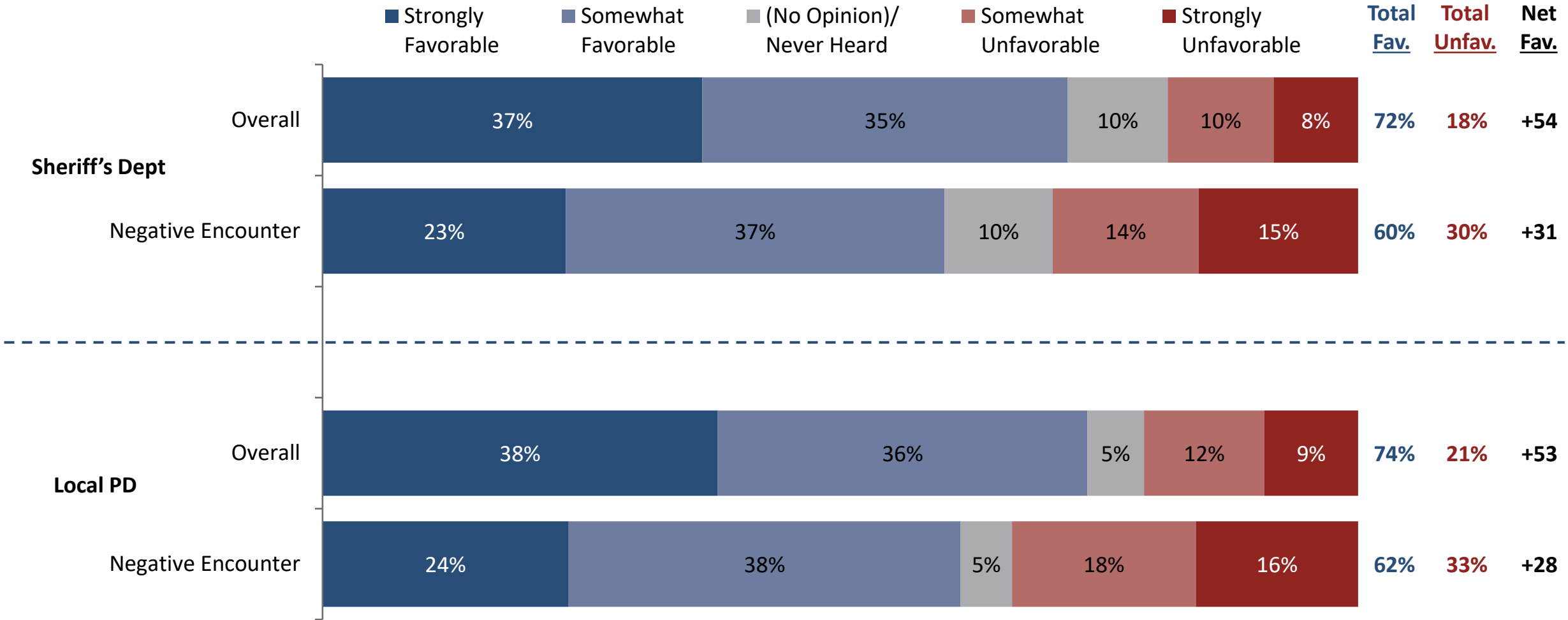


Q32. Next I will read you a series of statements. Again, please tell me whether you strongly agree, somewhat agree, somewhat disagree, or strongly disagree with each statement...*I have personally had a negative encounter or personal interaction with a police officer.*



# Law Enforcement Favorable Ratings by Negative Encounter

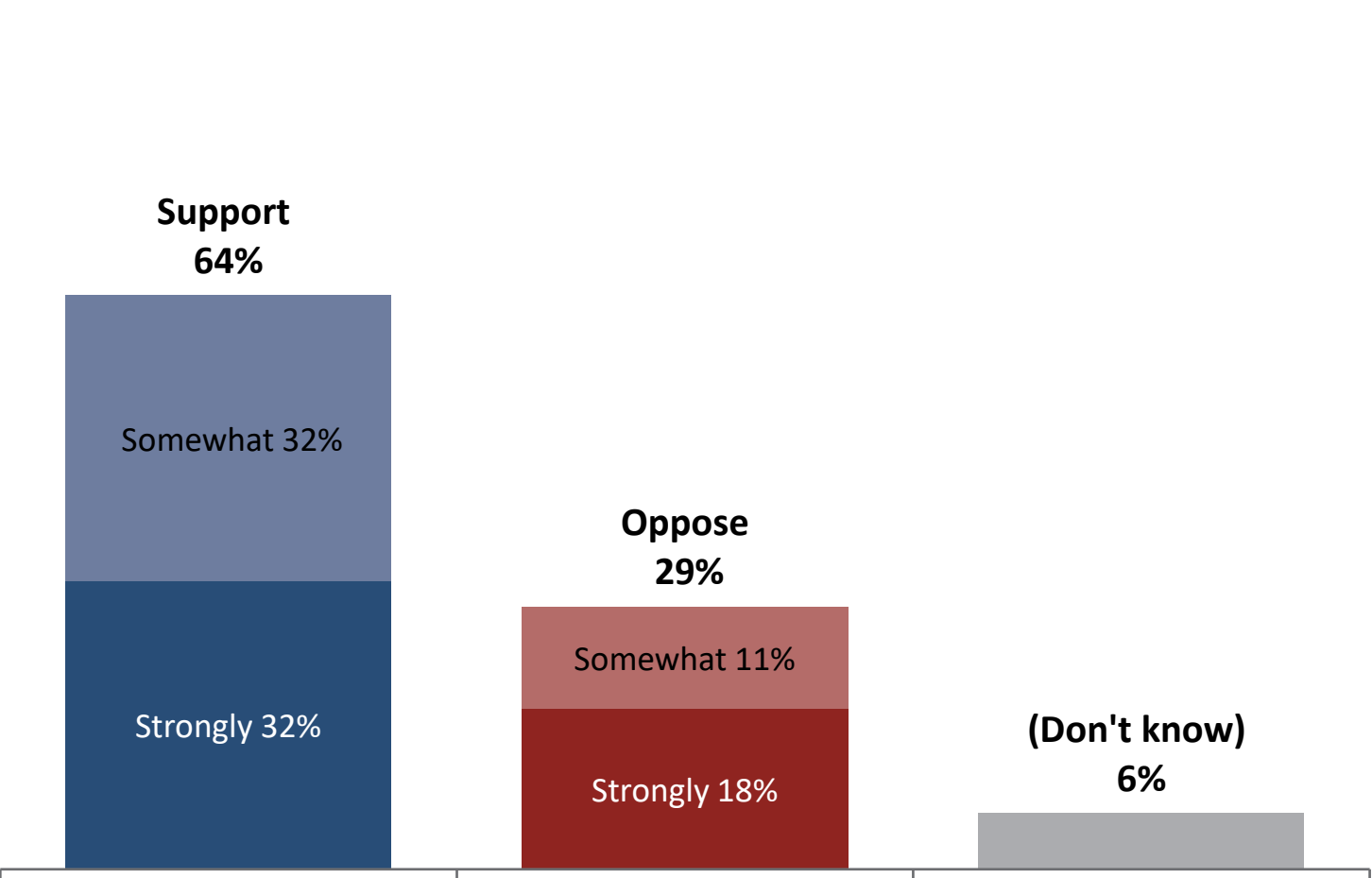
Respondents who have had a negative encounter with a police officer gave higher unfavorability ratings to both the Sheriff's Department and their local police department.





# Police Oversight Board

A majority of residents support a police oversight board, although the support is not currently very “strong.” There is a significant partisan difference with Republicans far less supportive than Democrats and NPP/Other residents.



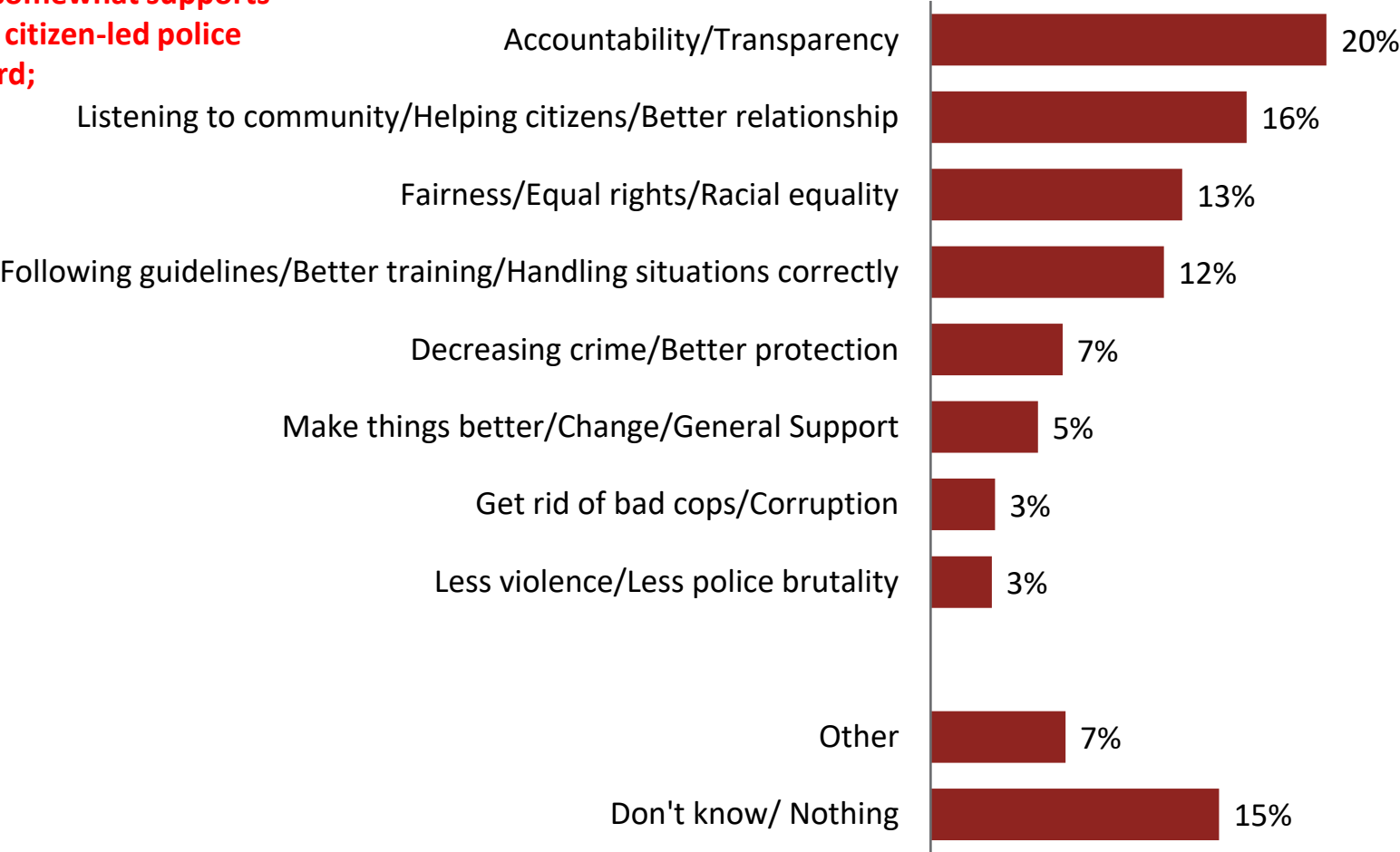
	Support	Oppose	Net Support
Overall	64%	29%	+35
Male (45%)	62%	32%	+30
Female (55%)	66%	27%	+39
18-29 (20%)	71%	25%	+46
30-39 (16%)	72%	20%	+52
40-49 (17%)	61%	34%	+27
50-64 (26%)	61%	31%	+30
65+ (20%)	59%	36%	+23
White (42%)	58%	35%	+24
Hispanic (42%)	72%	22%	+50
BIPOC (16%)	60%	35%	+25
North Modesto (33%)	63%	30%	+33
South Modesto (13%)	72%	22%	+50
West (13%)	64%	31%	+33
Northeast (12%)	59%	34%	+25
Southeast (29%)	64%	29%	+35
Democrat (40%)	80%	16%	+65
Republican (29%)	44%	52%	-8
NPP/Other (31%)	62%	27%	+35



# Police Oversight Board

*Of those who support a police oversight board, a plurality would like it to accomplish accountability/transparency.*

If strongly or somewhat supports  
establishing a citizen-led police  
oversight board;  
n=647





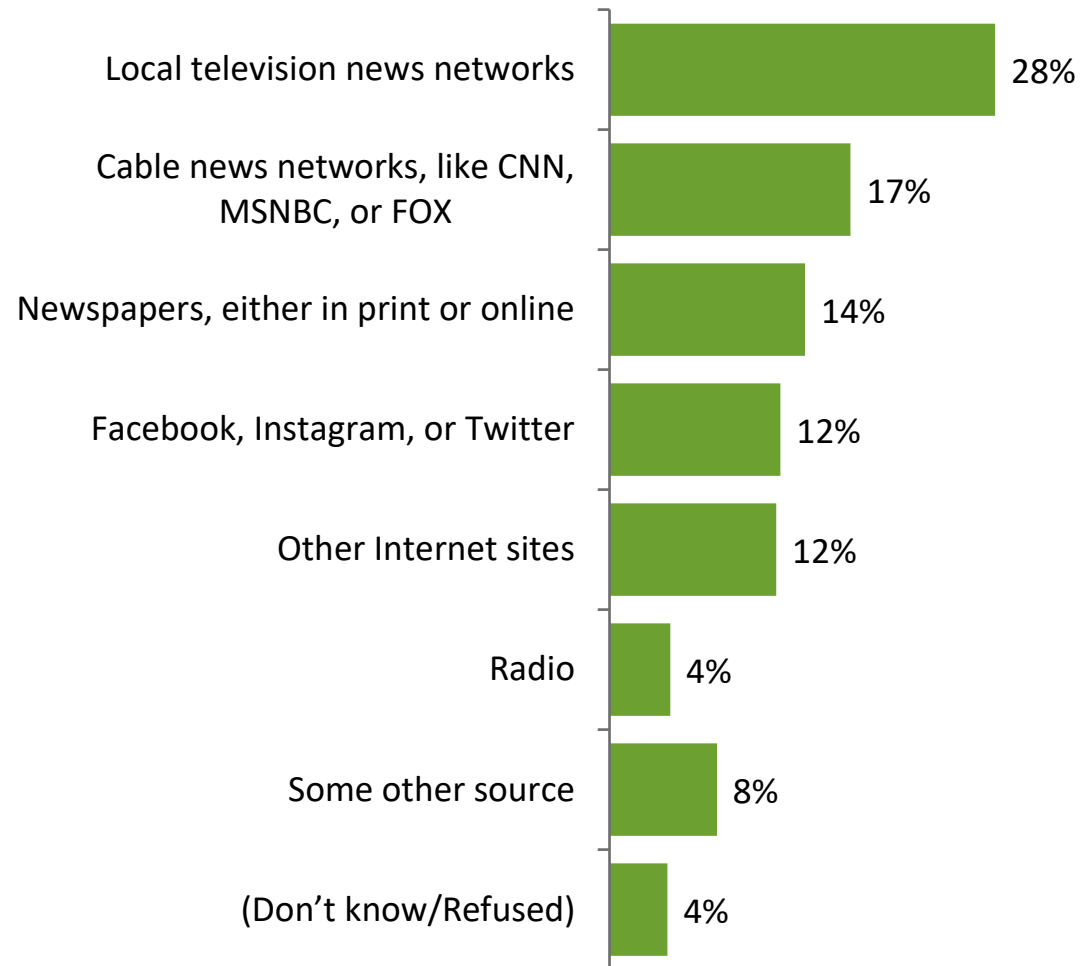


**News Sources**



# News Sources

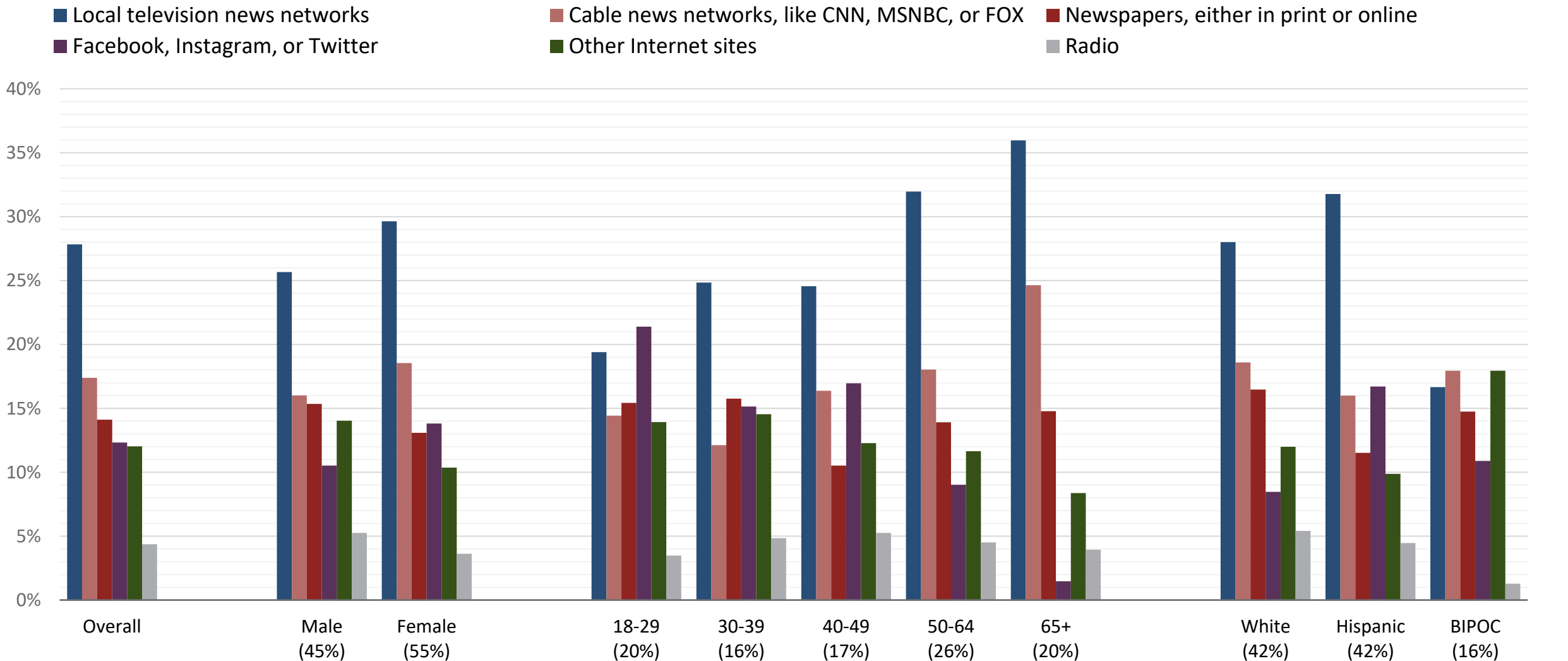
*A plurality of respondents turn to local TV for information about local news and events.*





# News Sources by Subgroups

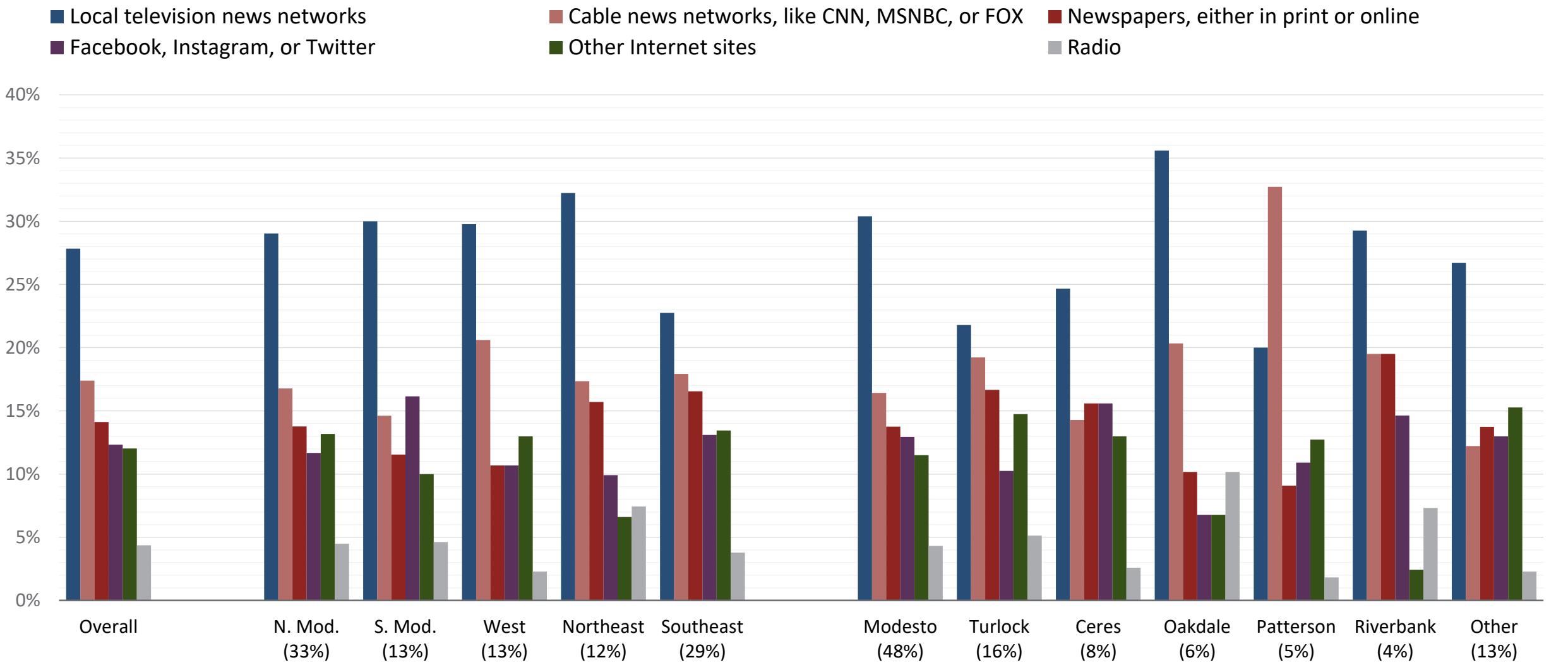
*Respondents over the age of 50 are more likely to turn to local tv for news, while those under 30 turn to social media.*





# News Sources by Subgroups

*Respondents in Oakdale are more likely to turn to local news, while those in Patterson turn to cable news.*





# Key Data Findings

- ▶ The vast majority of Stanislaus County residents have positive opinions of law enforcement. Both the Sheriff's Department and local police departments receive largely positive ratings.
  - Note that most residents do not distinguish between the County Sheriff's Department and their local police department.
- ▶ However, a majority of residents say they are concerned about police violence and use of force in Stanislaus County, indicating this concern is at the very least in the back of the minds of many residents, despite their generally positive views of local law enforcement.
- ▶ The largest share of negative opinions are in younger residents (age 18-39) and residents of color. Yet even within these communities and demographic groups, the majority have positive opinions of law enforcement.





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**Alexa DeJesus**

**alexa@emcresearch.com**

**202.849.6533**





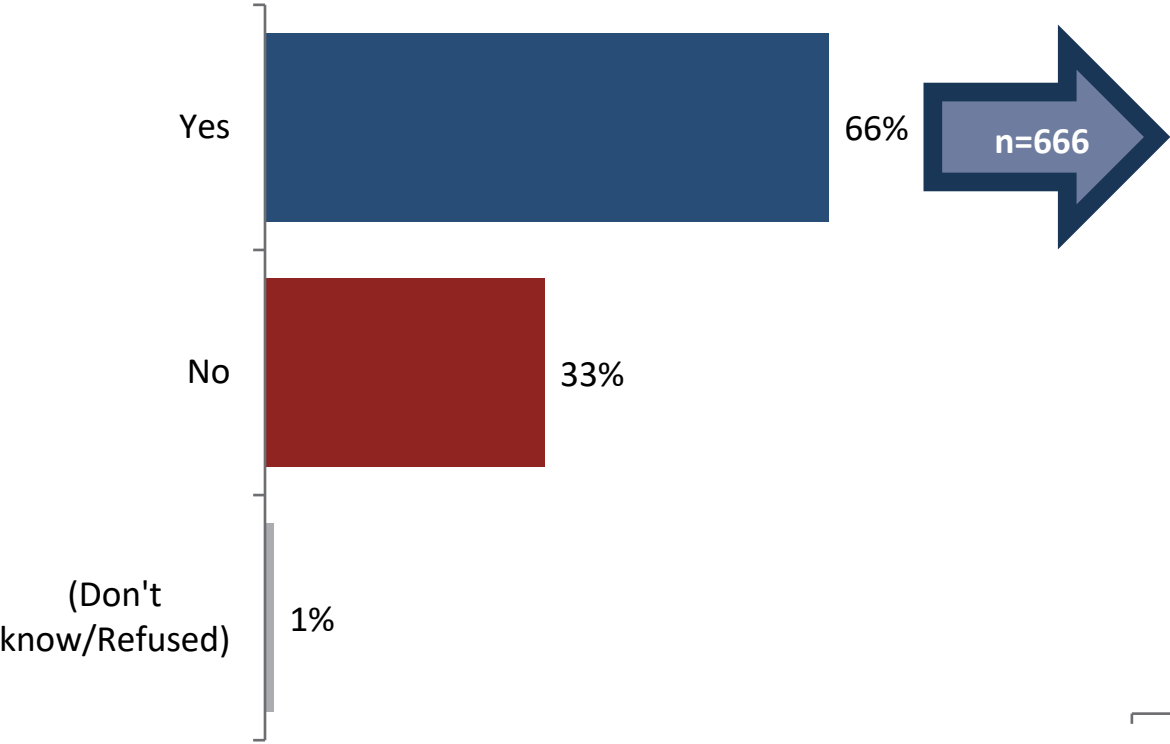
## APPENDIX



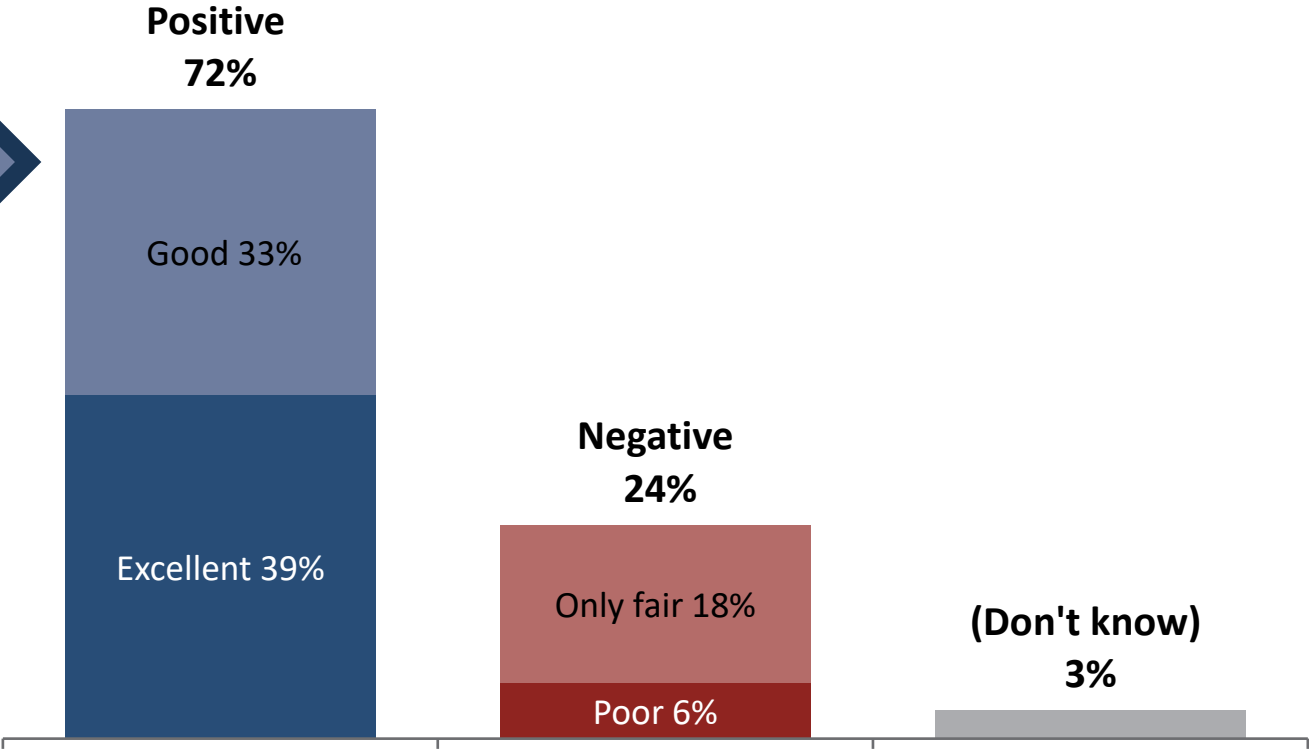
# Law Enforcement Response

*Two-thirds of residents have had law enforcement respond to an emergency situation. Of those, nearly three-fourths had a positive experience.*

Have you or someone close to you ever had law enforcement respond to an emergency situation?



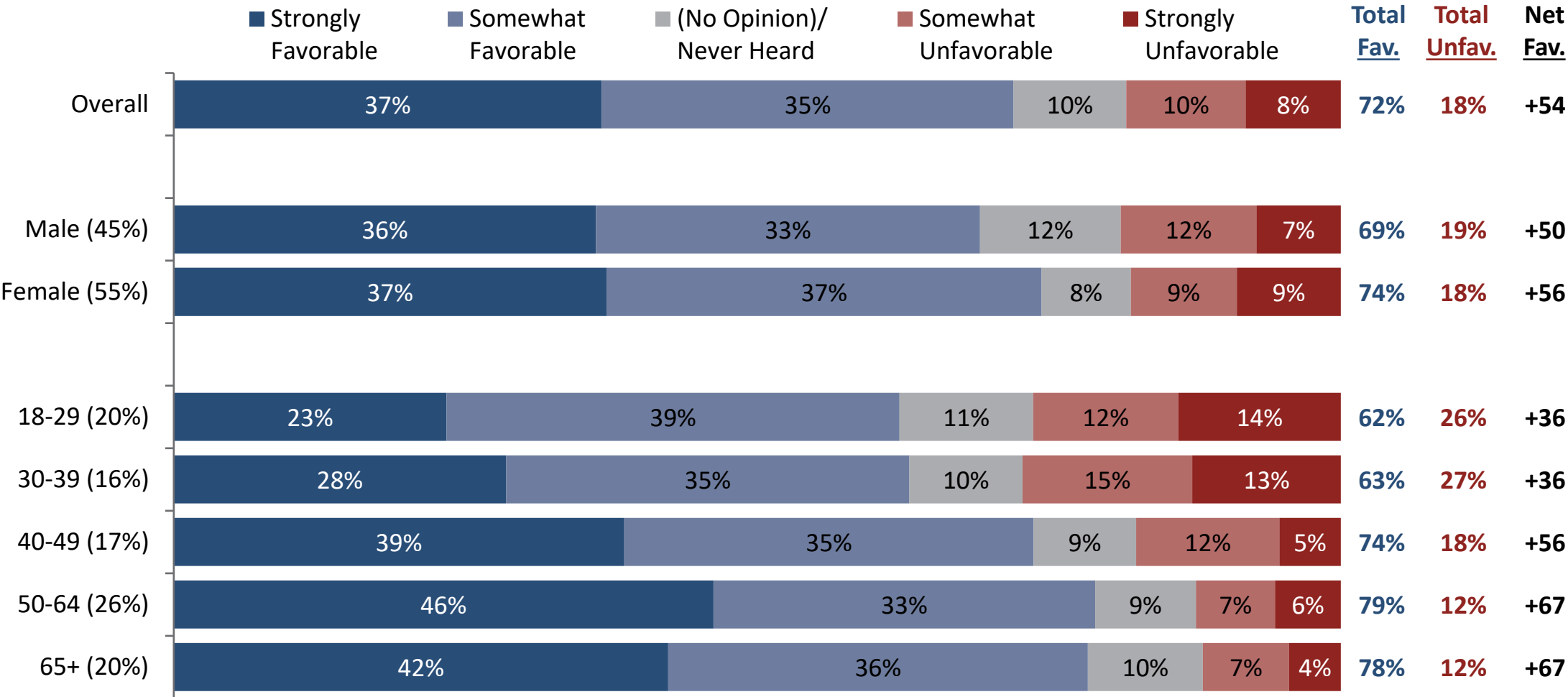
How would you rate the performance of law enforcement during that event?





# Stanislaus County Sheriff's Department Rating by Subgroups

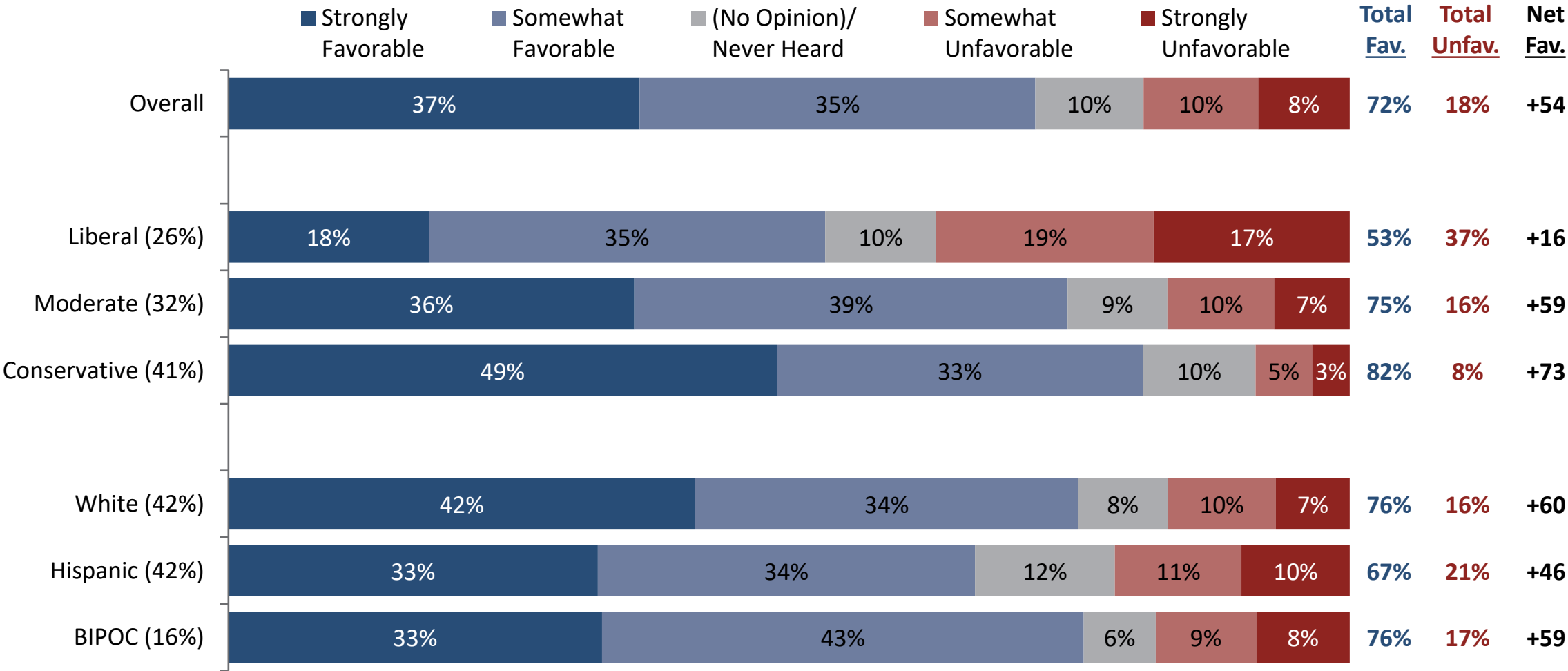
All subgroups gave the County Sheriff's Department a net favorable rating. Younger residents are more likely to hold unfavorable views toward the Department.





# Stanislaus County Sheriff's Department Rating by Subgroups

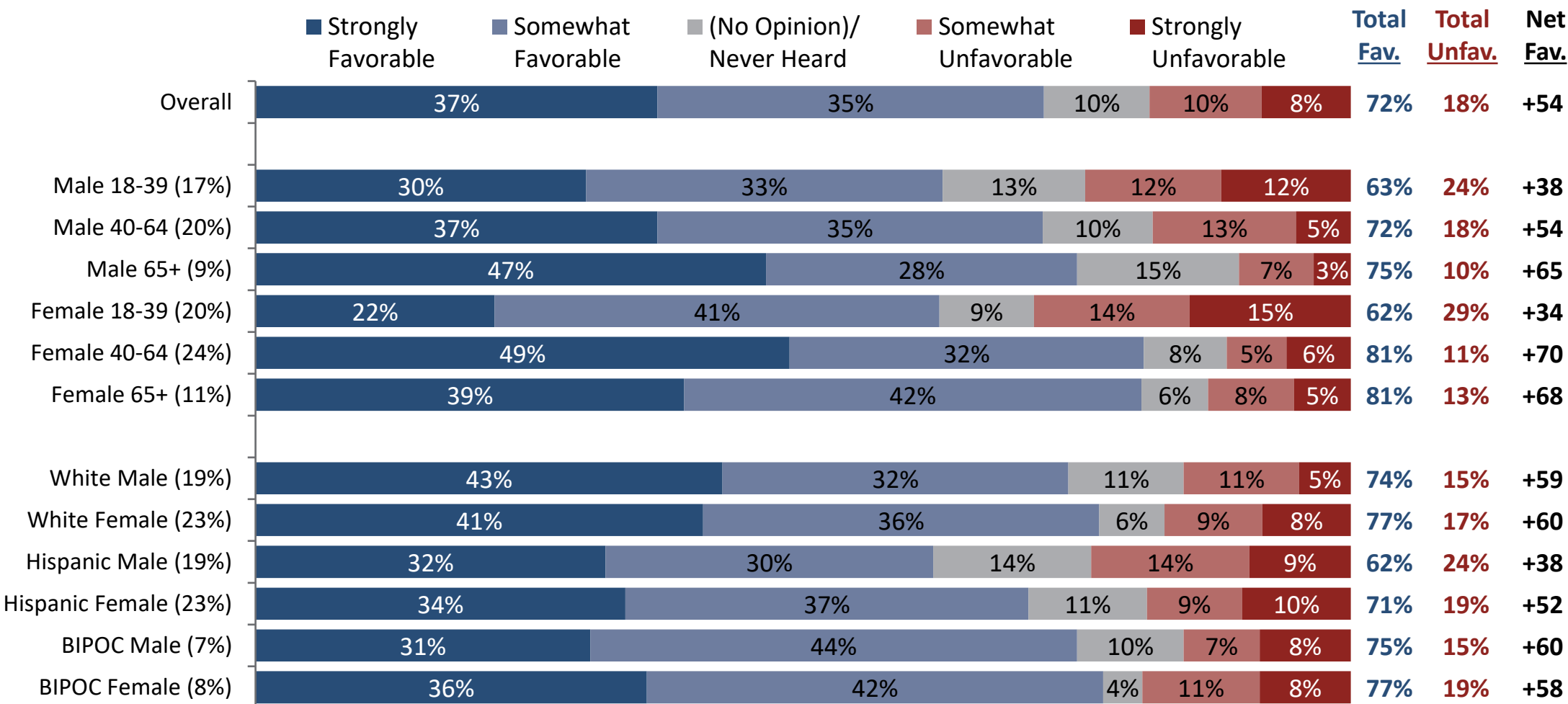
*Self-identified liberal residents are much more likely to have negative opinions of the Sheriff's Department.*





# Stanislaus County Sheriff's Department Rating by Subgroups

*Older residents have more favorable opinions of the Sheriff's Department.*

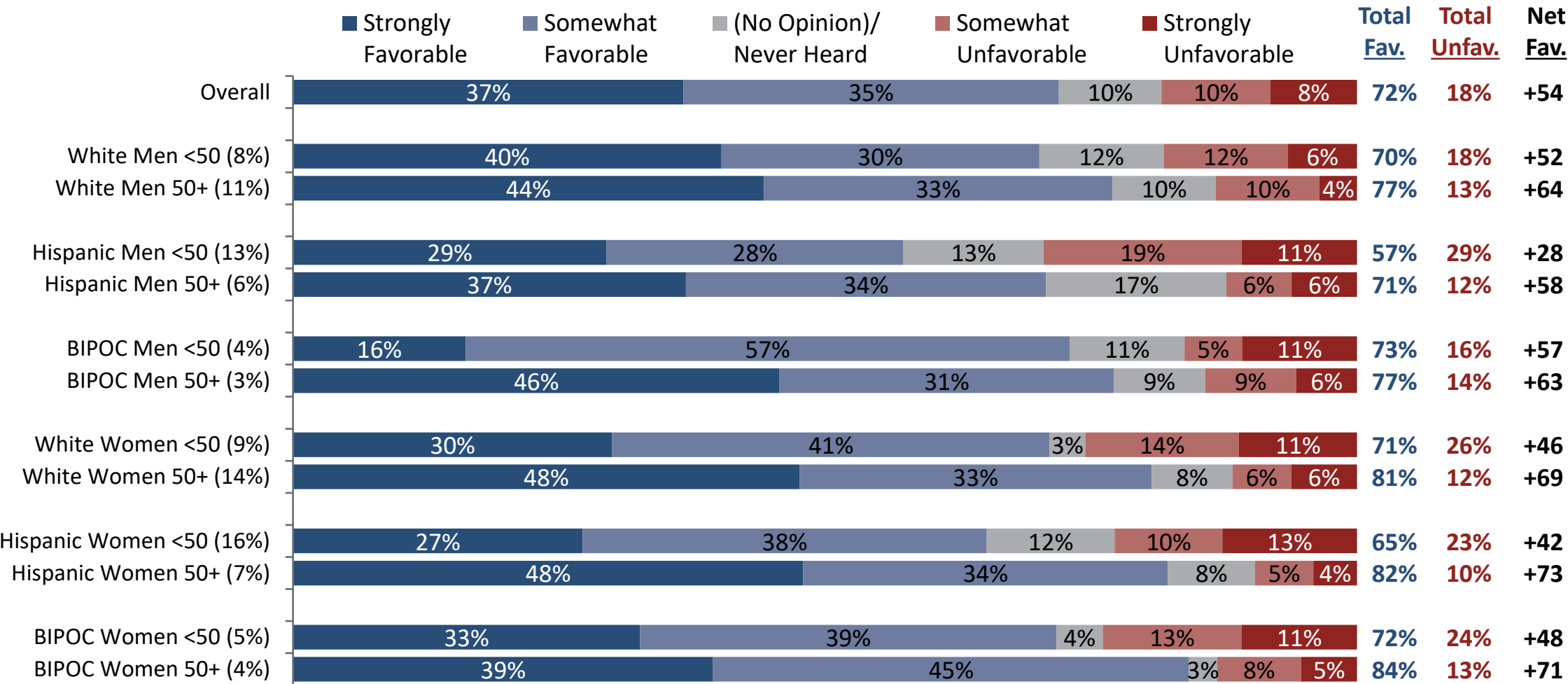


Q5. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...the Stanislaus County Sheriff's Department



# Stanislaus County Sheriff's Department Rating by Subgroups

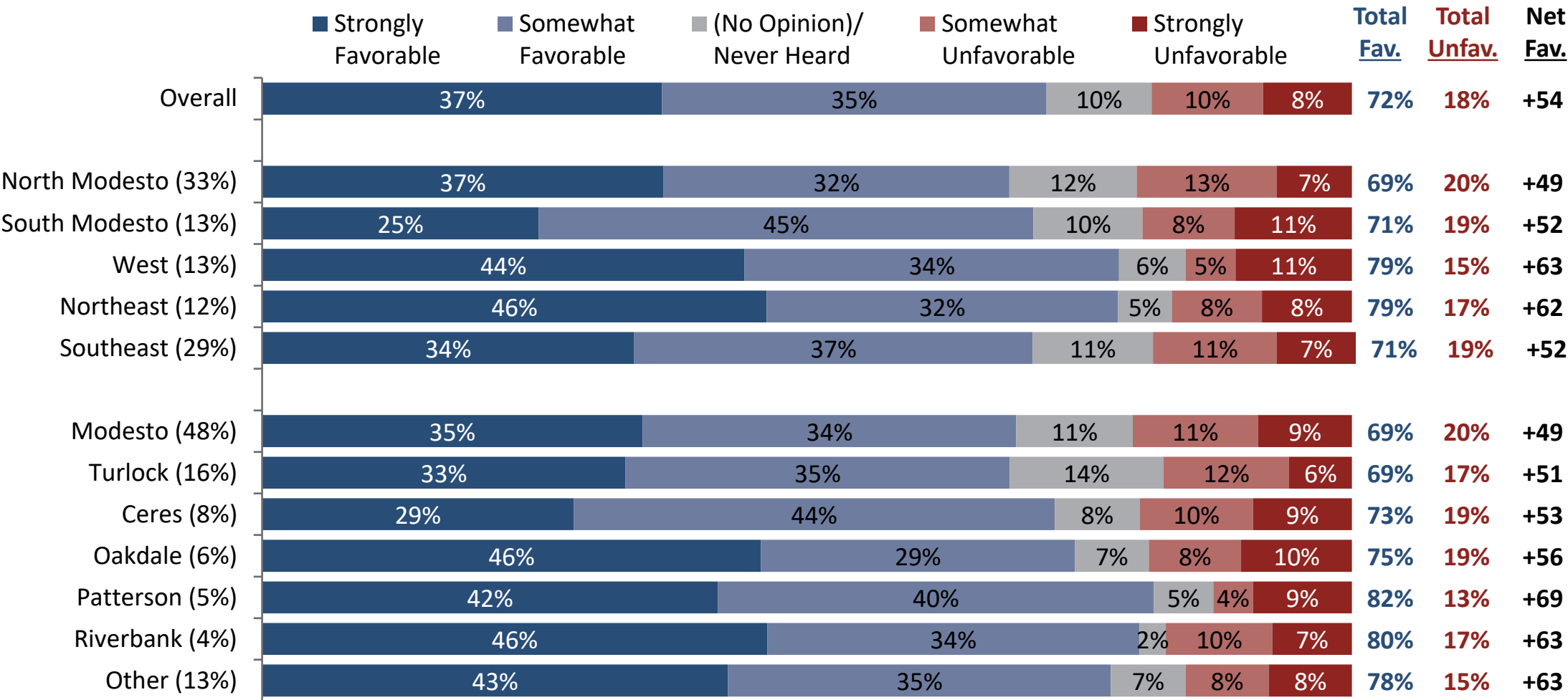
Hispanic men under age 50 have less favorable opinions of the Sheriff's Department than other groups.





# Stanislaus County Sheriff's Department Rating by Subgroups

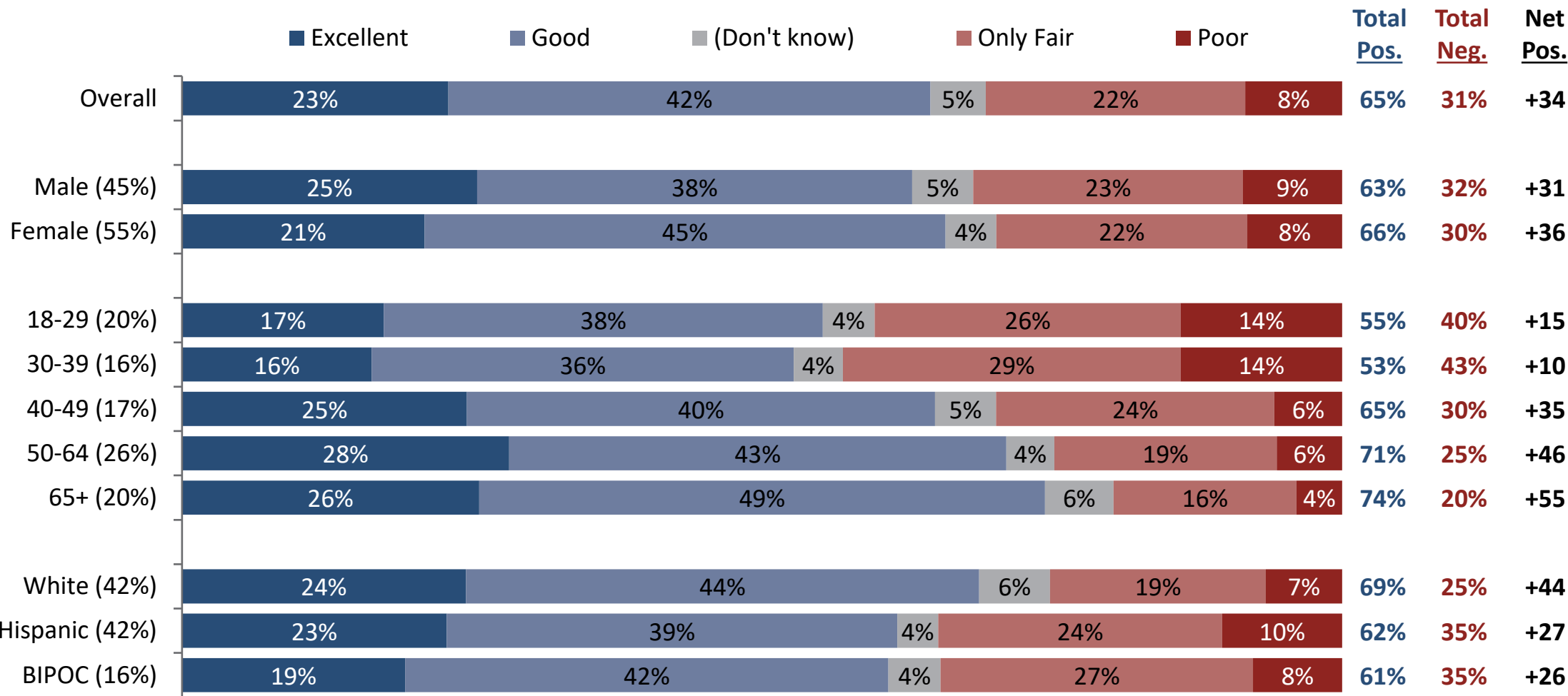
Residents in the West and Northeast regions have more strongly favorable opinions of the Department.





# Sheriff's Department Job Rating by Subgroups

Overall, the Sheriff's Department's job approval is positive, but lacks intensity, especially with younger residents.

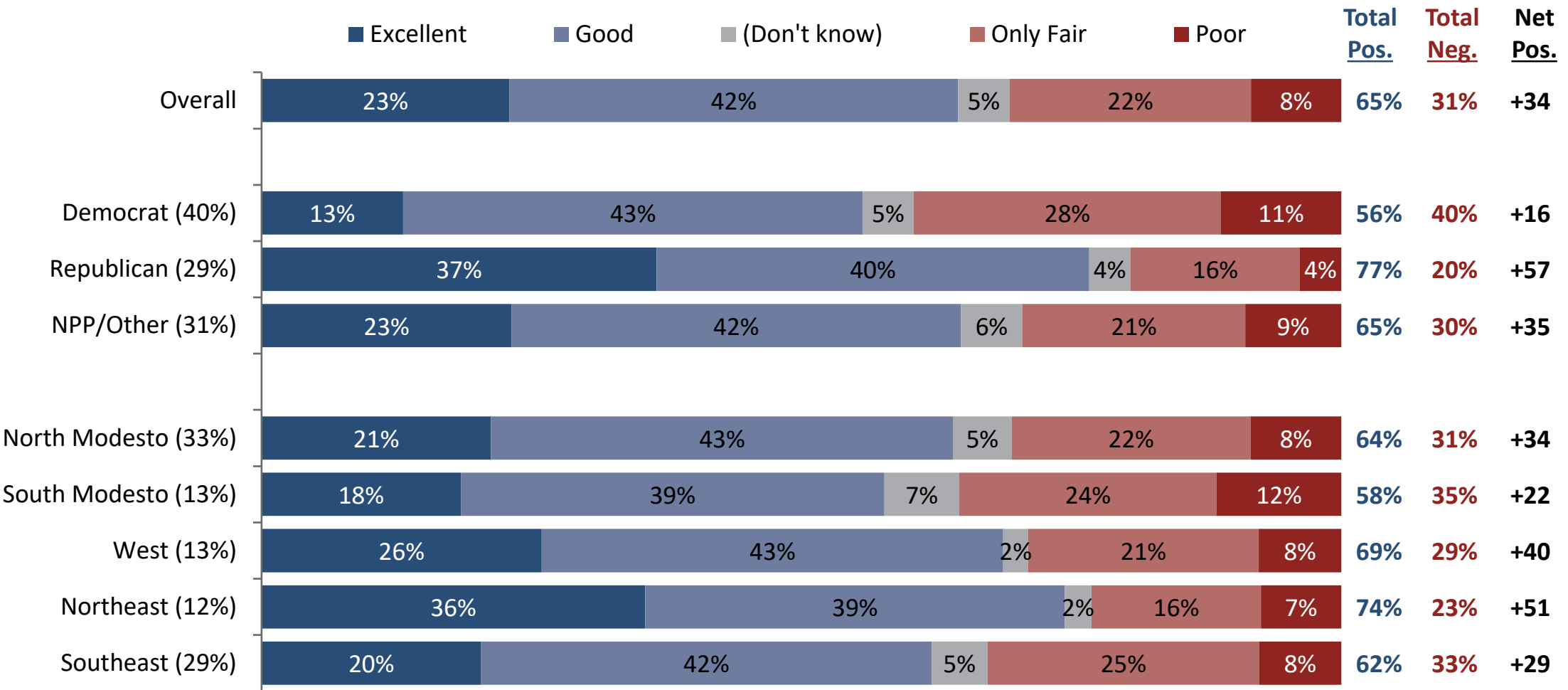


Q12. Using a scale of excellent, good, only fair, or poor, please rate each of the following...the job the Stanislaus County Sheriff's Department is doing



# Sheriff's Department Job Rating by Subgroups

Residents in the South Modesto region are more likely to give the Department a negative rating.

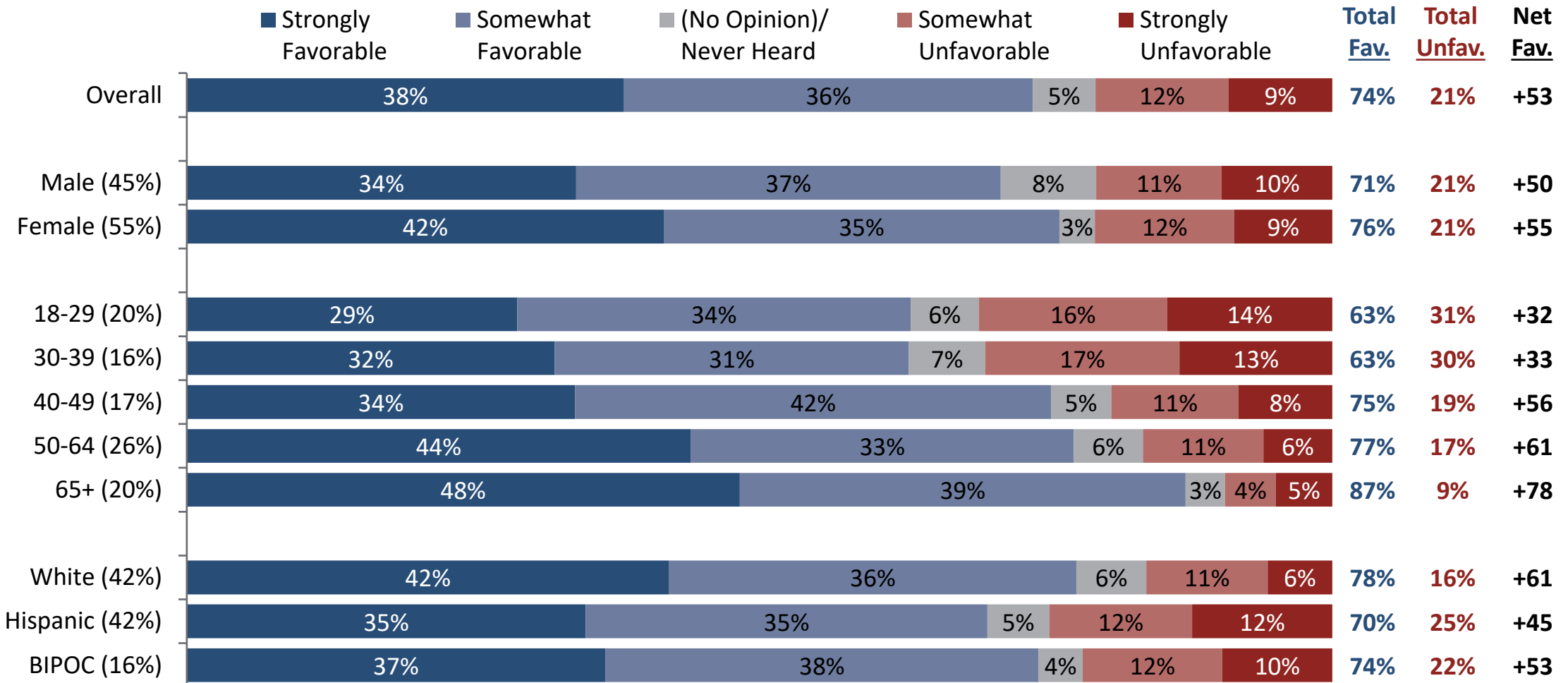


Q12. Using a scale of excellent, good, only fair, or poor, please rate each of the following...the job the Stanislaus County Sheriff's Department is doing



# Local Police Department Rating by Subgroups

*Similarly, opinions are split by age with residents over 50 having a more favorable view toward their local police department and residents under 40 being more likely to have an unfavorable view.*



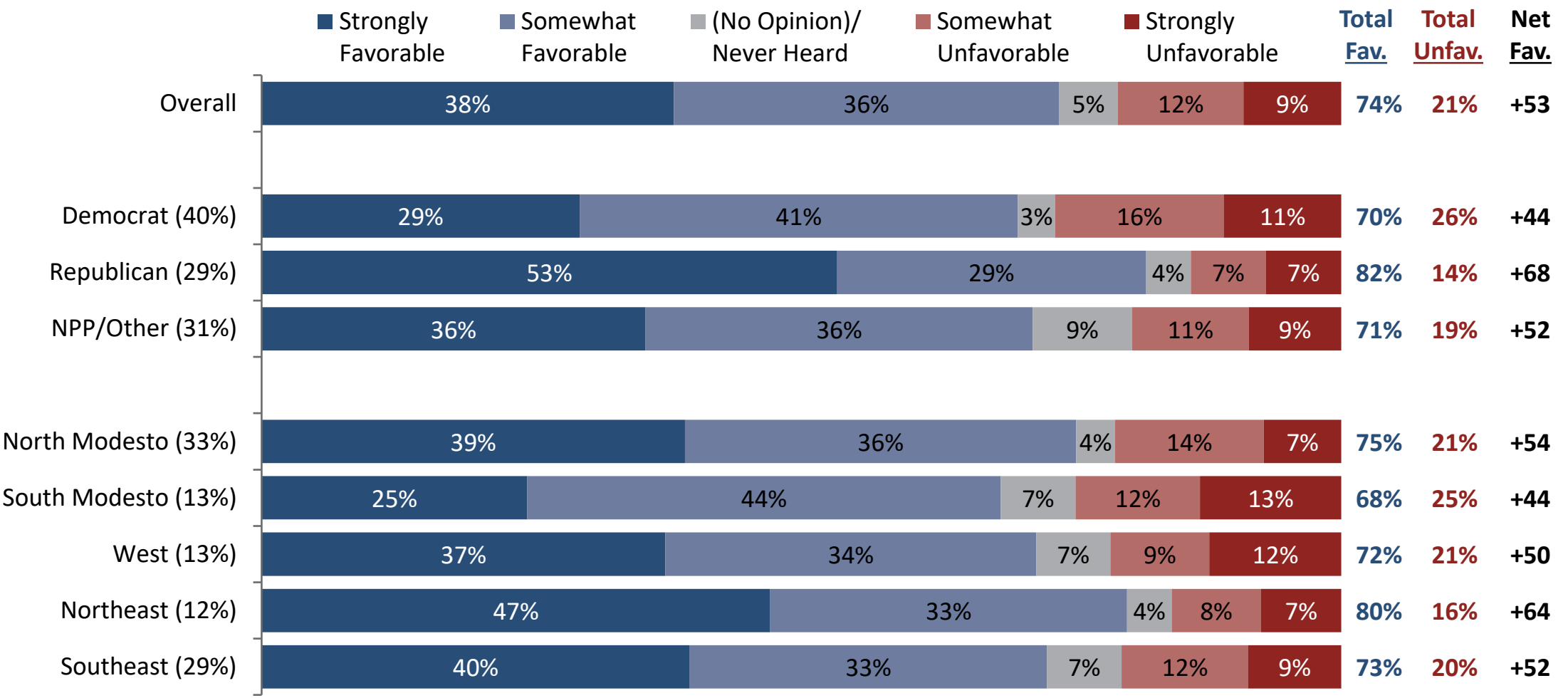
Q7. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...*your local police department*



# Local Police Department Rating by Subgroups



*Favorability is soft in the South Modesto region.*



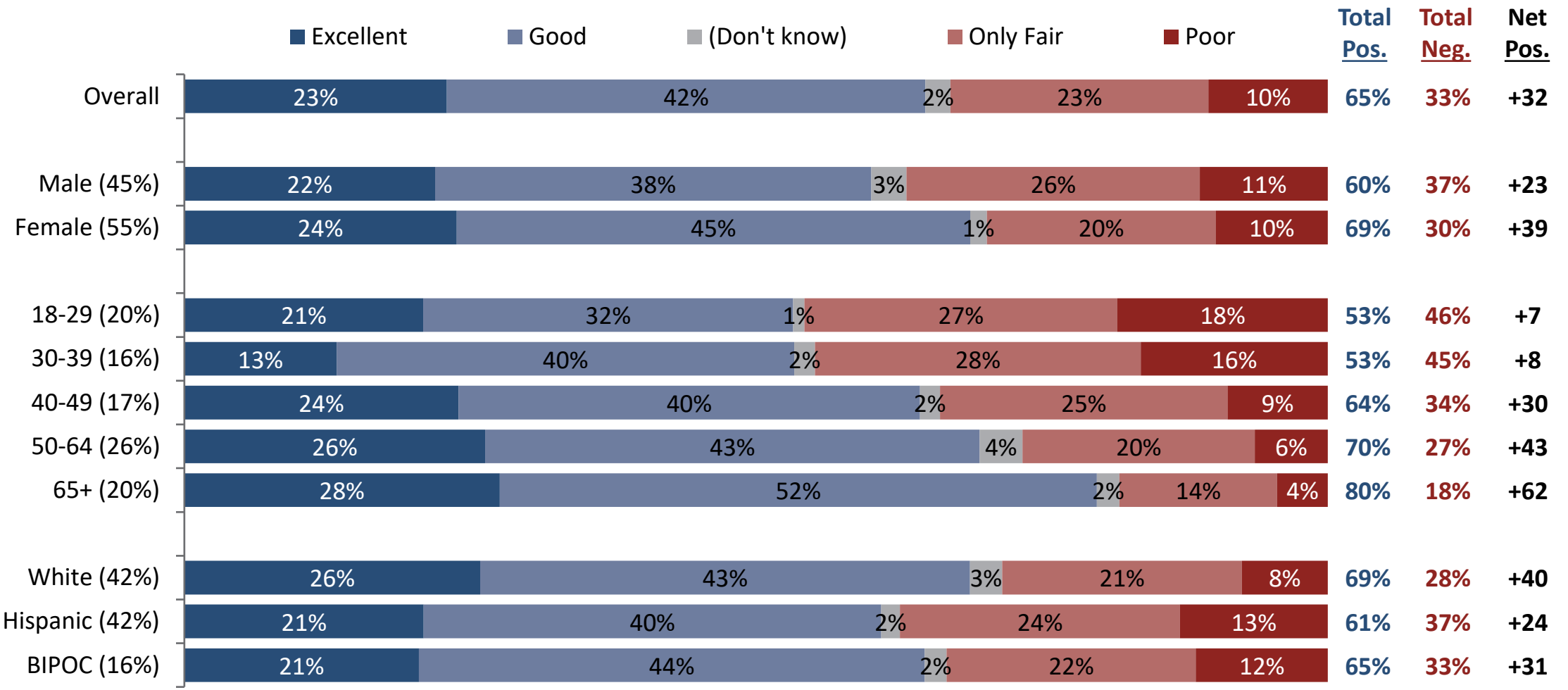
Q7. Please tell me if you have a strongly favorable, somewhat favorable, somewhat unfavorable or strongly unfavorable opinion of each one...*your local police department*



# Local Police Department Job Rating by Subgroups



Residents under 40 are split on their job rating for their local police department.



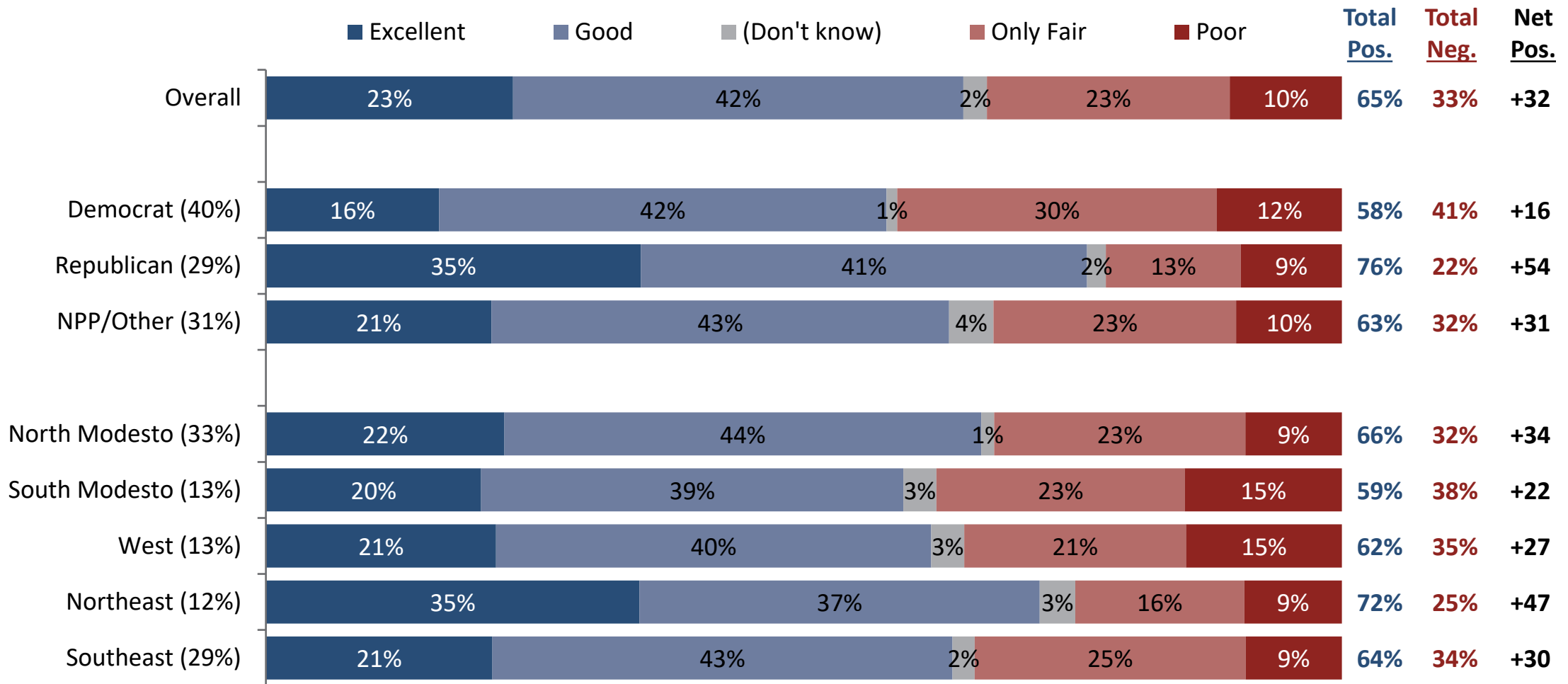
Q14. Using a scale of excellent, good, only fair, or poor, please rate each of the following...the job your local police department is doing



# Local Police Department Job Rating by Subgroups



Residents in both the South Modesto and West region are more likely to give their local police department a negative rating.

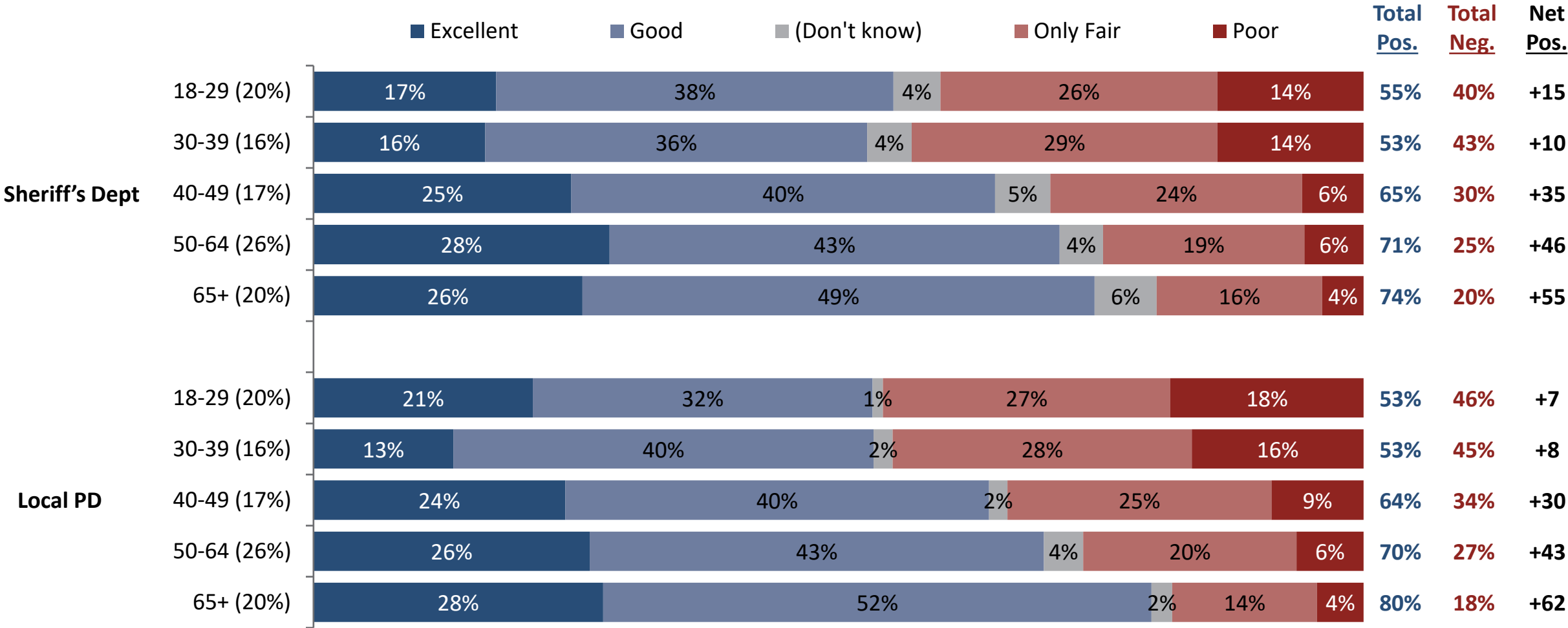


Q14. Using a scale of excellent, good, only fair, or poor, please rate each of the following...the job your local police department is doing



# Sheriff & Local PD Job Ratings by Subgroups

*Job ratings for the Sheriff's Department and Local PD are aligned across subgroups.*

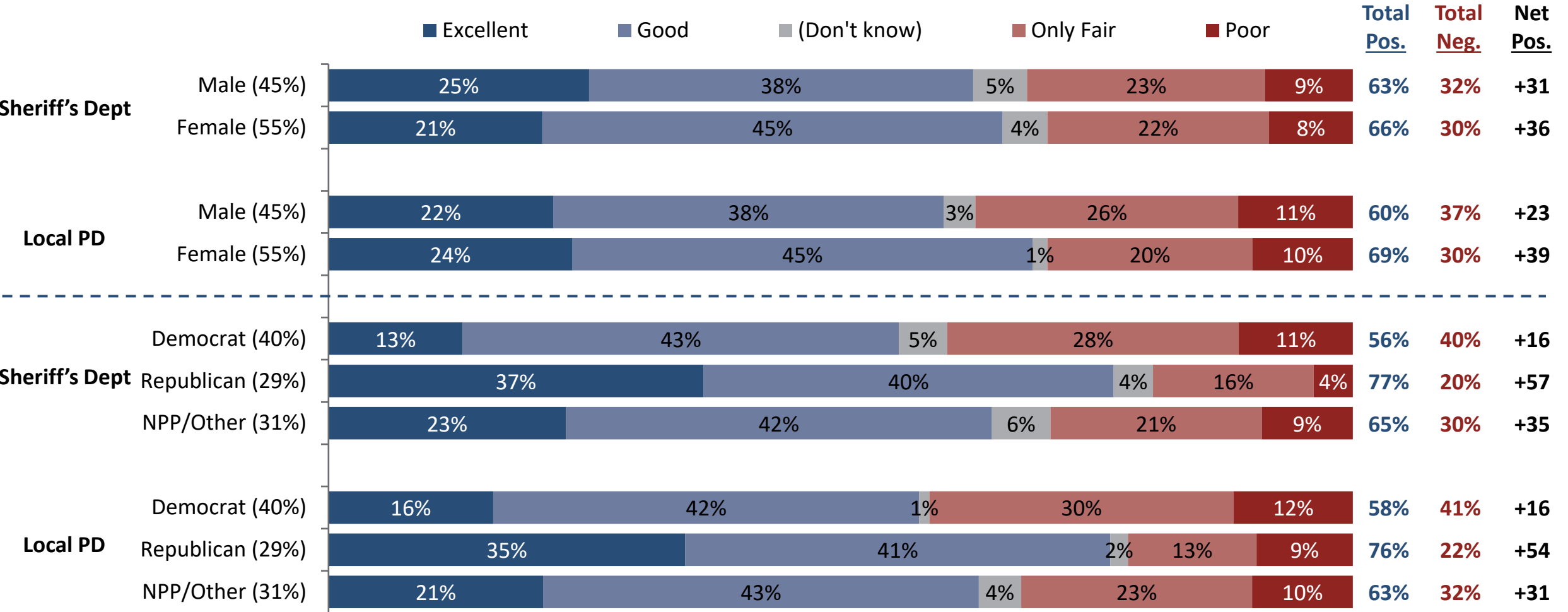


Q12/14. Using a scale of excellent, good, only fair, or poor, please rate each of the following...*the job the Stanislaus County Sheriff's Department is doing/ the job your local police department is doing.*



# Sheriff & Local PD Job Ratings by Subgroups

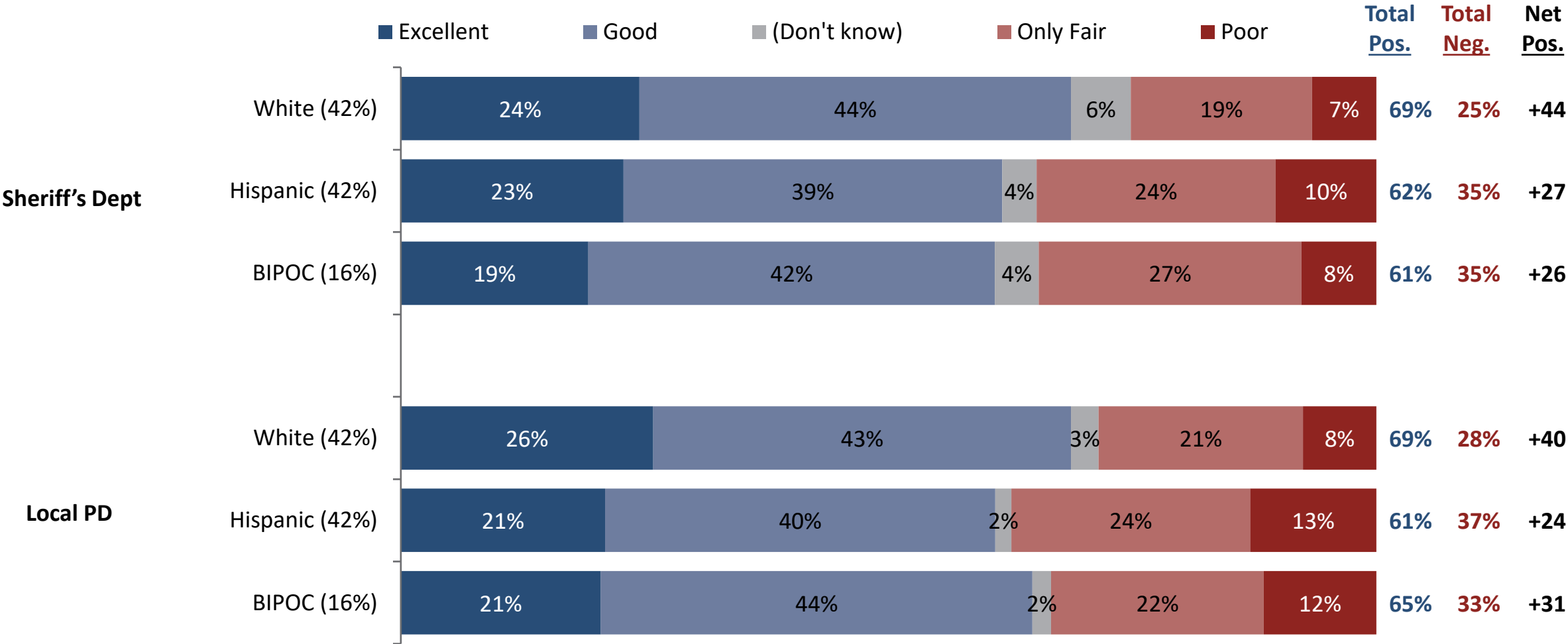
Male residents are more likely to give their Local PD a negative rating compared to the Sheriff's Department.





# Sheriff & Local PD Job Ratings by Subgroups

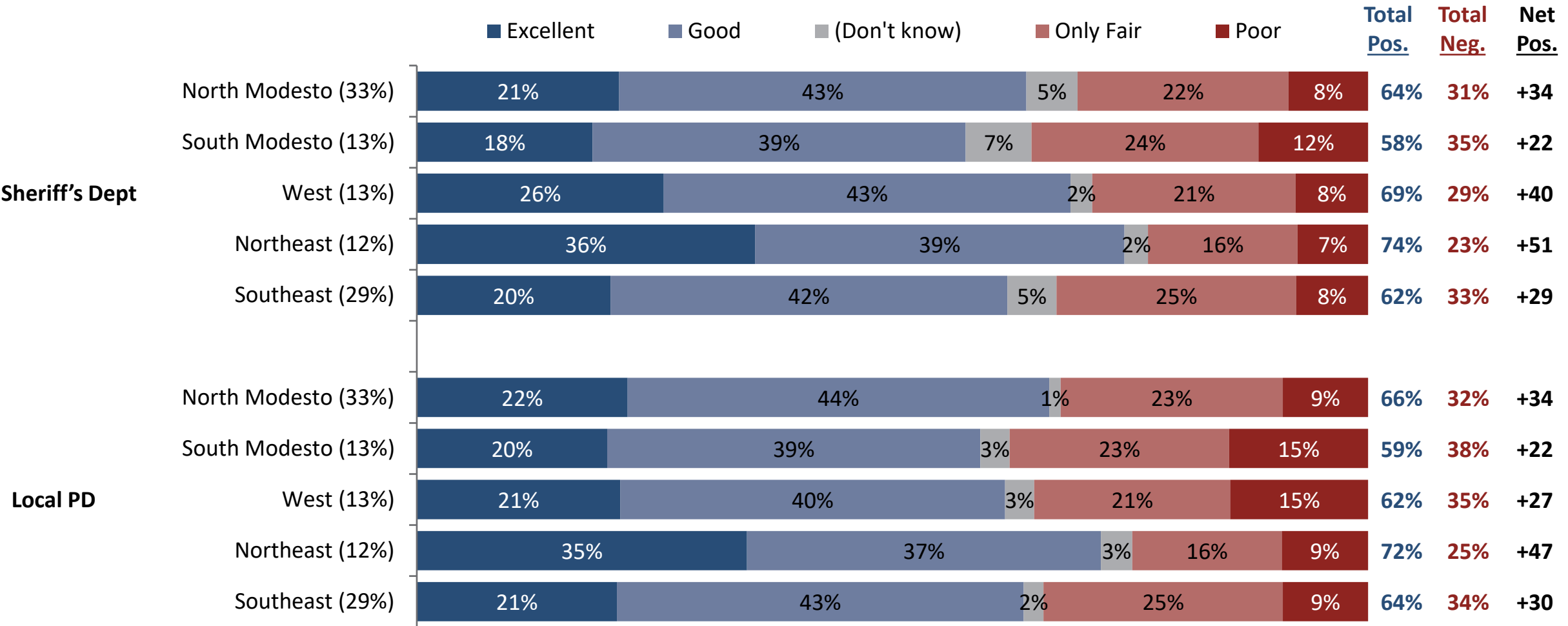
BIPOC residents are more likely to give their Local PD a positive rating compared to the Sheriff's Department.





# Sheriff & Local PD Job Ratings by Subgroups

Residents in the West region are more likely to give their Local PD a negative rating compared to the Sheriff's Department.

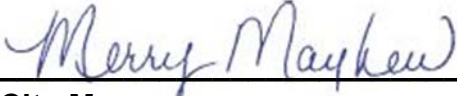






## **CITY COUNCIL AGENDA ITEM NO. 4.1**

### **SECTION 4: UNFINISHED BUSINESS**

**Meeting Date:** January 23, 2023  
**Subject:** Update Regarding the Well 7 Replacement Project Status  
**Enclosure:** City of Hughson Well 7 Replacement Project Status Update  
**Presented By:** Carla C. Jauregui, Community Development Director  
**Approved By:**   
City Manager

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#### **Staff Recommendation:**

Review and accept the City of Hughson Well 7 Replacement Project Status Update.

#### **Background and Overview:**

At the regularly scheduled City Council meeting on January 9, 2023, the City Council requested an item be placed on the agenda to give a status update on the Well 7 Replacement Project. A detailed summary, provided by the City contracted Water Engineer, Cort Abney has been included in the agenda.

In summary, after significant schedule delays, the project is nearing completion. The greatest impact on the schedule resulted from supply chain weaknesses impeding the delivery of specialized electrical equipment and components manufactured overseas. All remaining parts are now in possession of the electrical subcontractors, allowing the final fabrication of control and instrumentation panels. At this time, start-up and testing are expected to begin in approximately six weeks, with final completion occurring soon afterward. Despite schedule challenges, project costs remain within budget.



**January 18, 2023**

**To:** Carla Jauregui  
Community Development Director

**From:** Cort Abney, P.E.  
Shoreline Environmental Engineering



**Subject: City of Hughson Well 7 Replacement Project -  
Status Update**

As requested, the following summarizes the current status of the *City of Hughson Well 7 Replacement Project* ("Project"). After significant schedule delays, the Project is nearing completion. The greatest impact to schedule resulted from supply chain weaknesses impeding delivery of specialized electrical equipment and components manufactured overseas. All remaining parts are now in procession of the electrical subcontractors, allowing final fabrication of control and instrumentation panels. At this time, start-up and testing is expected to begin in approximately 6 weeks, with final completion occurring soon afterward. Despite schedule challenges, Project costs remain within budget.

**Schedule:** As reported previously, significant delays in Project construction occurred as specialized equipment and parts manufactured in foreign countries were impacted by global supply chain failings. Other reasons for delays included contract requirements imposed by funding sources to meet the American Iron and Steel Act, whereby certain materials had to be manufactured in the United States, including but not limited to, valves, pipe, and other steel products. At this time, all outstanding parts and components are in procession of Project subcontractors, and remaining electrical control panels are scheduled for delivery to the site by mid-February.

The Contractor has continued to make progress when not limited by material and equipment deliveries. In an effort to speed up progress, the Contractor purchased used motor starters for temporary use until the permanent starters arrive. Power is now available to the site, and initial testing of equipment and instruments is proceeding. The Contractor is scheduling training sessions for City Operations staff, and coordinating multiple vendors to assist with start-up activities of equipment and systems (i.e. well pumps, booster pumps, chemical feed pumps, flow meters, level measuring, control valves, water filtration equipment, blowers, control systems, telemetry, generator, etc.). Start-up and training are projected to require 3-4 weeks time.

**Budget & Change Orders:** Notwithstanding extensive delays, change orders and additional costs remain low. Currently, change orders amount to approximately 0.2% of the original contract price, and nearly all of the cost (86%) was due to additional work imposed by TID during construction. To date, non-TID change orders total approximately \$2000.

Sincerely,


Cort Abney, P.E.





## **CITY COUNCIL AGENDA ITEM NO. 4.2**

### **SECTION 4: UNFINISHED BUSINESS**

**Meeting Date:** January 23, 2023  
**Subject:** Approval of a Revised and Restated Non-Potable Water Agreement, with the Hughson Unified School District and Authorization for the City Manager to Execute the Agreement  
**Enclosure:** Revised and Restated Non-Potable Water Agreement  
**Presented By:** Merry Mayhew, City Manager  
**Approved By:**   
City Manager

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#### **Staff Recommendations:**

1. Review and approve a ten-year Revised and Restated Non-Potable Water Agreement with the Hughson Unified School District.
2. Authorize the City Manager to execute the Agreement inclusive of edits by the City Attorney.

#### **Background and Discussion:**

The City of Hughson (City) and Hughson Unified School District (HUSD) entered into a ten-year Non-Potable Water Agreement in June 2012. The purpose of the Agreement was to use non-potable water from Well 6 to irrigate approximately 30 acres of turf area at the HUSD's sports fields. Well 6 is located nearby on Locust Street and is considered non-potable water as the limits for arsenic exceed the limits currently allowable under current drinking water standards (California Department of Public Health Compliance Order No. 03-10-09CO-0001A dated January 5, 2009, Addendum No. 1 issued on August 9, 2012).

The Agreement benefits HUSD as absent an agreement, HUSD would need to drill, operate and maintain a well on HUSD property. In addition, the Agreement provides HUSD with non-potable water for the purpose of irrigation at a reduced cost. The Agreement also benefits the City by reducing the amount of water requiring treatment, allowing the City to use the non-treated water to meet the HUSD demands.

On May 23, 2022, HUSD and the City entered into a First Amendment to the Non-Potable Water Agreement for month-to-month service while corrections were made



to the water system. Corrections included installing a pressure release valve on the HUSD distribution system and adding a timer to allow more irrigation stations to run at the same time. In addition, the City replaced the compressor at a cost of approximately \$2,400. The issues have now been resolved successfully and the City and HUSD wish to enter into another multi-year agreement.

The following are the terms in the new agreement (Exhibit A):

- 10-year term;
- HUSD will pay \$0.831 per 1,000 gallons delivered (previously agreement was \$.685 per 1000 gallons delivered)
- HUSD and the City will share equally in the costs of maintenance and repair of Well 6 (this was not covered in the original agreement);
- The existing agreement included a CPI increase that was dropped from the new agreement in order to include that any increase in the non-potable water rate is tied to the proportional increase in the potable water rate charged by the City; and
- HUSD's use of water is not exclusive.

The HUSD Board approved the Agreement at the December 2022 Board meeting and if approved, the Agreement will be effective January 10, 2023.

**Fiscal Impact:**

Over the 12-month period of April 30, 2021 – March 30, 2022, HUSD used a total of 34,808,000 gallons at a cost of approximately \$26,802 annually. With the new rate, HUSD's annual cost of non-potable water will be approximately \$29,000 annually.



**CITY OF HUGHSON AND HUGHSON UNIFIED SCHOOL DISTRICT  
REVISED AND RESTATED NON-POTABLE WATER AGREEMENT**

This Revised and Restated Non-Potable Water Agreement (hereinafter, "Agreement") is entered into this 24<sup>th</sup> day of January 2023 by and between ~~THE CITY OF HUGHSON~~, a general law city organized under the laws of the state of California, (hereinafter, "City") and the HUGHSON UNIFIED SCHOOL DISTRICT (hereinafter, "District") (individually, a "Party"; collectively, "Parties").

**RECITALS**

A. Whereas, District is the fee owner of that certain real property commonly known as "Hughson High School" located at 7419 E. Whitmore Avenue, Hughson, CA and that certain real property east and adjacent to the high school (collectively, "Site").

B. Whereas, in 2012, District was planning to install a new baseball field, new softball field, three soccer fields and a parking lot at the Site. The then-existing sports fields and the proposed new sports fields located at the Site were to total approximately 30 acres of turf area; and

C. Whereas, City owns Well #6 located on Locust Street near the Site. Water from Well #6 has arsenic levels higher than allowable under current drinking water standards; and

D. Well #6 consists of a deep water well, one or more pumps, pipes, valves, other related infrastructure, and a water meter (collectively, "Well #6"); and

E. Whereas, District would have had to drill, operate and maintain a well on the Site absent the City providing water from Well #6; and

F. Whereas, a new well constructed on the Site could have a negative effect on the City's wells, including Well #6; and

G. Whereas, on June 12, 2012, the City and District entered into a Non-Potable Water Agreement ("**Original Agreement**") with an initial term of 10 years whereby the City agreed to provide non-potable water from Well #6 to the District for the purposes of irrigating the sports fields on the Site; and

H. Whereas, on May 10, 2022, the City and District entered into a First Amendment to the Original Agreement changing the term from 10 years to a month-to-month term subject to 60 days' notice of termination; and

I. Whereas, a non-potable water system would continue to benefit the City by reducing the amount of water requiring treatment to meet drinking water standards and would allow the City to use the non-treated water to meet other City water demands; and



J. Whereas, the District would continue to benefit from a non-potable water system through a reduced-cost water supply, relieving the District of well ownership, operations, and maintenance responsibilities, and participation in an established water system that will provide the District with greater service reliability through backup supplies; and

K. Whereas, the City and District desire to revise and restate the Original Agreement (as currently amended) to change the term of the agreement to a new 10-year term, remove the cost of living adjustments to the non-potable water rate charged to the District, share equally in the costs in the maintenance and repair of Well #6, allow the City to use the non-potable water from Well #6, and tie the increase non-potable water rate in this Agreement to the proportional increase in the potable water rate charged by the City; and

L. Therefore, in consideration of the mutual benefits to each Party, the City and the District desire to enter into this Revised and Restated Non-Potable Water Agreement for the City to continue to provide to District non-potable water from Well #6 to irrigate existing and any new turf areas located or established at the Site.

**NOW, THEREFORE**, for and in consideration of the mutual covenants and conditions herein contained, City and District agree as follows:

1. **Operational Parameters:**

1.01. City will provide District with a non-potable water supply from Well #6 which has a flow range of 0 to 800 gallons per minute and a pressure of 60 psig to 75 psig as measured at the existing water meter located at the Site ("Water").

1.02. City will provide District the Water during the months of March through October and during the hours of 9 p.m. to 6 a.m. Pacific Standard Time. The City reserves the right to take the non-potable water system off-line for three (3) months per year during December, January, and February; accordingly, City will have no obligation under this Agreement, and District will have no right to receive under this Agreement, Water during the months of December, January, or February (or any combination thereof) during the term of this Agreement.

1.03. The Water provided by City pursuant to this Agreement will not be treated by City or any other party and may not meet, nor will it be required to meet, any state or federal standards for drinking water.

1.04. District may use the Water provided by City pursuant to this Agreement for the purpose of irrigating existing and any new turf areas located on or established at the Site and for no other purpose.

2. **Maintenance and Repairs:**

2.01. City will be responsible for performing all maintenance and repairs on Well #6 during the term of this Agreement ("Maintenance"). City will pay before delinquent all utility charges incurred in connection with the ownership and operation of Well #6, including without limitation



all standby charges (collectively, "**Utility Charges**"). City will account for all costs and expenses incurred in performing the Maintenance and the Utility Charges (collectively, "**Costs**").

2.02. District will be responsible for fifty percent (50%) of the Costs. City will send an invoice to District for District's share of the Costs, and District will pay each invoice within thirty (30) days of its receipt.

2.03. City will maintain full-time water operators to oversee and correct operational deficiencies of Well # 6.

3. **Ownership:** District and City agree: (i) City owns Well #6; and (ii) City's ownership of Well #6 terminates at the water meter; and (iii) District has no ownership or property interest in Well #6; and (iv) City has no ownership or property interest in the pipes, valves, and other infrastructure from the point of the Well #6 water meter to the Site; and (v) City has no obligation to maintain or repair such infrastructure of District.

4. **Water Rates; Billing:**

4.01. City has potable water rates established in accordance with the provisions of Proposition 218. The established water rates take into account capital expenditures and water treatment to provide a drinking water supply that meets regulatory standards. Because the Water will not be treated it can likely be provided to District at a lower rate than the rate charged customers who are receiving treated potable water. The City's water customers are charged a monthly fixed charge ("**Fixed Charge**") based on meter size and a metered rate for actual usage.

4.02. To the extent District pays fifty percent (50%) of the Costs pursuant to Section 2 of this Agreement, City agrees not to charge District a monthly Fixed Charge. District will pay for non-potable water usage based on the metered rate of \$0.831 per 1,000 gallons delivered ("**Metered Rate**"). The Metered Rate for non-potable water shall be subject to change during the term of this Agreement as follows: if the City's metered rate for potable water is increased in accordance with Proposition 218, the non-potable water Metered Rate will increase proportionally equal to the potable water rate. As an example, if the potable water metered rates increase by 5%, the non-potable water Metered Rate shall also increase by 5% to \$0.873 per 1,000 gallons. As a result, the non-potable water Metered Rate will only increase when potable water metered rates change.

4.03. City will send a monthly invoice to the District for non-potable water used at the rate set forth in Section 4.02 which shall be payable within 30 days of the date of the invoice.

4.04. In exchange for the non-potable water Metered Rate set forth in Section 4.02, the District agrees that it will not drill a well on the Site during the term of this Agreement.

5. **City's Use of Well #6:** District's use of the Water is not exclusive. City may also use water from Well #6 at its own discretion.



6. **Drinking Water:** This Agreement does not modify or alter the District's obligation to pay for the drinking water used at the High School site under the existing drinking water rate structure.

7. **Signs:** The District shall post signs on Site stating that the Site is irrigated with non-potable water. All signs shall comply with all applicable state laws and regulations, including regulations issued by Cal/OSHA.

8. **Term:**

8.01. The term of this Agreement will commence on ~~January 24, 2023~~ and will continue for ten (10) years, expiring on ~~January 23, 2033~~ unless terminated earlier in accordance with Section 8.02. The Parties agree that this Agreement may be extended upon the mutual agreement of the Parties.

8.02. Either Party may terminate this agreement for cause upon the breach of this Agreement by the other Party. In addition, either Party may unilaterally and in its sole discretion terminate this Agreement without cause upon sixty (60) days written notice to the other Party.

9. **General Provisions:**

9.01. **Amendment.** This Agreement may be amended, modified or supplemented only by a writing signed by both parties.

9.02. **Waiver.** No waiver of any provision of this Agreement shall be binding unless executed in writing by the Party making the waiver. No waiver of any provision of this Agreement shall be deemed to constitute a waiver of any other provision, whether or not similar, nor shall any waiver constitute a continuing waiver unless the written waiver so specifies.

9.03. **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument.

9.04. **No Joint Venture.** It is not the intention of the Parties to create by this Agreement a relationship of master-servant, principal-agent, partnership or joint venture and under no circumstance shall either Party be considered the agent of the other.

9.05. **Governing Law.** This Agreement is entered into in and shall be governed by and construed in accordance with the laws of the State of California.

9.06. **Successors and Assigns.** This Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective heirs, personal and legal representatives, subsidiaries, affiliates, successors and assigns.

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9.07. Indemnity.

a. District shall indemnify, defend and hold harmless City, its elected or appointed officials, employees, agents and authorized representatives from any and all losses, injuries, liability, damages, claims, costs and expenses (including attorneys' fees and court costs), arising out of or resulting from (i) any breach of this Agreement by District; and (ii) the willful misconduct or negligent acts of District in connection with the performance of this Agreement.

b. City shall indemnify, defend and hold harmless District, its elected or appointed officials, employees, agents and authorized representatives from any and all losses, injuries, liability, damages, claims, costs and expenses (including attorneys' fees and court costs), arising out of or resulting from (i) any breach of this Agreement by City; and (ii) the willful misconduct or negligent acts of City in connection with the performance of this Agreement.

9.08. Attorneys' Fees. The prevailing Party in any action or proceeding to enforce or interpret this Agreement or otherwise arising out of or in connection with the subject matter hereof (including, but not limited to, any suit, arbitration, entry of judgment, post-judgment motion or enforcement, appeal, bankruptcy litigation, attachment or levy) shall be entitled to recover its costs and expenses, including, but not limited to, attorneys', experts' and consultants' fees and costs.

9.09. Cooperation. City and District shall cooperate with the other and act in good faith in the carrying out of this Agreement, and to the extent necessary or appropriate, the Parties shall draft and execute all such proposals, applications, and/or related items and materials necessary to effectuate the terms of this Agreement

9.10. Captions. Captions to sections of this Agreement are for convenience purposes only and are not part of this Agreement.

9.11. Severability. If any portion of this Agreement is declared by a court of competent jurisdiction to be invalid or unenforceable, such portion shall be deemed severed from this Agreement and the remaining parts shall remain in full effect as though such invalid or unenforceable provision had not been a part of this Agreement.

9.12. Entire Agreement. This Agreement contains the entire agreement between the Parties with respect to the matters contained herein and may be amended only by subsequent written

*\*\*\*Agreement continues and signatures appear on following page\*\*\**



agreement signed by the Parties.

**IN WITNESS WHEREOF**, the Parties have executed this Agreement the day and the year first written above.

CITY OF HUGHSON

HUGHSON UNIFIED SCHOOL DISTRICT

By \_\_\_\_\_  
Merry Mayhew, City Manager

By Brenda M. Smith  
Brenda Smith, Superintendent

Approved as to form:

Approved as to form:

By \_\_\_\_\_  
Dan Schroeder, City Attorney

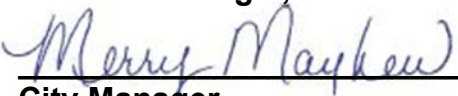
By \_\_\_\_\_





## **CITY COUNCIL AGENDA ITEM NO. 5.1**

### **SECTION 5: PUBLIC HEARING**

**Meeting Date:** January 23, 2023  
**Subject:** Approval to Adopt Resolution No. 2023-07, Declaring the Results of a Special Election for the City of Hughson Public Safety and Maintenance Services Community Facilities District (CFD) and Resolution No. 2023-08, A Resolution of Formation of a Community Facilities District (CFD), and to Levy a Special Tax Therein  
**Enclosures:** City of Hughson Public Safety and Maintenance Services Community Facilities District Boundary Map  
Hughson Citywide Community Facilities District Formation Report  
**Presented By:** Carla C. Jauregui, Community Development Director  
**Approved By:**   
City Manager

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#### **Staff Recommendations:**

1. Adopt Resolution No. 2023-07, declaring the results of a Special Election for the City of Hughson Public Safety and Maintenance Services Community Facilities District.
2. Adopt Resolution No. 2023-08, Resolution of formation of the City of Hughson Communities Facilities District and to levy a special tax therein for the City of Hughson Public Safety and Maintenance Services Community Facilities District.

#### **Background and Overview:**

The City Council will conduct a Public Hearing to gather any relevant testimony regarding the formation of the City of Hughson Public Safety and Maintenance Services Community Facilities District. The returned ballots will be tabulated, and the City Council can then consider the adoption of Resolutions Determining the Election Results and Formation of the subject Community Facilities District. If adopted, the Council will then direct the Hughson City Clerk to record the Notice of Special Tax Lien with the Stanislaus County Clerk-Recorder.

The City of Hughson Public Safety and Maintenance Services Community Facilities District has been proposed for the purpose of levying a special tax, paid by the



homeowners in new developments, to help offset the City's costs of providing long-term maintenance for certain improvements. The following steps have already been completed, in accordance with the CFD Code.

1. A Petition to form a CFD was signed and submitted by the property owner on August 30, 2022.
2. The Boundary Map for the District was recorded at the County Clerk-Recorder's Office on January 5, 2023.
3. Notice of tonight's Public Hearing was published in the Hughson Chronicle.

On December 12, 2022, the Hughson City Council took the following actions:

1. Adopted a Resolution of Intention to Establish the City of Hughson Public Safety and Maintenance Services Community Facilities District, (the "CFD");
2. Adopted a Resolution Calling a Special Election for the CFD;
3. Set a Public Hearing date for January 23, 2023;
4. Directed the Recording of the District Boundary Map; and
5. Directed the publication of the Notice of Public Hearing per noticing requirements. That Notice was published in the Hughson Chronicle.

#### **Discussion:**

The proposed CFD will provide funding for the following:

- Street maintenance and repairs, including curbs, gutters, sidewalks, and ramps
- Parks
- Streetlights, including maintenance and electrical/utility costs
- Storm drain facilities, including manhole covers, catch basins, pipes, drains, and treatment of stormwater run-off
- Landscape maintenance
- Police services

#### **Fiscal Impact :**

There is no negative fiscal impact associated with this action. The proposed maximum annual special tax rate for Fiscal Year 2023-24 is \$974.06 per unit and is designed to pay for the cost of the improvements and services provided.



**CITY COUNCIL  
CITY OF HUGHSON  
RESOLUTION NO. 2023-07**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUGHSON  
DECLARING THE RESULTS OF A SPECIAL ELECTION FOR THE CITY OF  
HUGHSON PUBLIC SAFETY AND MAINTENANCE SERVICES COMMUNITY  
FACILITIES DISTRICT**

**WHEREAS**, on January 23, 2023, the City Council of the City of Hughson (the "City Council") adopted Resolution No. 2023-08 "Resolution of Formation of the City of Hughson Public Safety and Maintenance Services Community Facilities District (the "CFD") and to Levy a Special Tax Therein" (the "Resolution of Formation"), ordering the formation of the CFD, authorizing the levy and collection of a special tax on property within the CFD, pursuant to the Mello-Roos Community Facilities Act of 1982, amended, Chapter 2.5 of Part 1 of Division 2 of Title 5, commencing with Section 53311, of the California Government Code (the "Act"); and

**WHEREAS**, under the provisions of the Resolution of Formation previously adopted by the City Council, the propositions of the levy of a special tax were submitted to the qualified electors of the CFD as required by provisions of the Act; and

**WHEREAS**, the special election has been held and the City Clerk has on file a Canvass and Statement of Results of Election (the "Canvass"), a copy of which is attached as Exhibit A; and

**WHEREAS**, the City Council has reviewed the canvass, finds it appropriate, and wishes to complete its proceedings for the CFD;

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson does hereby declare, determine, and order as follows:

**SECTION 1. Recitals.**

The foregoing recitals are all true and correct.

**SECTION 2. Issues Presented.**

The issues presented at the special election were the levy and collection of a special tax within the CFD, pursuant to the Resolution of Formation.

**SECTION 3. Canvass and Issues Approved.**

The hereby approves the Canvass and finds that it shall be a permanent part of the record of its proceedings for the CFD. Pursuant to the Canvass, the issues presented at the special election were approved by the qualified electors of the CFD by more than two-thirds of the votes cast at the special election.

**SECTION 4. Proceedings Approved.**

Pursuant to the voter approval, the CFD is hereby declared to be fully formed with the



authority to levy the special tax, as provided in these proceedings and in the Act. It is hereby found that all prior proceedings and actions taken by the City Council with respect to the CFD were valid and in conformity with the Act.

**SECTION 5.**            **Notice of Special Tax Lien.**

The City Clerk is hereby directed to complete, execute and cause to be recorded in the Office of the County Recorder of the County of Stanislaus. A notice of special tax lien in the form required by the Act, such recording to occur no later than 15 days following the adoption of this resolution by the City Council.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23rd day of January, 2023 by the following roll call vote:

**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

\_\_\_\_\_  
**GEORGE CARR, Mayor**

**ATTEST**

\_\_\_\_\_  
**ASHTON GOSE, City Clerk**



**EXHIBIT A**

**CERTIFICATION OF THE CITY CLERK  
CANVASS AND STATEMENT OF RESULTS OF THE ELECTION**

**CITY OF HUGHSON PUBLIC SAFETY AND MAINTENANCE SERVICES COMMUNITY  
FACILITIES DISTRICT**

I, Ashton Gose, City Clerk of the City of Hughson (the "City") hereby certify:

I have personally received and assembled all ballots eligible to be cast in the special mailed-ballot, landowner election called by the City Council in its Resolution Calling for a Special Election in the City of Hughson Public Safety and Maintenance Service Community Facilities District, adopted January 23, 2023, and in accordance with my instructions contained in that resolution, I hereby declare the election closed.

I personally, in the presence of the City Council, members of the public and city staff, counted the returned ballots and certify the results of that count to be as follows:

**TOTAL VOTES THAT COULD BE CAST: \_\_\_\_\_**

**TOTAL VOTES CAST "YES" \_\_\_\_\_**

**TOTAL VOTES CAST "NO" \_\_\_\_\_**

**TOTAL VOTES CAST \_\_\_\_\_**

**THE VOTES CAST "YES" EQUAL \_\_\_\_\_% OF THE TOTAL VOTES CAST.**

I make this Certification on January 23, 2023.

\_\_\_\_\_  
**ASHTON GOSE, City Clerk**  
**City of Hughson**



**CITY COUNCIL  
CITY OF HUGHSON  
RESOLUTION NO. 2023-08**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUGHSON FOR THE  
FORMATION OF A COMMUNITY FACILITIES DISTRICT AND TO LEVY A SPECIAL TAX  
THEREIN FOR THE CITY OF HUGHSON PUBLIC SAFETY AND MAINTENANCE  
SERVICES COMMUNITY FACILITIES DISTRICT**

**WHEREAS**, on December 12, 2022, the City Council (the "City Council") adopted Resolution No. 2022-63 "Resolution of Intent to Establish the City of Hughson Public Safety and Maintenance Services Community Facilities District" ("the "CFD") and to Levy a Special Tax Therein" (the "Resolution of Intention"), pursuant to the Mello-Roos Community Facilities Act of 1982, amended, Chapter 2.5 of Part 1 of Division 2 of Title 5, commencing with Section 53311, of the California Government Code (the "Act"); and

**WHEREAS**, the Resolution of Intention incorporates a map of the proposed boundaries of the CFD, states the authorized services (the "Authorized Services") proposed to be provided and the Method of Apportionment of the Special Tax to be levied within the CFD to pay the cost of providing such Authorized Services, and is on file with the City Clerk and the provisions thereof are incorporated herein by this reference as if fully set forth herein; and

**WHEREAS**, the Authorized Services to be provided, as stated in the Resolution of Intention, are set forth in Exhibit A attached hereto and hereby made a part hereof; and

**WHEREAS**, the City Council noticed a public hearing to be held on January 23, 2023, pursuant to the Act and the Resolution of Intention, relating to the proposed formation of the CFD; and

**WHEREAS**, at the public hearing all interested persons desiring to be heard on all matters pertaining to the formation of the CFD, the Authorized Services to be provided therein and the levy of said special tax were heard and a full and fair public hearing was held; and

**WHEREAS**, at the public hearing, evidence was presented to this Council on said matters before it, including a CFD Report (the "Report") as to the Authorized Services to be provided in the CFD and the costs thereof and incidental expenses related thereto, a copy of which is on file with the City Clerk, and the City Council, at the conclusion of said hearing, is fully advised in the premises; and

**WHEREAS**, written protests with respect to the formation of the CFD, the furnishing of specified types of Authorized Services and the rate and method of apportionment of the special taxes have not been filed with the City Clerk by fifty percent or more of the registered voters residing within the territory of the CFD or property owners of one-half or more of the area of land within the CFD and not exempt from the proposed special tax; and

**WHEREAS**, the special tax proposed to be levied in the CFD to pay for the proposed Services to be provided therein has not been eliminated by protest by fifty percent or more of the registered voters residing within the territory of the CFD or the owners of one-half or more



of the area of land within the CFD and not exempt from the special tax;

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson does hereby declare, determine, and order as follows:

SECTION 1.            Recitals Correct.

The foregoing recitals are true and correct.

SECTION 2.            No Majority Protest.

The proposed special tax to be levied within the CFD has not been precluded by majority protest pursuant to Section 53324 of the Act.

SECTION 3.            Name of CFD.

The Community Facilities District, designated as 'Resolution of Intent to Establish the City of Hughson Public Safety and Maintenance Services Community Facilities District ', is hereby established pursuant to the Act.

SECTION 4.            Boundaries of CFD.

The boundaries of the CFD are as set forth in the map of the CFD heretofore recorded in the Stanislaus County Recorder's Office on January 5, 2023, in Volume 6 of Maps of Assessment Districts and Community Facilities Districts at Page 74, Stanislaus County Recorder.

SECTION 5.            Description of Services.

The type of Authorized Services proposed to be financed by the CFD, and pursuant to the Act, shall consist of those items listed as the Services in Exhibit A, attached hereto, and by this reference are incorporated herein.

SECTION 6.            Special Tax.

- (a) Except to the extent that funds are otherwise available to the CFD to pay for the Authorized Services, a special tax (the "Special Tax") sufficient to pay the costs thereof, secured by the recordation of a continuing lien against all non-exempt real property in the CFD, is intended to be levied annually within the CFD and collected in the same manner as ordinary ad valorem property taxes or in such other manner as may be prescribed by this Council.
- (b) The proposed rate and method of apportionment of the Special Tax among the parcels of real property within the CFD, in sufficient detail to allow each landowner within the proposed CFD to estimate the maximum amount such owner will have to pay, are shown in Exhibit B attached hereto and by this reference are incorporated herein.

SECTION 7.            Increased Demands.



It is hereby found and determined that the Services are necessary to meet increased demands placed upon local agencies as the result of development occurring within the area of the CFD. The Authorized Services are in addition to those provided in the territory of the CFD before the CFD was created and are additional services which do not supplant services already available within such territory at this time.

SECTION 8.            Responsible Official.

The City Council of the City of Hughson designates the firm of Harris & Associates ("Harris") as the responsible party for preparing an annual roll of special tax levy obligations, by assessor's parcel number, estimating future Special Tax levies, and for establishing procedures to promptly respond to inquiries regarding estimates of future Special Tax levies by property owners or other interested parties.

SECTION 9.            Tax Lien.

The Special Tax will be collected and enforced as a separate line item on the regular property tax bill. The City Council however, reserves the right, under Government Code Section 53340, to utilize any method of collecting the Special Tax which it shall, from time to time, determine to be in the best interests of the City, including, but not limited to, direct billing by the City to the property owners and supplemental billing.

SECTION 10.          Election.

Pursuant to the provisions of the Act, and the proposition of the levy of the Special Tax, there shall be submitted to the qualified electors of the CFD at an election the time, place and conditions of which election shall be as specified by a separate resolution of this Council. The qualified electors for the election to be held in these proceedings shall be the landowners owning land within the District. The City Council will conduct the election by mailed ballot and hereby designates the City Clerk as the official to conduct the mailed-ballot election.

SECTION 11.          Prior Proceedings Valid.

The City Council now finds and determines that all proceedings up to and including the adoption of this Resolution were and are valid and in conformity with the requirements of the Act. This determination and finding is final and conclusive in accordance with Government Code Section 53325.1.

SECTION 12.          Effectiveness.

This Resolution shall take effect from and after its adoption.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23rd day of January, 2023 by the following roll call vote:

»  
»  
»



**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

GEORGE CARR, Mayor

**ATTEST:**

ASHTON GOSE, City Clerk



## EXHIBIT A

### CITY OF HUGHSON PUBLIC SAFETY AND MAINTENANCE SERVICES COMMUNITY FACILITIES DISTRICT

#### RATE AND METHOD OF APPORTIONMENT

A Special Tax applicable to each Assessor Parcel in the City of Hughson Community Facilities District, Province Place 2017 shall be levied and collected according to the tax liability determined by the City of Hughson or its designee, through the application of this rate and method of apportionment of Special Tax. All of the property in the CFD, unless exempted by law or by the provisions hereof, shall be taxed for the purposes, to the extent, and in the manner herein provided, including property subsequently annexed to the CFD unless otherwise provided for the annexed property.

#### SECTION A – DEFINITIONS

The terms hereinafter set forth have the following meanings:

**“Acre” or “Acreage”** means the land area of an Assessor Parcel as shown on the County records, such as an Assessor’s Parcel map, secured roll data, geographic information systems (“GIS”), or if the land area is not shown on an Assessor Parcel map, the land area shown on the applicable final subdivision map, condominium plan, record of survey or other recorded document creating or describing the parcel, or other parcel map recorded at the County Recorder’s Office. If the preceding maps for the land area are not available, the acreage of such land area may be determined utilizing available spatial data and GIS. The square footage of an Assessor’s Parcel is equal to the acreage multiplied by 43,560 (square feet in one acre).

**“Act”** means the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, (commencing with Section 53311), Division 2 of Title 5 of the California Government Code.

**“Administrative Expenses”** means the actual or estimated reasonable costs incurred by the City acting for or on behalf of the CFD as administrator thereof to determine, levy and collect the Special Taxes in responding to public inquiries regarding the Special Taxes, including salaries of City employees and a proportionate amount of the City’s general administrative overhead related thereto; the fees of consultants and legal counsel providing services to the administration of the CFD, any amounts estimated or advanced by the City or CFD for any administrative purpose, and any other costs required to administer the CFD as determined by the City.

**“Assessor’s Parcel”** means a lot or parcel with an assigned County Assessor's Parcel number, as show on a County Assessor's Parcel Map.

**“Assessor’s Parcel Map”** means an official map of the Assessor of the County of Stanislaus, designating parcels by Assessor's Parcel number.



**“Annual Special Tax Escalation”** means an allowable annual increase in the Maximum Special Tax following the Base Year, in an amount not to exceed the annual increase CPI for the month of February. See detailed description of CPI below, under “Consumer Price Index for All Urban Consumers”

**“Authorized Services”** means those authorized maintenance activities or services and expenses that may be funded by the CFD, pursuant to the Act, as amended, including, without limitation, those services authorized to be funded by the CFD, as set forth in the documents adopted by the City Council at the time the CFD was formed.

**“Base Year”** means Fiscal Year 2023/2024.

**“Capital Replacement Reserve Fund”** means a fund that shall be maintained for the CFD for each fiscal year, to provide for the accumulation and holding of funds for long-term capital projects, asset replacement, or other large anticipated expenditures.

**“CFD”** City of Hughson Public Safety and Maintenance Services Community Facilities District.

**“CFD Administrator”** shall mean the person or firm designated by the City to administer the Special Tax according to the Rate and Method of Apportionment.

**“City”** means the City of Hughson.

**“City Council”** means the City Council of the City of Hughson, acting as the legislative body of the CFD.

**“Condominium Property”** means any Developed Property for which a building permit was issued for construction of a residential structure consisting of two or more Units that share common walls and are offered for sale to the general public, including such structures that meet the statutory definition of a condominium contained in Civil Code Section 1351.

**“Consumer Price Index for All Urban Consumers or “CPI”** means the applicable CPI as set forth by the United States Department of Labor, Bureau of Labor Statistics for February of the preceding fiscal year. In the event that this rate is no longer published or provided, the CFD administrator shall choose a comparable rate to use in its place.

**“County”** means Stanislaus County.

**“Developed Property”** means, in any fiscal year, all parcels of Taxable Property in the CFD for which a building permit for new construction was issued by June 30 of the preceding fiscal year.

**“Exempt Property”** means all parcels that are exempt from the Special Tax, pursuant to Law or Section E herein.

**“Fiscal Year”** means the period starting July 1 and ending on the following June 30.

**“Maximum Special Tax”** means the maximum Special Tax determined in accordance with



Section D below that can be levied on Taxable Property in any fiscal year.

**“Multi-Family Residential Property”** means any parcel of Developed Property for which a building permit was issued for construction of a residential structure with two or more units that are offered for rent to the general public, and that share common walls, including but not limited to, apartments, and residential property that is not for sale to an end user and is under common management.

**“Non-Residential Property”** means any parcel of taxable Developed Property within the CFD that is not a Multi-Family Residential Property, Single Family Residential Property or Condominium Property.

**“Operating Reserve Fund”** means a fund that shall be maintained for the CFD for each fiscal year, to provide necessary cash flow for the first six months of each fiscal year, working capital to cover monitoring, maintenance and repair cost over-runs and delinquencies in the payment of Special Taxes, and a reasonable buffer to prevent large variations in annual Special Tax levies.

**“Proportionately”** means, for Developed Property, that the ratio of the actual Special Tax levied in any fiscal year to the Maximum Special Tax authorized to be levied in that fiscal year is equal for all Assessor Parcels of Developed Property.

**“Public Property”** means any property within the CFD owned by the United States of America, the State of California, the County, the City, or other public agencies.

**“Rate and Method”** means the rate and method of apportionment of Special Tax as described herein.

**“Services”** means the services authorized to be financed, in whole or in part, by the Special Taxes levied in the CFD.

**“Single Family Residential Property”** means any Developed Property for which a building permit was issued for construction of a Unit without a common wall with another Unit.

**“Special Tax”** means any tax levied in the CFD to fund the Special Tax Requirement, pursuant to this Rate and Method of Apportionment.

**“Special Tax Requirement”** means the amount of revenue needed in any fiscal year to pay for the following: (i) Authorized Services, (ii) administrative expenses, (iii) establish or replenish the Operating Reserve Fund, (iv) establish or replenish the Capital Replacement Reserve Fund, (v) amount needed to cure any delinquencies in the payment of Special Taxes.

**“Taxable Property”** means any Assessor Parcel within the CFD which is not exempt from the Special Tax pursuant to applicable law or Section F below.

**“Undeveloped Property”** means, in any fiscal year, all parcels of Taxable Property in the CFD for which a building permit for new construction was not issued by June 1 of the



preceding fiscal year.

**“Unit”** means an individual single-family detached unit, or an individual attached residential unit within a duplex, triplex, four-plex, townhome, condominium, or apartment structure.

## **SECTION B – DATA COLLECTION FOR ANNUAL TAX LEVY**

On or about July 1 of each fiscal year, the Administrator shall identify the current Assessor Parcel numbers of all Taxable Property. The Administrator shall also determine: (i) whether each Assessor Parcel is Developed Property; (ii) for Developed Property, which Assessor Parcels are Single Family Residential Property, Multi-Family Residential Property, Condominium Property or Non-Residential Property, and (iii) the Special Tax Requirement.

## **SECTION C – MAXIMUM SPECIAL TAX**

### **1. Special Tax Rates**

Table 1 below identifies the Base Year Special Tax rates for all Taxable Property within the CFD.

**TABLE 1**  
**MAXIMUM SPECIAL TAXES FISCAL YEAR 2023/2024**

<b>Taxable Property Type</b>	<b>Maximum Special Tax</b>
	<b>Fiscal Year 2023/2024</b>
Single Family Residential	\$974.06 per Unit (1.00 EU)

### **2. Special Tax Increases**

The Maximum Special Tax Rate established in the Base Year shall be adjusted annually by the Bureau of Labor Statistics, Consumer Price Index, All Urban Consumers (“CPI”), for the month of February, for the San Francisco/Oakland/San Jose area.

## **SECTION D – METHOD OF APPORTIONMENT OF SPECIAL TAX LEVY**

Commencing with Fiscal Year 2023/2024 and for each subsequent fiscal year, the CFD Administrator shall levy the special tax at the rates established in Section C, on all Taxable Property in the CFD until the total amount of the Special Tax levied equals the Special Tax Requirement. The Special Tax shall be levied each fiscal year as follows:

1. The Special Tax shall be levied on each Assessor’s Parcel of Developed Property within the CFD up to one hundred percent (100%) of the Applicable Maximum Special Tax.
2. If additional monies are needed to satisfy the Special Tax Requirement, after Developed Property has been levied at 100% of their Maximum Special Tax, the



remaining amount needed to satisfy the Special Tax Requirement shall be levied proportionately on each Assessor's Parcel of Undeveloped Property, at up to 100% of the Maximum Special tax on Undeveloped Property.

Notwithstanding the above, under no circumstances will the Special Tax levied against any Assessor's Parcel of Residential Property be increased because of delinquency or default by the owner of any other Assessor's Parcel within the CFD, by more than 10% above what such Special Tax would have been in the absence of delinquencies.

## **SECTION E – COLLECTION**

The Special Tax shall be collected in the same manner and at the same time as ordinary ad valorem property taxes, provided, however, that the CFD may collect the Special Tax at a different time or in a different manner if necessary to meet its financial obligations, specifically through a direct billing.

A Special Tax shall continue to be levied and collected within the CFD to fund the annual Special Tax Requirement in perpetuity, so long as the Authorized Services are being provided

## **SECTION F – EXEMPTIONS**

Notwithstanding any other provision of this Rate and Method, no Special Tax shall be levied on Public Property, except as otherwise provided in the Act.

## **SECTION G – PREPAYMENT OF SPECIAL TAX:**

The Special Tax may not be prepaid and shall continue to be levied in accordance with Section D of this Rate and Method of Apportionment on an annual basis on all taxable property in the CFD for the purpose of funding ongoing Authorized Services.

## **SECTION H – INTERPRETATIONS**

The CFD Administrator may make interpretations. If necessary, interpretations may be made by the City Council, by Ordinance or Resolution, for purposes of clarifying any vagueness or ambiguity as it relates to this Rate and Method of Apportionment.

## **SECTION I – REPEAL OF SPECIAL TAX**

If the levy of the Special Tax is repealed by initiative or any other action participated in by the property owners of the Assessor's Parcels in the CFD, the City shall cease to levy the Special Tax and shall cease to be obligated to provide the Authorized Services for which the Special Tax was levied. The obligation to provide the Authorized Services previously funded by the repealed Special Tax shall become the joint obligation of the property owners of Assessor's Parcels within the CFD.

## **SECTION J – APPEALS**

The CFD Administrator may establish such procedures, as it deems necessary, to undertake



the review of any appeal. The CFD Administrator shall interpret this Rate and Method of Apportionment and make determinations relative to the annual administration of the Special Tax and any property owner appeals, as herein specified.

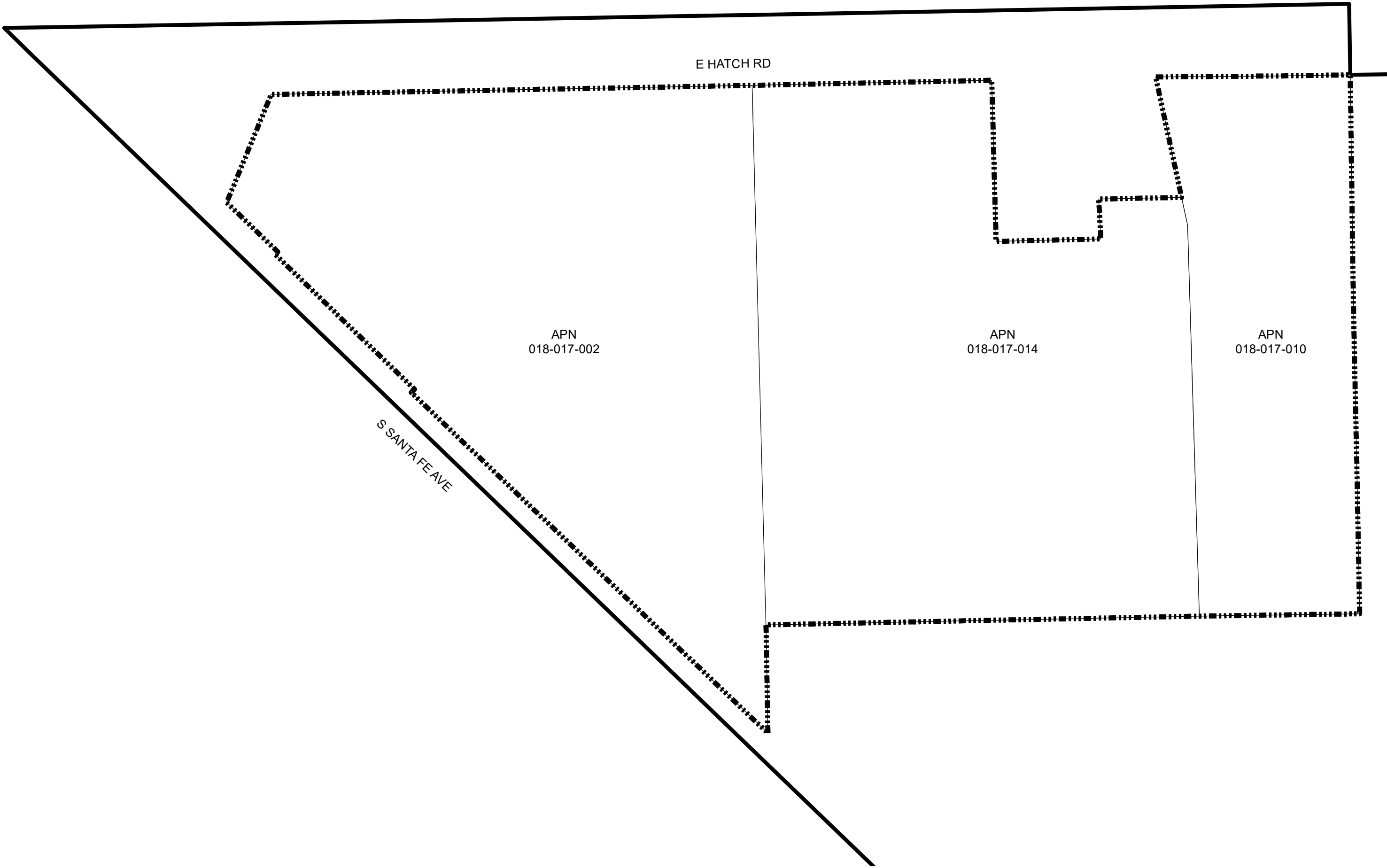
Any property owner who feels that the amount of the Special Tax levied on the Assessor's Parcel is in error, shall first consult with the CFD Administrator regarding such error. If, following such consultation the CFD Administrator determines that an error has occurred, the CFD Administrator, in consultation with the City Community Services Director, shall take any of the following actions to correct the error:

- Amend the Special Tax levied on the property owner's Assessor's Parcel(s) for the current fiscal year,
- Require the CFD to reimburse the property owner for the amount of any overpayment for the current fiscal year, to the extent of available CFD funds, or
- Grant a credit against, eliminate or reduce the future Special Tax(s) on the property owner's Assessor's Parcel(s) for overpayment of the current fiscal year.

If, following such consultation and action (if any by the CFD Administrator), the property owner believes an error still exists, the property owner may file a written protest with the City Community Development Director appealing the amount of the Special Tax levied on such Assessor's Parcel(s). If, following such consultation and action (if any with the City Community Development Director), the property owner believes an error still exists, the property owner may file a written protest with the City Council appealing the amount of the Special Tax levied on such Assessor's Parcel(s). If the City Community Development Director, City Council or its designee determines an error exists, the CFD Administrator shall take any action(s) as described above in order to correct the error. The decision of the City Council shall be final and binding to all persons filing a written protest.



PROPOSED BOUNDARY OF  
CITY OF HUGHSON  
PUBLIC SAFETY AND MAINTENANCE SERVICES  
COMMUNITY FACILITIES DISTRICT  
COUNTY OF STANISLAUS, STATE OF CALIFORNIA



CLERK'S MAP STATEMENT

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF HUGHSON THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2022.

CITY CLERK OF THE CITY OF HUGHSON

CLERK'S MAP STATEMENT

I HEREBY CERTIFY THAT THE AREA SHOWN ON THIS MAP OF THE PROPOSED COMMUNITY FACILITIES DISTRICT, PUBLIC SAFETY AND MAINTENANCE SERVICES, CITY OF HUGHSON, COUNTY OF STANISLAUS, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF HUGHSON AT A REGULARLY SCHEDULED MEETING THEREOF, HELD ON THE \_\_\_\_ DAY OF \_\_\_\_\_ 2022. BY ITS RESOLUTION NO. \_\_\_\_\_.

CITY CLERK OF THE CITY OF HUGHSON

COUNTY RECORDER'S FILING STATEMENT

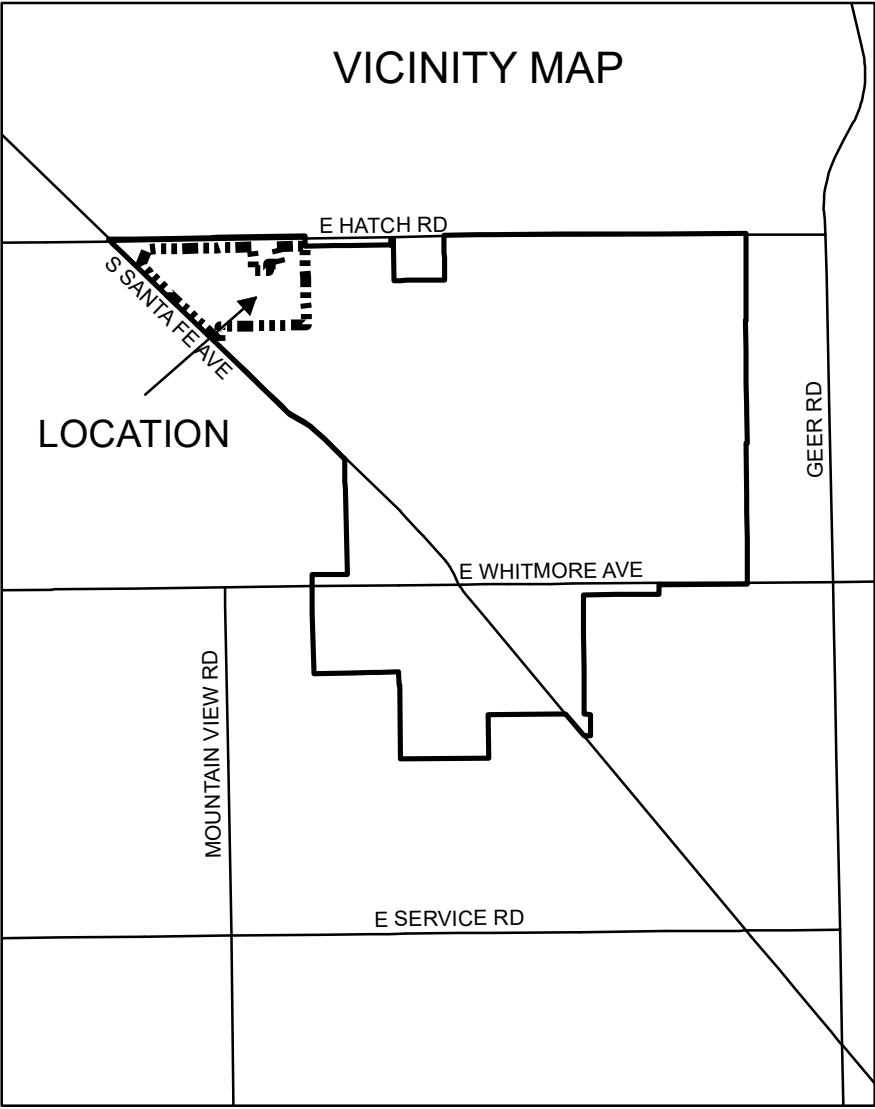
FILED THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2022. AT THE HOUR OF \_\_\_\_\_ O'CLOCK \_\_\_\_ M. IN BOOK \_\_\_\_\_ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS PAGE NO. \_\_\_\_ IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA.

DONNA LINDER  
CLERK RECORDER OF THE COUNTY OF STANISLAUS, CALIFORNIA

BY: \_\_\_\_\_  
DEPUTY

FILE: \_\_\_\_\_

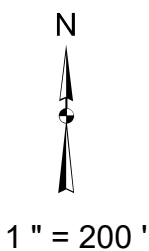
REFERENCE THE STANISLAUS COUNTY ASSESSOR'S MAPS FOR A DETAILED DESCRIPTION OF PARCEL LINES AND DIMENSIONS



PROPOSED BOUNDARY MAP

City of Hughson  
Community Facilities District  
Public Safety and Maintenance Services  
County of Stanislaus, California

Sheet 1 of 1



- Legend**
- Tax Zone1 Boundary
  - City Boundary & CFD Future Annexation Area
  - Parcel Boundary

HARRIS & ASSOCIATES  
1401 WILLOW PASS RD, SUITE 500  
CONCORD, CALIFORNIA 94520  
800-827-4901





# City of Hughson California



**Harris & Associates**

## **CITY OF HUGHSON**

### **CITYWIDE PUBLIC SAFETY AND MAINTENANCE SERVICES COMMUNITY FACILITIES DISTRICT FORMATION REPORT FISCAL YEAR 2023-24**

**December 12, 2022**

***Prepared by***

***Harris & Associates***

*22 Executive Park, Suite 200*

*Irvine, CA 92614*

*(949) 655-3900*

*[www.weareharris.com](http://www.weareharris.com)*



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PROPOSED BOUNDARIES OF THE CFD .....	2
COSTS OF SERVICES TO BE MAINTAINED BY THE CFD .....	3
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APPENDIX C – PETITION TO FORM CFD	

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## INTRODUCTION

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The City Council (the “Council”) of the City of Hughson (the “City”) did, pursuant to the provisions of the Mello-Roos Community Facilities Act of 1982, as amended (the “Act”), on December 12, 2022, adopt a resolution entitled “Resolution of the City of Hughson City Council, Intent to Establish the City of Hughson Citywide Public Safety and Maintenance Services Community Facilities District (the “Resolution of Intention”). In the Resolution of Intention, the Council expressly ordered the preparation of a written report (the “Report”), for the proposed "City of Hughson Citywide Public Safety and Maintenance Services Community Facilities District" (the “CFD”).

The Resolution of Intention ordered the Report and directed that the Report generally contain the following:

- (a) A description of the services (the “Services”), by type, which will be required to adequately meet the needs of the CFD.
- (b) An estimate of the fair and reasonable cost of the Services, including incidental expenses in connection therewith, and all other related costs.
- (c) A Rate and Method of Apportionment of the special tax.
- (d) A boundary map of the proposed district.

For additional particulars, reference is made to the Resolution of Intention for the CFD, as previously approved and adopted by the Council.



## DESCRIPTION OF SERVICES TO BE FUNDED BY THE CFD

---

The Services shown below ("Services" shall have the meaning given that term in the Mello-Roos Community Facilities Act of 1982) are proposed to be funded by the CFD, including all related administrative costs, expenses and related reserves for proper and continued maintenance of:

- Police services.
- Street maintenance and repairs including curbs, gutters, sidewalks and ramps,
- Parks and park amenities,
- Streetlights – maintenance and electrical/utility costs,
- Storm Drain facilities including catch basins, detention basins, pipes, drains, etc.,
- Landscaping, including utilities for irrigation systems,

The Special Taxes may be collected and set-aside in designated funds, collected over several years, that may be used by the City to fund future repairs and/or replacement of the facilities/improvements described above, as determined by the City.

## PROPOSED BOUNDARIES OF THE CFD

---

The boundary of the CFD is proposed to be the boundaries of the City of Hughson, with the Parkwood subdivision being Tax Zone 1. Parkwood is located south of Hatch Road and east of Santa Fe Avenue (southeast corner). The project, when developed, is proposed to consist of 299 single-family residential parcels. Please refer to Appendix A of this Report for a copy of the District Boundary Map.

Properties within the CFD's future annexation area shall be annexed into the CFD as new development occurs, unless exempted by law or by the provisions set forth in the Method of Apportionment. The CFD's future annexation area shall be defined as the boundaries of the City.



## COSTS OF SERVICES TO BE MAINTAINED BY THE CFD

---

The estimated costs of providing the Services to the parcels within the CFD are shown on the following pages. The Maximum Special Tax, as shown in Appendix B of this Report, shall be adjusted annually by the Bureau of Labor Statistics, Consumer Price Index, All Urban Consumers ("CPI"), for the month of February, for the San Francisco/Oakland/San Jose area, plus 3%. This adjustment is the same applied to other districts in the City. Should the Bureau of Labor Statistics revise or discontinue the preparation of such index, the City reserves the right to use such revised index or a comparable system to determine fluctuations in the annual cost of living.

### Tax Zone 1 – Parkwood Cost Estimate

---

The cost estimates, maintenance costs, administrative costs and capital replacement costs for Tax Zone 1 of the CFD are shown on the following pages.

#### Tax Zone 1 - Parkwood

#### Fiscal Year 2023/24 Cost Estimate Summary

Item	Annual Costs
<b>Maintenance</b>	
Landscape Maintenance	\$77,301.25
Street Lighting Maintenance	16,872.00
Street Maintenance	<u>3,560.28</u>
<b>Total Maintenance Cost</b>	<b>\$97,733.53</b>
<b>Police Services</b>	<b>\$140,730.33</b>
<b>Administrative Cost</b>	<b>\$8,575.36</b>
<b>Reserves</b>	
Operating Reserve (10% of Total Maintenance Cost)	\$9,773.35
Capital Replacement Reserve	<u>41,535.61</u>
<b>Total Reserves</b>	<b>\$51,308.96</b>
<b>Total Maintenance, Service, Administrative and Reserve Costs</b>	<b>\$298,348.18</b>
<b>Total Maximum Special Tax Amount - Fiscal Year 2023/24</b>	<b>\$298,348.18</b>



### Tax Zone 1 - Parkwood

#### Fiscal Year 2023/24 Maintenance Costs

Item	Unit	Quantity	Cost/Unit	Cost/Year
<b>Maintenance &amp; Service Items</b>				
Police Services	EA	299	\$470.67	\$140,730.33
Detention Basin/Park (Lot B) <sup>1</sup>	SF	139,499	\$0.15	\$20,924.85
Park (Lot C) <sup>1</sup>	SF	57,861	\$0.25	\$14,465.25
Park (Lot D) <sup>1</sup>	SF	15,214	\$0.25	\$3,803.50
Street Landscaping	SF	66,920	\$0.25	\$16,730.00
Utilities (landscape water)	SF	286,189	\$0.06	\$16,425.00
Storm Drain System - Catch Basins	EA	2	\$1,050.00	\$2,100.00
Street Trees	EA	462	\$5.00	\$2,310.00
Wood Fencing (6')	LF	229	\$0.25	\$57.25
Sound Wall - Painting & Graffiti Abatement	SF	3,236	\$0.15	<u>\$485.40</u>
<b>Total Maintenance &amp; Service Costs</b>				<b>\$218,031.58</b>
<b>Street Lighting Maintenance &amp; Utilities</b>				
Throughout Interior of Tract	EA	33	\$37.00	\$14,652.00
Exterior of Tract (On Santa Fe Ave.)	EA	5	\$37.00	<u>\$2,220.00</u>
<b>Total Street Lighting Maintenance Cost</b>				<b>\$16,872.00</b>
<b>Street Maintenance</b>				
Throughout Interior of Tract - Street Sweeping	Mile	2	\$23.00	\$1,104.00
Throughout Interior of Tract - Storm Drains (Clean-out as needed)	EA	53	\$7.50	<u>\$2,456.28</u>
<b>Total Public Street Maintenance Cost</b>				<b>\$3,560.28</b>
<b>Total Maintenance Cost</b>				<b>\$238,463.86</b>

<sup>(1)</sup> Includes bbq grills, dog waste stations, trash receptacles, picnic tables, benches, drinking fountain, shade & play structure, wood chip playground surface.

### Tax Zone 1 - Parkwood

#### Fiscal Year 2023/24 Administrative Costs

Item	Cost/Year
<b>Administrative Cost</b>	
City Personnel Costs	\$4,886.68
Annual District Administration	3,600.00
Stanislaus County Collection Charges	88.55
Rounding Adjustment	<u>0.13</u>
<b>Total Administrative Cost</b>	<b>\$8,575.36</b>



**Tax Zone 1 - Parkwood**

**Fiscal Year 2023/24 Capital Replacement Reserve**

Item	Unit	Quantity	Cost/Unit	Cycle	Cost/Year
<b>Landscape Improvements</b>					
Irrigation Controller	EA	1	\$4,050.00	15	\$270.00
Booster Pump	EA	1	\$5,000.00	25	\$200.00
<b>Park Amenities</b>					
Play Structure	EA	1	\$50,000.00	25	\$2,000.00
Wood Chip Playground Surface	SF	2,265	\$1.00	5	\$453.00
BBQ Grills/Hot Coal Bin	EA	2	\$1,168.00	10	\$233.60
Dog Waste Station	EA	3	\$678.00	10	\$203.40
Trash Receptacles	EA	3	\$750.00	10	\$225.00
Picnic Tables (1 is ADA compliant)	EA	4	\$1,000.00	25	\$160.00
Steel Benches	EA	5	\$985.00	15	\$328.33
Shade Structure	EA	1	\$15,000.00	10	\$1,500.00
Volleyball Net	EA	1	\$300.00	5	\$60.00
Basketball Goal Posts	EA	2	\$1,520.00	25	\$121.60
Miscellaneous Items <sup>(1)</sup>			\$1,500.00	1	\$1,500.00
Sound Wall (10')	LF	1,958	\$300.00	50	\$234.96
Sound Wall (8')	LF	268	\$270.00	50	\$28.94
Sound Wall (6')	LF	1,010	\$240.00	50	\$96.96
Wood Screen Fencing	LF	229	\$25.00	10	\$572.50
Chain Link Fencing (Black vinyl coated)	LF	1,040	\$40.00	30	\$1,386.67
4' X 16' Chain Link Gate (Black vinyl covered)	EA	1	\$1,000.00	15	\$66.67
3' X 4' Chain Link Gate (Black vinyl covered)	EA	1	\$500.00	15	<u>\$33.33</u>
<b>Total Landscape Improvements Replacement Cost</b>					<b>\$9,641.63</b>
<b>Street Lighting Improvements</b>					
Exterior Street Light Pole	EA	5	\$5,000.00	15	\$333.33
Exterior Street Light LED Power Module	EA	5	\$150.00	5	\$150.00
Exterior Street Light LED Optical Module	EA	5	\$750.00	20	\$187.50
Interior Street Light Pole	EA	33	\$3,500.00	25	\$140.00
Interior Street Light LED Power Module	EA	33	\$150.00	5	\$990.00
Interior Street Light LED Optical Module	EA	33	\$750.00	20	<u>\$1,237.50</u>
<b>Total Street Lighting Improvements Replacement Cost</b>					<b>\$3,038.33</b>
<b>Public Street and Sidewalk Improvements</b>					
Streets - Slurry Seal/Chip Seal/Crack Repair	SY	32,759	\$5.70	15	\$12,448.42
Streets - Overlay	SY	32,759	\$25.00	50	\$16,379.50
Sidewalks - Repair/Replace as needed	SF	6,852	\$7.00	50	\$19.19
ADA Sidewalk Ramp - Repair/Replace	SF	61	\$7.00	50	<u>\$8.54</u>
<b>Total Street and Sidewalk Improvements Replacement Cost</b>					<b>\$28,855.65</b>
<b>Total Annual Replacement Cost</b>					<b>\$41,535.61</b>

<sup>(1)</sup> Includes sprinkler heads, rotars, valves, doggie bags, etc.



Reserve Fund balance information for the CFD is shown on the following page. Each year, any additions to or reductions from the CFD Reserve Funds (Operating and/or Capital), will be shown in this table and the balances updated annually. As funds are used for maintenance, replacement or repair projects within the CFD, the table will reflect such reductions and narrative will be included in the CFD annual Report to detail the particular project for which Reserve monies were used.

### **Tax Zone 1 - Parkwood**

#### **Fiscal Year 2023/24 Reserve Fund Information**

<b>Operating Reserve Fund</b>	
Estimated Operating Reserve Fund Beginning Balance - 7/1/2023	\$0.00
Operating Reserve Fund Collections/Reductions - Fiscal Year 2023/24	<u>\$9,773.35</u>
Estimated Operating Reserve Fund Ending Balance - 6/30/2024	<b>\$9,773.35</b>
Estimated Capital Reserve Fund Beginning Balance - 7/1/2023	\$0.00
Capital Reserve Fund Collections/Reductions - Fiscal Year 2023/24	<u>\$41,535.61</u>
Estimated Capital Reserve Fund Ending Balance - 6/30/2024	<b>\$41,535.61</b>
<b>Total Reserve Balance</b>	<b>\$51,308.96</b>

### **Tax Zone 1 - Parkwood**

#### **Special Tax Summary**

<b>Fiscal Year 2023/24 Special Tax Rates Per EDU</b>		
<b>Maximum Special Tax Amount</b>	<b>Tax Zone 1 EDU's</b>	<b>Rate Per EDU</b>
\$298,348.18	299.00	\$997.82



## DESCRIPTION OF BUDGET ITEMS

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- **Police Services:** Costs associated with providing police services to residents and properties within the District.
- **Landscape Maintenance:** Includes the costs associated with the maintenance of street landscaping improvements, parks maintenance, including utilities, irrigation, trimming, mowing, fertilizing, etc., street trees, sound wall and fence maintenance, including repairs, painting and/or removal of graffiti.

Parks maintenance includes ball fields, playground equipment, basketball court, and volleyball court in Lots C and D.

Storm Drain Facilities include the costs of clearing debris from the storm drain basin/channels and other drainage facilities. Lot B serves as a detention basin as well as a park.

- **Street Lighting:** The costs associated with the ongoing maintenance and repair of the street lighting systems. Such items may include but are not limited to, wiring, bulbs, poles, etc.
- **Street Maintenance:** Includes the costs for regular sweeping, and maintenance and repairs as needed, including services such as slurry seal, chip seal, crack repair or overlays.
- **Administrative Costs:** Costs associated with individual City employees (City Clerk, City Council, City Manager, Finance Director, Finance Staff, City Engineer, etc.) who contribute time to the administration of the District, preparation of meetings, notices, etc., as well as paying bills for District expenses. Also includes costs associated with a financial engineering consultant to provide the formation and annual administration of the District, as well as collection costs for the County of Stanislaus for placement of the annual special taxes onto the tax roll and the generation of annual tax bills related thereto. The County charges \$75.00 per Agency, \$25.00 per District and \$0.20 per parcel. Each of the City's twenty Districts shares in the \$75.00 charge equally. The \$0.20 per parcels is added to the assessment amounts after they have been submitted to the County for inclusion on the Tax Roll.
- **Operating Reserve:** This item shows the amount collected for or reduced (used) from the District Operating Reserve Fund. The Operating Reserve will be considered fully funded when it reaches fifty percent (50%) of the annual direct costs. Once fully funded, estimated to be in five years, the Special Tax collections will be reduced by the annual Operating Reserve collection amount shown on the Budget page. Any additional collections for the Operating Reserve will only be to ensure the Operating Reserve remains fully funded.



- **Capital Replacement Reserve:** This item shows the amount collected for or reduced (used) from the District Capital Replacement Fund. This fund allows the District to collect funds for the major repair or replacement of improvements or facilities that cannot be collected during a single fiscal year. This includes such items such as playground equipment and other amenities in the community park, streetlight poles, sound walls, fencing, irrigation controllers and/or pumps, as well as major street repairs.



## RATE AND METHOD OF APPORTIONMENT

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A Special Tax applicable to each Assessor Parcel in the CFD shall be levied and collected according to the tax liability determined by the City of Hughson or its designee, through the application of this rate and method of apportionment of Special Tax. All of the property in the CFD, unless exempted by law or by the provisions hereof, shall be taxed for the purposes, to the extent, and in the manner herein provided, including property subsequently annexed to the CFD, unless otherwise provided for the annexed property.

The City of Hughson (the “City”) initiated proceedings to establish the Hughson Citywide Public Safety and Maintenance Services Community Facilities District, on November 28, 2022, by Resolution No. 22-XX (herein after referred to as “the District” or “CFD”) for the purpose of funding the ongoing operation, maintenance and servicing of certain improvements, as detailed in this Rate and Method of Apportionment of Special Tax (herein after referred to as the “RMA”).

Properties within the CFD’s future annexation area shall be annexed into the CFD as new development occurs, unless exempted by law or by the provisions set forth in Section E below. The CFD’s future annexation area shall be defined as the boundaries of the City. A boundary map showing the future annexation area, as well as all Parcels initially proposed to be within the CFD, are included in Exhibit A of this RMA. In compliance with the proceedings governing the formation of the CFD and according to the provisions of the adoption of this RMA, the Special Tax is proposed to be levied on each taxable Parcel within the boundaries of the CFD, except those exempted by law or the express provisions set forth in this RMA.

### A. GENERAL DEFINITIONS

The terms hereinafter set forth have the following meaning:

**“Acre” or “Acreage”** means the land area of an Assessor’s Parcel as shown on County records, such as an Assessor’s Parcel Map or secured roll data, or if the land area is not shown on an Assessor’s Parcel Map, the land area shown on the applicable Final Subdivision Map, condominium plan, record of survey, or other recorded document creating or describing the Parcel. If the preceding maps for a land area are not available, the Acreage of such land area may be determined utilizing available spatial data and Geographic Information Systems (GIS). The square footage of an Assessor’s Parcel is equal to the Acreage multiplied by 43,560.

**“Act”** means the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Division 2 of Title 5 of the Government Code of the State of California.



**“Administrative Expenses”** means the actual or reasonably estimated costs incurred by the Administrator acting for and on behalf of the CFD, to determine, levy and collect the Special Taxes, in responding to public inquiries regarding the Special Taxes, including general administrative costs, fees of consultants and legal counsel providing services related to the administration of the CFD; any amounts estimated or advanced by the City or CFD for any other administrative purposes; and, any other costs required to administer the CFD as determined by the Administrator.

**“Administrator”** means an official of the City, or designee thereof, responsible for determining the Special Tax Requirement and providing for the levy and collection of the Special Taxes.

**“Annual Tax Escalation Factor”** means in each Fiscal Year following the Base Year, an increase in the Maximum Special Tax in effect in the prior Fiscal Year by an amount equal to the Consumer Price Index (CPI), for San Francisco-Oakland-Hayward, All Urban Consumers (CPI-U) (month of February) as published by the Department of Labor’s Bureau of Labor Statistics, plus three percent (3.0%). If the CPI listed above is no longer published, the Administrator shall select a new index that is reasonably comparable to the CPI that is no longer published for purposes of calculating the Annual Tax Escalation Factor.

**“Annual Special Tax”** means the total Special Tax actually levied against all Taxable Properties in the CFD for a particular fiscal year.

**“Assessor’s Parcel”** means a lot or parcel shown on a Stanislaus County Assessor’s Parcel Map with an assigned Assessor’s Parcel Number.

**“Assessor’s Parcel Map”** means an official map of the County Assessor of the County designating lots or parcels by an Assessor’s Parcel Number.

**“Assessor’s Parcel Number” or “APN”** means a unique number assigned to an Assessor’s Parcel by the County Assessor for purposes of identifying a property.

**“Authorized Services”** means those authorized maintenance activities and/or services, and expenses that may be funded by the CFD pursuant to the Act as amended, including, without limitation, those services authorized to be funded by the CFD as set forth in the documents adopted by the City Council at the time the CFD was formed.

**“Base Year”** means the Fiscal Year beginning July 1, 2023 and ending June 30, 2024.



**“Building Permit”** means a single permit or set of permits required to construct an entire residential or non-residential structure, which is issued by the City prior to July 1<sup>st</sup> preceding the Fiscal Year in which the Special Tax is being levied.

**“Capital Replacement Reserve Fund”** means a fund that shall be maintained for the CFD for each Fiscal Year to provide for the accumulation and holding of funds for long-term capital projects, asset replacement, or other large anticipated expenditures.

**“CFD”** means the City of Hughson Citywide Public Safety and Maintenance Services Community Facilities District.

**“City”** means the City of Hughson.

**“City Council”** means the City Council of the City of Hughson, acting as the legislative body of the CFD.

**“City Manager”** means the City Manager of the City of Hughson or his or her designee.

**“Commercial Property”** means, in any fiscal year, all Developed Property for which a building permit or use permit has been issued for a commercial (non-residential) establishment which includes, but is not limited to, retail stores, clothing stores, book stores, convenience stores, drug stores, professional services (i.e., barber shops, dry cleaners), restaurants, supermarkets, hospitals, movie theaters, appliance and electronics stores, home supply stores, auto parts stores, and other retail uses. The City shall make the determination if a Parcel is Commercial Property.

**“County”** means the County of Stanislaus, State of California.

**“County Assessor”** means the Assessor of the County or his or her designee.

**“County Recorder”** means the Recorder of the County or his or her designee.

**“Developed Property”** means all Taxable Property for which a building permit was issued prior to the July 1<sup>st</sup> preceding the Fiscal Year in which the Special Tax is being levied.

**“Dwelling Unit”** means each separate residential dwelling unit that comprises an independent facility capable of conveyance or rental separate from adjacent residential dwelling units.

**“Exempt Property”** means all Assessors’ Parcels that are exempt from the Special Tax pursuant to law or Section E herein.



**“Final Subdivision Map”** means a subdivision of property creating residential or non-residential buildable lots by recordation of a Final Subdivision Map or Parcel Map pursuant to the Subdivision Map Act (California Government Code Section 66410 et seq.), or recordation of a condominium plan pursuant to the California Civil Code 1352, that creates individual lots for which building permits may be issued without further subdivision.

**“Fiscal Year”** means the period starting July 1<sup>st</sup> and ending on the following June 30<sup>th</sup>.

**“Industrial Property”** means, in any Fiscal Year, a Developed Property for which a building permit or use permit has been issued for construction of an industrial, manufacturing, or warehousing structure. The City shall make the determination if a Parcel is Industrial Property.

**“Land Use Class”** means any of the parcel types listed in Table 1.

**“Multi-Family Property”** means, in any Fiscal Year, all Parcels of Developed Property for which a building permit or use permit has been issued for construction of a residential structure with five (5) or more Units that share a single Assessor’s Parcel number, all of which are offered for rent to the general public and cannot be purchased by individual homebuyers.

**“Maximum Special Tax”** means the Maximum Special Tax, determined in accordance with Section C herein, which may be levied in any Fiscal Year on any Assessor’s Parcel of Taxable Property.

**“Operating Fund”** means a fund that shall be maintained for the CFD each Fiscal Year to provide for the maintenance and administration of the CFD, including a reserve fund to pay for delinquencies in the payment of Special Taxes.

**“Operating Fund Requirement”** means, for any Fiscal Year, an amount equal to costs associated with providing the Authorized Services and managing the CFD. In no event shall the Operating Fund Requirement in any Fiscal Year exceed the Special Tax Requirement for the CFD, without crediting the property owner’s annual special tax levy in an amount equal to the funds available that are in excess of the Special Tax Requirement.

**“Operating Reserve Fund”** means the amount held in a fund that is used to pay for delinquencies in the payment of Special Taxes and any insufficiencies in funds to pay for the maintenance and administrative costs of the CFD for the first half of a Fiscal Year.



**“Proportionately”** means for Taxable Property that the ratio of the Annual Special Tax to the Maximum Special Tax is equal for all Taxable Property levied within each parcel classification as identified in Table 1 herein and within the boundaries of the CFD.

**“Public Property”** means any property within the boundaries of the CFD which (i) is owned by a public agency or expected to be owned by the federal government, State of California, County, City, or other public agency at the time of formation, (ii) has been irrevocably offered for dedication to a public agency, or (iii) is designated with specific boundaries and acreage on a Final Subdivision Map as property which will be owned by a public agency. For purposes of this definition, a public agency includes the federal government, the State of California, the County and/or the City.

**“Single Family Attached Property”** means, in any Fiscal Year, all Parcels of Developed Property for which a building permit was issued for construction of a residential structure consisting of two (2) or more Units that share common walls, have separate Assessor’s Parcel numbers assigned to them, and are offered as for-sale Units, including such residential structures that meet the statutory definition of a condominium contained in California Civil Code Section 1351.

**“Single Family Detached Property”** means, in any Fiscal Year, all Parcels of Developed Property for which a building permit was issued for construction of a Unit that does not share a common wall with another Unit.

**“Special Tax”** means the Special Tax levied in each Fiscal Year on each Assessor’s Parcel of Taxable Property to fund the Special Tax Requirement.

**“Special Tax Requirement”** means the amount, as determined by the Administrator for any Fiscal Year, to: (i) pay the costs of providing the Authorized Services during such fiscal year, (ii) pay Administrative Expenses associated with the Special Tax, (iii) establish or replenish the Operating Reserve Fund, (iv) establish or replenish the Capital Replacement Reserve Fund, (v) pay incidental expenses related to the Authorized Services as authorized pursuant to the Act, (vi) fund the shortfall, if any, in the Special Tax revenues collected in the preceding Fiscal Year where such shortfall resulted from delinquencies in the payment of Special Taxes in such Fiscal Year that exceeded the estimated Special Tax delinquency amount included in the Special Tax Requirement for the preceding Fiscal Year, less (vii) any excess funds available in the Operating Reserve Fund, Capital Replacement Reserve Fund, or other funds associated with the CFD as determined by the Administrator.

**“State”** means the State of California.



**“Taxable Property”** means all of the Assessor’s Parcels within the boundaries of the CFD that are not Exempt Property.

**“Tax Zone”** means a mutually exclusive geographic area within which the Special Tax may be levied pursuant to this RMA. Additional Tax Zones may be created when property is annexed to the CFD and a separate Maximum Special Tax shall be identified for property within the new Tax Zone at the time of such annexation. All of the property within the proposed boundaries of the CFD and at the time of formation of the CFD are in Tax Zone No. 1.

**“Tax Zone No. 1”** means all property located within the area identified as Tax Zone No. 1, shown in Exhibit A of this RMA, subject to the interpretation of the Administrator as described in Section B.

**“Undeveloped Property”** means, in any Fiscal Year, all parcels of Taxable Property in the CFD for which a building permit for new construction was not issued prior to July 1<sup>st</sup> of the preceding Fiscal Year.

**“Unit”** means an individual single-family detached unit, or an individual attached residential unit within a duplex, triplex, four-plex, townhome, condominium, or apartment structure.

## **B. ASSIGNMENT TO CATEGORIES OF SPECIAL TAX**

Each Fiscal Year, beginning with Fiscal Year 2023/24, using the definitions above, each Assessor’s Parcel within the boundaries of the CFD shall be classified by the Administrator as Taxable Property or Exempt Property. Commencing with Fiscal Year 2023/24 and for each subsequent fiscal year, Taxable Property shall be subject to the levy of Special Taxes pursuant to Section C below. In addition, in each such Fiscal Year, each Assessor’s Parcel of Taxable Property shall be further classified by the Administrator as Developed Property or Undeveloped Property.

## **C. MAXIMUM SPECIAL TAX RATE**

The Maximum Special Tax for any Assessor’s Parcel classified as Developed Property or Undeveloped Property shall be determined by reference to the following table:



**TABLE 1**  
**Tax Zone No. 1 – Parkwood**  
**Maximum Special Tax Rates By Land Use**  
**Citywide Public Safety and Maintenance Services**  
**Community Facilities District**  
**Fiscal Year 2023/24**

<b>Taxable Property Type</b>	<b>Maximum Special Tax</b>
Single-Family Attached	\$997.82 per parcel
Single-Family Detached	\$997.82 per parcel
Multi-Family Residential	\$598.70 per unit
Condominium-Townhome	\$997.82 per parcel/unit
Commercial	\$3,991.28 per acre
Industrial	\$1,995.64 per acre
Undeveloped	\$249.46 per acre (1 acre minimum)

Multi-Family parcels are taxed at 60% of a single-family or condominium rate.  
Commercial parcels are taxed at four times the single-family rate, per acre.  
Industrial parcels are taxed at two times the single-family rate, per acre.  
Undeveloped parcels are taxed at 25% of a single-family rate, per acre.

Under no circumstances will the Special Tax levied against any Assessor’s Parcel be increased because of delinquency or default by the owner of any other Assessor’s Parcel within the CFD by more than ten percent (10%) above what such Special Tax would have been in the absence of delinquencies.

**Escalation of the Maximum Special Tax**

Each Fiscal Year following the Base Year, the Maximum Special Tax shall be increased in accordance with the Annual Tax Escalation Factor as provided in this Rate and Method of Apportionment of Special Tax.



**D. METHOD OF APPORTIONMENT OF SPECIAL TAX**

Commencing with Fiscal Year 2023/24, and for each subsequent Fiscal Year, the Administrator shall levy the Special Tax at the rates established in Section C on all Taxable Property within the boundaries of the CFD until the total amount of Special Tax levied equals the Special Tax Requirement. The Special Tax shall be levied each Fiscal Year as follows:

1. The Special Tax shall be levied proportionately on each Assessor's Parcel of Developed Property up to one hundred percent (100%) of the applicable Maximum Special Tax.
2. If additional monies are needed to satisfy the Special Tax Requirement after Developed Property has been levied one hundred percent (100%) of their Maximum Special Tax, the remaining amount needed to satisfy the Special Tax Requirement shall be levied proportionately on each Assessor's Parcel of Undeveloped Property at up to one hundred percent (100%) of the Maximum Special Tax.

**E. EXEMPTIONS**

The Administrator shall classify the following as Exempt Property: Public Property and Assessor's Parcels with public or utility easements making impractical their utilization for any use other than the purposes set forth in the easement.

If the use of an Assessor's Parcel changes so that such Assessor's Parcel is no longer eligible to be classified as Exempt Property under this section, such Assessor's Parcel shall be deemed to be Taxable Property.

**F. PREPAYMENT OF SPECIAL TAX**

The Maximum Special Tax may not be prepaid and shall continue to be levied in accordance with Section D of this Rate and Method of Apportionment of Special Tax on an annual basis on all Taxable Property in the CFD for the purpose of funding the ongoing Authorized Services.



## **G. TERM OF THE SPECIAL TAX**

Parcels in the CFD will remain subject to the Special Tax in perpetuity, unless and until such time the City determines the revenues are no longer needed, in which case the Special Tax shall cease to be levied and the City shall direct the County Recorder to record a Notice of Cessation of Special Tax. Such notice will state that the obligation to pay the Special Tax has ceased and that the lien imposed by the Notice of Special Tax Lien is extinguished. The Notice of Cessation of Special Tax shall additionally identify the book and page of the Book of Maps of Assessment and Community Facilities Districts where the map of the boundaries of the CFD is recorded.

## **H. REVIEW/APPEALS**

The Administrator may establish such procedures, as it deems necessary to undertake the review of any such appeal of any property owner. The Administrator shall interpret this Rate and Method of Apportionment of Special Tax and make determinations relative to the annual administration of the Special Tax and any property owner appeals, as herein specified.

Any property owner who believes that the amount of the Special Tax levied on their Assessor's Parcel is in error shall first consult with the Administrator regarding such error. If following such consultation, the Administrator determines that an error has occurred, the Administrator or designee shall take any of the following actions to correct the error:

- Amend the Special Tax levy on the property owner's Assessor's Parcel(s) for the current fiscal year,
- Require the CFD to reimburse the property owner for the amount of an overpayment to the extent of available CFD funds, or,
- Grant a credit against, eliminate or reduce the future Special Taxes on the property owner's Assessor's Parcel(s) for overpayment for the current fiscal year.



If following such consultation and action (if any by the Administrator), the property owner believes such error still exists, such person may file a written notice with the City Manager appealing the amount of the Special Tax levied on such Assessor's Parcel. If following such consultation and action (if any by the City Manager), the property owner believes such error still exists, such person may file a written notice with the City Council appealing the amount of the Special Tax levied on such Assessor's Parcel.

If the City Manager, City Council or designee determines an error exists, the CFD Administrator shall take any actions as described in this section, in order to correct the error. The decision of the City Council shall be final and binding to all persons.

#### **I. INTERPRETATIONS**

The City reserves the right to make minor administrative and technical changes to this document that does not materially affect the Rate and Method of Apportionment of Special Taxes. In addition, the interpretation and application of any section of this document shall be left to the City's discretion. The City may make interpretations by ordinance or resolution for purposes of clarifying any vagueness or ambiguity in this Rate and Method of Apportionment of Special Tax.

#### **J. MANNER OF COLLECTION**

The annual Special Tax shall be collected in the same manner and at the same time as ordinary ad valorem property taxes; provided, however, that the Administrator, may, at the sole discretion of the City, directly bill the Special Tax, and may collect the Special Taxes at a different time or in a different manner as necessary to meet the financial obligations of the CFD or as otherwise determined appropriate by the Administrator.

#### **K. REPEAL OF SPECIAL TAX**

If the levy of the Special Tax is repealed by initiative or any other action participated in by the property owners of Assessor's Parcels in the CFD, the City shall cease to levy the Special Tax and shall cease to be obligated to provide the Authorized Services for which the Special Tax was levied. The obligation to provide the Authorized Services previously funded by the repealed Special Tax shall become the joint obligations of the property owners of Assessor's Parcels within the CFD.

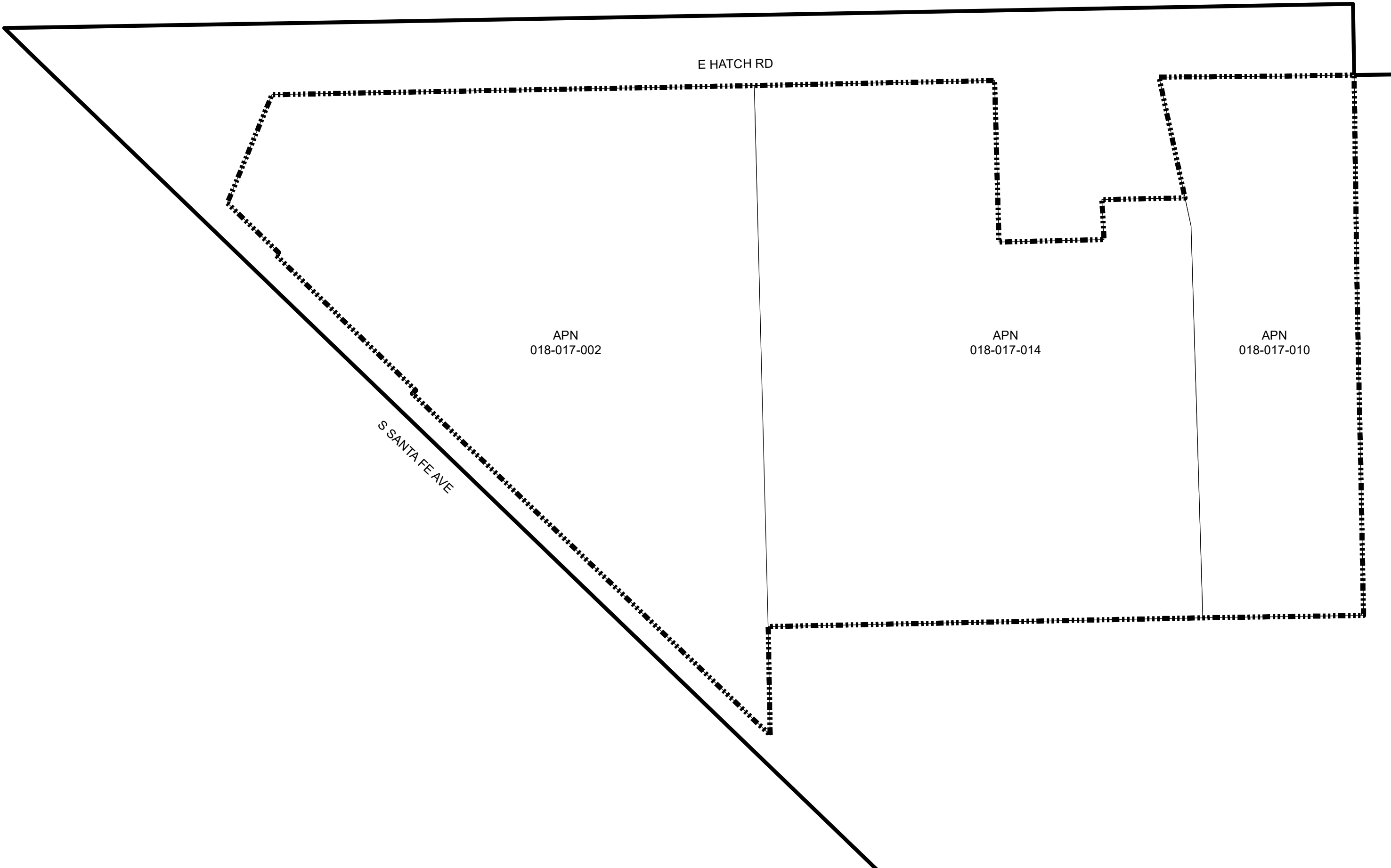


# APPENDIX A

A copy of the Boundary Map for the CFD is shown on the following page.



PROPOSED BOUNDARY OF  
CITY OF HUGHSON  
PUBLIC SAFETY AND MAINTENANCE SERVICES  
COMMUNITY FACILITIES DISTRICT  
COUNTY OF STANISLAUS, STATE OF CALIFORNIA



CLERK'S MAP STATEMENT

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF HUGHSON THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2022.

CITY CLERK OF THE CITY OF HUGHSON

CLERK'S MAP STATEMENT

I HEREBY CERTIFY THAT THE AREA SHOWN ON THIS MAP OF THE PROPOSED COMMUNITY FACILITIES DISTRICT, PUBLIC SAFETY AND MAINTENANCE SERVICES, CITY OF HUGHSON, COUNTY OF STANISLAUS, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF HUGHSON AT A REGULARLY SCHEDULED MEETING THEREOF, HELD ON THE \_\_\_\_ DAY OF \_\_\_\_\_ 2022. BY ITS RESOLUTION NO. \_\_\_\_\_.

CITY CLERK OF THE CITY OF HUGHSON

COUNTY RECORDER'S FILING STATEMENT

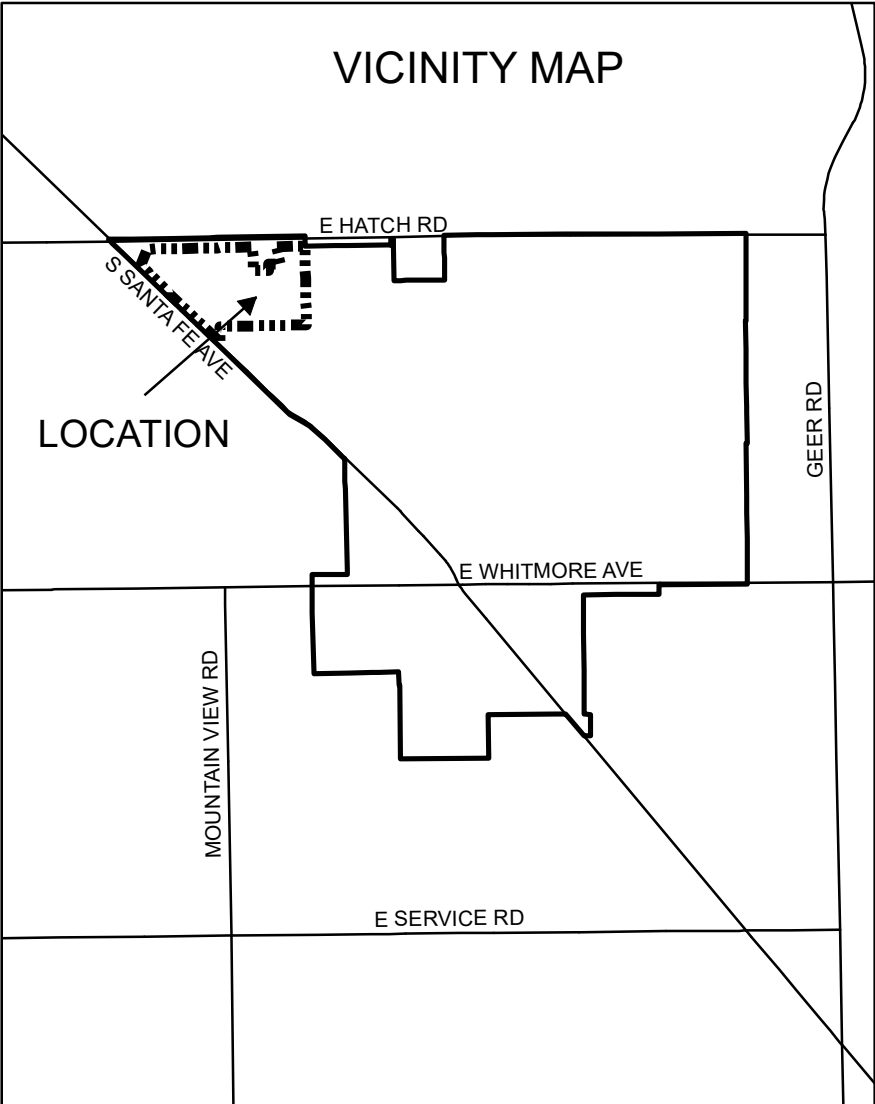
FILED THIS \_\_\_\_ DAY OF \_\_\_\_\_ 2022. AT THE HOUR OF \_\_\_\_\_ O'CLOCK \_\_\_\_ M. IN BOOK \_\_\_\_\_ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS PAGE NO. \_\_\_\_ IN THE OFFICE OF THE COUNTY RECORDER IN THE COUNTY OF STANISLAUS, STATE OF CALIFORNIA.

DONNA LINDER  
CLERK RECORDER OF THE COUNTY OF STANISLAUS, CALIFORNIA

BY: \_\_\_\_\_  
DEPUTY

FILE: \_\_\_\_\_

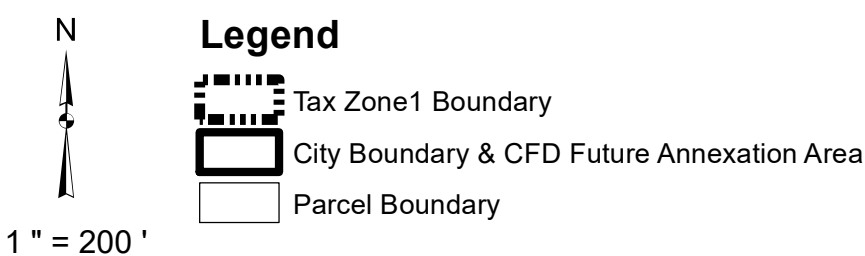
REFERENCE THE STANISLAUS COUNTY ASSESSOR'S MAPS FOR A DETAILED DESCRIPTION OF PARCEL LINES AND DIMENSIONS



PROPOSED BOUNDARY MAP

City of Hughson  
Community Facilities District  
Public Safety and Maintenance Services  
County of Stanislaus, California

Sheet 1 of 1



HARRIS & ASSOCIATES  
1401 WILLOW PASS RD, SUITE 500  
CONCORD, CALIFORNIA 94520  
800-827-4901



# APPENDIX B

The 2023/24 Special Tax Roll for the District is shown below. At the time of the writing of this Report, the development had not been split to its individual APN's. Lot numbers are shown based on the tract map provided by the developer.

## Fiscal Year 2023/24 Special Tax Roll

Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
1	018-017-002	KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
2	018-017-010	KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
3	018-017-014	KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
4		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
5		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
6		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
7		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
8		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
9		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
10		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
11		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
12		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
13		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
14		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
15		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
16		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
17		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
18		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
19		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
20		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
21		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
22		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
23		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
24		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
25		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
26		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
27		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
28		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
29		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
30		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
31		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
32		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
33		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
34		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
35		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
36		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
37		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
38		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
39		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
40		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
41		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
42		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
43		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
44		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
45		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
46		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
47		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
48		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
49		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
50		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
51		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
52		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
53		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
54		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
55		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
56		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
57		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
58		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
59		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
60		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
61		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
62		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
63		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
64		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
65		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
66		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
67		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
68		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
69		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
70		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
71		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
72		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
73		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
74		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
75		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
76		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
77		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
78		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
79		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
80		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
81		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
82		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
83		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
84		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
85		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
86		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
87		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
88		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
89		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
90		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
91		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
92		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
93		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
94		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
95		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
96		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
97		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
98		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
99		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
100		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
101		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
102		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
103		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
104		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
105		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
106		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
107		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
108		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
109		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
110		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
111		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
112		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
113		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
114		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
115		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
116		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
117		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
118		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
119		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
120		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
121		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
122		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
123		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
124		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
125		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
126		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
127		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
128		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
129		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
130		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
131		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
132		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
133		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
134		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
135		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
136		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
137		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
138		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
139		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
140		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
141		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
142		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
143		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
144		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
145		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
146		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
147		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
148		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
149		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
150		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
151		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
152		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
153		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
154		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
155		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
156		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
157		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
158		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
159		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
160		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
161		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
162		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
163		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
164		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
165		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
166		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
167		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
168		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
169		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
170		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
171		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
172		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
173		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
174		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
175		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
176		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
177		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
178		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
179		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
180		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
181		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
182		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
183		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
184		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
185		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
186		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
187		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
188		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
189		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
190		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
191		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
192		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
193		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
194		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
195		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
196		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
197		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
198		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
199		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
200		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
201		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
202		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
203		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
204		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
205		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
206		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
207		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
208		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
209		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
210		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
211		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
212		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
213		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
214		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
215		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
216		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
217		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
218		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
219		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
220		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
221		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
222		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
223		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
224		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
225		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
226		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
227		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
228		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
229		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
230		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
231		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
232		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
233		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
234		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
235		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
236		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
237		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
238		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
239		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
240		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
241		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
242		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
243		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
244		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
245		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
246		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
247		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
248		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
249		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
250		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
251		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
252		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
253		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
254		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
255		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
256		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
257		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
258		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
259		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
260		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
261		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
262		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
263		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
264		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
265		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
266		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
267		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
268		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
269		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
270		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
271		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
272		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
273		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
274		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
275		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
276		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
277		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
278		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
279		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
280		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
281		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
282		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
283		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
284		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
285		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
286		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
287		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
288		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
289		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82



Lot No.	CURRENT APN	OWNER	PARCEL TYPE	UNITS	EDU FACTOR	TOTAL EDU'S	MAX. RATE PER EDU	2023/24 MAXIMUM SPECIAL TAX
290		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
291		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
292		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
293		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
294		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
295		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
296		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
297		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
298		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
299		KB Home, North Bay	SFV	1.00	1.00	1.00	\$997.82	\$997.82
A		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
B		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
C		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
D		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
E		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
F		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
G		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
H		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
I		KB Home, North Bay	EXE	0.00	0.00	0.00	\$997.82	\$0.00
		<b>TOTALS:</b>		<b>299.00</b>		<b>299.00</b>		<b>\$298,348.18</b>



## APPENDIX C

The owner of the Parkwood development has signed and submitted a Petition to Form a CFD with Waivers. A copy of the signed Petition is shown on the following page.



PETITION  
(WITH WAIVERS)  
TO ESTABLISH A COMMUNITY FACILITIES DISTRICT

1. Petitioner. This petition is submitted by the persons (whether one or more) identified below as, or for, the fee title owners of the parcel(s) of land identified below. By submitting this petition, such persons warrant to the City of Hughson ("City") that they are authorized to execute this petition.
2. Proceedings Requested. The Petitioner asks that the City Council of the City undertake and complete proceedings under Government Code Section 53319 to create a community facilities district to be designated "City of Hughson, Citywide Public Safety and Maintenance Services Community Facilities District, (the "CFD")", and to levy special taxes therein.
3. Boundaries of CFD. The Petitioner asks that the territory to be included in the boundaries of the CFD consist of the parcel(s) of land identified below.
4. Purpose of CFD. The Petitioner asks that the CFD be created and the special taxes be levied to pay for the maintenance of streets, streetlights, sidewalks, storm drain and drainage facilities, parks, landscaping, water and sewer lines, and a community pool, along with police and emergency services, and to pay other costs as shall be more fully identified during the course of the legal proceedings to form the CFD.
5. Elections. The Petitioner asks that the election, to be held under the Act to authorize the special taxes and to establish any appropriations limits for the CFD, be consolidated into a single election, that the election be conducted by the City and its officials using mailed or hand-delivered ballots, and that such ballots be opened and canvassed and the results certified at the same meeting of the City Council as the public hearing on the CFD under the Act or as soon thereafter as possible.
6. Waivers. To expedite the completion of the proceedings for the CFD, all notices of hearings and all notices of election, applicable waiting periods under the Act for special elections, and all ballot analysis or arguments for the election are hereby waived.

By executing this petition, the person(s) below agree(s) to all of the above.

The Property that is subject to this petition is identified as Stanislaus County Assessor's Parcel Number(s):

**018-017-002; 018-017-010 & 018-017-014**

The Property consists of a total of **56.04 acres**.

The record owner of the Property is: **KB Home North Bay**

Executed on: 8/30, 2022

By: *julie nebozuk*

Title: Senior Project Manager

The address to which the ballots for the CFD elections are to be sent:

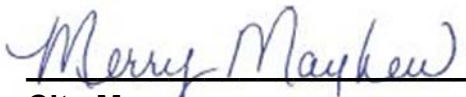
KB Home North Bay  
Attn: Julie Nebozuk  
4830 Business Center Drive, Suite 150  
Fairfield, CA 94534





## CITY COUNCIL AGENDA ITEM NO. 5.2

### SECTION 5: PUBLIC HEARING

**Meeting Date:** January 23, 2023  
**Subject:** Introduce and Waive the First Reading of Ordinance No. 2023-01, Amending the Hughson Municipal Code Pertaining to Title 15 Building Code Regulations  
**Presented By:** Carla C. Jauregui, Community Development Director  
**Approved By:**   
City Manager

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#### **Recommendation:**

Introduce and waive the first reading of Ordinance No. 2023-01, amending Title 15 Building and Construction of the Hughson Municipal Code, and adopting by reference, the California Building Standards, 2022 Edition, Title 24 of the California Code of Regulations, with amendments and other uniform codes.

#### **Background & Overview:**

The model codes update every three years to improve and adjust to the newest materials, methods of construction, and technological advances in the industry. The California Building Standards Commission's adoption of the 2022 California Building Code (CBC) comes after a comprehensive multi-state agency and stakeholder update of the 2019 California Building Code.

The objective is to produce a practical building code that ensures public safety first and foremost while implementing the most efficient technology available to conserve the State's natural resources and energy use. California's Building Code applies to every commercial and residential structure in the State.

The new 2022 CBC contains twelve parts that incorporate public health, life safety, and general welfare standards used in the design and construction of buildings in California. These parts incorporate the latest national standards in the International Building, Residential and Fire Codes, California Green Building Code, California Energy Code, National Electrical Code and the Uniform Mechanical and Plumbing Codes.



Health and Safety Code Section 18941.5 mandates that the Building Standards contained in the 2022 CBC shall be effective 180 days after publication by the California Building Standards Commission. If these codes are not adopted by Ordinance, they become effective by default without any amendments. The proposed effective date for the City of Hughson will be January 1, 2023. As part of the adoption process, this department has made every effort to notify all affected parties of the proposed changes.

**Discussion:**

Along with the usual Energy and Green code updates, below are a few noteworthy updates:

- Permit expiration has been extended from 6 months to 12 months. Every permit shall remain valid if the work on the site is commenced within 12 months after its issuance.
- Aging-in-place design and fall prevention have been added for new residential construction. Added to address specific design elements to facilitate access to operational features and to allow people to stay longer in their homes as they age.
- Expanding Electric Vehicle Charging requirements to install EV charging receptacles and chargers in new multifamily dwellings, hotels, and motels.

The second reading of the Ordinance will return to Council on February 14, 2023.

**Fiscal Impact:**

There are no fiscal impacts with the adoption of this ordinance and code amendment.



**CITY OF HUGHSON  
CITY COUNCIL  
ORDINANCE NO 2023-01**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF HUGHSON  
AMENDING THE HUGHSON MUNICIPAL CODE PERTAINING TO TITLE 15  
BUILDING CODE REGULATIONS**

**WHEREAS**, the City Council of the City of Hughson wishes to provide the highest level of building safety measures possible to its citizens; and

**WHEREAS**, Section 17922 of the California Health & Safety Code establishes Title 24 of the California Code of Regulations, also referred to as the California Building Code (“CBC”), as the Statewide Uniform Building Code; and

**WHEREAS**, the City Council of the City of Hughson desires to update Title 15 of the Hughson Municipal Code in order conform to the State of California’s newly updated 2022 CBC as required by law.

**NOW, THEREFORE THE CITY COUNCIL OF THE CITY OF HUGHSON  
DOES ORDAIN AS FOLLOWS:**

**Section 1:** That Title 15, Building and Construction of the City of Hughson Municipal Code be amended as stated in Attachment “A”, attached hereto, and made a part hereof by this reference.

**Section 2: Purpose and Authority:** The purpose of this Ordinance is to adopt by reference the 2022 edition of the California Building Standards Code, Title 24, Parts 1, 2, 2.5, 3, 4, 5, 6, 8, 9, 10, 11, & 12 of the California Code of Regulations, subject to the definitions, clarifications, and the amendments set forth in this Ordinance. The purpose of this Ordinance is also to provide minimum requirements and standards for the protection of the public safety, health, property and welfare of the City of Hughson. This Ordinance is adopted under the authority of Government Code Subsection 50022.2 and Health and Safety Code Section 18941.5.

**Section 3: Intent:** This ordinance is not intended to impose, and shall not be construed or given effect in a manner that imposes, upon the city or any officer or employee thereof, a mandatory duty of care toward persons and property within or without the city so as to provide a basis of civil liability for damages, except as otherwise imposed by law.

**Section 4: Affect:** If any provision of this ordinance or application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of the ordinance which can be given effect without the invalid provision or application, and to this end the provisions of this ordinance are severable. The city council hereby declares that it would have adopted this ordinance irrespective of the validity of any particular portion thereof.



**Section 5: Effective Date and Publication:** This Ordinance shall become effective 30 days after its final passage and adoption, provided it is published in a newspaper of general circulation at least fifteen (15) days prior to its effective date.

The foregoing Ordinance was introduced, and the title thereof read the regular meeting of the City Council of the City of Hughson held on January 23, 2023, and by a vote of the Council members present, further reading was waived.

On motion of councilperson\_\_\_\_\_, seconded by councilperson \_\_\_\_\_, the second reading of the foregoing ordinance was waived, and this ordinance was duly passed by the City Council of the Hughson City Council at a regular meeting thereof held on **February 14, 2023**, by the following vote:

**AYES:**

**NOES:**

**ABSTENTIONS:**

**ABSENT:**

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**GEORGE CARR, Mayor**

**ATTEST:**

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**Ashton Gose, City Clerk**



## Attachment “A”

### Article I. General

#### **15.04.010 Purpose.**

The purpose of this title is to provide for the administration and enforcement of the California Code of Regulations Title 24 codes, the technical codes, and other approved codes adopted by the city of Hughson as part of this title. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.011 Scope.**

The provisions of this title shall serve as the administrative, organizational and enforcement rules and regulations for the California Code of Regulations Title 24 which regulate site preparation and construction, alteration, moving, demolition, repair, use and occupancy of buildings, structures and building service equipment within the city. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.012 Compliance with title provisions required.**

It shall be unlawful for any person to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, occupy or maintain any building or structure in the city, or cause or permit or suffer the same to be done, in violation of this title or in violation of any of the provisions of the codes adopted hereunder. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.013 Cross-references to technical code.**

The provisions of this chapter and the Title 24 codes contain cross-references to the provisions of the international codes, the uniform codes or other approved codes promulgated by industry authorities in order to facilitate reference and comparison to those provisions. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.014 Application to the city.**

The name “city of Hughson” is inserted in any and all blank spaces provided in the California Building Code for the name of the city adopting such code, and wherever the word “city” as “jurisdiction” appears in the code or is otherwise used, it shall mean and refer to the city of Hughson. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)



#### **15.04.015 Unsafe buildings, structures and equipment.**

Buildings, structures and equipment that are or hereafter become unsafe, unsanitary or deficient because of inadequate means of egress, inadequate light and ventilation, or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed unsafe. A vacant structure that is not secured against entry shall be deemed unsafe.

All such unsafe buildings, structures or equipment are hereby declared to be public nuisances and shall be abated by repair, rehabilitation, demolition or removal in accordance with the authorities and procedures set forth in Chapter [1.17](#) HMC. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **Article II. Organization and Enforcement**

#### **15.04.020 Powers and duties of building official.**

A. The building official is hereby authorized and directed to enforce all the provisions of this code. For such purposes, the building official shall have the powers of a law enforcement officer.

B. The building official shall have the power to render interpretations of this code and to adopt and enforce rules and supplemental administrative regulations to clarify the application of its provisions. Such interpretations, rules and regulations shall be in conformance with the intent and purpose of this code.

C. The city hereby delegates the enforcement of building standards relating to fire and panic safety and other regulations of the State Fire Marshal as they relate to Group R, Division 3 dwellings, as described in Section 310.1 of Part 2 of the California Building Standards Code, to the chief building official of the city, or his or her authorized representative.

D. In accordance with prescribed procedures and with the approval of the appointing authority, the building official may appoint such number of technical officers and inspectors and other employees as shall be authorized from time to time. The building official may deputize such inspectors or employees as may be necessary to carry out the functions of the code enforcement agency.

E. Whenever any work is being done contrary to the provisions of this code, or other pertinent laws or ordinances implemented through the enforcement of this code, the building official may order the work stopped by notice in writing served on any persons engaged in the doing or causing of such work to be done, and any such persons shall forthwith stop such work until authorized by the building official to proceed with the work.

F. The building official has the authority and powers necessary to determine whether a violation of the code exists and the authority to take appropriate action to gain compliance with the provisions of this code and applicable state codes. These powers include the power to issue administrative citations, notice and orders, correction notices, stop work orders and civil



penalties and administrative fines authorized under Chapter [1.17](#) HMC. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.021 Right of entry.**

When it is necessary to make an inspection to enforce the provisions of this code, or when the building official has reasonable cause to believe that there exists in a building or upon a premises a condition that is contrary to or in violation of this code that makes the building or premises unsafe, dangerous or hazardous, the building official may enter the building or premises at reasonable times to inspect or to perform the duties imposed by this code; provided, that if such building or premises be occupied that credentials be presented to the occupant and entry requested. If such building or premises be unoccupied, the building official shall first make a reasonable effort to locate the owner or other person having charge or control of the building or premises and request entry. If entry is refused, the building official shall have recourse to the remedies provided by law to secure entry. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.022 Occupancy violations.**

Whenever any building or structure or equipment therein regulated by this code is being used contrary to the provisions of this code, the building official may order such use discontinued and the structure, or portion thereof, vacated by notice served on any person causing such use to be continued. Such person shall discontinue the use within the time prescribed by the building official after receipt of such notice to make the structure, or portion thereof, comply with the requirements of this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.023 Liability.**

This code shall not be construed to relieve from or lessen the responsibility of any person owning, operating or controlling any building or structure for any damages to persons or property caused by defects, nor shall the code enforcement agency or its parent jurisdiction be held as assuming any such liability by reason of the inspections authorized by this code or any permits or certificates issued under this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.024 Modifications.**

When there are practical difficulties involved in carrying out the provisions of this code, the building official may grant modifications for individual cases. The building official shall first find that a special individual reason makes the strict letter of this code impractical, and that the modification is in conformance with the intent and purpose of this code and that such modification does not lessen any fire-protection requirements or any degree of structural integrity. The details of any action granting modifications shall be recorded and entered in the files of the code enforcement agency. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)



#### **15.04.025 Alternate materials, alternate design, and methods of construction.**

The provisions of this code are not intended to prevent the use of any material, alternate design or method of construction not specifically prescribed by this code, provided any alternate has been approved and its use authorized by the building official.

The building official may approve any such alternate, provided the building official finds that the proposed design is satisfactory and complies with the provisions of this code and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in suitability, strength, effectiveness, fire resistance, durability, safety and sanitation.

The building official shall require that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding its use. The details of any action granting approval of an alternate shall be recorded and entered in the files of the code enforcement agency. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.026 Tests.**

Whenever there is insufficient evidence of compliance with any of the provisions of this code or evidence that any material or construction does not conform to the requirements of this code, the building official may require tests as proof of compliance to be made at no expense to this jurisdiction.

Test methods shall be as specified by this code or by other recognized test standards. If there are no recognized and accepted test methods for the proposed alternate, the building official shall determine test procedures.

All tests shall be made by an approved agency. Reports of such tests shall be retained by the building official for the period required for the retention of public records. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.027 Cooperation of other officials and officers.**

The building official may request, and shall receive, the assistance and cooperation of other officials of this jurisdiction so far as is required in the discharge of the duties required by this code or other pertinent law or ordinance. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.028 Violation – Penalties.**

Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, enlarges, alters, repairs, moves, improves, removes, converts, demolishes, equips, uses, occupies or maintains any building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties prescribed under Chapter



[1.17](#) HMC which are in addition to all other legal remedies, civil or criminal, which may be pursued by the city. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

### Article III. Codes Adopted

#### **15.04.030 Title 24 codes adopted.**

A. Adoption of Part 1 – ~~2013~~ **2022** California Building Standards Administrative Code. In book form, as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson building standards administrative code. A copy of said code is on file in the office of the building official of the city.

B. Adoption of Part 2 – ~~2013~~ **2022** California Building Code. In book form, in two volumes as published by the International Code Council, *together with Appendices Chapter G – Flood-Resistant Construction, Chapter H – Signs, Chapter I – Patio Covers, Chapter J – Grading, Chapter K – Central Valley Flood Protection Plan, and Chapter P – Emergency Housing, and subsequent additions and editions thereto* as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson building code. A copy of said code is on file in the office of the building official of the city.

C. Adoption of Part 2.5 – ~~2013~~ **2022** California Residential Code. In book form, as amended in this title and including *all* the following appendices *with the exception of Appendix AL-Permit Fees, and subsequent additions and editions thereto* thereto: Appendix H – Patio Covers; Appendix J – Existing Building, as published by the International Code Council as adopted and amended by the California Building Standards Commission is hereby adopted as the city of Hughson residential code. A copy of said code is on file in the office of the building official of the city.

D. Adoption of Part 3 – ~~2013~~ **2022** California Electrical Code *including appendices*. In book form, as published by the National Fire Protection Association as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson electric code. A copy of said code is on file in the office of the building official of the city.

E. Adoption of Part 4 – ~~2013~~ **2022** California Mechanical Code. In book form as amended in this title and including *all* following appendices thereto: ~~Appendix Chapter 1 – Administration with amendments; Appendix A – UMC Standard – Nos. 2 2, 6 2, and 6 5; Appendix B,~~ as published by the International Association of Plumbing and Mechanical Officials as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson mechanical code. A copy of said code is on file in the office of the building official of the city.

F. Adoption of Part 5 – ~~2013~~ **2022** California Plumbing Code. In book form as amended in this title and including *all* the following appendices thereto: ~~Appendix Chapter 1 – Administration with amendments; Appendix A; Appendix B; Appendix D; Appendix G; Appendix I; Appendix K,~~ as published by the International Association of Plumbing and Mechanical Officials as adopted and amended by the California Building Standards Commission, is hereby adopted as



the city of Hughson plumbing code. A copy of said code is on file in the office of the building official of the city.

G. Adoption of Part 6 – ~~2013~~ **2022** California Energy Code. In book form, as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson energy code. A copy of said code is on file in the office of the building official of the city.

H. Adoption of Part 8 – ~~2013~~ **2022** California Historical Code. In book form, as amended by the Hughson Fire Protection District, and as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson historical code. A copy of said code is on file in the office of the building official of the city.

I. Adoption of Part 9 – ~~2013~~ **2022** California Fire Code. In book form, as amended by the Hughson Fire Protection District and as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson fire code. A copy of said code is on file in the office of the building official of the city.

J. Adoption of Part 10 – ~~2013~~ **2022** California Existing Building Code. In book form, as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson's existing building code. A copy of said code is on file in the office of the building official of the city.

K. Adoption of Part 11 – ~~2013~~ **2022** California Green Standards Code and the Tier 1 Provisions of Appendix A4. In book form, as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson green standards code. A copy of said code is on file in the office of the building official of the city.

L. Adoption of Part 12 – ~~2013~~ **2022** California Referenced Standards Code. In book form, as published by the International Code Council as adopted and amended by the California Building Standards Commission, is hereby adopted as the city of Hughson referenced standards code. A copy of said code is on file in the office of the chief building official of the city. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

**M. Adoption of Uniform Housing Code 1997 Edition.**

**For the purpose of prescribing regulations governing the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all buildings and structures within the City, the Uniform Housing Code, 1997 Edition Conference of Building Officials (Title 25 of the California Code of Regulations pursuant to Sections 17958, 17958.5, 17958.7, 17958.9 and 17959 of the California Health and Safety Code), published by the International, and subsequent additions and editions thereto, one copy of which is on file in the office of the City Clerk for public record and inspection, is hereby adopted by reference and made part of this chapter as though**



set forth in this chapter in full, subject, however, to the amendments, additions and deletions set forth in this chapter, and said Code shall be known as the Housing Code of the City of Hughson.

**N. Adoption of the Uniform Code for the Abatement of Dangerous Buildings 1997 Edition.**  
**For the purpose of prescribing regulations governing the erection, construction, enlargement, alteration, repair, moving, removal, demolition, conversion, occupancy, equipment, use, height, area and maintenance of all buildings and structures within the City, the Uniform Code for Abatement of Dangerous Buildings, 1997 Edition, published by the International Conference of Building Officials, and subsequent additions and editions thereto, one copy of which is on file in the office of the City Clerk for public record and inspection, is hereby adopted by reference and made a part of this chapter as though set forth in this chapter in full, subject, however, to the amendments, additions and deletions set forth in this chapter, and said Code shall be known as the Dangerous Buildings Code for the City of Hughson.**

#### **Article IV. Permits**

##### **15.04.035 Permits required.**

Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

##### **15.04.036 Annual permit.**

In lieu of an individual permit for each alternation to an already approved electrical, gas, mechanical or plumbing installation, the building official is authorized to issue an annual permit upon application therefor to any person, firm or corporation regularly employing one or more qualified tradespersons in the building, structure or on the premises owned or operated by the applicant for the permit.

The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The building official shall have access to such records at all times or such records shall be filed with the building official as designated. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

##### **15.04.037 Work exempt from permit.**

Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

###### **A. Building.**

1. One-story detached accessory buildings used as tool and storage sheds, playhouses, and similar uses, provided the floor area does not exceed 120 square feet (11.15 m2).
2. Fences not over ~~six~~ seven feet (1,829 mm) high.



3. Oil derricks.

4. Retaining walls that are not over four feet (1,219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or III-A liquids.

5. Water tanks are supported directly upon grade if the capacity does not exceed 5,000 gallons (18,927 L) and the ratio of height to diameter or width does not exceed 2:1.

6. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade and not over any basement or story below and are not part of an accessible route.

7. Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work.

8. Temporary motion picture, television and theater stage sets and scenery.

9. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 24 inches deep, do not exceed 5,000 gallons (18,927 L) and are installed entirely above ground.

10. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.

11. Swings or other playground equipment accessory to detached one- and two-family dwellings.

12. Window awnings supported by an exterior wall that do not project more than 54 inches (1,372 mm) from the exterior wall and do not require additional support of Group R-3 and U occupancies.

13. Non-fixed and moveable fixtures, cases, racks, counters and partitions not over five feet nine inches (1,753 mm) in height.

## B. Electrical.

1. Repairs and Maintenance. Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

2. Radio and Television Transmitting Stations. The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installation of towers and antennas.

3. Temporary Testing Systems. A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

## C. Gas.



1. Portable heating appliance.

2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

#### D. Mechanical.

1. Portable heating appliance.

2. Portable ventilation equipment.

3. Portable cooling equipment.

4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.

5. Replacement of any part that does not alter its approval or make it unsafe.

6. Portable evaporative cooler.

7. Self-contained refrigeration system containing 10 pounds (five kg) or less of refrigerant and actuated by motors of one horsepower (746 W) or less.

#### E. Plumbing.

1. The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with the new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.

2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.036)

#### **15.04.038 Emergency repairs.**

Where equipment replacements and repairs must be performed in an emergency situation, the permit application shall be submitted within the next working day to the building official. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.037)

#### **15.04.039 Repairs.**

Application or notice to the building official is not required for ordinary repairs to structures, replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a



structure affecting the egress requirements; nor shall ordinary repairs include addition to, alteration of, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.038)

#### **15.04.040 Public service agencies.**

A permit shall not be required for the installation, alteration or repair of generation, transmission, distribution or metering or other related equipment that is under the ownership and control of public service agencies by established right. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.039)

#### **15.04.041 Application for permit.**

To obtain a permit, the applicant shall first file an application in writing on a form furnished by the department of building safety for that purpose. Every such application shall:

- A. Identify and describe the work to be covered by the permit for which application is made.
- B. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
- C. Indicate the use or occupancy for which the proposed work is intended.
- D. Be accompanied by plans, diagrams, computations and specifications and other data as required in this chapter.
- E. State the valuation of the proposed work.
- F. Be signed by the applicant, or the applicant's authorized agent.
- G. Give such other data and information as may be required by the building official. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.040)

#### **15.04.042 Action on application.**

The building official shall examine or cause to be examined applications for permits and amendments thereto within a reasonable time after filing. If the application or the construction documents do not conform to the required pertinent laws, the building official shall reject such application in writing, stating the reason(s) for rejection. If the building official is satisfied that the proposed work conforms to the requirements of this code and laws and ordinances applicable thereto, the building official shall issue a permit as soon as practicable. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.041)

#### **15.04.043 Time limitation and expiration.**

A. Permit Application. An application for which no permit is issued within ~~180 days~~ **12 months** following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the building official. The building official is authorized to extend the time for action by the applicant for a period not to exceed 180 days upon request by the applicant. A second extension not exceeding 180 days may be granted by the building official under the following conditions:

1. The applicant submits a written request for such extension showing justifiable cause;



2. There have been no changes to any of the governing codes under which the plans were originally submitted since the original date of application;
3. An administrative fee as established must be paid at the time the second extension is granted.

No further application extensions will be granted after a second extension.

B. Permit. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after its issuance, or if the work authorized on the site for such permit is suspended or abandoned for a period of 180 days after the time the work is commenced.

The building official may re-activate a permit which has become invalid (either expired or inactive), upon written request by the permit holder, under the following conditions:

1. The suspension or abandonment of work has not exceeded one year;
2. There have been no changes to any of the governing codes under which the permit was originally issued during the time since the permit became invalid;
3. An administrative fee as established must be paid at the time an extension is granted.

The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each.

Any permit holder with an unexpired permit may submit a written request for an extension of the time within which work may commence under that permit. The building official may extend the time for action by for a period not exceeding 180 days if the request demonstrates circumstances are beyond the control of the permit holder. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.042)

#### **15.04.044 Validity.**

The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any provisions of this code or of any other ordinance of the jurisdiction. Permits presuming to give the authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the building official from requiring the correction of errors in the construction documents and other data. The building official is also authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinance of this jurisdiction. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.043)

#### **15.04.045 Suspension or revocation.**

The building official is authorized to suspend or revoke a permit issued under the provisions of this code whenever the permit is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of



this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.044)

#### **15.04.046 Placement of permit.**

The building permit or copy shall be kept on the site of the work until the completion of the project. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007. Formerly 15.04.045)

### **Article V. Construction Documents**

#### **15.04.050 Submittal documents.**

Construction documents, statement of special inspections and other data shall be submitted in one or more sets with each permit application. The construction documents shall be prepared by a registered design professional. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

Exception: The building official may waive the submission of plans, calculations, construction inspection requirements and other data if it is found that the nature of the work applied for is such that reviewing of plans is not necessary to obtain compliance with this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.051 Information on construction documents.**

Construction documents shall be dimensioned and drawn upon suitable material. Electronic media documents are permitted to be submitted when approved by the building official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the building official.

The construction documents shall show in sufficient detail the location, construction, size and character of all portions of the means of egress in compliance with the provisions of this code. In other than occupancies in Group R-2, R-3, and 1-1, the construction documents shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.

Construction documents for all buildings shall describe the exterior wall envelope in sufficient detail to determine compliance with this code. The construction documents shall provide details of the wall envelope as required, including flashing, intersections with dissimilar materials, corners, end detail, control joints, intersections at roofs, eaves or parapets, means of drainage, water-resistive membrane and details around openings.

The construction documents shall include manufacturer's installation instructions and provide supporting documentation that the proposed penetration and opening details described in the construction documents maintain the weather resistance of the exterior wall envelope. The supporting documentation shall fully describe the exterior wall system which was tested, where applicable, as well as the test procedure used. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)



**15.04.052 Site plan.**

The construction documents submitted with the application for permit shall be accompanied by a site plan showing to scale the size and location of new construction and existing structures on the site, distances from lot lines, the established street grades and the proposed finished grades and, as applicable, flood hazard areas, floodways, and design flood elevations; and it shall be drawn in accordance with an accurate boundary line survey. In the case of demolition, the site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site or plot. The building official is authorized to waive or modify the requirements for a site plan when the application for a permit is for alteration or repair or when otherwise unwarranted. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

**15.04.053 Phased approval.**

The building official is authorized to issue a permit for the construction of foundations or any other part of a building or structure before the construction documents for the whole building or structure have been submitted; provided, that adequate information and detailed statements have been filed complying with pertinent requirements of this code; and provided, that all fees as specified in the resolution adopted pursuant to HMC 15.04.065 are paid in full. The holder of such permit for the foundation or other parts of a building or structure shall proceed at the holder's own risk with the building operation and without assurance that a permit for the entire structure will be granted. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

**15.04.054 Design professional in responsible charge.**

When it is required that documents be prepared by a registered design professional, the building official shall be authorized to require the owner to engage and designate on the building permit application a registered design professional who shall act as the registered design professional in responsible charge. If the circumstances require, the owner may designate a registered design professional in responsible charge who shall perform all of the duties required of the registered design professional in responsible charge. The building official shall be notified in writing by the owner if the registered design professional in responsible charge is changed or is unable to continue to perform the duties.

The registered design professional in responsible charge shall be responsible for reviewing and coordinating all submittal documents prepared by others, including deferred submittal items, for compatibility with the design of the building.

When structural observation is required by CBC Chapter 17, the statement of special inspections shall name the individuals or firms who are to perform structural observation and describe the stages of construction at which structural observation is to occur. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

**15.04.055 Deferred submittals.**

For the purposes of this section, deferred submittals are defined as those portions of the design that are not submitted at the time of the application and that are to be submitted to the building official within a specified period.



Deferral of any submittal items shall have prior approval of the building official. The registered design professional in responsible charge shall list the deferred submittals on the construction documents for review by the building official.

Documents for deferred submittal items shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the building official with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until their design and submittal documents have been approved by the building official. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.056 Amended construction documents.**

Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.057 Retention of construction documents.**

One set of approved construction documents shall be retained by the building official for a period of not less than 180 days from the date of completion of the permitted work, or as required by state or local laws. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

### **Article VI. Temporary Structures and Uses**

#### **15.04.060 General.**

The building official is authorized to issue a permit for temporary structures and temporary uses. Such permit shall be limited as to time of service but shall not be permitted for more than 180 days. The building official is authorized to grant extensions for demonstrated causes.

Temporary structures and uses shall conform to the structural strength, fire safety, means of egress, accessibility, light, ventilation and sanitary requirements of this code as necessary to ensure public health, safety and general welfare.

The building official is authorized to give permission to temporarily supply and use power in part of an electrical installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the California Electrical Code.

The building official is authorized to terminate such permit for temporary structure or use and to order the temporary structure or use to be discontinued. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)



## **Article VII. Fees**

### **15.04.065 Fees established by city council resolution.**

All fees required pursuant to Title 24 shall be paid in the amount established set forth in the schedule of fees established by resolution of the city council. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

## **Article VIII. Inspections**

### **15.04.070 General.**

Construction or work for which a permit is required shall be subject to inspection by the building official and all such construction or work shall remain accessible and exposed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the permit applicant to cause the work to remain accessible and exposed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

### **15.04.071 Preliminary inspection.**

Before issuing a permit, the building official is authorized to examine or cause to be examined buildings, structures and sites for which an application has been filed. A survey of the lot may be required by the building official to verify that the structure is located in accordance with the approved plans. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

### **15.04.072 Required inspections.**

The building official, upon notification, shall make the inspections set forth in the following subsections:

A. Foundation and Footing Inspection. Footings and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready mixed in accordance with ASTM C 94, the concrete need not be on the job.

B. Concrete Slab and Under-Floor Inspection. Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.

C. Lowest Floor Elevation. In floor hazard areas, upon placement of the lowest floor, including the basement, and prior to further vertical construction, the elevation certification required in CBC Section 1612.5 shall be submitted to the building official.



D. Frame Inspection. Framing inspections shall be made after the roof deck or sheathing, all framing, fire blocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are approved.

E. Lath or Gypsum Board Inspection. Lath and gypsum board inspections shall be made after lathing and gypsum board, interior and exterior, are in place, but before any plastering is applied or before gypsum board joints and fasteners are taped and finished.

Exception: Gypsum board that is not part of a fire-resistance-rated assembly or shear assembly.

F. Fire-Resistant Penetrations. Protection of joints and penetrations in fire-resistance-rated assemblies shall not be concealed from view until inspected and approved.

G. Energy Efficiency Inspections. Inspections shall be made to determine compliance with the California Energy Code and shall include, but not be limited to, inspections for: envelope insulation R and U values, fenestration U value, duct system R value, and HVAC and water-heating equipment efficiency.

H. CalGreen Tier 1 Inspections. Inspections shall be made to determine compliance with the California Green Building Standards Code and shall include both mandatory measures, as well as the Tier 1 measures of Appendix A4.

I. Other Inspections. In addition to the inspections specified above, the building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the department of building safety.

J. Special Inspections. For special inspections, see CBC Chapter 17.

K. Final Inspection. The final inspection shall be made after all work required by the building permit is completed and all other specific requirements of the project are approved. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.073 Inspection agencies.**

The building official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

#### **15.04.074 Inspection requests.**

It shall be the duty of the holder of the building permit or their duly authorized agent to notify the building official when work is ready for inspection. The building official may require that every request for inspection be filed at least one working day before such inspection is desired. Such request may be in writing or by telephone at the option of the building official. It shall be the duty of the permit holder to provide access to and means for inspection of such work that are required by this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)



**15.04.075 Approval required.**

Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the building official. The building official, upon notification, shall make the requested inspections and shall either indicate that portion of the construction is satisfactory as completed, or shall notify the permit holder or his or her agent wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the building official. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)

**Article IX. Certificate of Occupancy****15.04.080 General.**

A. Use and Occupancy. No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made, until the building official has issued a certificate of occupancy therefor as provided herein. U occupancies shall be exempt from the requirements of this section.

B. Certificate Issued. After the building official inspects the building or structure and finds no violations of the provisions of this code or other laws that are enforced by the department of building safety, the building official shall issue a certificate of occupancy that shall contain the following:

1. The building permit number.
2. The address of the building.
3. The name and address of the owner.
4. A description of that portion of the building for which the certificate is issued.
5. A statement that the described portion of the building has been inspected for compliance with the requirements of this code for the group and division of occupancy and the use for which the proposed occupancy is classified.
6. The name of the building official.
7. The edition of the code under which the permit was issued.
8. Any special stipulations and conditions of the building permit.

C. Temporary Certificate. The building official is authorized to issue a temporary certificate of occupancy before the completion of the entire work covered by the permit; provided, that such portion or portions shall be occupied safely. The building official shall set a time period during which the temporary certificate of occupancy is valid.

D. Revocation. The building official is authorized to, in writing, suspend or revoke a certificate of occupancy or completion issued under the provisions of this code whenever the certificate is issued in error, or on the basis of incorrect information supplied, or when it is determined that the




building or structure or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code. (Ord. 13-04(B) § 1, 2014; Ord. 11-03 § 1, 2011; Ord. 07-08 § 1, 2007)





## CITY COUNCIL AGENDA ITEM NO. 6.2

### SECTION 6: NEW BUSINESS

**Meeting Date:** January 23, 2023  
**Subject:** Adopt Resolution No. 2023-09, Affirming the City of Hughson's Commitment to Support the Riverview Mobile Home Estates Water Consolidation Project and Authorization for the City Manager to Execute the Letter of Support  
**Enclosures:** Draft Letter of Support- Attachment A  
Feasibility Study – Attachment B  
Affordability Study – Attachment C  
**Presented By:** Thania Bejarano, Self-Help Enterprises  
**Approved By:**   
City Manager

---

#### Staff Recommendations:

1. Adopt Resolution No. 2023-09, affirming the City of Hughson's commitment to supporting the Riverview Mobile Home Estates Water Consolidation Project.
2. Authorize the City Manager to execute the Letter of Support.

#### Background:

Riverview Mobile Home Estates (RMHE) is a small community water system, located in Stanislaus County, CA, Water System No. 5000090. RMHE currently provides water services to 173 connections and a population of 540 residents. The annual median household income for the system is \$35,000, categorizing it as a Severely Disadvantaged Community (SDCAC).

In May 2016, the RMHE received a compliance order from the Stanislaus County Department of Environmental Resources (No. DER-16CO-006) for violation of the uranium MCL (Maximum Contaminant Level) of 10 mg/L. While RMHE financed several projects to address the water contamination problem, none of these efforts resulted in permanent results or prospects for sources that meet drinking water standards.

The State Water Resources Control Board, Division of Drinking Water (DDW) assigned Self-Help Enterprises (SHE) to RMHE on August 31st, 2020, to provide



technical assistance and aid with their water contamination issues. From August 2020 to January 2023, Self-Help Enterprises and Black Water Consulting Engineers, Inc. (Black Water) have been working with RMHE to identify and implement a long-term solution that will address their uranium contamination issues.

### Discussion:

A Feasibility Study (Attachment B) was prepared by Black Water in April 2021. According to the Feasibility Study, Alternative 4 - Consolidation, was the consultant's selected project alternative. Three consolidation options were explored and considered: Stanislaus Regional Water Authority (SWRA), City of Modesto, and the City of Hughson. Other alternatives that were considered in the Feasibility Study included the following:

**Table 1: Explored Alternatives and Findings**

Explored Alternatives	Findings
Construction of a new well	The RMHE owners previously evaluated this option with Quality Service in the past. Kleinfelder drilled a test hole on June 4, 2018, to evaluate the water quality at a potential new well location. The laboratory testing results for the test hole returned high levels of gross alpha and uranium that exceeded the DDW's maximum contaminants (MCLs). The determination was made at the time that the development of a new well was not a feasible solution to addressing the water system's problem.
On-site water treatment plant	The feasibility of constructing a groundwater treatment facility at RMHE was evaluated by Kleinfelder, Inc. in September 2019. The major components of the design included discontinuing the use of the south well in favor of beginning the use of the north well, installation of a new storage tank and booster pump system, filtration system, electrical improvements, and equipment startup and testing. Quality Service's cost estimate for the entire project totaled \$886,293 making it an unaffordable option.
Consolidation	<ol style="list-style-type: none"> <li>1) City of Hughson</li> <li>2) City of Modesto</li> <li>3) Stanislaus Regional Water Authority (SRWA)</li> </ol>

The DDW instructed SHE and Black Water to conduct water consolidation outreach to all the nearby entities and develop an Affordability Study. The consolidation outreach findings are listed below in Table 2: Consolidation Outreach & Findings,



and an Affordability Study Draft (Attachment C) was prepared by Black Water in September 2022. The purpose of the Affordability Study is to determine appropriate and affordable water rates for Riverview Mobile Home Park customers while ensuring the City of Hughson operation and maintenance staff, city staff, and existing customers are not unfairly burdened as a result of the water consolidation. City of Hughson Water Engineer, Cort Abney, prepared a Cost/Revenue Evaluation to identify budgetary expenses, rates, and revenues associated with the proposed consolidation project, in which the City of Hughson provides a potable water supply to the Riverview Mobile Home Estates. Black Water will be working in conjunction with the City of Hughson and Cort Abney to complete the Final Affordability Study.

**Table 2: Consolidation Outreach & Findings**

<b>Consolidation Outreach</b>	<b>Findings</b>
City of Hughson	Feasible – If water capacity is increased (1.94 miles from RMHE)
City of Modesto	Not feasible – insufficient water capacity and distance (3.80 miles from RMHE)
Stanislaus Regional Water Authority (SRWA)	Not feasible – outside the Turlock Irrigation District service area (1.26 miles from RMHE)
City of Waterford	Not feasible – insufficient water capacity and distance (3.70 miles from RMHE)

The consolidation outreach efforts conducted by Self-Help Enterprises and the Regional Board identified the City of Hughson as the system's only water consolidation option, with the stipulation that additional water supplies would need to be constructed as part of the project to address the City's water capacity issues. Based on the Affordability Study Draft, the total cost of the construction project would approximately be \$12,137,072 and the maximum State Grant awarded amount would be \$14,080,000. Included in the total cost, and based on information provided by Cort Abney, the City's contracted water engineer, the estimated cost for expanding the City of Hughson facilities is \$7,500,000. The \$7,500,000 includes the first phase of the North Facility Project, which includes the addition of a new storage tank and booster pumps that would provide an additional 500 units of water.

### **Water Consolidation Project Benefits – City of Hughson**

1. Based on the current Intended Use Plan (IUP), the RMHE Project is eligible for up to 100% Planning Grants/Principal Forgiveness (\$60,000 per connection or up to \$80,000 for good cause) funding due to the following reasons:

- a. The RMHE Community is an SDAC: \$35,000 < 60% of State MHI – Category A-C project



b. The project qualifies as a high-priority project that addresses public health issues:  
Compliance Order from Stanislaus County Department of Environmental Resources violation of Uranium (No. DER-16CO-006).

2. Consolidation projects are eligible for grant funding, regardless of the project category. The Division of Financial Assistance may approve up to \$80,000 per connection and 100% for good cause of the construction project. At 173 service connections, RMHE would be eligible for up to \$13 million. The 13 million grant can cover the extension of the water service from the Hughson water system to connect to RMHE, the necessary City of Hughson Water System Improvements, and the disconnection and destruction of the existing groundwater wells.

It is important to note that the State Water Resources Control Board – Division of Financial Assistance (DFA) will make their final determination of the recipient's project grant/loan and outline all conditions in the awarded funding agreement which cannot be definitively determined until the drinking water construction application is submitted and reviewed.

**Table 8: Estimated Project Cost Breakdown in the Affordability Study Draft**

Item	Amount
Consolidation Improvements	\$ 4,637,072
Hughson Water System Improvement	\$ 7,500,000
Total	\$12,137,072
Maximum Grant Amount – DFA	\$14,320,000

3. The City of Hughson might be eligible for the Consolidation Incentive Funding:

- a. If a Public Water System (PWS) acts as an administrator to one or more SCWSs. Up to \$5 million in 0% financing for an Incentive Project; or Grant funding of up to \$2,500/connection when acting as an administrator for a small DAC water system or up to \$5,000/connection for a small SDAC water system for an Incentive Project. Max of \$1 million grant is available per water system.
- b. If the City of Hughson is a voluntary participant in consolidation, the receiving water system is eligible to receive incentive funding. Phase 1 of the project may qualify for a consolidation incentive project for up to \$10 million in 0% financing. IUP home page:



[https://waterboards.ca.gov/water\\_issues/programs/grants\\_loans/srf/docs/dw-grant-fact-sheet.pdf](https://waterboards.ca.gov/water_issues/programs/grants_loans/srf/docs/dw-grant-fact-sheet.pdf). This Program can help begin the first phase of the City's North Facility Project to increase water capacity. The North Facility Project would increase the City's water capacity by approximately 500 equivalent residential units and Riverview currently has 173 connections which would allow for future expansion on the City's part.

4. While Riverview Mobile Homes Estates does not have plans to expand in the next few years. Should the Mobile Home Park Owner want to expand, they would need to get approval from the City to expand their water use or demand.

5. Throughout the planning and construction phase of the Water Consolidation Project the City of Hughson's contracted water engineer would be a 2nd consultant on the project in addition to Black Water to review plans on behalf of the City.

6. To support consolidation, DFA, in coordination with DDW, will continue to emphasize consolidation opportunities by providing project financing and technical assistance. Consolidation Incentives can provide grant funding for infrastructure improvements to mitigate drinking water risks.

**Fiscal Impact:**

Hughson staff would continue to work with the State Water Resources Control Board as needed to ensure that the best interests of the City are considered. The City contracted water engineer will be paid for by State project funding through Self-Help Enterprises.



**CITY COUNCIL  
CITY OF HUGHSON  
RESOLUTION NO. 2023-09**

**RESOLUTION OF THE CITY OF HUGHSON CITY COUNCIL  
AFFIRMING THE CITY OF HUGHSON'S COMMITMENT TO SUPPORTING THE  
RIVERVIEW MOBILE HOME ESTATES WATER CONSOLIDATION PROJECT AND  
AUTHORIZATION FOR THE CITY MANAGER TO  
EXECUTE THE LETTER OF SUPPORT**

**WHEREAS**, Riverview Mobile Home Estates (RMHE) is a small community water system, located in Stanislaus County that currently provides water services to 173 connections and a population of approximately 540 residents; and

**WHEREAS**, RMHE has been categorized as a Severely Disadvantaged Community and has received a compliance order from the Stanislaus County Department of Environmental Resources for violation of the uranium maximum contaminate level; and

**WHEREAS**, the State Water Resources Control Board (SWRCB), Self-Help Enterprises, and Black Water Consulting Engineers, Inc., have been working with RMHE to identify and implement a long-term solution that will address the uranium contamination issues; and

**WHEREAS**, through a Feasibility Study and a Draft Affordability Study, findings have been made that the City of Hughson is the only feasible water system for consolidation; and

**WHEREAS**, the City of Hughson has insufficient water supply to service RMHE and through a voluntary consolidation project, the City of Hughson may be eligible for incentive funds from the SWRCB – Division of Financial Assistance, to construct the first phase of a north facility project, consisting of the addition of a new storage tank and booster pumps that would provide an additional 500 units of water; and

**WHEREAS**, the City of Hughson will be offered the opportunity to review any water consolidation deliverables and documents prior to agreeing to provide City water to RMHE.

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Hughson affirms the City of Hughson's commitment supporting the Riverview Mobile Home Estates Water Consolidation Project and authorizes the City Manager to execute the letter of support.

**PASSED AND ADOPTED** by the City Council of the City of Hughson at its regularly scheduled meeting on this 23<sup>rd</sup> day of January 2023 by the following roll call vote:

**AYES:**

**NOES:**



**ABSTENTIONS:**

**ABSENT:**

**APPROVED:**

---

**GEORGE CARR, Mayor**

**ATTEST:**

---

**ASHTON GOSE, City Clerk**



**(Please insert the City of Hughson Letterhead)**

## **Attachment A**

**(Please insert the date)**

State Water Resources Control Board

Division of Financial Assistance

Safe and Affordable Drinking Water Funds (SADW)

### **Project No. 6202 – Riverview Mobile Home Estates Planning Project – Water Consolidation with the City of Hughson**

The City of Hughson has been working closely with Riverview Mobile Home Estates (RMHE), Self-Help Enterprises, and Black Water Consulting Engineers to evaluate the consolidation of the RMHE Water System with the City of Hughson. The purpose of this letter is to emphasize the City of Hughson's commitment to supporting the water consolidation project with the stipulation that a Rate Study, Memorandum of Understanding and Plans and Specifications are developed before the City enters into a binding agreement. The City of Hughson would like the opportunity to review any water consolidation deliverables/documents prior to agreeing to provide City water to RMHE. While the City of Hughson has facilitated other consolidations with small community water systems in Stanislaus County, such as Cobles Corner and Country Villa Apartments, more information is needed to advocate for the regional water system consolidation with RMHE.

The City of Hughson supports Self-Help Enterprises and Riverview Mobile Home Estates in continuing to develop the planning deliverables necessary to reach the construction phase. The City of Hughson agrees to participate in future monthly project meetings as City staff has the availability and to work directly with SHE, Black Water and RMHE on the water consolidation project when necessary.

Respectfully,

**(Name)**

**(City Manager)**

**(Signature)**



# Riverview Mobile Home Estates Water System

## Feasibility Study Report

APRIL 1, 2021

Prepared for:

RIVERVIEW MOBILE HOME PARK OWNERS  
8200 Jantzen Road  
Modesto, CA 95357

Prepared by:

BLACK WATER CONSULTING ENGINEERS, INC.  
602 Lyell Drive  
Modesto, CA 95356  
(209) 322-1820



**BLACKWATER**  
CONSULTING ENGINEERS, INC.



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## APPENDICES

Appendix A – Water System Permit
Appendix B – Water System Documents
Appendix C – Compliance Order
Appendix D – Summary of Source Water Quality
Appendix E – Groundwater Treatment Facility Proposals
Appendix F – Detailed Cost Estimates



## 1 Introduction

This Feasibility Study Report (Report) was prepared for the Riverview Mobile Home Estates, LLC (RMHE Owners) to evaluate the Riverview Mobile Home Estates existing water system. This Report identifies water system deficiencies and evaluates alternative improvements in order to meet state and federal requirements to provide the Riverview Mobile Home Estates (RMHE) community with safe and reliable drinking water that complies with the Safe Drinking Water Act (SWA).

The Report was funded as part of the California State Water Resources Control Board (SWRCB) and Self-Help Enterprises (SHE) Proposition 1 Technical Assistance (TA) Work Plan through the Community Development and Technical Assistance Program Agreement No. D-16-12802, TA Work Plan No. 6202-A.

Background information regarding the RMHE Water System, scope of the Report, and objectives for this Report are discussed in this section.

### 1.1 Background

The RMHE Water System (Water System) is a community water system privately owned and operated by the RMHE Owners, located approximately 1 mile south of State Route 132 in Modesto, California. Refer to **Figure 1** for project location. The Water System provides potable water to approximately 250 residents and consists of 176 service connections that supply 174 mobile home spaces and one manager's office (two connections).

RMHE was issued a Domestic Water Supply Permit (Permit) for Public Water System No. 5000090 by Stanislaus County Department of Environmental Resources (County DER) on March 17, 2016 under permit number 2016-03-005. A copy of the Permit is provided in **Appendix A**.

### 1.2 Scope

The following tasks were completed as part of this Report:

1. A review of historical reports, documents, and data related to the Water System.
2. A review of existing regulatory requirements for the Water System.

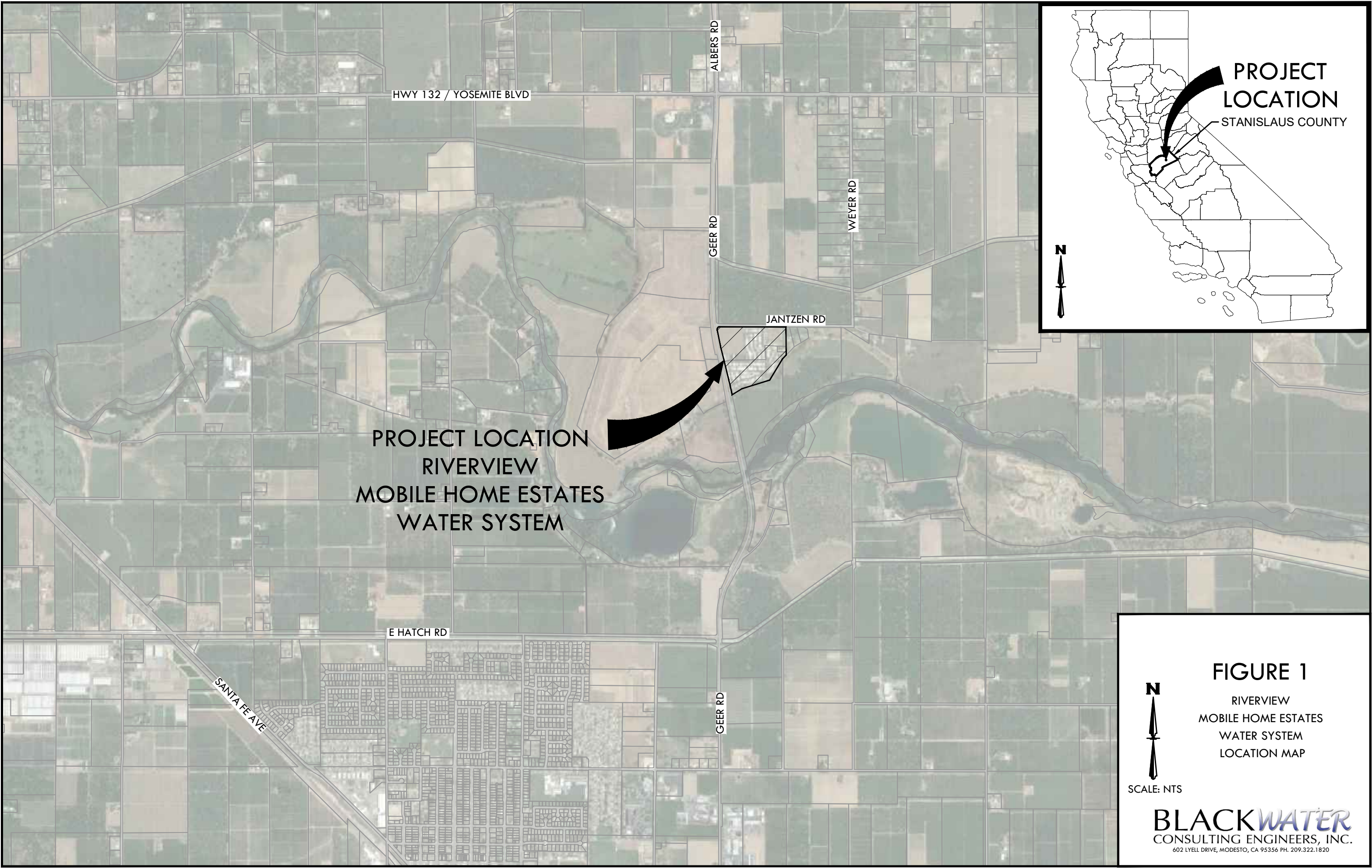
### 1.3 Objectives

The objectives for the Report are as follows:

1. Identification of existing source and system deficiencies.
2. Evaluation of existing water system.
3. Alternative analysis for improvements to address identified deficiencies.
4. Recommendation of proposed improvement(s).



I:\20291 RIVERVIEW MOBILE ESTATES\CAD\TASK-02 RIVERVIEW WATER SYSTEM\REPORTS\ENGINEERING REPORT\FIGURES\FIGURE 1-PROJECT LOCATION.DWG PLOT: 2/9/2021 9:13:24 AM BY GUSTAVO MANCILLA





## 1.4 Previous Documents, Data, and Reference Documents

Previous documents and data reviewed and/or referenced in the Report include the following:

- [1] California Regulations to Drinking Water, SWRCB.
- [2] Riverview Estates Water System Record Drawings, prepared by Lawrence D. McDermott, Summer 2014.
- [3] State of California Domestic Water Supply Permit for Public Water System No. 5000090, issued by Stanislaus County Department of Environmental Resources, March 17, 2016.
- [4] Stanislaus County Compliance Order No. DER-16CO-006, issued by the Stanislaus County Department of Environmental Resources Division of Environmental Health, May 9, 2016.
- [5] Operation Plan for Potable Water System Chlorination, Quality Service, Inc., March 2015.
- [6] Proposal for Modular Radium, Uranium, and (future) Nitrate Water Treatment System, Quality Service, Inc., August 2019.
- [7] Proposal for Groundwater Treatment Facility, Kleinfelder, Inc., September 2019.
- [8] Technical Memorandum for Test Well Drilling and Logging, Kleinfelder, Inc., August 2018.
- [9] Riverview Mobile Estates: Summary of Source Water Quality, Quality Service, Inc., February 2017 thru August 2018.
- [10] Meter Readings and Well Soundings Data, 2018 and 2019.
- [11] Summary of Historic Flow Records, January 2012 thru December 2019.
- [12] Various Well Completion Reports, prepared by Calwater Drilling Co., Osterberg & Stewart, and Hennings Bros. Drilling Co., 1967, 1973, 1982, and 2003.
- [13] Groundwater Quality Analysis Reports, prepared by FarWest Laboratories, Inc., October and November 2016.

## 1.5 Regulatory and Funding Requirements

Per the Water System Permit, the Water System is classified as a community water system (with less than 1,000 service connections). Per the 2017 California Waterworks Standards in the California Code of Regulations, Title 22, Division 4, Chapter 16 (California Waterworks Standards), the following summarizes some of the permit requirements applicable for the RMHE Water System:

- The system's water source(s) shall have the capacity to meet the system's maximum day demand (MDD).
- The system shall have storage capacity equal to or greater than MDD, unless the system can demonstrate that it has an additional source of supply or has an emergency source connection that can meet the MDD requirement.
- The system shall be capable of meeting MDD with the highest-capacity source off-line.



## 2 Water System Description

This section provides a description of the Water System's sources and facilities. **Figure 2** provides a schematic map of the Water System's service area and **Figure 3** provides a schematic map of the well site flow process.

### 2.1 Water System Facilities

The RMHE Water System consists of two (2) active wells that supply the potable water system. The first well is referred to in the Permit as the South Well, PS Code 5000090-002 (South Well) and the second well is referred to as the South West New Well, PS Code 5000090-013 (South West Well). The wells operate in an alternating lead/lag pumping style that helps balance the burden on a single well.

The South Well was constructed in 1978. The South Well is 220-feet deep with a 50-foot annular seal and a 10-inch diameter steel casing. The South Well is equipped with a 240-gallon per minute (gpm), 20-horsepower (HP) submersible pump. The South West Well was constructed on May 20, 2004. The South West Well is 140-feet deep with a 95-foot bentonite annular seal and a 10-inch diameter PVC casing. The South West Well is equipped with a 300-gpm, 20-HP submersible pump. Each well has a 4-inch galvanized steel discharge pipe, source water sample tap, check valve, totalizing flow meter, and an emergency backup generator system.

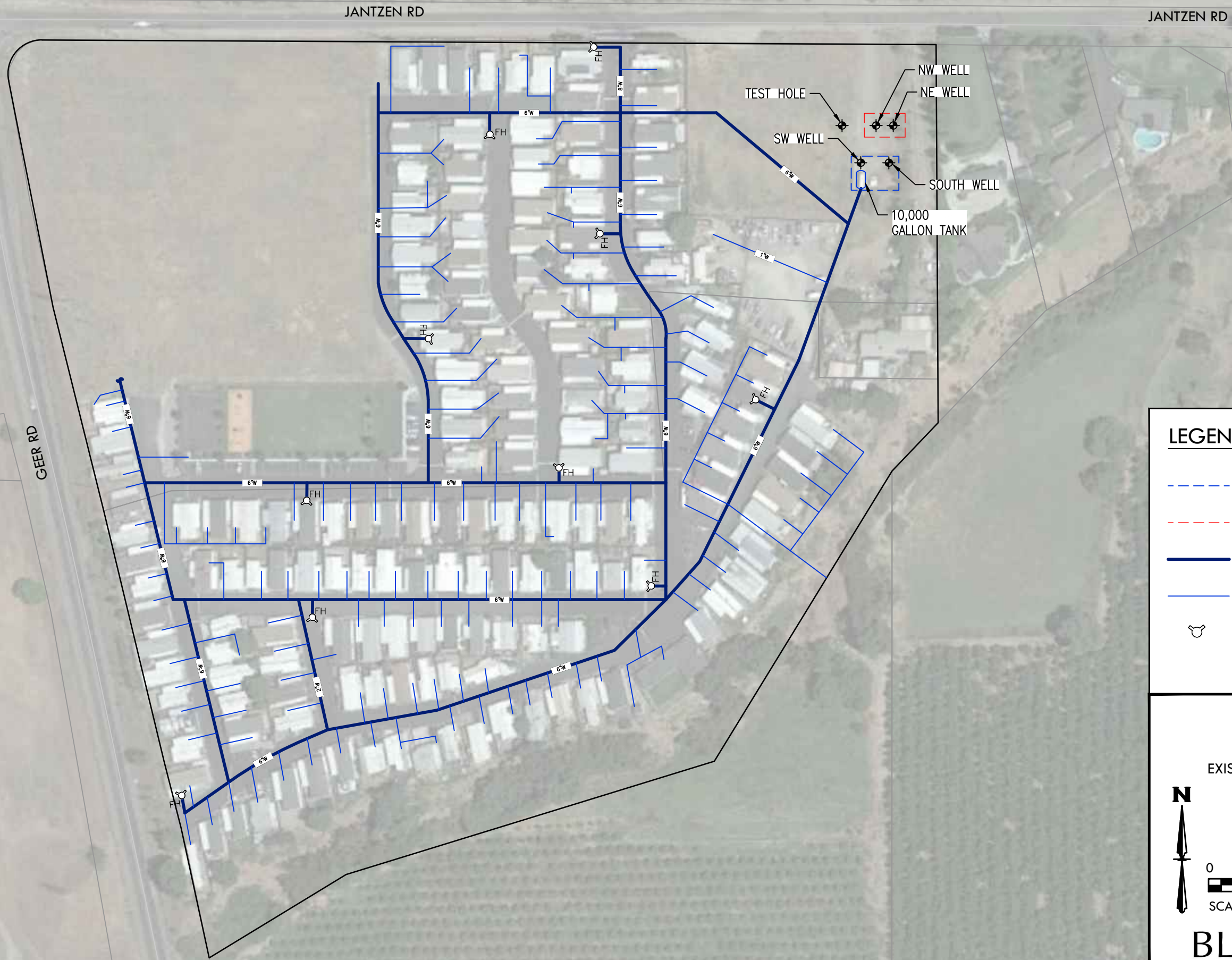
Only the South West Well discharges to a 10,000-gallon hydro-pneumatic pressure tank. The South West Well also has a bypass pipe that allows water to be pumped directly to the distribution system. The water from both active wells remains untreated before entering the distribution system. The pressure tank is equipped with a 4-inch diameter drain to waste valve at the bottom of the tank that allows periodic flushing to remove accumulated sediment. The pressure tank is configured with a pressure switch that controls the deep well pump operation based on system demand. An air release valve and air compressor balance the air to water ratio within the pressure tank. The South Well connects directly to the 6-inch diameter distribution system after passing through a 6-inch diameter isolation valve. The discharge pipe from the pressure tank connects to the 6-inch diameter distribution system just downstream of the isolation valve on the pipe leading from the South Well. The South West Well bypass pipe connects to the 6-inch distribution system just upstream of the South Well isolation valve. Both the pressure tank discharge pipeline and the South West Well bypass pipeline have 6-inch isolation valves to allow operators manual control of water leading to the distribution system.

The water distribution system consists of approximately 5,750 feet of 1-½-inch diameter to 6-inch diameter pipelines and 176 ¾-inch service laterals of varying length. The Water System also supplies ten (10) fire hydrants located throughout the RMHE.

The Water System has two additional wells referred to as the North East Well and the North Well. The North East Well was abandoned in August 2003. The North Well was constructed adjacent to the North East Well as a replacement source and has remained inactive since the well was developed in October 2000.



I:\20291 RIVERVIEW MOBILE ESTATES\CAD\TASK-02 RIVERVIEW WATER SYSTEM\REPORTS\ENGINEERING REPORT\FIGURES\FIGURE 2-EXISTING WATER DISTRIBUTION.DWG PLOT: 2/12/2021 2:17:37 PM BY GUSTAVO MANCILLA

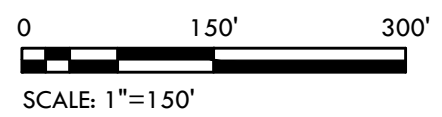


**LEGEND**

- ACTIVE WELL SITE
- INACTIVE WELL SITE
- WATER MAIN
- WATER SERVICE
- FH FIRE HYDRANT

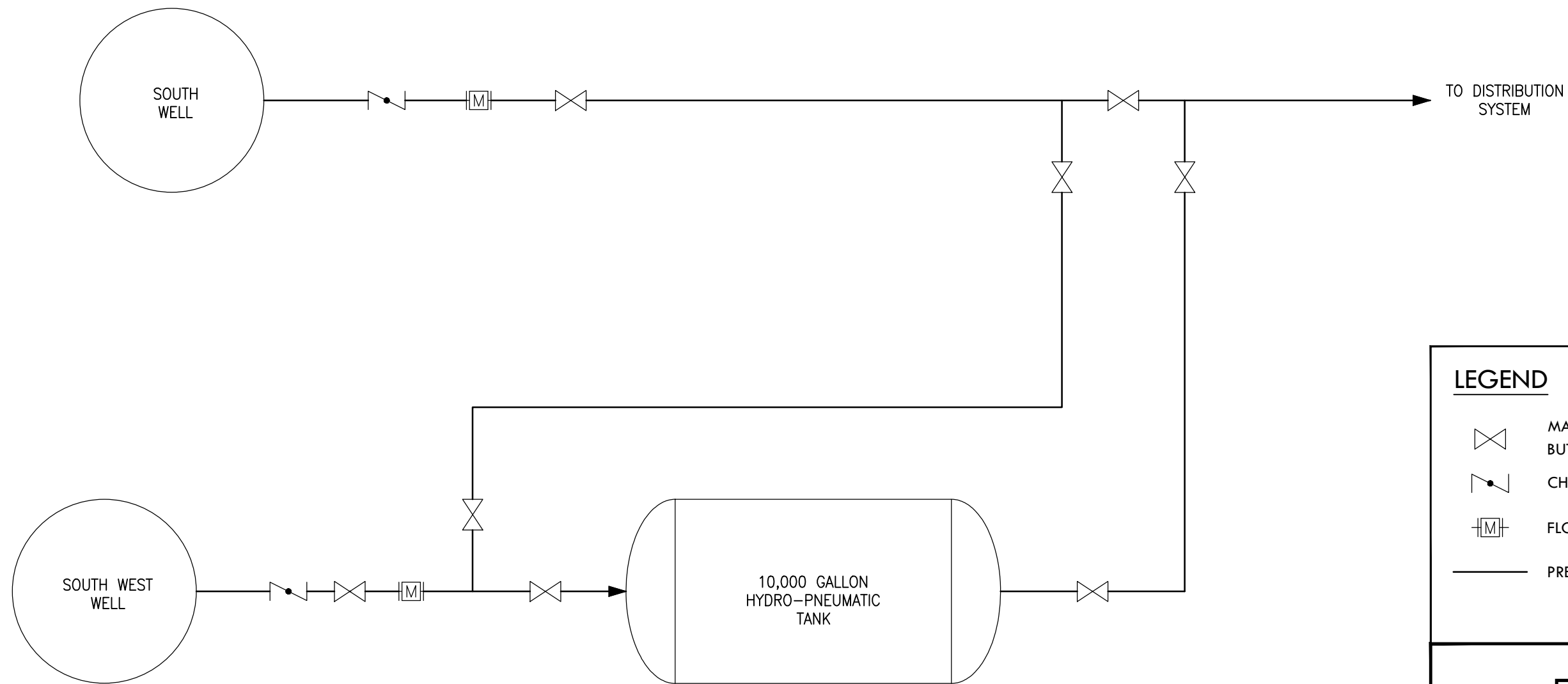
**FIGURE 2**

EXISTING WATER DISTRIBUTION  
SYSTEM SCHEMATIC







**BLACKWATER**  
CONSULTING ENGINEERS, INC.  
602 LVELL DRIVE, MODESTO, CA 95356 PH. 209.322.1820





**LEGEND**

-  MANUAL GATE OR BUTTERFLY VALVE
-  CHECK VALVE
-  FLOW METER
-  PRESSURE PIPE

**FIGURE 3**

WELL SITE PROCESS SCHEMATIC



## 2.2 Water Usage and Demands

The RMHE Water System records water usage data from the flow meters located between each active well and the pressure storage tank. In the past, data was recorded on a weekly basis and is currently recorded on a monthly basis. **Table 1** summarizes the Water System's monthly water supply data recorded from January 2012 to December 2019.

**Table 1 – Monthly Water Usage (2012-2019)**

Month	Water Usage Data (MG)							
	2012	2013	2014	2015	2016	2017	2018	2019
Jan	0.43	0.54	0.46	0.47	0.52	0.31	0.91	1.13
Feb	0.43	0.45	0.39	0.41	0.43	0.62	0.72	0.58
Mar	0.45	0.48	0.51	0.47	0.50	0.23	0.77	0.77
Apr	0.64	0.67	0.58	0.52	0.52	0.82	1.01	0.83
May	0.72	0.72	0.69	0.58	0.46	0.85	0.65	1.09
Jun	0.82	0.87	0.79	0.74	1.02	1.06	2.02	1.35
Jul	0.80	1.03	0.84	0.77	1.00	0.38	1.09	1.36
Aug	0.85	0.95	0.73	0.58	1.07	ND	0.90	0.90
Sep	0.70	0.90	0.70	0.55	0.98	ND	1.36	1.65
Oct	0.61	0.76	0.69	0.57	0.78	ND	1.53	1.27
Nov	0.42	0.69	0.55	0.51	1.05	ND	0.95	0.69
Dec	0.90	0.48	0.44	0.48	0.75	ND	0.99	0.95
Total	7.77	8.54	7.37	6.65	9.08	4.27	12.90	12.57

ND = No Data

The South Well and the South West Well operate in an alternating lead/lag style. The data summarized in **Table 1** above represents the total combined flow readings from both active wells. The highest monthly water usage based on the data is 2.02 million gallons (MG) in June 2018. This value was used to estimate the system demands.

The average day demand (ADD) was estimated using the highest monthly water usage. The maximum day demand (MDD) was estimated by multiplying the ADD with a peaking factor of 1.5. The peak hour demand (PHD) was estimated by multiplying the MDD with a peaking factor of 1.5. **Table 2** summarizes the estimated ADD, MDD, and PHD based on the California Waterworks Standards.

**Table 2 – Summary of Average Day Demand, Maximum Day Demand, and Peak Hour Demand**

Average Day Demand <sup>a</sup>		Maximum Day Demand <sup>b</sup>		Peak Hour Demand <sup>c</sup>	
gpm	gpd	gpm	gpd	gpm	gph
46.7	67,296	70.1	100,944	105.2	6,309

<sup>a</sup>Highest monthly water usage (June 2018) divided by 30 days.

<sup>b</sup>ADD x 1.5.

<sup>c</sup>MDD x 1.5.



The South Well capacity of 240 gpm and the South West Well capacity of 300 gpm are both sufficient to meet the demands of the Water System. There is no other impact on the peak flow demand on the Water System because it does not provide water for irrigation purposes.

## 2.3 Water System Operation and Maintenance History

RMHE contracts with Quality Service, Inc. for operation and maintenance (O&M) of the Water System. **Table 3** lists the maintenance and monitoring duties performed by a Quality Service Certified Drinking Water Operator.

**Table 3 – Maintenance and Monitoring Schedule**

Component	Check and Frequency
South Well	Monthly: Coliform bacteria sample with a chlorine residual. Monitor static totalizer meter readings and draw down water levels.
South West Well	Daily: visual, hazards (electrical, chemical, etc.), correct operation (on-site).
	Monthly: Coliform bacteria sample with a chlorine residual. Monitor static totalizer meter readings and draw down water levels.
Distribution System	Monthly: One coliform bacteria sample per sample site plan with a chlorine residual.
	Quarterly: Flushing of unoccupied spaces.
	Annually: Testing all backflows installed in the system. Hydrant flushing.
Valves	Monthly: Visually inspect for leaks or cracks.
	Annually: Exercise valves.
Backflow Prevention Devices	Monthly: Visual inspection for leaks or cracks.
	Annually: Testing all backflows installed in the system, repair, or replacement if necessary.
Hydro-pneumatic Pressure Tank	Daily: visually inspect for leaks or cracks.
	Monthly: flushing out of the bottom drain valve.
Electrical Components	Monthly: Visual inspection of connections, hazards, and damage.
	Annually: Insuring connections are tight. Check proper operation of pumps by measuring amperage draw for each well pump when running.

The required operation and monitoring tasks associated with the Water System represent a significant cost incurred by the RMHE Owners. Since the compliance order for uranium maximum contaminant level (MCL) exceedances was issued by the County DER, additional monitoring of the Water System has been required. Consequently, there have been added costs to monitor and sample the wells for uranium and other specific constituents, laboratory testing, and reporting to the County. A detailed breakdown of the O&M plan is included in **Appendix B**.



### 3 Problem Description

This section describes the identified Water System deficiencies that affect the ability of the system to comply with regulations and provide a reliable, efficient, and safe source of drinking water that meets water quality standards. The groundwater source water quality affects the reliability of the Water System to produce drinking water compliant with water quality standards. In addition, the RMHE Owners incur a significant cost to have the Water System operated and maintained by Quality Service. Several options can address the issue of poor water quality, such as developing a new well or constructing a groundwater treatment facility, but only consolidation with a public water will address the cost to operate and maintain the Water System.

#### 3.1 Water Quality

The Water System groundwater source has concentrations of uranium that exceed the MCL of 10 mg/L. On May 10, 2016, the County DER issued a citation (Citation No. DER-16CO-006) to RMHE for uranium concentration exceedances of the MCL. County Compliance Order No. DER-16CO-006 is included in **Appendix C**. The original sample was collected in June 2015 from water produced by the South Well (PS Code 5000090-002). As a result, the Water System was required to begin quarterly uranium monitoring of each non-compliant well. **Table 4** shows the uranium monitoring results provided by RMHE to the County DER.

**Table 4 – Quarterly Uranium Monitoring Results (in pCi/L)**

Sample Quarter	2 <sup>nd</sup> Quarter 2015		3 <sup>rd</sup> Quarter 2015	4 <sup>th</sup> Quarter 2015	1 <sup>st</sup> Quarter 2016	Running Annual Average
South Well	24.0	23.0	22.0	20.0	19.0	21.1

The County DER determined that the Water System violated the California Health and Safety Code, Section 116555 and Section 64442, Title 22, CCR, since the water produced by the South Well during the monitoring period exceeded the uranium MCL on average. More recent samples taken from each active well in 2018 show, both, the South Well and South West Well exceeded the uranium MCL. The RMHE Owners post a Public Health Notice each quarter for exceedance of the 20 pCi/L MCL established for uranium, the first having been issued in September 2016 and the most recent issued for the 2<sup>nd</sup> quarter of 2020 in July.

**Table 5** and **Table 6** summarize the water quality for constituents sampled from 2017-2018 for the South Well and South West Well, respectively. The full Summary of Source Water Quality report is included in **Appendix D**.



**Table 5 – Water Quality Data for South Well<sup>a</sup>**

Chemical or Constituent	Sampling Date	Result	MCL	Unit
Calcium	2/14/2017	100		mg/L
Chloride	2/14/2017	35.5	500	mg/L
Hardness (as CaCO <sub>3</sub> )	2/14/2017	309.4		mg/L
Nitrate (as N)	7/2/2018	9.5	10	mg/L
Sulfate (as SO <sub>4</sub> )	2/14/2017	47.4	500	mg/L
TDS	2/14/2017	504	1000	mg/L
Gross Alpha	8/15/2018	19.2	15	pCi/L
Uranium (FWL Report)	8/15/2018	19	20	pCi/L
Uranium (FGL Report)	8/15/2018	29.9	20	µg/L
Total Aluminum	9/5/2017	1300	1000	µg/L
Total Arsenic	9/5/2017	ND	10	µg/L
Total Barium	9/5/2017	200	1000	µg/L
Total Iron	2/14/2017	2700	300	µg/L
Total Manganese	2/14/2017	56	50	µg/L
Total Coliform	9/19/2017	ND	<1	MPN/1000ML

<sup>a</sup>Quality Service Summary of Source Water Quality for RMHE

MCL = Maximum Contaminant Level

ND = Not Detected

pCi/L = picocuries per liter

**Table 6 – Water Quality Data for South West Well<sup>a</sup>**

Chemical or Constituent	Sampling Date	Result	MCL	Unit
Calcium	2/14/2017	89.8		mg/L
Chloride	2/14/2017	17.4	500	mg/L
Hardness (as CaCO <sub>3</sub> )	2/14/2017	322.1		mg/L
Nitrate (as N)	7/2/2018	8.2	10	mg/L
Sulfate (as SO <sub>4</sub> )	2/14/2017	46	500	mg/L
TDS	2/14/2017	449	1000	mg/L
Gross Alpha	8/15/2018	34.2	15	pCi/L
Uranium (FWL Report)	8/15/2018	26	20	pCi/L
Uranium (FGL Report)	8/15/2018	37.9	20	µg/L
Total Aluminum	9/5/2017	ND	1000	µg/L
Total Arsenic	9/5/2017	ND	10	µg/L
Total Barium	9/5/2017	210	1000	µg/L
Total Iron	2/14/2017	ND	300	µg/L
Total Manganese	2/14/2017	ND	50	µg/L
Total Coliform	9/19/2017	ND	<1	MPN/1000ML

<sup>a</sup>Quality Service Summary of Source Water Quality for RMHE

MCL = Maximum Contaminant Level

ND = Not Detected

pCi/L = picocuries per liter



The raw water from the South Well and South West Well have multiple constituents present that are near or above the respective MCL's, in addition to uranium. In testing performed on February 14<sup>th</sup>, 2017, nitrates were detected at 9.5 mg/L and 8.2 mg/L in the South Well and South West Well, respectively. These are just under the 10 mg/L MCL for nitrates and has required additional monitoring by operations staff. In testing performed on August 15<sup>th</sup>, 2018, the gross alpha levels were detected at 19.2 pCi/L and 34.2 pCi/L in the South Well and South West Well, respectively. These are both above the MCL of 15 pCi/L.

### 3.2 Operation and Maintenance

Costs to operate and maintain the Water System have resulted in a financial burden on the RMHE customers. The Water System must retain Quality Service to perform the extensive operations and monitoring tasks required to properly maintain the equipment. The costs of these services have increased since the compliance order was issued due to an increase in water quality sampling, lab testing, and reporting.

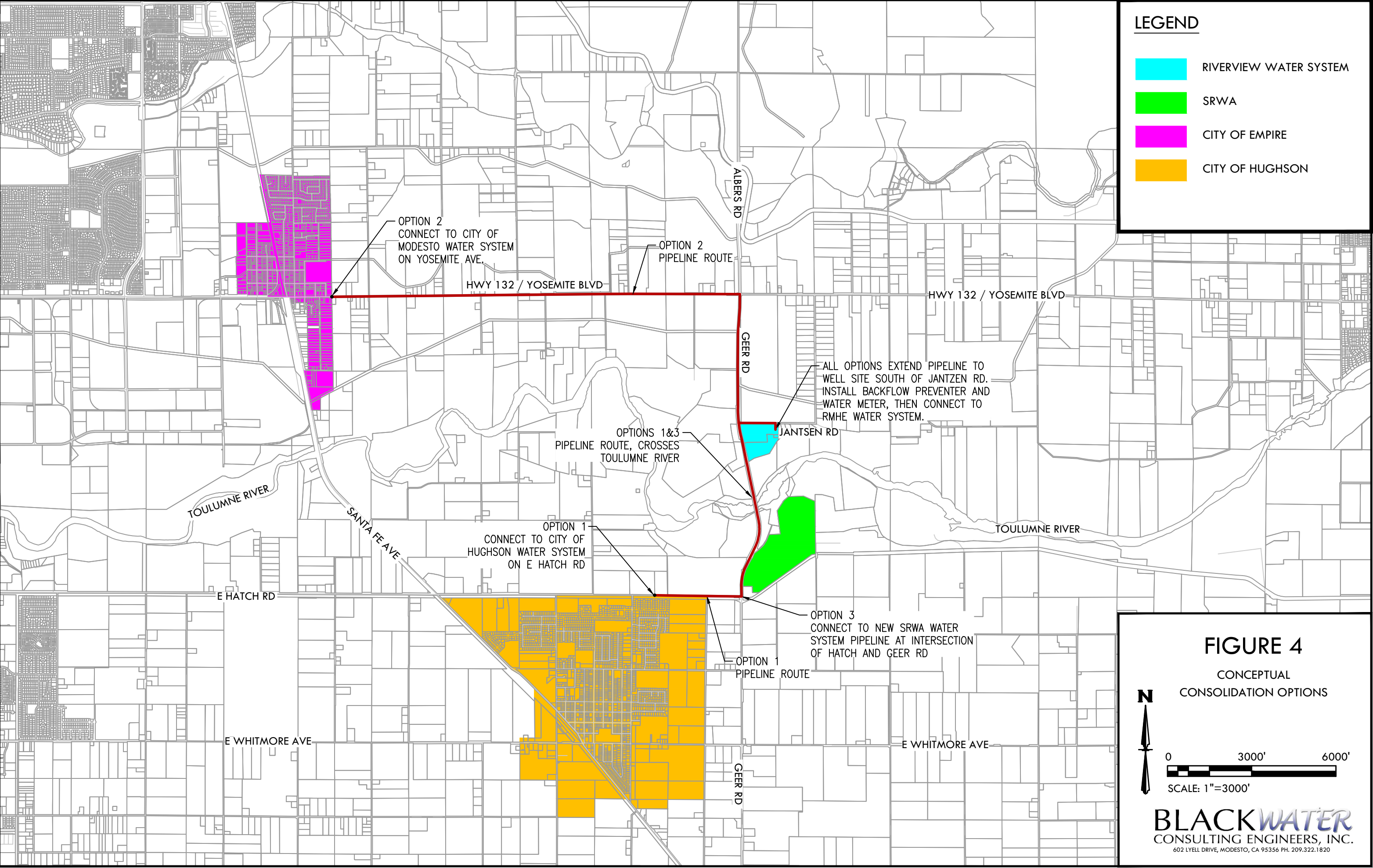


## 4 Consolidation Analysis

There are three potential consolidation options to connect to a community water system near the Riverview Mobile Home Estates. Three water systems within four miles include the City of Hughson, a City of Modesto-owned water system in the unincorporated County island town of Empire, and the Stanislaus Regional Water Authority (SRWA). Each potential service consolidation option will be evaluated as independent alternatives in Section 5. **Figure 4** provides an overview of conceptual pipeline improvement alignments for RMHE to consolidate with each agency.



I:\20291 RIVERVIEW MOBILE ESTATES\CAD\TASK-02 RIVERVIEW WATER SYSTEM\REPORTS\ENGINEERING REPORT\FIGURES\FIGURE 4-COMMUNITY WATER SYSTEMS.DWG PLOT: 2/12/2021 3:57:17 PM BY GUSTAVO MANCILLA





## 5 Alternative Analysis

Improvement alternatives were developed to determine strategies for future improvements to the existing Water System to address the identified deficiencies. Four (4) alternatives were considered to evaluate the project including: 1) No project; 2) On-site water treatment facility; 3) Drilling a new well; and 4) Consolidation with a nearby Community Water System (nearby community water system options include Hughson, Modesto, and the SRWA).

### 5.1 Alternative 1 – No Project

This alternative assumes the Water System will continue to operate in its present condition and no improvements to the Water System are considered. No improvements to the Water System will result in continued exceedances of the uranium MCL and possible MCL exceedances of other constituents. The long-term health of the RMHE community will be negatively impacted. There will be no immediate capital cost, however the O&M costs for RMHE customers will be significant and increase over time as the water quality declines.

### 5.2 Alternative 2 – On-site Water Treatment Facility

This alternative includes the construction of an on-site water treatment facility at RMHE that is capable of treating raw groundwater with high levels of uranium and other specific constituents.

The feasibility of constructing a groundwater treatment facility at RMHE was evaluated by Kleinfelder, Inc. in September 2019. Kleinfelder prepared a proposal, included in **Appendix E**, to design a new treatment facility for removal of uranium and other constituents. The major components of the proposal included discontinuing the use of the South Well by replacing the source with the North Well, installing a new packaged treatment system to remove uranium from the water source utilizing ion exchange technologies, chlorine disinfection, system rehabilitation involving well pump condition assessments and Variable Frequency Drive (VFD) retrofit, storage reservoir upgrades by repurposing the 10,000-gallon hydro-pneumatic pressure tank as a make-shift wet-well for booster pumps, and distribution booster pump station. Kleinfelder's proposed fee for providing the design in the outlined scope of work was \$77,865. Kleinfelder did not provide a construction cost estimate.

Quality Service also prepared a proposal, included in **Appendix E**, for the design and construction of a new groundwater treatment facility in August 2019. The proposal included design, engineering, and permitting for the installation and testing of a full-scale ion-exchange water filtration system for radium and uranium removal. The major components of the design included discontinuing the use of the South Well in favor of beginning use of the North Well, installation of a new storage tank and booster pump system, filtration system, electrical improvements, and equipment startup and testing. Quality Service's cost estimate for the entire project totaled \$886,293.

The construction of a new groundwater treatment facility to treat the on-site well water for uranium is costly. The cost estimates discussed above do not include the continued O&M costs that the RMHE Water System would require. These costs would increase after the completion of a new groundwater treatment facility due to additional equipment to monitor.



### 5.3 Alternative 3 – Construction of a New Well

This alternative includes the development of a new on-site well to replace the active wells with high uranium levels. A possible solution to reduce the uranium levels in the RMHE Water System is to drill and develop a new well that could have better water quality than the South Well and the South West Well. RMHE Owners previously evaluated this option with Quality Service in the past. Kleinfelder drilled a test hole on June 4, 2018 to evaluate the water quality at a potential new well location. The laboratory testing results for the test hole returned high levels of gross alpha and uranium that exceeded DDW MCL's. The determination was made at the time that development of a new well was not a feasible solution to address the Water System's problem. Refer to the Summary of Source Water Quality in **Appendix D**.

### 5.4 Consolidation Alternatives

Three (3) consolidation options have been considered to address the RMHE Water System's deficiencies. A project consisting of consolidation with an established water service agency has common details shared by all three (3) alternatives. Those general commonalities are discussed in this section. For clarity, the water service agencies will be referred to as "Consolidating Agency" and "Consolidating Water System" throughout this section. The unique benefits and challenges associated with each consolidation alternative will be discussed in the following subsections.

The designated Consolidating Agency will own, operate, and maintain a new water transmission pipeline. The transmission pipeline will establish a connection between the RMHE Water System and the nearest existing transmission main of the Consolidating Water System. The connection point at RMHE will be at the well site south of Jantzen Road at the 6-inch isolation valves located downstream of the existing pressure tank. Each consolidation option will include the following components at a minimum:

- Install a new master meter at the connection to the RMHE Water System inlet to provide usage data for the Consolidating Agency.
- Installation a backflow prevention device at the connection to the RMHE Water System.
- Demolish the existing 10,000-gallon hydro-pneumatic pressure tank.
- Abandon the wells on site.
- Transmission main from the Consolidating Agency to serve the RMHE Water System

All new system infrastructure and facilities will be designed to the Consolidating Agency's standards. The Consolidating Agency will own, operate, and maintain the proposed transmission pipeline to RMHE, including the master meter. RMHE will own, operate, and maintain the existing RMHE water distribution system and new backflow preventer. The Consolidating Agency will require an easement right-of-way for the new transmission pipeline and facilities.

Consolidation efforts will require a water service agreement between RMHE Owners and the Consolidating Agency to establish the terms of agreement including, at a minimum, the responsibility of each party, physical limits of responsibility for O&M of facilities, and service rates. The water service agreement will require Stanislaus Local Agency Formation Committee (LAFCO) review and approval on the expansion of Consolidating Agency's jurisdiction and sphere of influence. It is anticipated that the Consolidating Agency will apply for an emergency out-of-boundary service application with LAFCO.



#### 5.4.1 Option 1 – City of Hughson

This option includes the consolidation of the Water System with the City of Hughson (COH) water system. The COH owns and operates eight (8) groundwater wells, six (6) that were constructed between 1970-1990 and two (2) new wells developed in 2019. Only five (5) of the eight (8) groundwater wells are currently considered active, with three (3) of five (5) having arsenic treatment capability. The COH was issued Compliance Orders for arsenic and nitrates in 2012, initiating the development of new wells that could treat for arsenic. The COH issued a public notice indicating that their water system has exceeded the arsenic MCL of 10 mg/L over the last four quarters in August 2020.

The nearest existing transmission main of the COH water system is on E Hatch Road. Approximately 1.94 miles of transmission pipeline will be required to connect the RMHE Water System to the COH water system. The new transmission pipeline will need to connect to the COH existing water system via a hot tap tee fitting and addition of gate valves installed per COH standards. Additional improvements required include the following:

- Trench and install transmission pipeline at a 36-inch minimum depth first heading east on Hatch, then North on Geer Road, east on Jantzen Road to the RMHE connection point.
- Bore and jack operation to cross the Ceres Main Canal.
- The new transmission pipeline will cross the Tuolumne River on Geer Road by connecting to the side of the bridge with U-bolts.

#### 5.4.2 Option 2 –City of Modesto

This option includes the consolidation of the Water System with the City of Modesto (COM) water system. The COM's existing water service area consists of one large "contiguous service area" and several smaller "outlying service areas" including Empire, Salida, portions of north Ceres, and several others. The COM's existing water supply includes surface water and groundwater sources. In the 1990's, the COM and Modesto Irrigation District (MID) formed a Domestic Water Partnership, and the result was the construction of the Modesto Regional Water Treatment Plant (MRWTP) that became operational in 1995. The MRWTP is owned and operated by MID and the COM purchases wholesale treated surface water from MID. The MRWTP's current average supply is 60 million gallons per day (mgd). The COM has a total of 92 existing groundwater wells in the contiguous service area, 77 of which are currently active. The active groundwater wells have the capacity to supply approximately 107 mgd of groundwater. The COM's contiguous service area is primarily supplied by water from the MRWTP, with the groundwater supply serving to supplement the treated surface water supply.

The portion of the COM service area that is nearest to the RMHE is in the outlying town of Empire. Empire is located on State Highway 132/Yosemite Avenue, east of the COM. Empire is primarily served by a supply of treated surface water from the MRWTP.

The nearest existing transmission main of the COM water system in Empire is on East Yosemite Avenue. Approximately 3.89 miles of new transmission pipeline will be required to connect the water systems, making this the longest length of pipeline required out of all consolidation options. The new transmission pipeline will need to connect to the COM existing water system via a hot tap tee fitting. Additional improvements required include the following:



- Trench and install transmission pipeline at a 36-inch minimum depth from Empire heading east on Yosemite Avenue, south on Geer Road, and east on Jantzen Road to the RMHE connection point.
- Bore and jack operation to cross Modesto Lateral Number One.

#### 5.4.3 Option 3 – Stanislaus Regional Water Authority

This option includes the consolidation of the Water System with SRWA water system. The cities of Ceres and Turlock are currently supplied solely by groundwater sources. The cities of Ceres and Turlock formed the SRWA in 2015. SRWA is currently in partnership with Turlock Irrigation District (TID) to construct a multi-benefit Regional Surface Water Treatment Plant (RSWTP) to diversify regional water supplies. The project consists of an intake structure on the Tuolumne River, pump station, water treatment plant, and pipelines to deliver water to service areas. The project is set to begin in 2021 and the new RSWTP is expected to be operational by 2023. RMHE will connect to the SRWA water system by connecting to one of the future delivery pipelines from the RSWTP.

Based on a review of SRWA Regional Surface Water Supply Project drawings, the nearest transmission force main (FM) of the SRWA water system will be a new 30-inch FM that will be installed parallel to the Ceres Main Canal on the north bank. The Ceres Main Canal (and future 30-inch FM) intersects Geer Road at the intersection of E Hatch Road and Geer Road. This will be the ideal location to connect a transmission pipeline that leads to the RMHE Water System. The new transmission line will need to connect to the SRWA existing water system via a tee fitting. Approximately 1.26 miles of new transmission pipeline will be required to connect the water systems, making this the shortest length of pipeline required out of all consolidation options. Additional improvements required include the following:

- Trench and install transmission pipeline at a 36-inch minimum depth from the connection point at E Hatch Road and Geer Road, north on Geer Road, and east on Jantzen Road to the RMHE connection point.
- The new transmission pipeline will cross the Tuolumne River on Geer Road by connecting to the side of the bridge with U-bolts.

### 5.5 Alternative Evaluation

Alternative 1 – No Project was not evaluated as this alternative does not address the Water System deficiencies. Alternative 2 – On-site Water Treatment Facility and Alternative 3 – New Well Development were not evaluated as past efforts to address the Water System deficiencies included these options and they were determined not feasible. Alternative 4 – Consolidation is determined to be the most feasible alternative to address the Water System deficiencies. The three options for consolidation were evaluated and assigned scores based on financial and non-financial criteria, using a weighting factor system.

The evaluation criteria in this Report includes considerations for life cycle costs, environmental sustainability, operations and maintenance, and community impacts and benefits. Each option was reviewed based on the evaluation criteria shown in **Table 7**. The weighting factors were determined based on each criterion's relative importance, with higher weighting factors for criteria judged to have greater importance in the evaluation.



**Table 7 – Evaluation Criteria**

#	Evaluation Criteria	Weighting Factor, %
1	30-year Life Cycle Cost	20
2	Environmental Sustainability	20
3	Operations and Maintenance	20
4	Community Impacts and Benefits	40

The three options were scored from the most desirable (3) to the least desirable (1) for each evaluation criterion. The evaluation criteria are summarized in the following sections.

#### 5.5.1 30-year Life Cycle Cost

Capital costs and O&M costs for each alternative were developed and incorporated into a 30-year life cycle cost (LCC). The LCC assumed a real interest rate of 1.5 percent. **Table 8** provides a summary of the estimated costs. Scoring of the options for this category was based on the estimated LCC. The option with the lowest LCC was given the highest score. The option with the highest LCC was given the lowest score.

**Table 8 – Estimated Life Cycle Cost Scoring**

Option and Description	Project Cost	Annual O&M Cost	30-yr Life Cycle Cost	Score
Option 1 – Consolidation with City of Hughson	\$4,117,542	\$65,107	\$5,680,000	2
Option 2 – Consolidation with City of Modesto	\$7,777,666	\$76,082	\$9,600,000	1
Option 3 – Consolidation with SRWA	\$2,681,750	\$61,328	\$4,150,000	3

Detailed cost estimates for each alternative are included in **Appendix F**.

#### 5.5.2 Environmental Sustainability

Environmental sustainability considerations include the protection of natural resources, climate change, water and energy efficiency, and efficient use of land. The State Planning Priorities, as listed in Section 6504.1 of the Government Code were key factors that were also used to assign a score to an option's environmental sustainability. This portion of the Government Code is intended to promote equity, strengthen the economy, protect the environment, and promote public health and safety in the State. The factors specifically listed in the State Planning Priorities include: 1) Promote infill development; 2) Protect environmental and agricultural resources; and 3) Encourage efficient development patterns. **Table 9** presents the scoring of the three options, from most desirable (3) to least desirable (1) with regard to environmental sustainability.

**Table 9 – Environmental Sustainability Scoring**

Alternative 4 Option and Description	Score
Option 1 – Consolidation with City of Hughson	1
Option 2 – Consolidation with City of Modesto	2
Option 3 – Consolidation with SRWA	3



Option 3, consolidation with SRWA, was assigned the highest score because this alternative provides infrastructure to deliver a source of water that has compliant drinking water quality. Option 3 does this in the most efficient way compared with other options because Option 3 requires the least length of new transmission pipeline, minimizing the impact of construction on the public. It also has the lowest project cost, minimizing the burden on taxpayers. Construction of the transmission pipeline can take place in parallel with the construction of the RSWTP, reducing the overall impact to the public.

Option 1, Consolidation with the COH, was assigned the lowest score because this option does not immediately address the need of a water source with compliant drinking water quality. The COH water system is solely supplied by groundwater which has arsenic concentrations that tested above the MCL recently.

### 5.5.3 Operations and Maintenance

Operations and maintenance criteria consider the ease associated with each option for operating and maintaining the system. Options that are simpler or require less equipment and labor received the highest score. Due to each consolidation option requiring the same amount of O&M tasks at the RMHE site, options were evaluated only on the cost to maintain the transmission pipeline and distance for operations staff to travel to the RMHE site. All three options eliminate O&M responsibilities of RMHE staff. **Table 10** presents the scores of the three options, from most desirable (3) to least desirable (1) with regard to O&M.

**Table 10 – Operation and Maintenance Scoring**

Option and Description	Score
Option 1 – Consolidation with City of Hughson	2
Option 2 – Consolidation with City of Modesto	1
Option 3 – Consolidation with SRWA	3

Option 3 received the highest score due to proximity of the upstream connection point to RHME. Operators would have the least distance to travel outside the existing reach of their service area to provide routine inspections. No options considered are expected to significantly increase the O&M responsibilities of each respective water system agency.

### 5.5.4 Community Impacts and Benefits

Community impacts and benefits consider the effect that each option may have on the community. Options 2 and 3 equally benefit the community of RMHE by providing a reliable water source of good quality. Scoring of each option will consider impacts construction will have on the community outside of RMHE and evaluate any potential impacts on the community currently served by the agency of each consolidation option. **Table 11** lists the scores for the three options, from most desirable (3) to least desirable (1).

**Table 11 – Community Impacts and Benefits Scoring**

Option and Description	Score
Option 1 – Consolidation with City of Hughson	1
Option 2 – Consolidation with City of Modesto	2
Option 3 – Consolidation with SRWA	3



Option 3 was assigned the highest score because this option will have the least impact on the public during construction. This is due to the shorter length of transmission pipeline required which causes the least amount of traffic interruption during construction. It can also be constructed at the same time as the SRWA RSWTP construction, avoiding two separate instances of traffic interruption. Providing the RMHE community with high quality treated surface water will directly address the current issue they face.

Option 1 was assigned the lowest score because of the combination of the water quality issues currently associated with the COH water system and the impact construction activities would have on the community. Option 1 is the only alternative that involves consolidation with a water system that is solely dependent on groundwater sources. These groundwater sources have had recent history of exceeding the arsenic MCL. Consolidation with this water system would cause an additional burden on the community for a problem they are already addressing. This option also requires boring and jacking to cross the Ceres Main Canal. The bore and jack operation would have to take place in or near residential areas and could have a significant impact on the community.

#### 5.5.5 Summary

**Table 12** summarizes the raw score and weighted scores assigned to each option. Option 3 had the highest total weighted score of 3.0. Based on the evaluation criteria, Option 3 is the recommended project.

**Table 12 – Raw Scores and Weighted Scores for Options**

#	Evaluation Criteria	Weighting Factor	<u>Option 1</u> Consolidation with COH		<u>Option 2</u> Consolidation with COM		<u>Option 3</u> Consolidation with SRWA	
			Raw Rank	Weighted Score	Raw Rank	Weighted Score	Raw Rank	Weighted Score
1	30-year Life Cycle Cost	0.2	2.0	0.4	1.0	0.2	3.0	0.6
2	Environmental Sustainability	0.2	1.0	0.2	2.0	0.4	3.0	0.6
3	Operations and Maintenance	0.2	2.0	0.4	1.0	0.2	3.0	0.6
4	Community Impacts and Benefits	0.4	1.0	0.4	2.0	0.8	3.0	1.2
Total Weighted Score		1.0	1.4		1.6		3.0	



## 6 Selected Project

The selected project is Alternative 4, Option 3 – Consolidation with SRWA. Consolidation with SRWA addresses the Water System deficiencies identified in the problem description by accomplishing the following:

- Providing a reliable water source to meet drinking water quality requirements.
- Eliminating the O&M of the well water system responsibilities and reducing costs incurred by RMHE. SRWA would take over responsibility of operating and maintaining the distribution system.

No land will be purchased or acquired for this project. Right-of-way or easement acquisition is anticipated for the installation of the transmission pipeline within roadways or in shoulders. Coordination with landowners and investigation of existing utilities along the proposed route of the transmission pipeline are features of the design that will need to be carefully considered.

This project will require negotiation with SRWA to establish a water service agreement between RMHE Owners and the SRWA. This agreement will establish the terms of agreement including, at a minimum, the responsibility of each party, physical limits of responsibility for O&M of facilities, and service rates. LAFCO requirements and coordination will be necessary to expand the SRWA's Sphere of Influence to include the RMHE. LAFCO coordination will include additional fees to the project that are accounted for in the cost estimate. The project will be consistent with the SRWA standards and the Department of Public Works Stanislaus County Standards and Specifications.

The new water system will have a new master meter installed at the RMHE distribution system service connection. Since the new water source will be treated surface water that is compliant with drinking water standards, the water meter and abandonment of two (2) active wells are considered green components of the project. Abandoning two (2) active wells and one (1) inactive well and transitioning to a supply of treated surface water helps balance the demand on water sources and protects against the overdraw of groundwater aquifers. This project includes the demolition of a 10,000-gallon hydro-pneumatic storage tank as the connection to the SRWA water system will provide sufficient capacity to meet the potable water system MDD.

The SRWA project construction

### 6.1 Major Project Components

The major project components and estimated useful life of the project are presented in **Table 13**.

**Table 13 – Project Components Estimated Useful Life**

Component	Useful Life (years)
Transmission Structures (Pipes)	35
Valves	15 to 35
Water Meter	25
Backflow Preventer	15 to 35

<sup>a</sup>Based on the Environmental Protection Agency (EPA) typical values



## 7 Cost Estimate

The total estimated project cost for the selected project is \$2,681,750. The total cost includes construction and project administration, planning, design, environmental, and field investigations, all of which are eligible under the SWRCB DWSRF Program. Soft costs for engineering and construction services are based on 15-percent of the construction cost. **Table 14** summarizes the budget cost for the project.

**Table 14 – Estimated Project Cost**

System Improvement Description	Qty	Unit	Unit Cost	Total
Mobilization/Demobilization	1	LS	\$78,000	\$78,000
Demolition and Removal of Existing Equipment	1	LS	\$8,000	\$8,000
Well Abandonment	1	LS	\$6,000	\$6,000
Traffic Control	1	LS	\$110,000	\$110,000
Sheeting and Shoring	1	LS	\$24,000	\$24,000
12" Water Line	6652	LF	\$160	\$1,064,320
Tapping Sleeve and Valve	1	EA	\$6,000	\$6,000
Connect to Existing Piping	2	EA	\$5,000	\$10,000
12" Gate Valve	2	EA	\$2,650	\$5,300
Backflow Preventer	1	EA	\$10,000	\$10,000
Trench Resurfacing	6652	LF	\$44	\$292,688
6" Diameter Water Master Meter	1	EA	\$6,000	\$6,000
Disinfection and Testing	1	LS	\$10,000	\$10,000
Easement Acquisition and Permits	1	LS	\$20,000	\$20,000
Construction Subtotal				\$1,650,308
Contingency (25%)				\$412,577
Construction Total				\$2,062,885
Engineering, Environmental, Field Investigation (15% construction cost)				\$309,433
Construction Management & Administration (15% construction cost)				\$309,433
<b>Estimated Total Project Cost</b>				<b>\$2,681,750</b>

The total anticipated O&M cost to SRWA to incorporate RMHE into their water system is approximately \$3,640. The annual cost to RMHE for SRWA water supply based on monthly water meter charge and water rate charge for maximum monthly usage is approximately \$57,688.



## 8 Proposed Schedule

The proposed schedule for implementing the selected project is presented in **Table 15**. The project schedule includes the planning phase tasks for engineering, environmental, and field investigations through construction phase tasks, including completing the application for construction funding.

**Table 15 – Project Schedule**

Task	Estimated Date of Completion
<b><u>Planning and Design Phase</u></b>	
Approval of Engineering Report	March 2021 (Completed)
Prop 1 TA Work Plan Approval (Estimated review time – 6 Months)	September 2021
Long-Term Affordability Study	December 2021
Draft Amendment for Environmental Document/CEQA Submit Environmental Documents	June 2022 September 2022
Water Service Agreement with SRWA LAFCO Approval of Consolidation	April 2022 May 2022
30% Plans and Specifications	March 2022
100% Final Plans and Specifications	June 2022
Field Investigations/ROW Easements	June 2022
Draft Construction Planning Application Construction Application Submitted by SRWA	July 2022 August 2022
<b><u>Construction Phase (Contingent on SWRA Construction Completion Date in beginning of 2023)</u></b>	
Advertise Project for Bidding	April 2023 – June 2023
Award Construction Contract (Estimated Final Budget Authorization Review – 3 Months)	September 2023
<b>Construction</b>	October 2023 – November 2023
<b>Project Closeout</b>	December 2023



## **Appendix A**

### **Water System Permit**





**DEPARTMENT OF ENVIRONMENTAL RESOURCES**

3800 Cornucopia Way, Suite C, Modesto, CA 95358-9494  
Phone: 209.525.6700 Fax: 209.525.6774

March 17, 2016

Bill Ebert  
2967 Daylight Way  
San Jose, CA 95111

**RE: TRANSMITTAL OF WATER SUPPLY PERMIT 2016-03-005**

In response to the application for water supply permit dated April 20, 2014, along with additional required documents, Stanislaus County Department of Environmental Resources has prepared Water Supply Permit 2016-03-005. The permit is being transmitted to the Riverview Mobile Estates Water System under cover of this letter.

Please review each item of the Conditions and ensure the Riverview Mobile Estates Water System complies with each of the requirements. If you have any questions regarding this matter, please contact Rachel Riess at (209) 525-6720.

Sincerely,

Rachel Riess, REHS  
Registered Environmental Health Specialist

Enclosure (1)



**STATE OF CALIFORNIA**  
**DOMESTIC WATER SUPPLY PERMIT**

**Issued To**

**Riverview Mobile Home Estates Water System**

**Public Water System No. 5000090**

**By**

**STANISLAUS COUNTY**  
**DEPARTMENT OF ENVIRONMENTAL RESOURCES**



**PERMIT NUMBER: 2016 – 03 – 005**

**DATE: March 17, 2016**

**WHEREAS:**

1. **Riverview Mobile Home Estates, LLC**, submitted an application dated **April 20, 2014**, to **Stanislaus County Department of Environmental Resources** to operate a public water system. The application was submitted in accordance with California Health and Safety Code, Section 116525.
2. This public water system is known as the **Riverview Mobile Home Estates Water System** located at **8200 Jantzen Road, Modesto, CA 95357** whose headquarters is located at **2967 Daylight Way, San Jose, CA 95111**.
3. The legal owner of the **Riverview Mobile Home Estates Water System** is **Riverview Mobile Home Estates, LLC**. **Riverview Mobile Home Estates, LLC**, therefore, is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.
4. The **Riverview Mobile Home Estates Water System** for which the permit application has been submitted is as described briefly below; a more detailed description of the permitted system is described in the TMF Capacity Assessment Form (February 2015) and supplemental documents:

The **Riverview Mobile Home Estates Water System** is by definition a community water system located in the unincorporated area of Stanislaus County adjacent to the city of Modesto. **Riverview Mobile Home Estates Water System** provides potable water to approximately 250 residents of a mobile home park. The parcel is approximately 17.13 acres in size and provides domestic water by means of 175 service connections that



serves approximately 174 mobile home spaces and one manager's office. The water system is served by two active wells; South Well (5000090-002) and South West New Well (5000090-013).

South Well that is 220-feet deep is believed to have been constructed in 1978, with an estimated 50-foot unknown annular seal and a 10-inch steel casing. The South Well is equipped with a 240-gallon per minute (GPM) 20-HP submersible pump.

South West New Well that is 140-feet deep constructed on May 20, 2004, with a 95-foot bentonite annular seal and a 10-inch PVC casing. The South West New Well is equipped with a 300-gallon per minute (GPM) 20-HP submersible pump.

Both wells discharge to a 10,000-gallon pressure tank, prior to entering the domestic water system. Irrigation demands are not provided by this well. Additional details of this water system can be found in the technical report titled "*Public Water System Description Report*".

5. The service area of the **Riverview Mobile Home Estates Water System** shall be shown on the service area map on page 5 of the Permit Report.

### ***And WHEREAS:***

1. **Riverview Mobile Home Estates, LLC**, has submitted all of the required information relating to the proposed operation of the **Riverview Mobile Home Estates Water System**.
2. The **Stanislaus County Department of Environmental Resources** has evaluated all of the information submitted by **Riverview Mobile Home Estates, LLC**, and has conducted a physical investigation of the proposed **Riverview Mobile Home Estates Water System**.
3. The **Stanislaus County Department of Environmental Resources** has been delegated authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

***THEREFORE:*** The **Stanislaus County Department of Environmental Resources** has determined the following:

1. The **Riverview Mobile Home Estates Water System** meets the criteria for and is hereby classified as a **community** water system.
2. The applicant has demonstrated that the proposed **Riverview Mobile Home Estates Water System** has sufficient source capacity to serve the anticipated maximum day demand.
3. The design of the proposed water system complies with the Water Works Standards and all applicable regulations.
4. The applicant has demonstrated adequate technical, managerial, and financial capacity to operate reliably the proposed water system.



5. Provided the following conditions are complied with, the **Riverview Mobile Home Estates Water System** should be capable of providing water to consumers that is pure, wholesome, and potable and in compliance with statutory and regulatory drinking water requirements at all times.

**RIVERVIEW MOBILE HOME ESTATES, LLC, IS HEREBY ISSUED THIS DOMESTIC WATER SUPPLY PERMIT TO OPERATE THE RIVERVIEW MOBILE HOME ESTATES WATER SYSTEM.**

The **Riverview Mobile Home Estates Water System** shall comply with the following permit conditions:

1. The **Riverview Mobile Home Estates Water System** shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted hereunder.
2. The only sources approved for potable water supply are as follows:

Source	PS Code	Status	Estimated Capacity	Comments
South Well	5000090-002	Active	240 GPM	Untreated
South West New Well	5000090-013	Active	300 GPM	Untreated

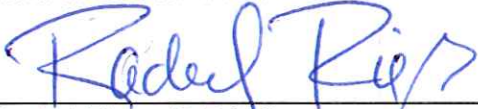
3. No changes, additions, or modifications shall be made to the sources or treatment mentioned in Conditions unless an amended water permit has first been obtained from the County. No changes to the distribution system shall be made unless written approval for the changes has been provided from the County.
4. All water supplied by **Riverview Mobile Home Estates Water System** for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) and Action Levels (ALs) established by the California Department of Public Health. If the water quality does not comply with the California Drinking Water Standards, treatment shall be provided to meet standards.
5. The **Riverview Mobile Home Estates Water System** shall comply with Title 17 of the California Code of Regulations (CCR), to prevent the water system from being contaminated from possible cross-connections. The **Riverview Mobile Home Estates Water System** shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow prevention devices shall be tested annually.
6. **Riverview Mobile Home Estates Water System's** distribution system must be overseen by a California Certified Water Distribution System Operator, Grade D1 or higher. The name and a copy of the operator's certification shall be provided to the County.



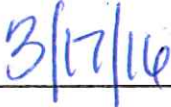
This permit supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the **Stanislaus County Department of Environmental Resources**. This permit is non-transferable. Should the **Riverview Mobile Home Estates Water System** undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

Any change in the source of water for the water system, any modification of the method of treatment as described in the Permit Report, or any addition of distribution system storage reservoirs shall not be made unless an application for such change is submitted to the Department.

**Stanislaus County Department of Environmental Resources**  
**Environmental Health Division**



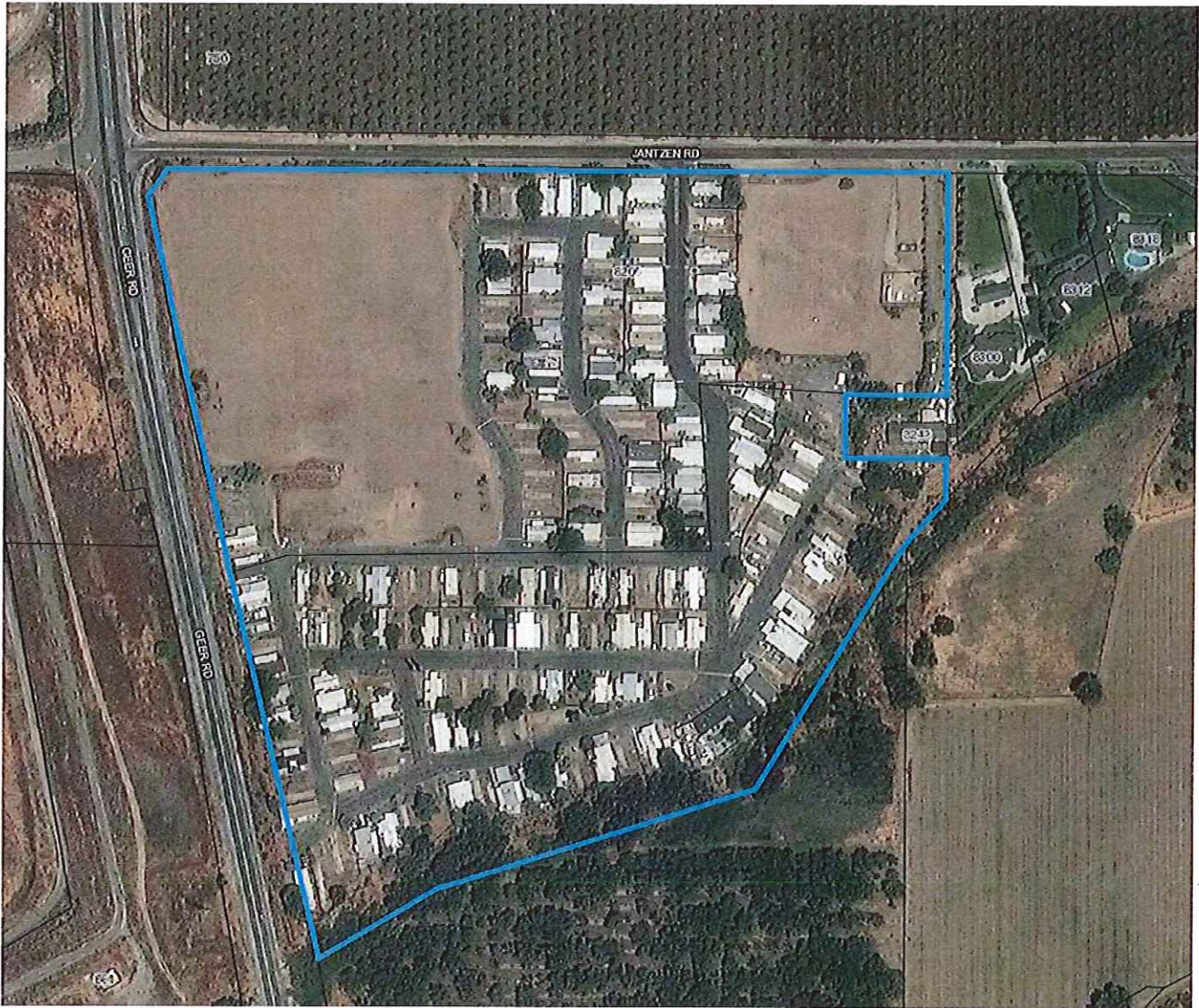
Rachel Riess, R.E.H.S.



Date



**Riverview Mobile Home Estates – 8200 Jantzen Road, Modesto, CA 95357**  
**APN: 018-068-001 and APN: 018-069-001**





## **Appendix B**

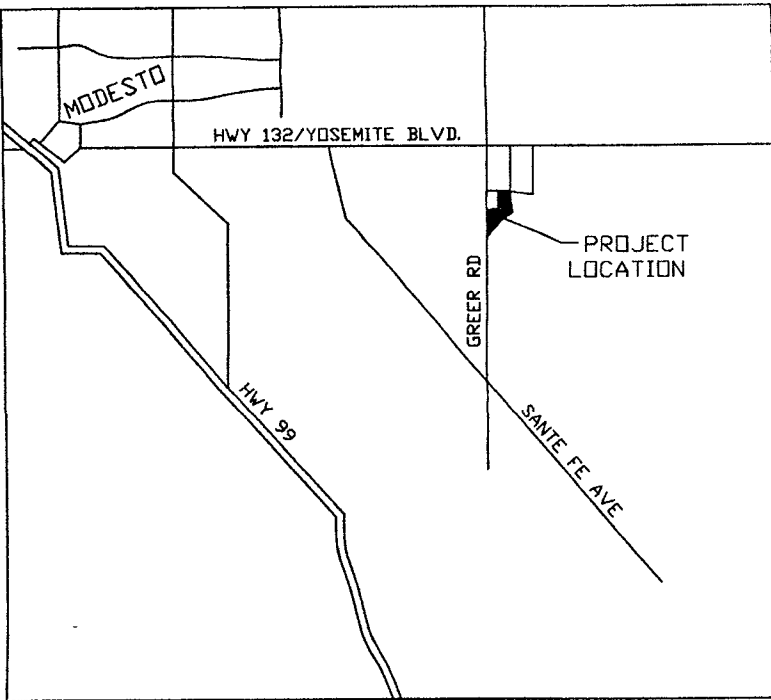
### **Water System Documents**



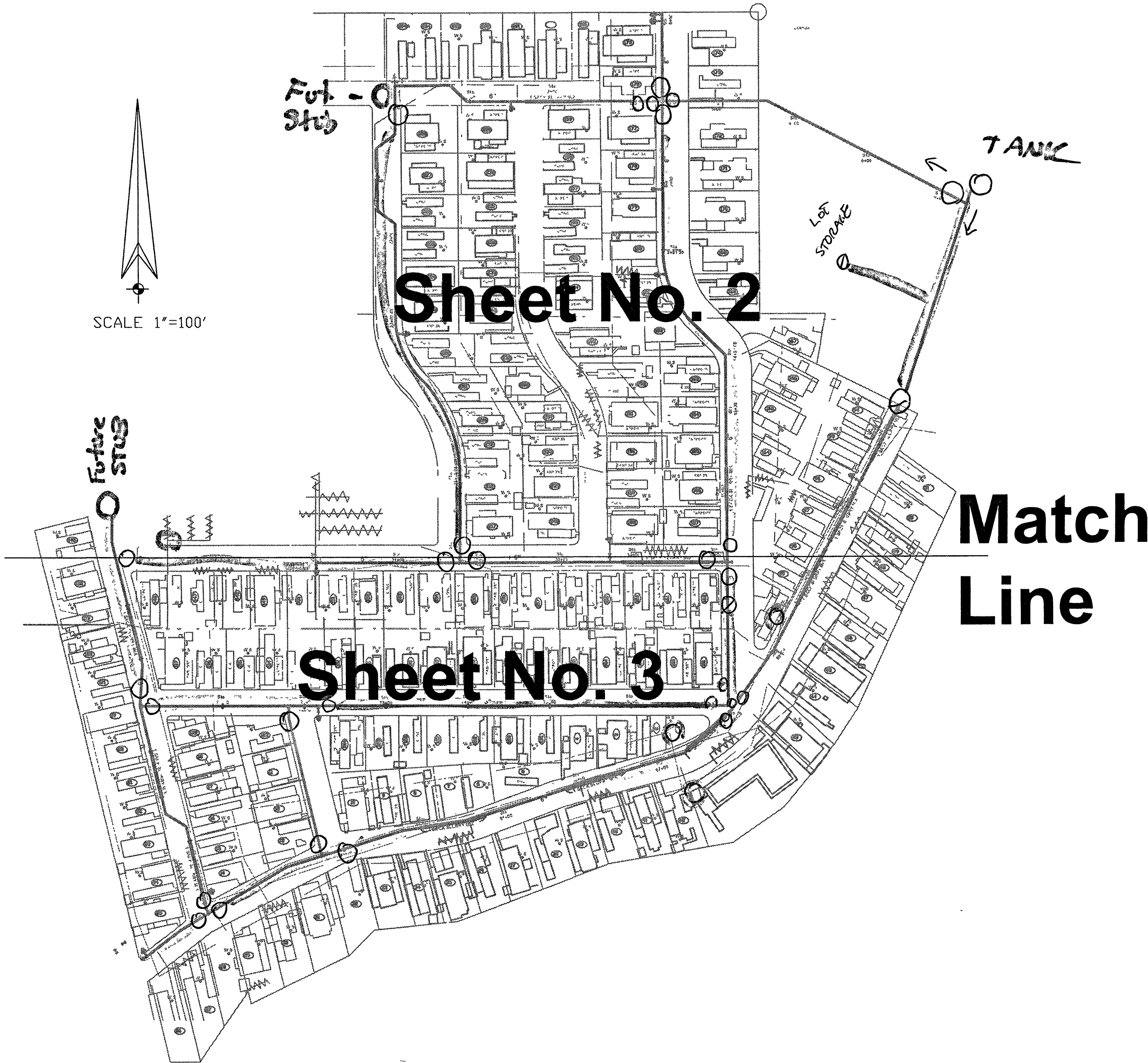
# RIVERVIEW ESTATES WATER SYSTEM REPLACEMENT

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE STATE OF CALIFORNIA TITLES 22 & 25 AND THE 2007 CALIFORNIA PLUMBING CODE.
- A PERMIT SHALL BE OBTAINED FROM THE STATE OF CALIFORNIA AND STANASLUAS COUNTY PRIOR TO BEGINNING ANY WORK.
- INDICATED UTILITIES SUCH AS ELECTRIC AND GAS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- ALL MAIN LINE WATER PIPE SHALL BE 6" UNLESS NOTED OTHERWISE ON THE PLANS AND SHALL CONFORM TO THE FOLLOWING:
  - PIPE SHALL BE HDPE POTABLE WATER PIPE 3408 - #3608 ASTM F714 OR ASTM 3350 - 34546C - AWWAC906 \$ C901 - NSF 61.  
4" AND LARGER PIPE CLAS 150 OR BETTER.
  - PVC COUPLINGS FOR PLAIN END PIPES SHALL BE OF THE SAME TYPE OF MATERIAL AND EQUIVALENT TO THE CLASS OF PIPE FOR WHICH THEY ARE TO BE USED AND SHALL BE APPROPRIATELY MARKED.
- ALL ELBOWS, TEES AND OTHER FITTINGS SHALL HAVE APPROPRIATELY PLACED AND SIZED THRUST BLOCKS. SEE DETAIL FOR THRUST BLOCK SCHEDULE.
- WATER METERS SHALL BE INSTALLED AT RISER HOOK UP LOCATION APPROXIMATE LOCATIONS OF SERVICE BOXES ARE SHOWN ON THE PLANS. CONTRACTOR SHALL MAKE FINAL DETERMINATION THROUGH COORDINATION WITH OWNER AND ENGINEER IN FIELD.
- CONTRACTOR SHALL INSTALL SERVICE LINE TO WATER SERVICE PEDESTAL ALONG ALIGNMENT TO BE DETERMINED IN FIELD. SERVICE LINE SHALL BE MINIMUM 12" DEEP AND SHALL BE 3/4" DIAMETER MINIMUM UNLESS NOTED.
- RECORD DRAWINGS. CONTRACTOR SHALL MAINTAIN ACCURATE MARKED UP PLANS FOR USE IN THE PREPARATION OF RECORD DRAWINGS. A COPY OF THE CONTRACTOR'S MARK-UPS SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER UPON COMPLETION OF THE PROJECT.
- INSTALLATION OF THE PIPELINE SHALL BE CARRIED OUT IN ACCORDANCE WITH AWWA C605-05 SECTION 7. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C605-05 SECTION 7.3.
- DISINFECTION OF THE WATER PIPELINES SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651-05.
- AIR RELEASE VALVES SHALL BE INSTALLED AT STRATEGIC HIGH POINTS THROUGHOUT THE SYSTEM. DUE TO THE LIMITED TOPOGRAPHY OF THE PARK, IT IS ANTICIPATED THAT HIGH POINTS WILL BE CREATED DUE TO ADJUSTMENTS IN GRADE THAT WILL BE MADE TO ACCOMMODATE EXISTING UTILITIES. LOCATIONS WILL BE ESTABLISHED THROUGH COORDINATION BETWEEN ENGINEER AND CONTRACTOR DURING PIPELINE INSTALLATION. AIR RELEASE VALVES SHALL BE INSTALLED PER DETAIL ON SHEET 4.
- CHEMICALS MATERIALS AND PRODUCTS USED SHALL COMPLY WITH STANISLAUS COUNTY STANDARDS, SECTION 64591, NSF/ANSI 61-2005 REGARDING INDIRECT ADDITIVES AND SECTION 64590 FOR DIRECT ADDITIVES.
- THE CONTRACTOR SHALL CONSTRUCT THE NEW WATER SYSTEM IN SUCH A MANNER THAT THE EXISTING WATER SYSTEM REMAINS IN SERVICE FOR ANY GIVEN CUSTOMER UNTIL SUCH A TIME THAT A PARTICULAR SECTION OF THE NEW WATER SYSTEM IS COMPLETED, HAS BEEN DISINFECTED AND TESTED, AND IS APPROVED TO PROVIDE WATER SERVICE TO THE CUSTOMER. IT IS EXPECTED THAT THE NEW SYSTEM BE BROUGHT INTO SERVICE IN PHASES, TO BE DETERMINED BY THE CONTRACTOR AND TO BE APPROVED BY THE OWNER OR ENGINEER.



VICINITY MAP  
NOT TO SCALE



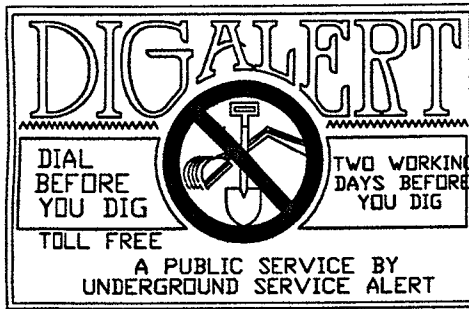
Match  
Line

## SHEET INDEX

- W-1 - Title Sheet
- W-2 - North Plan
- W-3 - South Plan
- Details
- Details

EXISTING UNDERGROUND STRUCTURES.  
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

HOLD HARMLESS & INDEMNIFICATION CLAUSE.  
THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, THE STATE OF CALIFORNIA, LOCAL CITY AND COUNTY AGENCIES AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION OF THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR THE LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE STATE OF CALIFORNIA, LOCAL CITY AND COUNTY AGENCIES AND THE ENGINEER.



Engineer:  
Lawrence D. McDermott  
RCE/PLS  
18075 LaVentana  
Murrieta, Ca. 92562  
(951)304-0111  
Fax (951)696-5218  
e-mail: aldas@gte.net

**RIVERVIEW MHP**  
**8200 Jantzen Road**  
**Modesto, CA. 95357**

No.	Date	Revision	By:	App'd



CIVIL ENGINEER / LAND SURVEYOR

*L. McDermott*  
ENGINEER RCE 23107 exp. 12/31/15  
DATE 4/12/2014

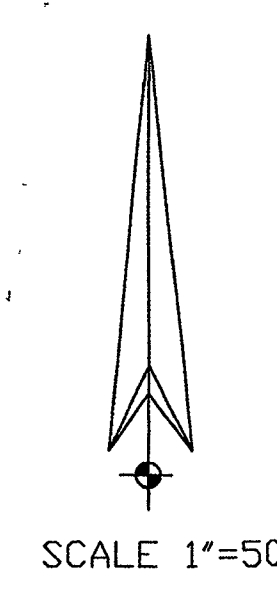
**RIVERVIEW MHP**  
**WATER SYSTEM**  
**TITLE SHEET**

Sheet 1  
of  
5 Sheets

24A # 247810 9006 7-17-14

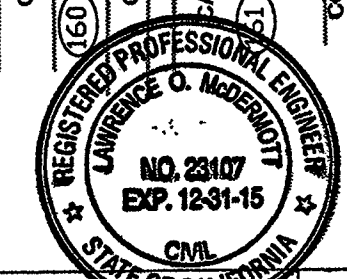


- LEGEND**
- EXIST. GAS
  - EXIST. WATER
  - EXIST. U.G. ELECTRIC
  - LEECH FIELD
  - ✕ VALVE (SIZE SAME AS LINE)
  - ▶ REDUCER
  - FIRE HYDRANT



Match Sheet 3

**SEE SHEET No. 3**

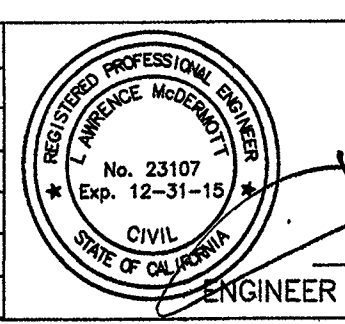


APPROVED  
Approval of these plans does not authorize or approve any omission or deviation from requirements of State Law or local ordinances.  
One set of approved plans shall be available on the project site at all times.  
State of California  
Department of Housing and Community Development  
Division of Codes and Standards  
No. 23107  
Date 1/17/15

Engineer:  
Lawrence O. McDermott  
RCE/PLS  
18075 LaVentana  
Murrieta, Ca. 92562  
(951)304-0111  
Fax (951)696-5218  
e-mail: altas@gte.net

**RIVERVIEW MHP**  
**8200 Jantzen Road**  
**Modesto, CA. 95357**

No.	Date	Revision	By:	App'd.



CIVIL ENGINEER / LAND SURVEYOR  
*Lawrence O. McDermott*  
ENGINEER RCE 23107 exp. 12/31/15 DATE

1843-1-6"  
46 SV 1-1"

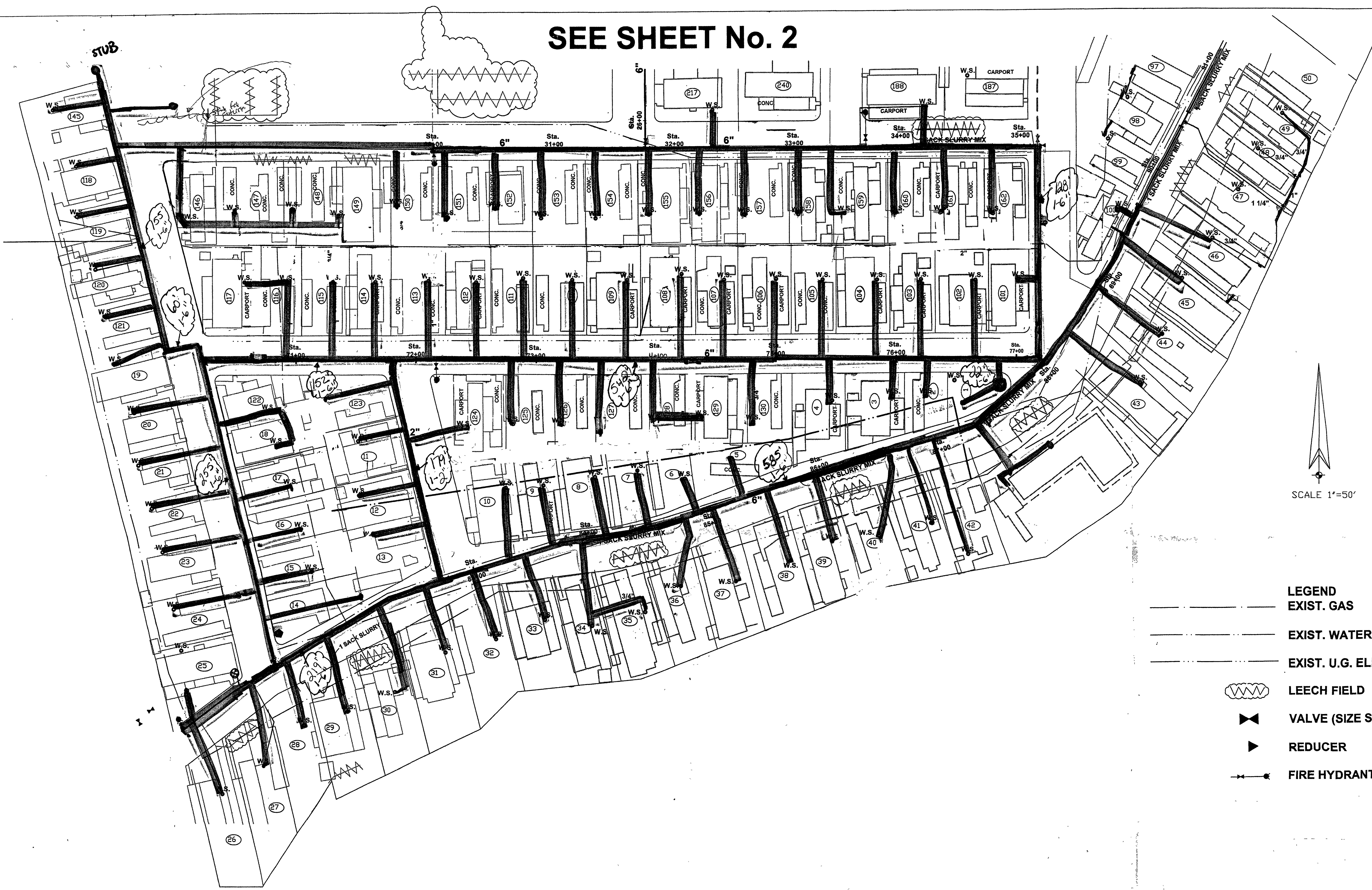
**RIVERVIEW MHP**  
**WATER SYSTEM**  
**NORTH HALF**

Sheet 2  
of  
5 Sheets



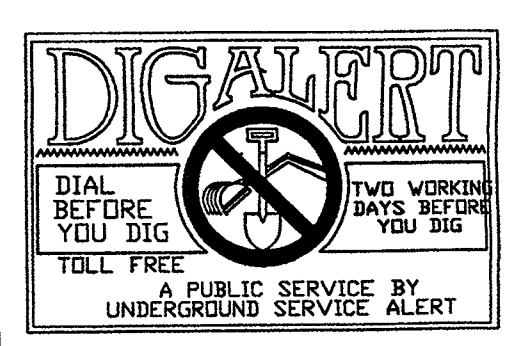
944M  
C:\mswms\944M  
(9500) 201770

SEE SHEET No. 2



SCALE 1"=50'

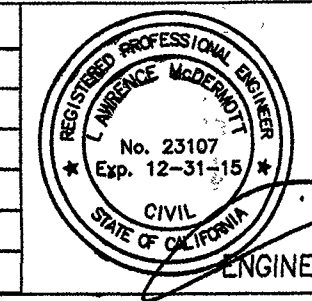
- LEGEND**
- EXIST. GAS
  - EXIST. WATER
  - EXIST. U.G. ELECTRIC
  - LEACH FIELD
  - VALVE (SIZE SAME AS LINE)
  - REDUCER
  - FIRE HYDRANT



Engineer:  
Lawrence D. McDermott  
RCE/PLS  
18075 LaVentana  
Murrieta, Ca. 92562  
(951)304-0111  
Fax (951)696-5218  
e-mail: aldas@gte.net

**RIVERVIEW MHP**  
**8200 Jantzen Road**  
**Modesto, CA. 95357**

No.	Date	Revision	By:	App'd.



CIVIL ENGINEER / LAND SURVEYOR  
DATE 12/31/15

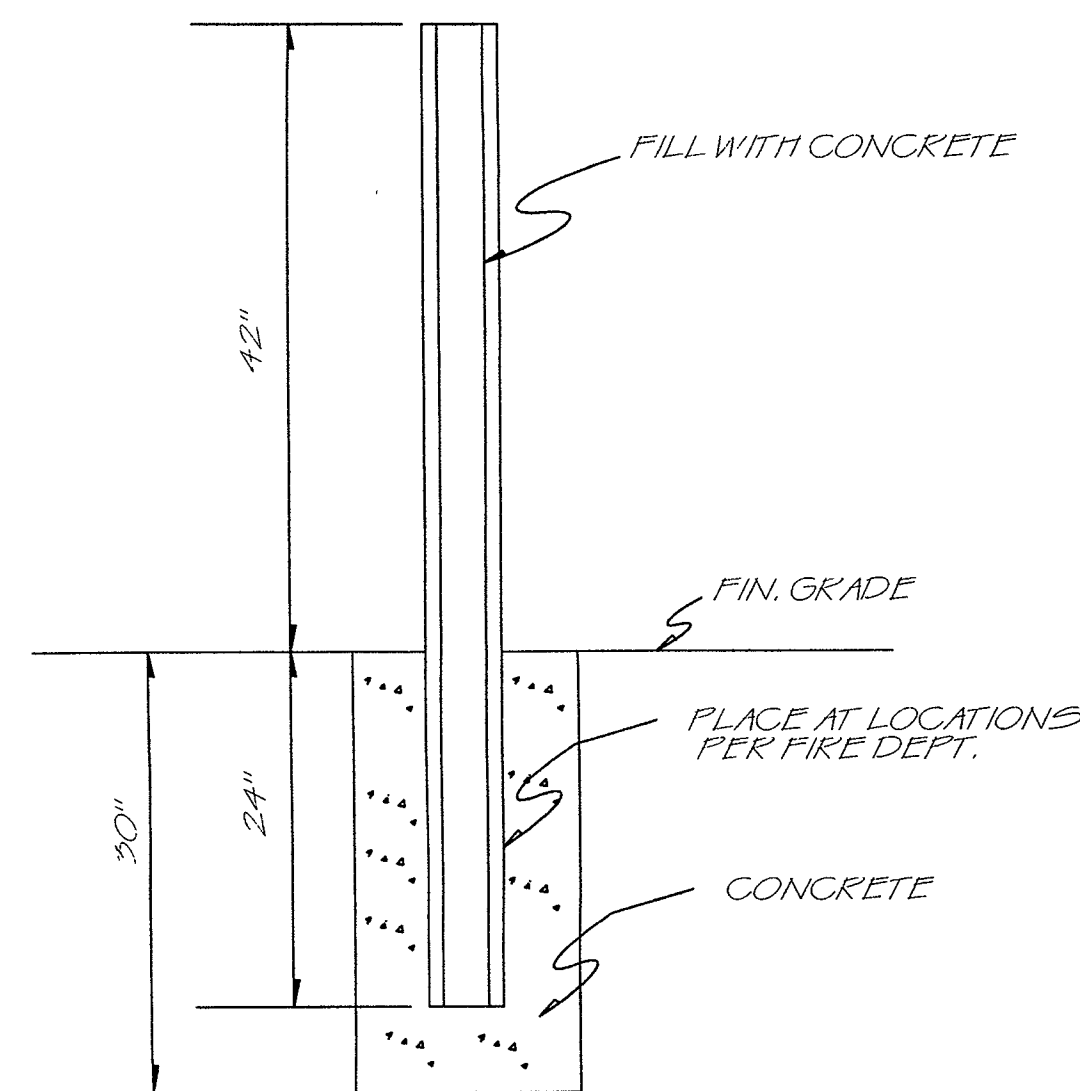
Total 1-6"  
22.97  
96 SV 1-1"

**RIVERVIEW MHP**  
**WATER SYSTEM**  
**SOUTH HALF**

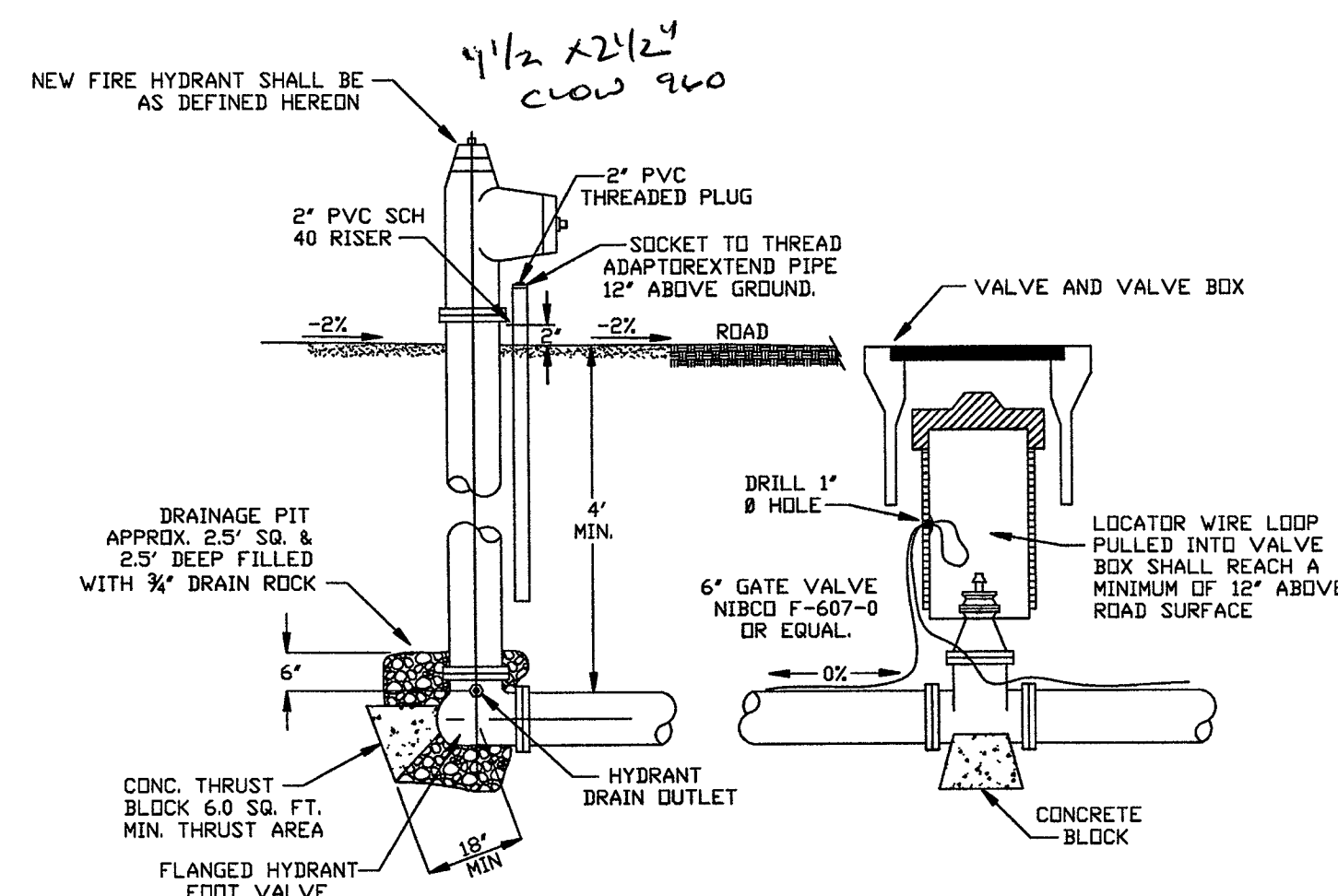
Sheet 3  
of 5 Sheets

APPROVED  
Approval of these plans does not authorize or approve any omission or deviation from requirements of State Law or local ordinances. One set of approved plans shall be available on the project site at all times.  
State of California  
Department of Housing and Community Development  
Division of Codes and Standards  
No. 1017  
Date 1/17/16 By [Signature]



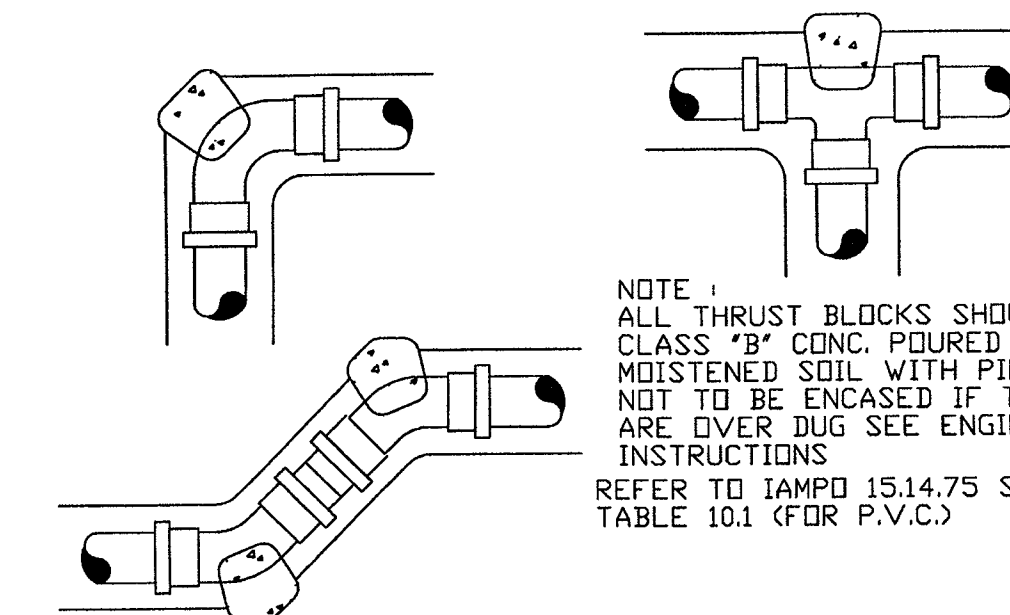


FIRE HYDRANT PROTECTION DETAIL  
OR EQUAL



FIRE HYDRANT DETAIL  
NOT TO SCALE

- NOTES:
1. FIRE HYDRANTS SHALL BE ANVA C800 HAVING ONE 4 IN. STEAMER NOZZLE AND TWO 1/2 IN. SIDE OUTLET NOZZLES. THE HYDRANT MAIN VALVE DRUMS SHALL BE 1/2 IN. FIRE HYDRANTS SHALL BE ONE OF THE FOLLOWING MODELS: KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE), KENNEDY K80A (CONCRETE).
  2. FIRE HYDRANT BARRELS SHALL BE EXTENDED WHERE UNAVOIDABLE IN ORDER TO MAINTAIN PROPER GRADE. STAGGING EXTENSIONS USING MORE THAN ONE WILL NOT BE ALLOWED.
  3. FIRE HYDRANT LATERALS SHALL BE DRILLED WITH FLANGED JOINTS OR MECHANICAL JOINTS WITH RESTRAINED JOINTS. THE LATERAL SHALL BE PROVIDED WITH POSITIVE RESTRAINT BETWEEN THE SHOOTER VALVE AND THE FIRE HYDRANT.
  4. WHEN POURING THE THRUST BLOCK, CARE SHALL BE TAKEN NOT TO ALLOW CONCRETE TO PLUG OR INTERFERE WITH THE HYDRANT DRAIN HOLES.
  5. THE PERMANENT SHOULDER PLACED IN THE DRAIN PIT SHALL BE COMPLETELY COVERED WITH A LAYER OF 3/4 IN. FILL TOPPING PAPER OR 6 MIL. POLYETHYLENE FILM.
  6. ALL VALVE COVERS IN ROADWAYS SHALL BE INSTALLED 1/2 IN. BELOW FINISHED ROAD SURFACE.

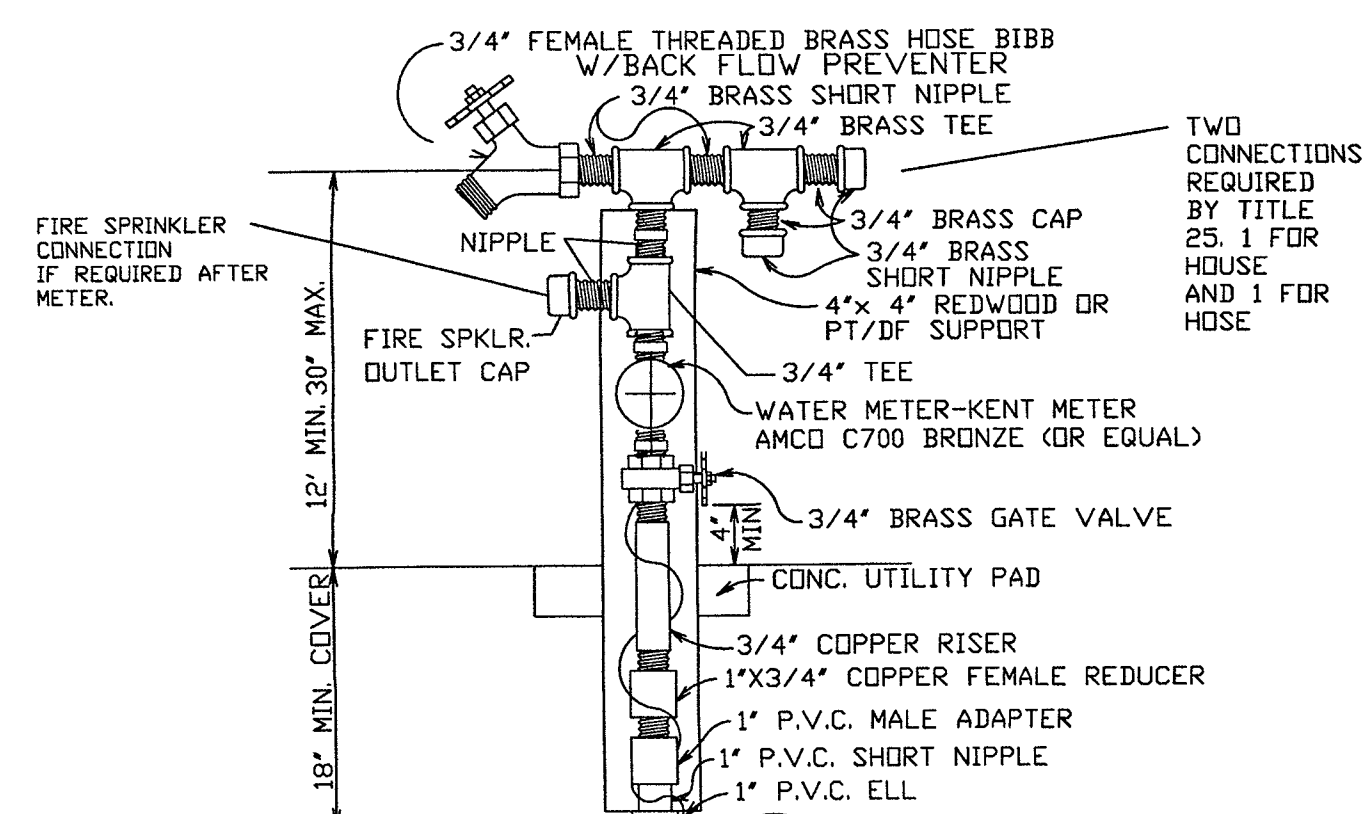


NOTE: ALL THRUST BLOCKS SHOULD BE CLASS "B" CONC. POURED AGAINST MOISTENED SOIL WITH PIPE JOINTS NOT TO BE ENCASED IF TRENCHES ARE OVER DUG. SEE ENGINEER FOR INSTRUCTIONS. REFER TO IAMPD 15.14.75 SEC.10081 TABLE 101 FOR P.V.C.

CONCRETE BEARING AREA SQ.FT.

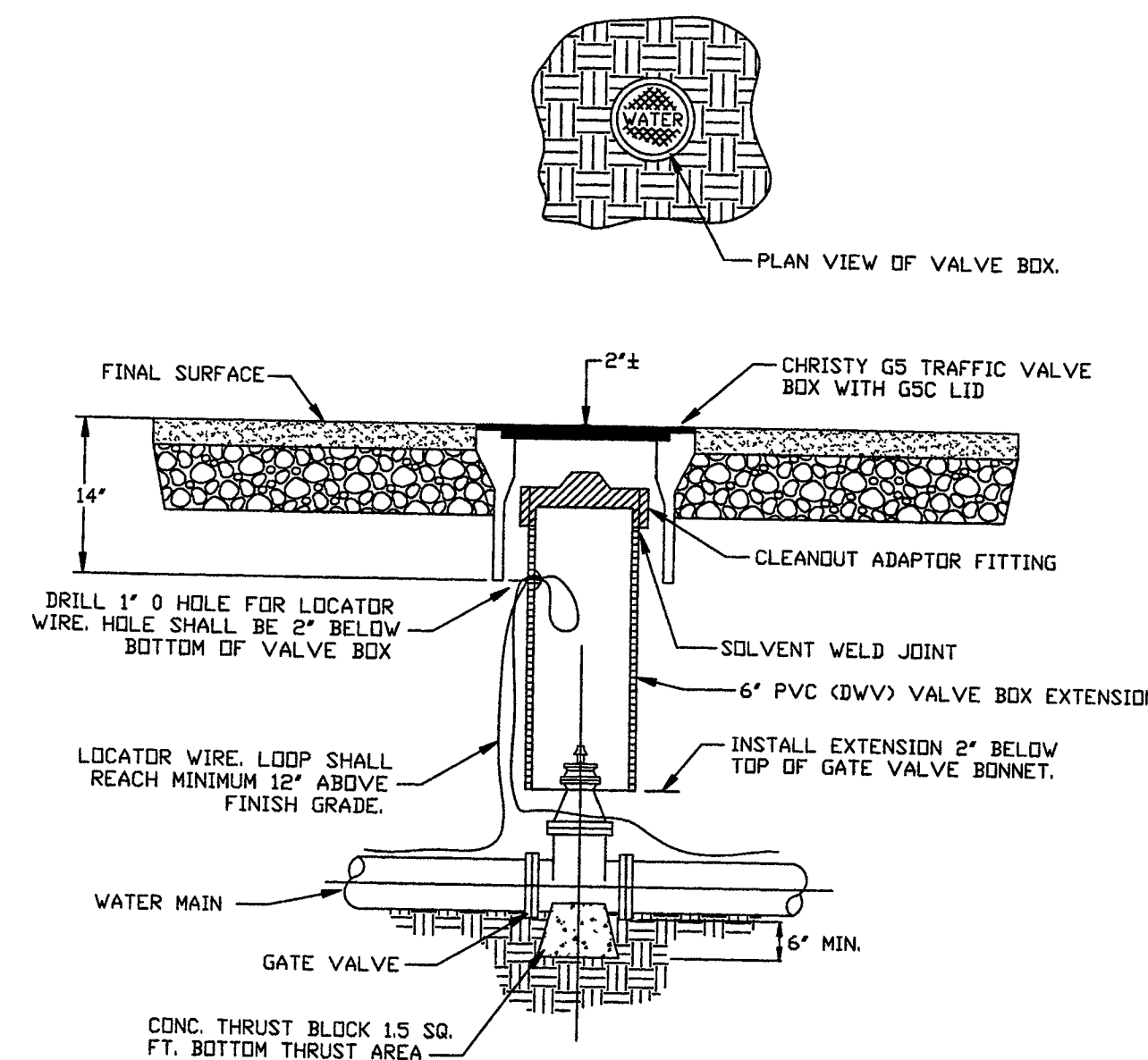
PIPE	SIZE	TEE °	90 °	45 °
4"	1.0	1.0	1.0	0.5
6"	2.0	2.0	1.2	0.6
8"	3.6	3.6	2.0	1.5
12"	8.1	8.1	4.4	2.5

THRUST BLOCKS



- NOTES:
- 1.(A).PIPE UP TO AND INCLUDING 1 1/2" IS TO BE P.V.C. SCH.40, OR EQUAL (B).SERVICE CONNECTIONS TO BE P.V.C. TEE SCH.40, OR EQUAL
  - 2.(A).PIPE FROM 2" UP AND INCLUDING 4" IS TO BE P.V.C. CLASS 315, BLUESELL TYPE CLASS 160 OR EQUAL (B).SERVICE CONNECTIONS TO BE P.V.C. TEE SCH.80, SMITH BLAIR #348 SADDLE OR EQUAL
  - 3.(A).PIPE LARGER THAN 4" IS TO BE A.C. CLASS 150 OR EQUAL (B).SERVICE CONNECTIONS TO BE A.C. TAPPED COUPLING CLASS 150 OR EQUAL
  4. LATERALS MAY BE BORED FROM MAIN TO SERVICE RISER.

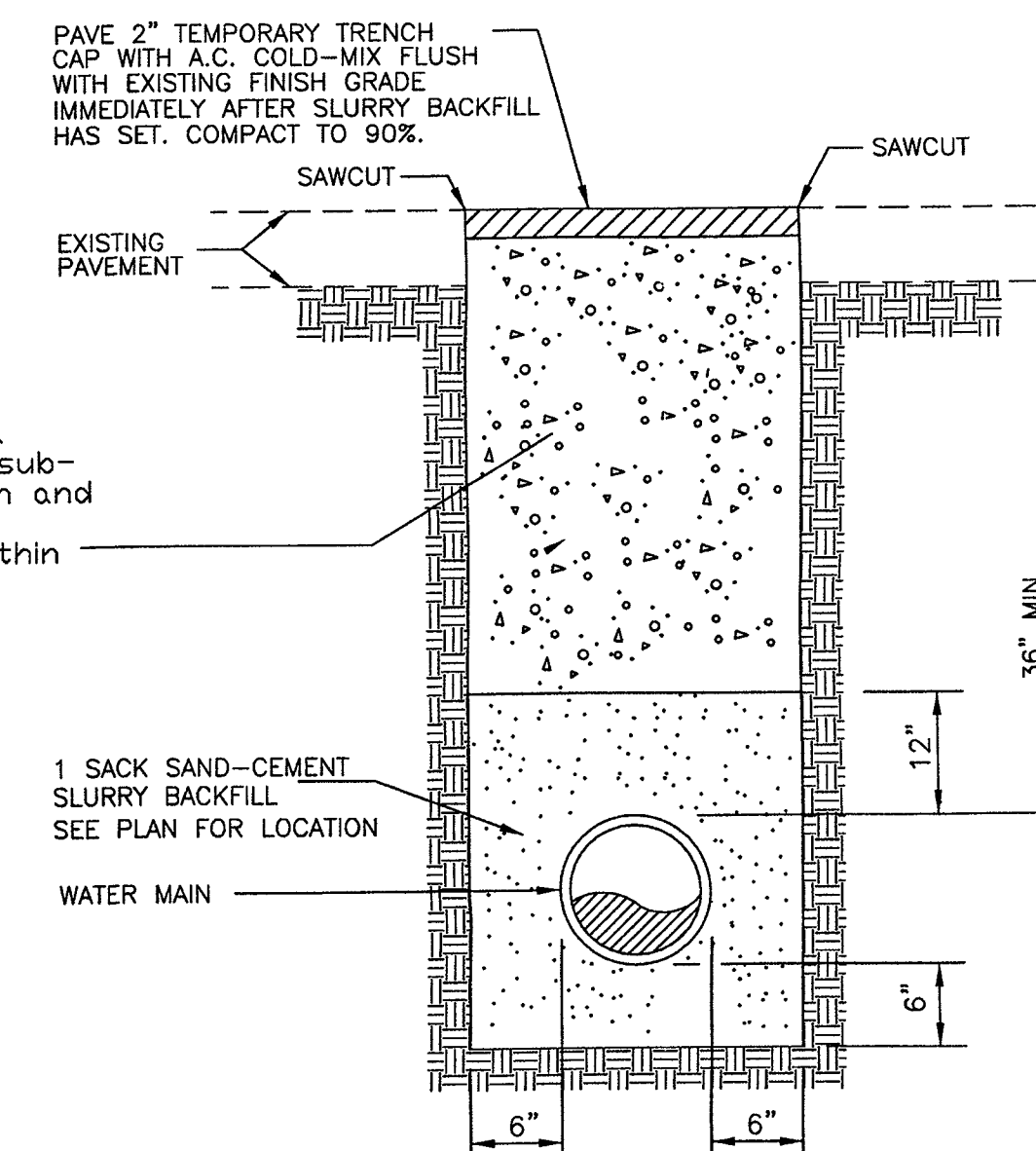
NEW WATER HOME RISER



GATE VALVE DETAIL  
NOT TO SCALE

Note: All trenching and backfill shall be the responsibility of the sub-contractor using that trench and it shall be his responsibility to return that trench to within 0.1 ft. of finish grade at all times.

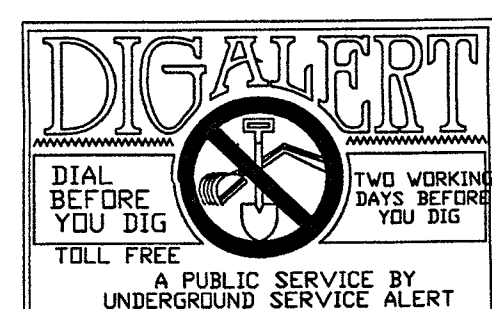
Note: All backfill to be FREE of growth matter and debris and is to be compacted to 90% max. density or one sack slurry mix.



NOTES:

1. THE SAND ENVELOPE SHALL BE PLACED IN A MANNER SUCH AS JETTING, SLICING SHOVEL-SPADING, OR SHOVEL-ROODING.
2. STEEL TRENCH PLATES SHALL BE INSTALLED AND MAINTAINED OVER TRENCH EXCAVATION WHILE NOT ACTIVELY WORKING WITHIN THE TRENCH FOR THE DURATION OF THE PROJECT UNTIL THE TRENCH IS BACKFILLED AND CAPPED.
3. ALL TRENCHING AND BACKFILLING SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR, REGARDLESS OF THE SUB-CONTRACTOR USING THAT TRENCH, AND IT SHALL BE THE PRIME CONTRACTOR'S RESPONSIBILITY TO RETURN THE TRENCH FLUSH WITH EXISTING FINISH GRADE UPON COMPLETION OF WORK WITHIN THE TRENCH.

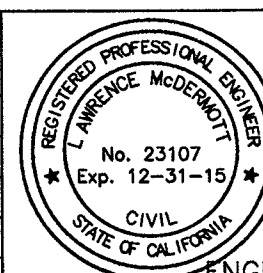
WATER TRENCH DETAIL  
NOT TO SCALE



Engineer:  
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**RIVERVIEW MHP**  
**8200 Jantzen Road**  
**Modesto, CA. 95357**

No.	Date	Revision	By:	App'd.



CIVIL ENGINEER / LAND SURVEYOR

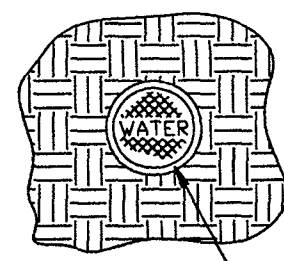
ENGINEER RCE 23107 exp. 12/31/15

4/17/2014  
DATE

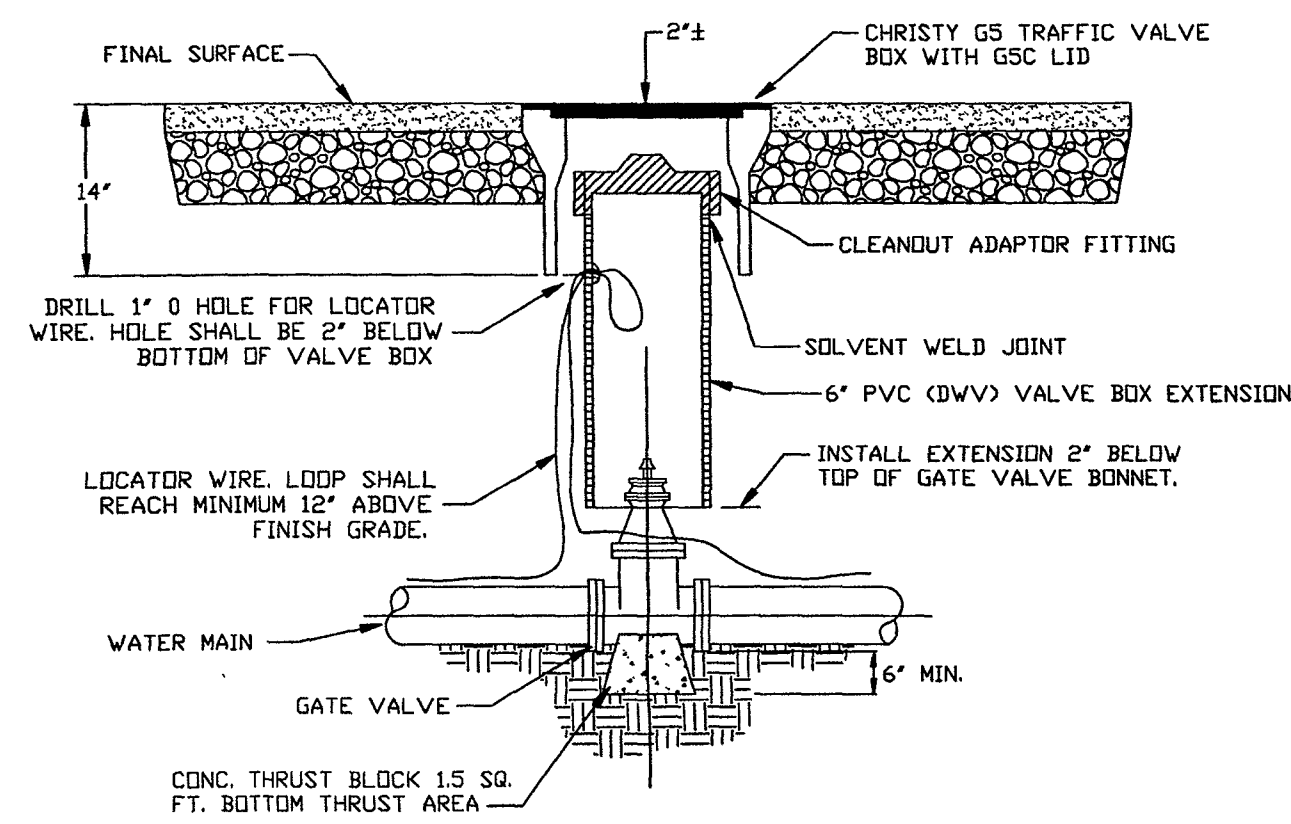
**RIVERVIEW MHP**  
**WATER SYSTEM**  
**DETAILS**

Sheet 4  
of  
5 Sheets



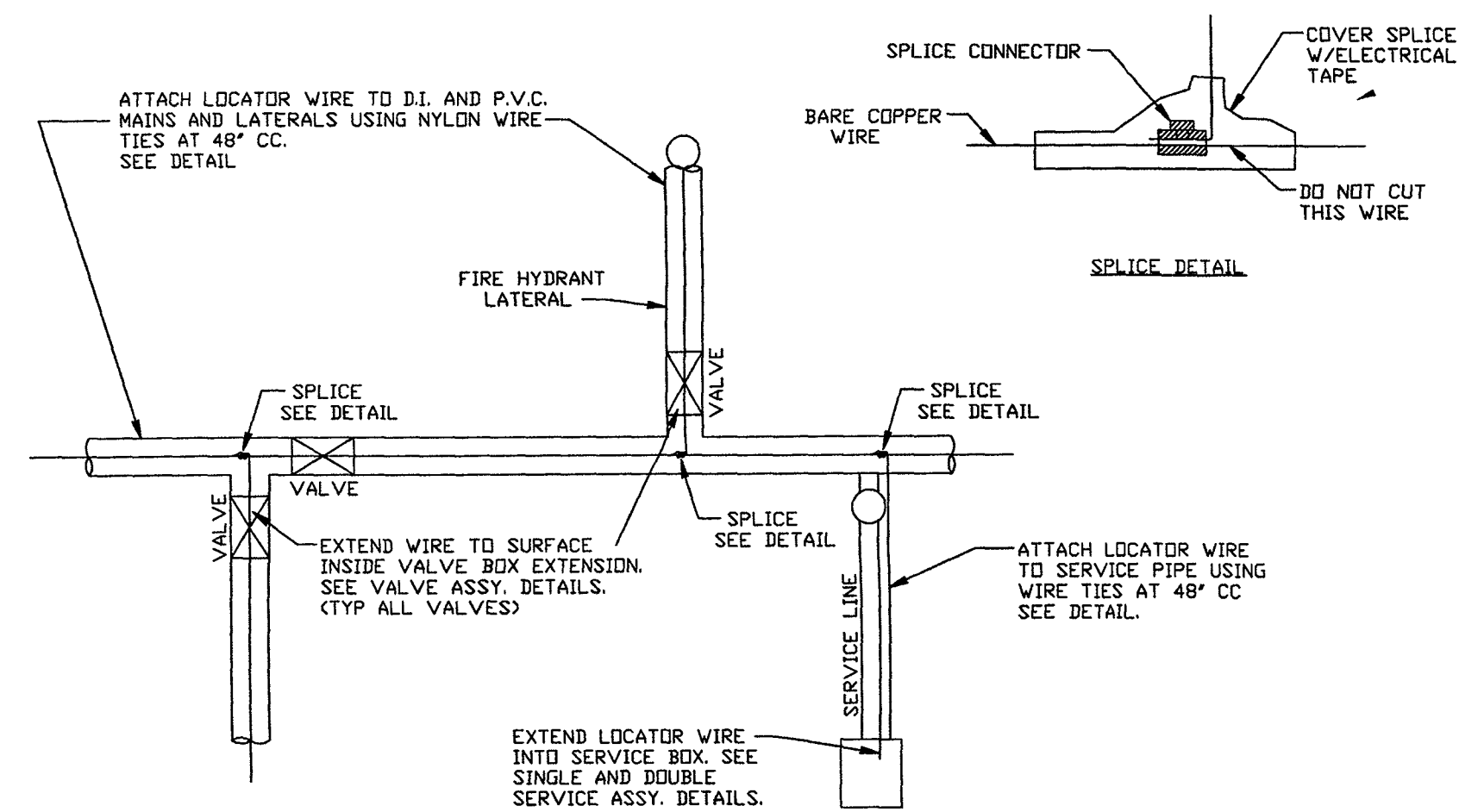


PLAN VIEW OF VALVE BOX



GATE VALVE DETAIL

NOT TO SCALE

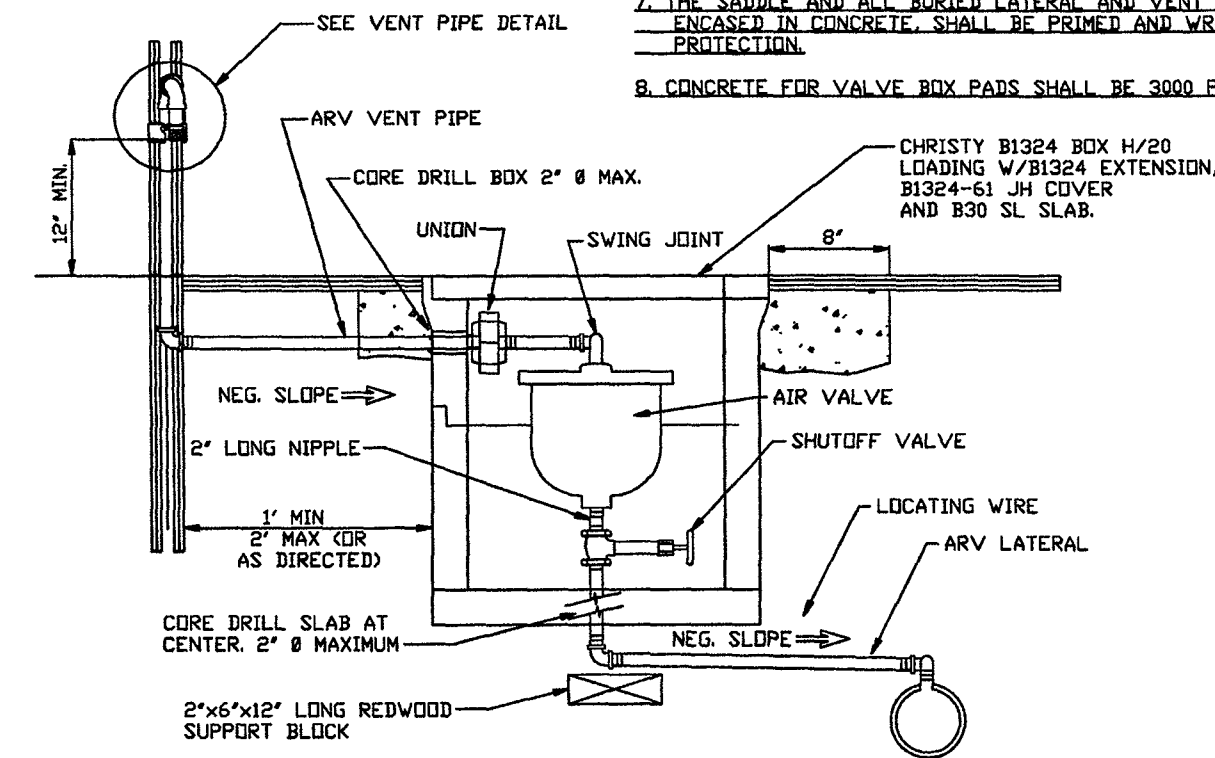


LOCATOR WIRE DETAILS

NOT TO SCALE

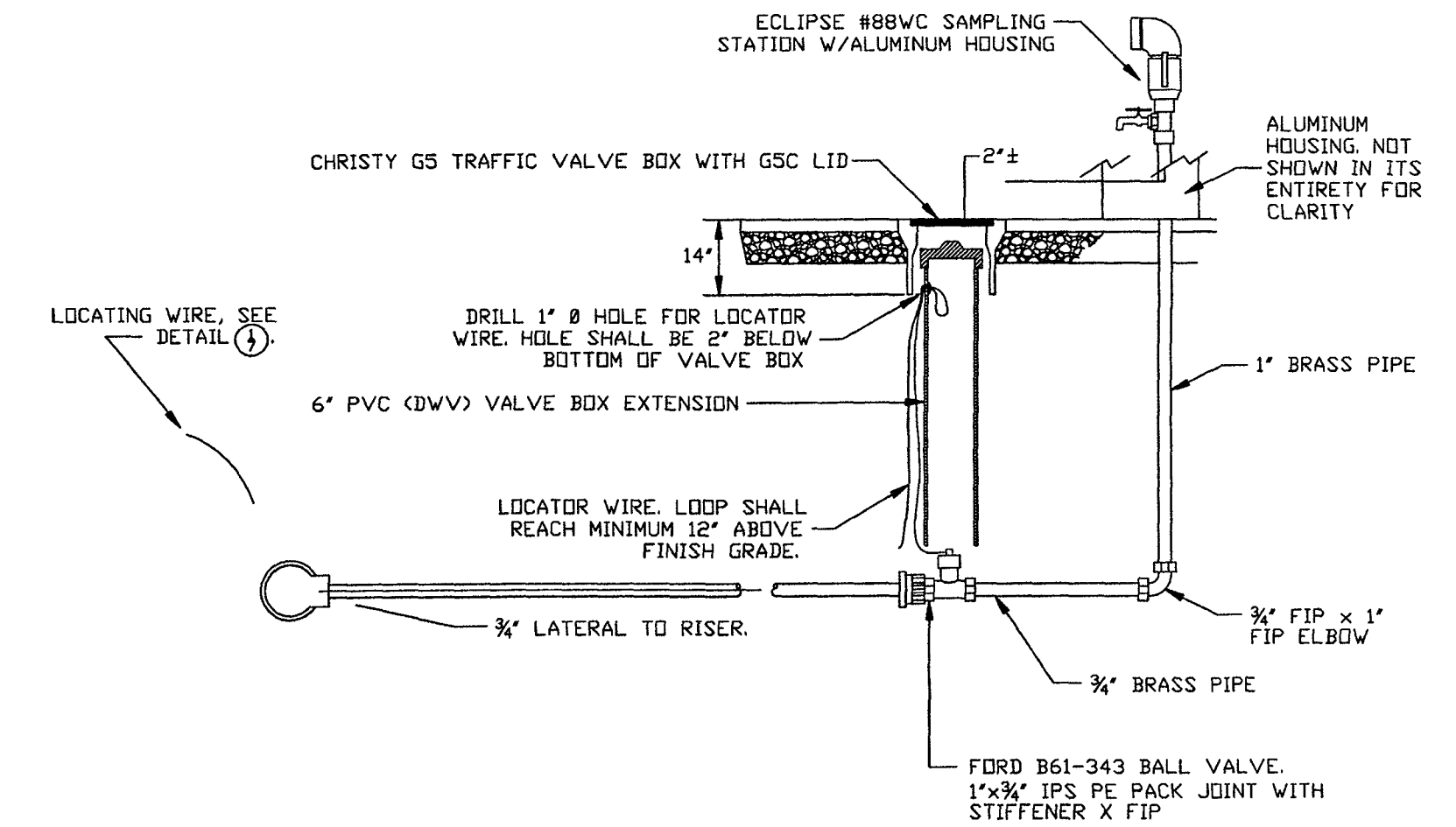
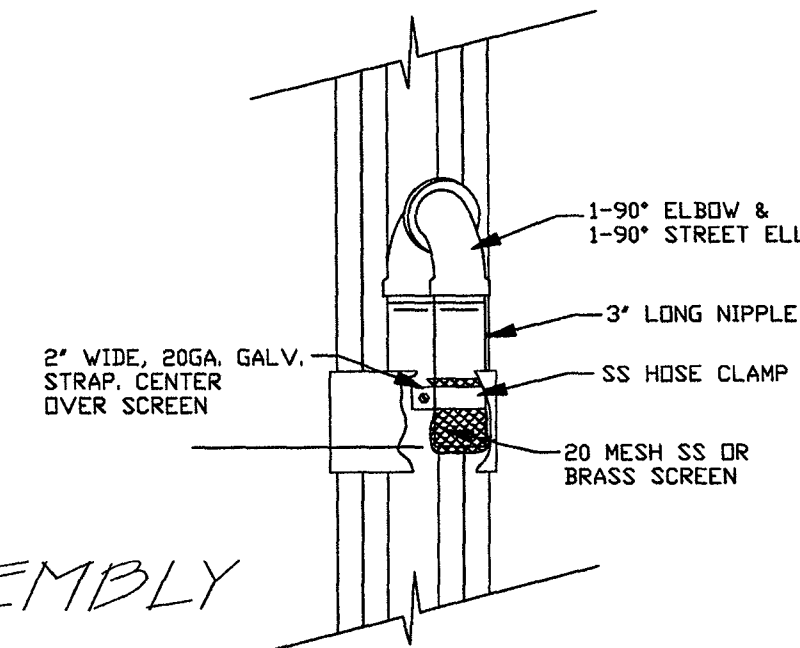
NOTES:

1. AIR RELEASE VALVES SHALL BE APCO MODEL 200A OR EQUAL.
2. THE LOCATION OF ARV ASSEMBLIES SHALL BE AS DETERMINED IN THE FIELD.
3. THE TAP AND SADDLE FOR THE CONNECTION TO THE WATERMAIN SHALL BE DOUBLE STRAP BRONZE MUELLER #8829 OR EQUAL.
4. LATERAL AND VENT PIPES AND SHUTOFF VALVES SHALL BE THE SAME NOMINAL SIZE AS THE ARV.
5. LATERAL PIPE AND FITTINGS SHALL BE BRASS.
6. VENT PIPE AND FITTINGS SHALL BE GALVANIZED IRON.
7. THE SADDLE AND ALL BURIED LATERAL AND VENT PIPES, INCLUDING THOSE ENCASED IN CONCRETE, SHALL BE PRIMER AND WRAPPED FOR CORROSION PROTECTION.
8. CONCRETE FOR VALVE BOX PADS SHALL BE 3000 PSI.



AIR RELEASE VALVE ASSEMBLY

NOT TO SCALE



WATER SAMPLING STATION

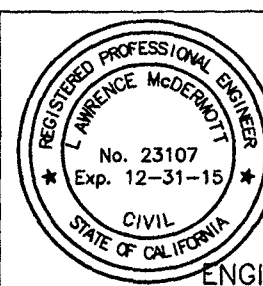
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**RIVERVIEW MHP**  
8200 Jantzen Road  
Modesto, CA. 95357

No.	Date	Revision	By:	App'd.



CIVIL ENGINEER / LAND SURVEYOR

ENGINEER RCE 23107 exp. 12/31/15 DATE 6/11/2014

**RIVERVIEW MHP**  
**WATER SYSTEM**  
**DETAILS**

Sheet 5  
of 5  
Sheets



**SOUTH WELL HISTORIC FLOW RECORDS**

2017		
Date	Meter Rdg.	Average GPD
3-Jan-17	3,157,460 Cuft	1,365.10 GPD
7-Feb-17	3,160,760 Cuft	705.26 GPD
7-Mar-17	3,160,870 Cuft	29.39 GPD
11-Apr-17	3,162,160 Cuft	275.69 GPD
12-May-17	3,167,070 Cuft	1,184.74 GPD
13-Jun-17	3,167,070 Cuft	0.00 GPD
12-Jul-17	3,168,960 Cuft	487.49 GPD

2016		
Date	Meter Rdg.	Average GPD
7-Jan-16	2,780,520 Cuft	8,043.20 GPD
4-Feb-16	2,810,750 Cuft	8,075.73 GPD
1-Mar-16	2,840,490 Cuft	8,555.97 GPD
5-Apr-16	2,884,280 Cuft	9,358.55 GPD
3-May-16	2,929,500 Cuft	12,080.20 GPD
7-Jun-16	2,972,030 Cuft	9,089.27 GPD
12-Jul-16	2,972,420 Cuft	83.35 GPD
2-Aug-16	NO DATA	0.00 GPD
6-Sep-16	NO DATA	0.00 GPD
4-Oct-16	3,062,170 Cuft	23,976.07 GPD
1-Nov-16	3,146,120 Cuft	22,426.64 GPD
6-Dec-16	3,152,350 Cuft	1,331.44 GPD

2015		
Date	Meter Rdg.	Average GPD
8-Jan-15	2,312,370 Cuft	8,867.96 GPD
15-Jan-15	2,320,080 Cuft	8,238.69 GPD
22-Jan-15	2,327,300 Cuft	7,715.09 GPD
29-Jan-15	2,335,100 Cuft	8,334.86 GPD
5-Feb-15	2,342,580 Cuft	7,992.91 GPD
12-Feb-15	2,350,190 Cuft	8,131.83 GPD
19-Feb-15	2,357,920 Cuft	8,260.06 GPD
26-Feb-15	2,364,600 Cuft	7,138.06 GPD
5-Mar-15	2,371,630 Cuft	7,512.06 GPD
12-Mar-15	2,379,140 Cuft	8,024.97 GPD
19-Mar-15	2,387,080 Cuft	8,484.46 GPD
26-Mar-15	2,395,250 Cuft	8,730.23 GPD
2-Apr-15	2,404,380 Cuft	9,756.06 GPD
9-Apr-15	2,412,640 Cuft	8,826.40 GPD
16-Apr-15	2,421,160 Cuft	9,104.23 GPD
23-Apr-15	2,429,590 Cuft	9,008.06 GPD
30-Apr-15	2,439,070 Cuft	10,130.06 GPD
7-May-15	2,448,680 Cuft	10,268.97 GPD
14-May-15	2,457,490 Cuft	9,414.11 GPD
21-May-15	2,467,150 Cuft	10,322.40 GPD
29-May-15	2,477,830 Cuft	9,985.80 GPD
4-Jun-15	2,487,380 Cuft	11,905.67 GPD
11-Jun-15	2,499,060 Cuft	12,480.91 GPD
18-Jun-15	2,512,690 Cuft	14,564.63 GPD
25-Jun-15	2,525,930 Cuft	14,147.89 GPD
2-Jul-15	2,538,310 Cuft	13,228.91 GPD
9-Jul-15	2,548,440 Cuft	10,824.63 GPD
16-Jul-15	2,563,210 Cuft	15,782.80 GPD
23-Jul-15	2,576,360 Cuft	14,051.71 GPD
30-Jul-15	2,586,200 Cuft	10,514.74 GPD
6-Aug-15	2,595,420 Cuft	9,852.23 GPD
13-Aug-15	2,604,810 Cuft	10,033.89 GPD
20-Aug-15	2,613,730 Cuft	9,531.66 GPD
27-Aug-15	2,623,440 Cuft	10,375.83 GPD
3-Sep-15	2,632,750 Cuft	9,948.40 GPD
1-Oct-15	2,669,650 Cuft	9,857.57 GPD
5-Nov-15	2,712,260 Cuft	9,106.37 GPD
4-Dec-15	2,743,960 Cuft	8,176.41 GPD

2014		
Date	Meter Rdg.	Average GPD
3-Jan-14	1,759,710 Cuft	7,756.76 GPD
9-Jan-14	1,766,350 Cuft	8,277.87 GPD
16-Jan-14	1,773,650 Cuft	7,800.57 GPD
23-Jan-14	1,780,510 Cuft	7,330.40 GPD
30-Jan-14	1,788,100 Cuft	8,110.46 GPD
6-Feb-14	1,794,330 Cuft	6,657.20 GPD
13-Feb-14	1,800,820 Cuft	6,935.03 GPD
20-Feb-14	1,807,440 Cuft	7,073.94 GPD
27-Feb-14	1,814,700 Cuft	7,757.83 GPD
6-Mar-14	1,820,720 Cuft	6,432.80 GPD
13-Mar-14	1,828,290 Cuft	8,089.09 GPD
20-Mar-14	1,836,820 Cuft	9,114.91 GPD
27-Mar-14	1,847,040 Cuft	10,920.80 GPD
3-Apr-14	1,856,300 Cuft	9,894.97 GPD
10-Apr-14	1,865,060 Cuft	9,360.69 GPD
17-Apr-14	1,875,140 Cuft	10,771.20 GPD
24-Apr-14	1,885,610 Cuft	11,187.94 GPD
1-May-14	1,895,780 Cuft	10,867.37 GPD
8-May-14	1,906,920 Cuft	11,903.89 GPD
15-May-14	1,918,220 Cuft	12,074.86 GPD
22-May-14	1,930,000 Cuft	12,587.77 GPD
29-May-14	1,942,220 Cuft	13,057.94 GPD
5-Jun-14	1,957,840 Cuft	16,691.09 GPD
12-Jun-14	1,973,310 Cuft	16,530.80 GPD
19-Jun-14	1,987,370 Cuft	15,024.11 GPD
26-Jun-14	1,999,990 Cuft	13,485.37 GPD
3-Jul-14	2,014,411 Cuft	15,409.87 GPD
10-Jul-14	2,028,870 Cuft	15,450.47 GPD
17-Jul-14	2,042,540 Cuft	14,607.37 GPD
24-Jul-14	2,055,360 Cuft	13,699.09 GPD
31-Jul-14	2,069,000 Cuft	14,575.31 GPD
7-Aug-14	2,080,160 Cuft	11,925.26 GPD
14-Aug-14	2,092,560 Cuft	13,250.29 GPD
21-Aug-14	2,105,150 Cuft	13,453.31 GPD
28-Aug-14	2,116,780 Cuft	12,427.49 GPD
4-Sep-14	2,129,430 Cuft	13,517.43 GPD
11-Sep-14	2,141,310 Cuft	12,694.63 GPD
18-Sep-14	2,153,230 Cuft	12,737.37 GPD
25-Sep-14	2,164,740 Cuft	12,299.26 GPD
2-Oct-14	2,175,150 Cuft	11,123.83 GPD
9-Oct-14	2,187,170 Cuft	12,844.23 GPD
16-Oct-14	2,199,130 Cuft	12,780.11 GPD
23-Oct-14	2,210,050 Cuft	11,668.80 GPD
30-Oct-14	2,223,110 Cuft	13,955.54 GPD
6-Nov-14	2,233,710 Cuft	11,326.86 GPD
13-Nov-14	2,244,920 Cuft	11,978.69 GPD
20-Nov-14	2,253,600 Cuft	9,275.20 GPD
26-Nov-14	2,260,660 Cuft	8,801.47 GPD
4-Dec-14	2,269,800 Cuft	8,545.90 GPD
11-Dec-14	2,277,430 Cuft	8,153.20 GPD
18-Dec-14	2,289,320 Cuft	12,705.31 GPD
23-Dec-14	2,294,570 Cuft	3,272.50 GPD
30-Dec-14	2,301,700 Cuft	7,716.87 GPD

2013		
Date	Meter Rdg.	Average GPD
2-Jan-13	1,175,770 Cuft	15,014.85 GPD
7-Jan-13	1,181,860 Cuft	9,110.64 GPD
14-Jan-13	1,188,900 Cuft	7,522.74 GPD
21-Jan-13	1,198,500 Cuft	10,258.29 GPD
28-Jan-13	1,206,680 Cuft	8,740.91 GPD
4-Feb-13	1,214,300 Cuft	8,142.51 GPD
11-Feb-13	1,221,660 Cuft	7,864.69 GPD
18-Feb-13	1,229,890 Cuft	8,794.34 GPD
25-Feb-13	1,236,610 Cuft	7,180.80 GPD
4-Mar-13	1,244,410 Cuft	8,334.86 GPD
11-Mar-13	1,251,450 Cuft	7,522.74 GPD
18-Mar-13	1,259,860 Cuft	8,986.69 GPD
29-Mar-13	1,268,380 Cuft	5,793.60 GPD
1-Apr-13	1,275,770 Cuft	18,425.73 GPD
8-Apr-13	1,283,070 Cuft	7,800.57 GPD
15-Apr-13	1,290,880 Cuft	8,345.54 GPD
22-Apr-13	1,300,810 Cuft	10,610.91 GPD
6-May-13	1,323,510 Cuft	12,128.29 GPD
13-May-13	1,333,540 Cuft	10,717.77 GPD
20-May-13	1,345,690 Cuft	12,983.14 GPD
28-May-13	1,359,040 Cuft	12,482.25 GPD
4-Jun-13	1,369,330 Cuft	10,995.60 GPD
10-Jun-13	1,386,520 Cuft	21,430.20 GPD
17-Jun-13	1,399,880 Cuft	14,276.11 GPD
24-Jun-13	1,414,440 Cuft	15,558.40 GPD
1-Jul-13	1,429,590 Cuft	16,188.86 GPD
9-Jul-13	1,446,940 Cuft	16,222.25 GPD
15-Jul-13	1,461,840 Cuft	18,575.33 GPD
22-Jul-13	1,480,040 Cuft	19,448.00 GPD
30-Jul-13	1,495,260 Cuft	14,230.70 GPD
5-Aug-13	1,507,000 Cuft	14,635.87 GPD
12-Aug-13	1,520,000 Cuft	13,891.43 GPD
19-Aug-13	1,538,590 Cuft	19,864.74 GPD
2-Sep-13	1,570,480 Cuft	17,038.37 GPD
9-Sep-13	1,586,340 Cuft	16,947.54 GPD
16-Sep-13	1,600,710 Cuft	15,355.37 GPD
23-Sep-13	1,614,040 Cuft	14,244.06 GPD
7-Oct-13	1,638,930 Cuft	13,298.37 GPD
14-Oct-13	1,651,530 Cuft	13,464.00 GPD
21-Oct-13	1,662,880 Cuft	12,128.29 GPD
28-Oct-13	1,674,600 Cuft	12,523.66 GPD
4-Nov-13	1,685,460 Cuft	11,604.69 GPD
11-Nov-13	1,695,050 Cuft	10,247.60 GPD
18-Nov-13	1,705,890 Cuft	11,583.31 GPD
25-Nov-13	1,717,000 Cuft	11,871.83 GPD
5-Dec-13	1,727,360 Cuft	7,749.28 GPD
12-Dec-13	1,736,680 Cuft	9,959.09 GPD
19-Dec-13	1,744,440 Cuft	8,292.11 GPD
24-Dec-13	1,749,340 Cuft	7,330.40 GPD

2012		
Date	Meter Rdg.	Average GPD
9-Jan-12	659,470 Cuft	0.00 GPD
13-Feb-12	693,680 Cuft	7,311.17 GPD
12-Mar-12	724,110 Cuft	8,129.16 GPD
16-Apr-12	759,290 Cuft	7,518.47 GPD
22-May-12	812,500 Cuft	11,055.86 GPD
11-Jun-12	845,040 Cuft	12,169.96 GPD
16-Jul-12	911,230 Cuft	14,145.75 GPD
13-Aug-12	959,350 Cuft	12,854.91 GPD
11-Sep-12	1,012,070 Cuft	13,598.12 GPD
1-Oct-12	1,043,880 Cuft	11,896.94 GPD
5-Nov-12	1,089,490 Cuft	9,747.51 GPD
3-Dec-12	1,115,550 Cuft	6,961.74 GPD



**SOUTH WEST WELL HISTORIC FLOW RECORDS**

2017		
Date	Meter Rdg.	Average GPD
3-Jan-17	187.425 AF	8,576.00 GPD
7-Feb-17	189.732 AF	21,476.79 GPD
7-Mar-17	191.549 AF	7,469.00 GPD
11-Apr-17	194.450 AF	27,006.57 GPD
12-May-17	196.947 AF	26,245.00 GPD
13-Jun-17	200.423 AF	35,393.18 GPD
12-Jul-17	201.483 AF	11,909.61 GPD

2016		
Date	Meter Rdg.	Average GPD
7-Jan-16	167.748 AF	8,576.00 GPD
4-Feb-16	168.362 AF	7,144.96 GPD
1-Mar-16	168.958 AF	7,469.00 GPD
5-Apr-16	169.828 AF	8,099.18 GPD
3-May-16	170.069 AF	2,804.46 GPD
7-Jun-16	172.740 AF	24,865.41 GPD
12-Jul-16	176.182 AF	32,042.95 GPD
2-Aug-16	178.402 AF	34,444.78 GPD
6-Sep-16	181.898 AF	32,545.66 GPD
4-Oct-16	181.989 AF	1,058.94 GPD
1-Nov-16	183.082 AF	12,718.97 GPD
6-Dec-16	185.542 AF	22,901.12 GPD

2015		
Date	Meter Rdg.	Average GPD
8-Jan-15	158.374 AF	7,276.85 GPD
15-Jan-15	158.525 AF	7,028.60 GPD
22-Jan-15	158.662 AF	6,376.94 GPD
29-Jan-15	158.818 AF	7,261.33 GPD
5-Feb-15	158.961 AF	6,656.22 GPD
12-Feb-15	159.110 AF	6,935.50 GPD
19-Feb-15	159.259 AF	6,935.50 GPD
26-Feb-15	159.393 AF	6,237.30 GPD
5-Mar-15	159.532 AF	6,470.03 GPD
12-Mar-15	159.682 AF	6,982.05 GPD
19-Mar-15	159.841 AF	7,400.97 GPD
26-Mar-15	160.002 AF	7,494.07 GPD
2-Apr-15	160.177 AF	8,145.73 GPD
9-Apr-15	160.340 AF	7,587.16 GPD
16-Apr-15	160.511 AF	7,959.54 GPD
23-Apr-15	160.681 AF	7,912.99 GPD
30-Apr-15	160.867 AF	8,657.74 GPD
7-May-15	161.054 AF	8,704.29 GPD
14-May-15	161.227 AF	8,052.63 GPD
21-May-15	161.416 AF	8,797.38 GPD
29-May-15	161.629 AF	8,675.20 GPD
4-Jun-15	161.807 AF	9,666.26 GPD
11-Jun-15	162.044 AF	11,031.64 GPD
18-Jun-15	162.314 AF	12,567.69 GPD
25-Jun-15	162.567 AF	11,776.39 GPD
2-Jul-15	162.857 AF	13,498.63 GPD
9-Jul-15	163.155 AF	13,871.01 GPD
16-Jul-15	163.408 AF	11,776.39 GPD
23-Jul-15	163.672 AF	12,288.41 GPD
30-Jul-15	163.868 AF	9,123.21 GPD
6-Aug-15	164.052 AF	8,564.65 GPD
13-Aug-15	164.231 AF	8,331.91 GPD
20-Aug-15	164.422 AF	8,890.48 GPD
27-Aug-15	164.615 AF	8,983.57 GPD
3-Sep-15	164.796 AF	8,425.01 GPD
1-Oct-15	165.530 AF	8,541.37 GPD
5-Nov-15	166.365 AF	7,773.35 GPD
4-Dec-15	167.011 AF	7,258.12 GPD

2014		
Date	Meter Rdg.	Average GPD
3-Jan-14	147.603 AF	5,669.42 GPD
9-Jan-14	147.752 AF	8,091.42 GPD
16-Jan-14	147.907 AF	7,214.79 GPD
23-Jan-14	148.059 AF	7,075.14 GPD
30-Jan-14	148.222 AF	7,587.16 GPD
6-Feb-14	148.358 AF	6,330.39 GPD
13-Feb-14	148.508 AF	6,982.05 GPD
20-Feb-14	148.648 AF	6,516.58 GPD
27-Feb-14	148.803 AF	7,214.79 GPD
6-Mar-14	148.937 AF	6,237.30 GPD
13-Mar-14	149.089 AF	7,075.14 GPD
20-Mar-14	149.274 AF	8,611.20 GPD
27-Mar-14	149.482 AF	9,681.78 GPD
3-Apr-14	149.676 AF	9,030.12 GPD
10-Apr-14	149.860 AF	8,564.65 GPD
17-Apr-14	150.057 AF	9,169.76 GPD
24-Apr-14	150.258 AF	9,355.95 GPD
1-May-14	150.462 AF	9,495.59 GPD
8-May-14	150.674 AF	9,867.96 GPD
15-May-14	150.893 AF	10,193.79 GPD
22-May-14	151.118 AF	10,473.08 GPD
29-May-14	151.351 AF	10,845.45 GPD
5-Jun-14	151.627 AF	6,423.49 GPD
12-Jun-14	151.938 AF	14,476.12 GPD
19-Jun-14	152.194 AF	11,916.03 GPD
26-Jun-14	152.429 AF	10,938.55 GPD
3-Jul-14	152.701 AF	12,660.78 GPD
10-Jul-14	152.990 AF	13,452.08 GPD
17-Jul-14	153.243 AF	11,776.39 GPD
24-Jul-14	153.482 AF	11,124.73 GPD
31-Jul-14	153.756 AF	12,753.88 GPD
7-Aug-14	153.982 AF	10,519.62 GPD
14-Aug-14	154.219 AF	11,031.64 GPD
21-Aug-14	154.452 AF	10,845.45 GPD
28-Aug-14	154.670 AF	10,147.25 GPD
11-Sep-14	155.127 AF	10,635.99 GPD
18-Sep-14	155.364 AF	11,031.64 GPD
25-Sep-14	155.586 AF	10,333.43 GPD
2-Oct-14	155.789 AF	9,449.04 GPD
9-Oct-14	156.027 AF	11,078.19 GPD
16-Oct-14	156.256 AF	10,659.26 GPD
23-Oct-14	156.451 AF	9,076.67 GPD
30-Oct-14	156.651 AF	9,309.40 GPD
6-Nov-14	156.855 AF	9,495.59 GPD
13-Nov-14	157.070 AF	10,007.61 GPD
20-Nov-14	157.238 AF	7,819.90 GPD
26-Nov-14	157.372 AF	7,276.85 GPD
4-Dec-14	157.556 AF	7,494.07 GPD
11-Dec-14	157.705 AF	6,935.50 GPD
18-Dec-14	157.925 AF	10,240.34 GPD
23-Dec-14	158.029 AF	6,777.24 GPD
30-Dec-14	158.173 AF	6,702.77 GPD

2013		
Date	Meter Rdg.	Average GPD
2-Jan-13	135.204 AF	14,055.04 GPD
7-Jan-13	135.346 AF	9,254.17 GPD
14-Jan-13	135.515 AF	7,866.97 GPD
21-Jan-13	135.703 AF	8,751.43 GPD
28-Jan-13	135.880 AF	8,239.38 GPD
4-Feb-13	136.062 AF	8,472.13 GPD
11-Feb-13	136.227 AF	7,680.77 GPD
18-Feb-13	136.411 AF	8,565.23 GPD
25-Feb-13	136.565 AF	7,168.72 GPD
4-Mar-13	136.748 AF	8,518.68 GPD
11-Mar-13	136.900 AF	7,075.62 GPD
18-Mar-13	137.101 AF	9,356.58 GPD
29-Mar-13	137.301 AF	5,924.56 GPD
1-Apr-13	137.469 AF	18,247.66 GPD
8-Apr-13	137.637 AF	7,820.42 GPD
15-Apr-13	137.819 AF	8,472.13 GPD
22-Apr-13	138.037 AF	10,147.93 GPD
6-May-13	138.537 AF	11,637.54 GPD
13-May-13	138.754 AF	10,101.38 GPD
20-May-13	139.012 AF	12,009.94 GPD
28-May-13	139.291 AF	11,364.05 GPD
4-Jun-13	139.509 AF	10,147.93 GPD
10-Jun-13	139.820 AF	16,889.94 GPD
17-Jun-13	140.090 AF	12,568.54 GPD
24-Jun-13	140.404 AF	14,616.74 GPD
1-Jul-13	140.749 AF	16,059.80 GPD
9-Jul-13	141.143 AF	16,048.16 GPD
15-Jul-13	141.507 AF	19,768.29 GPD
22-Jul-13	141.843 AF	15,640.85 GPD
30-Jul-13	142.179 AF	13,685.74 GPD
5-Aug-13	142.425 AF	13,359.89 GPD
12-Aug-13	142.685 AF	12,103.04 GPD
19-Aug-13	143.078 AF	18,294.21 GPD
2-Sep-13	143.718 AF	14,896.05 GPD
9-Sep-13	144.058 AF	15,827.05 GPD
16-Sep-13	144.346 AF	13,406.44 GPD
23-Sep-13	144.612 AF	12,382.34 GPD
7-Oct-13	145.117 AF	11,753.91 GPD
14-Oct-13	145.376 AF	12,056.49 GPD
21-Oct-13	145.626 AF	11,637.54 GPD
28-Oct-13	145.871 AF	11,404.79 GPD
4-Nov-13	146.100 AF	10,659.98 GPD
11-Nov-13	146.305 AF	9,542.78 GPD
18-Nov-13	146.540 AF	10,939.28 GPD
25-Nov-13	146.870 AF	15,361.55 GPD
5-Dec-13	146.917 AF	1,531.50 GPD
12-Dec-13	147.107 AF	8,844.53 GPD
19-Dec-13	147.261 AF	7,168.72 GPD
24-Dec-13	147.429 AF	10,948.59 GPD

2012		
Date	Meter Rdg.	Average GPD
9-Jan-12	123.908 AF	0.00 GPD
13-Feb-12	124.621 AF	6,638.05 GPD
12-Mar-12	125.237 AF	7,168.72 GPD
16-Apr-12	125.972 AF	6,842.87 GPD
22-May-12	127.090 AF	10,119.48 GPD
11-Jun-12	127.761 AF	10,932.30 GPD
16-Jul-12	129.180 AF	13,210.93 GPD
13-Aug-12	130.295 AF	12,975.85 GPD
11-Sep-12	131.519 AF	13,753.16 GPD
1-Oct-12	132.229 AF	11,567.71 GPD
5-Nov-12	133.291 AF	9,887.25 GPD
3-Dec-12	133.910 AF	7,203.63 GPD





Quality Service, Inc.

Water & Wastewater Operations / Construction

A General Contractor LIC # 834488

Email: [info@qualityserviceinc.net](mailto:info@qualityserviceinc.net)

Website: [www.qualityserviceinc.net](http://www.qualityserviceinc.net)

Telephone: (209) 838-7842

Fax: (209) 838-0699

Escalon, California

**OPERATION PLAN  
FOR POTABLE WATER SYSTEM  
CHLORINATION**

**River View Mobile Estates**

**Water System #5000090**

**8200 Jantzen Road Modesto, CA 95357**

**Prepared for**

**Stanislaus County Department of Environmental Resources**

**3800 Cornucopia Way, Suite C Modesto, CA 95358**

**Prepared by**

**Ian Hellstrom**

**Quality Service, Inc.**

**March 2015 (Revision #1 6/22/2015)**



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## I) Operating Personnel List

-Operators and responsibilities: Each contracted distribution operator (CDO) will be responsible to ensure correct operation of the well pumps, water system operations, and water system repairs. Operators will perform the monthly, quarterly, and annual checks. Listed below are employees of Quality Service Inc., address is 2996 McHenry Ave, Escalon, CA 95320.

<u>Name</u>	<u>Grade</u>	<u>Operator Number</u>	<u>Phone (day/night)</u>
Tom McCoy	D-4	8642	209-838-7842
Eugene Calais	D-1	31873	209-838-7842
Mike Gutierrez	D-1	41703	209-838-7842
Kurt Kale	D-2	43256	209-838-7842
Brian Holloway	D-1	44621	209-838-7842

-On-Site Personnel and responsibilities: Checks pressure in the water distribution system. Only monitoring will be conducted by on-site staff as they will not make repairs and/or changes in the water distribution system. Visual checks and notification of well head, piping, distribution mains, and pressure tank discrepancies will also be a responsibility of on-site personnel. Manager's address: 8200 Jantzen Road, Modesto, CA 95357.

<u>Name</u>	<u>Title</u>	<u>Phone (day/night)</u>
Jim Cook	Maintenance Manager	(909)227-9123
Nancy Cook	Park Manager	(209)577-2803 / (209)573-1653

### -Laboratory:

<u>Name</u>	<u>Address</u>	<u>Phone</u>
Far West Laboratories Inc.	6602 2 <sup>nd</sup> Street Riverbank CA 95367	(209)869-9260



## II) System Description

### **Source Water Wells**

The River View Mobile Estates Water System consists of (2) ground water well sources. Each well contains a submersible pump which is controlled from a pressure switch that is located on the 10,000 gallon hydro pneumatic pressure tank. The current operation allows for the wells to alternate as the lead/ lag source of water. The submersible pumps discharge piping manifold together prior to the inlet connection on the hydro pneumatic pressure tank. The following is a description for each of the ground water sources;

South Well ID# 5000090-002 (Assumed to be) Constructed in 1978

- 10" diameter steel casing
- 220' completed well depth
- Annular seal depth/ gravel pack information unknown
- 20 HP submersible pump, capable of producing 240 gallons per minute
- Well Construction contains the following items;
  - 4" Galvanized steel discharge piping
  - Source water sample tap
  - Check valve
  - Totalizing Flow Meter
  - Well system does have an emergency backup generator system

South West Well ID# 5000090-013 Constructed in 2004

- 10' diameter PVC casing
- 140' completed well depth
- 95' annular seal depth using bentonite as the sealing material
- 20 HP submersible pump, capable of producing 300 gallons per minute
- Well Construction contains the following items;
  - 4" Galvanized steel discharge piping
  - Source water sample tap
  - Check valve
  - Totalizing Flow Meter
  - Well system does have an emergency backup generator system



## ***Water Storage and Distribution System***

The pressure tank for the facility consists of a 10,000 gallon hydro pneumatic pressure tank. The pressure tank provides storage capacity for the water distribution system. After both submersible pump discharge piping manifolds together and prior to the influent tank connection is an existing port. This port will be the location the chlorination injector will be installed. The air balance in the hydro pneumatic pressure tank is provided through an auxiliary air compressor which is mounted on top of the pressure tank and controlled by a probe. Excess air is released out of the tank by a ¾ inch air volume controller mounted on the tank.

The hydro pneumatic pressure tank contains a 4" drain to waste valve off the bottom of the pressure tank. This allows for periodic flushing to help remove sediment which may have settled at the bottom of the tank. The discharge off the pressure tank consists of a 6" discharge connection with appropriate isolation valves. On the discharge piping a sample tap has been constructed to allow for water quality monitoring.

The pressure tank is also configured with the pressure switch that controls the deep well pumps operation. Also, the pressure tank is equipped with an air release valve that allows for the proper air to water ratio within the pressure tank.

The distribution system consists of 175 customer service connections. Water mains consist of 6" and 8" main line pipe. The System contains 8 fire hydrants and 5 water sample locations.

## **III) Chlorination System Decommissioning**

Proposed steps for the removal of the chlorination system from use at Riverview Mobile Estates: If at any point in the decommissioning process a positive bacteria sample is present for bacteria, a set of repeat samples will be collected, a sample from each well and three sample from the distribution. If the repeat samples are positive, the proper public notification will go out to the residents and the chlorination system will go back on line. Once it is determined the decommissioning process can continue, it will start at day one. If the repeat samples come back clean the decommissioning will continue as proposed. If any bacteria samples come back E. coli positive, confirmation samples will be collected and the chlorination system will be immediately placed in service after the confirmation samples are collected. Distribution system sampling for Disinfection By-Products and Chromium is no longer be accomplished once the chlorination system is of line.



### **Day One**

Shut off power to the chlorine pump, chlorine analyzer and chlorine alarm system. Verify all operation of all chlorine injection system has stopped.

### **Day Four**

Collect three bacteria samples from the distribution system. One in a centralized location in the park, one upstream and one downstream.

### **Day Eight**

Collect three bacteria samples from the distribution system. One in a centralized location in the park, one upstream and one downstream.

### **Day Fifteen**

Collect three bacteria samples from the distribution system. One in a centralized location in the park, one upstream and one downstream.

### **Day Twenty Two**

Collect three bacteria samples from the distribution system. One in a centralized location in the park, one upstream and one downstream.

### **Day Twenty Nine**

Collect three bacteria samples from the distribution system. One in a centralized location in the park, one upstream and one downstream.

### **Day Thirty**

Neutralize chlorine in the chemical solution tank and dispose of in a proper manner. Clean and store chlorination equipment and maintain on site for future use. Decommissioning complete.



## IV) Chlorination System Operation Plan

All operational checks and repairs will either be conducted by the onsite staff or contracted CDO. Only monitoring will be conducted by the onsite staff and repairs will be monitored by CDO.

### Daily Checks

#### 1) Visual Inspections of Wells

- I. Leaks
- II. Hazards
- III. Proper operation
- IV. Record observations and correct any problems

#### 2) Visual Inspection of the Pressure Tank

- I. Leaks
- II. Hazards
- III. Operating pressure
- IV. Record observations and correct any problems

### Monthly Checks

One time per month all of the above checks under (daily and weekly checks) will be conducted, in conjunction with the additional items noted below:

#### 1. Source Water Level Monitoring

- I. Monitor and record static and pumping draw down levels from each ground water source. Submit findings to Stanislaus County Department of Environmental Recourses on monthly water system report.
- II. Record totalizing flow meter readings

#### 2. Analytical Monitoring

In conjunction with the current sampling matrix for the source water samples the following analytical sampling will be conducted either by Quality Service, Inc. CDO/ CTO or California Certified laboratory staff.

- I. Routine Bacteria Monitoring
  - i. Distribution System Monitoring (monthly)
    - a) Coliform Bacteria monitoring as per sample site plan (2015 revision) 1 sample per month
    - b) Free Chlorine Residual reading recorded on chain of custody for coliform monitoring.



## Quarterly Checks

One time per calendar quarter all the above checks under (daily, weekly and monthly checks) will be conducted, in conjunction with the additional items noted below.

### 1. Unoccupied Spaces

- I. On a quarterly base all unoccupied spaces will be flushed to help maintain water quality within the distribution system.

## Six Month Checks

Every six months all the above checks under (daily, weekly, monthly and quarterly checks) will be conducted, in conjunction with the additional items noted below.

### 1. Distribution System Flushing

- I. Flush distribution system at the following locations. Document all findings (i.e. water clarity, how long until water clarity improves, etc.).
  - i. Hydro pneumatic pressure tank drain valve to remove sediment build up on bottom of the tank.
  - ii. Routine bacteria sample site locations
  - iii. Fire hydrants

## Annual Checks

One time annually all of the above checks under (daily, weekly, monthly, quarterly checks and six month checks) will be conducted, in conjunction with the additional items noted below.

### 1. Valve Exercise Program

- I. In conjunction with the hydrant flushing, the valve exercise program will be established. The valve exercising program will incorporate both new and existing valves that have been identified within the distribution system. Documentation of this valve exercise program will be kept on file and presented to Stanislaus County Department of Environmental Recourses if requested.

### 2. Backflow Testing

- I. In the event that any backflow devices are installed within the distribution system, they will be tested annually to ensure proper operations.

### 3. Electrical Component Check

- I. Tighten all loose lugs and correct all electrical discrepancies.
- II. Check the amperage draw on both well pump motors.



## V) Emergency Response Plan

- 1) **Flooding:** In the event of flooding, the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. Both well heads will be sand bagged as best as possible to protect from surface water intrusion. An “Unsafe Water Alert” notice will be posted. Once the flood waters recede the water system will be evaluated for damage, repairs will be made if necessary, and a minimum four bacteria samples, representative of the water system, will be collected. This site lies outside the 100 and 500 year flood plains.
- 2) **Earthquake:** In the event of an earthquake the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. A “Water Outage Notice” notice will be posted. The master meter will be monitored for water loss from possible broken lines or fixtures. All areas where distribution lines are placed will be monitored for evidence of standing water. The water system will be evaluated for damage, repairs will be made if necessary, and four bacteria samples, representative of the water system will be collected.
- 3) **Fire:** In the event of a fire the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. A “Water Outage Notice” will be posted. The water system will be evaluated for damage, and repairs will be made as necessary. Once repairs are made, four bacteria samples will be collected to insure quality.
- 4) **Power Outage:** In the event of a power loss and the water system pressure goes below 20 psi the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. A “Water Outage Notice” will be posted and once power is restored to the system four bacteria samples representative of the water system will be collected.
- 5) **Water Contamination:** In the event of water contamination the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. The corrective action will be taken in accordance with the Department of Health Services and Stanislaus Department of Environmental Resources guidelines to fix the water contamination problem.
- 6) **Water Outage:** In the event of a water outage the correct authorities will be contacted in accordance with the “Emergency Notification Plan”. A “Water Outage Notice” will be posted and once the problem is restored and system water quantity and pressure is restored, four bacteria samples representative of the water system will be collected.



- 7) Bacteriological Failure:** Once the water system is notified from the lab that a bacteria sample is positive, five repeat samples will be collected within a 24 hour period from time of notification. The five repeat samples will be collected in accordance with the sample site plan. The site of failure will be confirmed with the lab by the certified distribution operator. The system will be flushed and the four samples will be collected with chlorine residuals in accordance with the sample site plan. The chlorine residuals will be noted on the lab chain of custody. If any of the repeat samples collected come back positive for bacteria the Stanislaus County Department of Environmental Resources will be contacted immediately. The correct type of notices, for the bacteria count and type, will be posted. The certified distribution operator will conduct an investigation for the possible cause of the bacteria failure. Once the problem is identified the problem will be corrected and the water distribution system will be disinfected. After the disinfection process is complete and all the disinfectant has been out of the distribution system for a minimum of 8 hours, then four “other” bacteria samples will be collected in accordance with the sample site plan. The chlorine residuals that were taken with the samples will be noted on the lab chain of custody. Once all the samples are absent of bacteria Stanislaus County Department of Environmental Resources will be contacted with lab results and the County will lift the notice.
- 8) Names and Contact Information-Chain of Command**  
See attached “Emergency Notification Plan”
- 9) Emergency Notification Procedure:** In the event of an emergency, the water system is small enough that posting notices and hand bills should be enough warning for water users of the problems and safety protection procedures that need to be taken to protect themselves during an emergency. The potable water system will remain on a “Do Not Drink” or “Do Not Use” notice until all discrepancies are corrected; all precautionary steps are taken, and will continue normal operation with the permission of Stanislaus County Department of Environmental Resources after all repairs and discrepancies have been made.
- 10) Emergency Repairs:** Emergency procedures to get water system operational will be done by the certified water distribution operator. All repairs and required maintenance will be documented and completed in a timely manner. Bacteria samples will be collected as required and Stanislaus County Department of Environmental Resources will be notified of the cause of the emergency and the work that was done to correct the water problem.



**11) Steps to normal operation:** Steps to normal operation will be taken in accordance with the guidance given by the Stanislaus Department of Environmental Resources.

## **VI) Chemical and Equipment Suppliers**

### **-Hypochlorite 12.5% Solution (NSF)**

<u>Name</u>	<u>Address</u>	<u>Phone</u>
Sierra Chemical	1010 Industrial Drive Stockton, CA	(209)983-8298

### **-Chemical Feed Equipment**

<u>Name</u>	<u>Address</u>	<u>Phone</u>
USA Blue Book	4825 E. Cheyenne Avenue, Las Vegas, NV 89115	1-800-548-1234
Ryan Herco	1819 Junction Avenue, San Jose, CA	1-408-436-1141

### **-Pipe and Fitting Suppliers**

<u>Name</u>	<u>Address</u>	<u>Phone</u>
Ferguson	2201 Crows Landing Road Modesto, CA 95358	(209)538-6760
Ace Hardware	120 F Street Waterford, CA 95386	(209)874-2391



## VII) System Component Inventory Form

### -Maintenance and Monitoring Schedule

COMPONENT	CHECK and FREQUENCY
South Well (ID# 5000090-002)	Monthly: Coliform bacteria sample with a chlorine residual. (CDO/CTO or Lab Tech) Monitor static totalizer meter readings, and draw down water levels. (CDO/CTO)
South West Well (ID# 5000090-013)	Daily: visual, hazards (electrical, chemical, etc.), correct operation (On-site)
	Monthly: Coliform bacteria sample with a chlorine residual. (CDO/CTO or Lab Tech) Monitor static totalizer meter readings, and draw down water levels. (CDO/CTO)
Distribution System	Monthly: One coliform bacteria sample per sample site plan with a chlorine residual. (CDO/CTO or Lab Tech)
	Quarterly: Flushing of unoccupied spaces (CDO/CTO)
	Annually: Testing all backflows installed in the system. (Certified Tester) Hydrant flushing. (CDO/CTO)
Valves	Monthly: Visually inspect for leaks or cracks. (CDO/CTO)
	Annually: Exercise valves. (CDO/CTO)
Backflow Prevention Devices	Monthly: Visual inspection for leaks or cracks. (CDO/CTO)
	Annually: Testing all backflows installed in the system, repair or replacement if necessary.
Hydro-pneumatic Pressure Tank	Daily: Visually inspect for leaks or cracks. (On-site)
	Monthly: Flushing out of the bottom drain valve. (CDO/CTO)
Electrical Components	Monthly: Visual inspection of connections, hazards, and damage. (CDO/CTO)
	Annually: Insuring connections are tight. Check proper operation of pumps by measuring amperage draw for each well pump when running. (CDO/CTO)





P. O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

COPY TO:  
EMAIL TO: QUALITY SERVICE

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

ID#: N018

RIVERVIEW MHE, LLC  
C/O EVANS MGMT.  
871 38TH AVE.  
SANTA CRUZ, CA 95062

COLLECTED BY: B. STEVENS  
DATE COLLECTED: 10/12/2016  
DATE/TIME RECEIVED: 10/12/2016 / 1437  
DATE/TIME STARTED: 10/12/2016 / 1700  
DATE/TIME COMPLETED: 10/13/2016 / 1715  
DATE REPORTED: 10/27/2016

BACTERIOLOGICAL TEST FOR COLIFORM BACTERIA IN DRINKING WATER  
STD. METHODS #9223

CERTIFICATE OF ANALYSIS

SAMPLE ADDRESS: 8200 JANTZEN RD. - MODESTO

SYSTEM # 5000090

TIME COLL	FWL#	SAMPLE LOCATION	SAMPLE TYPE	RESID CL2	TOTAL COLIFORM BACTERIA (MPN/100mL)	E. COLI COLIFORM BACTERIA (MPN/100mL)
1321	S351	12" PVC WELL	1C	<0.05	ABSENCE	ABSENCE

IF ANY SAMPLE INDICATES AN "ABSENCE" OF TOTAL COLIFORM BACTERIA,  
IT MEETS STATE STANDARDS FOR COLIFORM BACTERIA.

IF ANY SAMPLE INDICATES A "PRESENCE" OF TOTAL COLIFORM BACTERIA,  
IT DOES NOT MEET STATE STANDARDS FOR COLIFORM BACTERIA.

SAMPLE TYPE: 1 - WELL  
2 - WELL TANK  
3 - DISTRIBUTION SYSTEM  
4 - SURFACE WATER/ SOURCE  
5 - OTHER

REASON FOR TEST: A - ROUTINE  
B - REPEAT  
C - SPECIAL

PERSON NOTIFIED:  
DATE/TIME NOTIFIED:

SIGNATURE:   
LABORATORY DIRECTOR



FAR WEST LABORATORIES  
6602 2ND ST.  
RIVERBANK, CA 95367

EX



P. O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

Date of Report: 16/10/27

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: FAR WEST LABORATORIES

Director:

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1321

Received @ Lab: 16/10/12/1430

Completed: 16/10/25

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: 16/10/12/1321

Laboratory Code: 4450 \*

\* YY MM DD TTTT

YY MM DD \*

\* Date Analysis completed: 16/10/25/ \*

\* Submitted by:

Phone #:

\*\*\*\*\*

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	

mg/L	Total Hardness (as CaCO3) (mg/L)	00900	311.2
mg/L	Calcium (Ca) (mg/L)	00916	75.2
mg/L	Magnesium (Mg) (mg/L)	00927	
mg/L	Sodium (NA) (mg/L)	00929	
mg/L	Potassium (K) (mg/L)	00937	

Total Cations & Total Anions M3.75

mg/L	Total Alkalinity (AS CaCO3) (mg/L)	00410	303.0
mg/L	Hydroxide (OH) (mg/L)	71830	< 1.0
mg/L	Carbonate (CO3) (mg/L)	00445	< 1.0
mg/L	Bicarbonate (HCO3) (mg/L)	00440	370.0
* mg/L+	Sulfate (SO4) (mg/L)	00945	41.7
* mg/L+	Chloride (Cl) (mg/L)	00940	48.6
45 mg/L	Nitrate (as NO3) (mg/L)	71850	
10 mg/L	Nitrate (as N) (mg/L)	00618	5.7
2 mg/L	Fluoride (F) (Natural-Source) 8.60	00951	< 0.1
Std.Units+	PH (Laboratory) (Std.Units)	00403	7.3
*** umho/cm+	Specific Conductance (E.C.) (umhos/cm)	00095	808.
**** mg/L+	Total Filterable Residue@180C(TDS) (mg/L)	70300	505.
15 Units	Apparent Color (Unfiltered) (Units)	00081	< 3.
3 TON	Odor Threshold at 60 C (TON)	00086	< 1.
5 NTU	Lab Turbidity (NTU)	82079	< 0.05
0.5 mg/L+	MBAS (mg/L)	38260	< 0.02

\* 250-500-600 \*\* 0.6-1.7 \*\*\* 900-1600-2200 \*\*\*\* 500-1000-1500





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Riverbank, CA 95367

Phone 209-869-9260  
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State Certification #1310

PAGE 2 OF 2

ADDITIONAL ANALYSES

26-3970

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	
10	mg/L	Nitrate + Nitrite as Nitrogen(N) (mg/L)	A-029	5.7	0.40
1	mg/L	Nitrite as Nitrogen(N) (mg/L)	00620	< 0.40	0.40

+ Indicates Secondary Drinking Water Standards



FAR WEST LABORATORIES  
6602 2ND ST.  
RIVERBANK, CA 95367

EX



P. O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

Date of Report: 16/11/16

Sample ID No.26-3970

Laboratory

Signature Lab

Name: BSK ANALYTICAL LABORATORIES

Director: *W. L. Lawrence*

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/13/1544

Completed: 16/10/25

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: |16|10|12|1231|

Laboratory Code: 5810

\* YY MM DD TTTT

YY MM DD

\* Date Analysis completed: |16|10|25|

\* Submitted by:

Phone #:

\*\*\*\*\*

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	
	mg/L	Total Hardness (as CaCO3) (mg/L)	00900		
	mg/L	Calcium (Ca) (mg/L)	00916		
	mg/L	Magnesium (Mg) (mg/L)	00927	29.0	
	mg/L	Sodium (NA) (mg/L)	00929	59.0	
	mg/L	Potassium (K) (mg/L)	00937	5.1	

| Total Cations & Total Anions M2.52 |

	mg/L	Total Alkalinity (AS CaCO3) (mg/L)	00410		
	mg/L	Hydroxide (OH) (mg/L)	71830		
	mg/L	Carbonate (CO3) (mg/L)	00445		
	mg/L	Bicarbonate (HCO3) (mg/L)	00440		
*	mg/L+	Sulfate (SO4) (mg/L)	00945		.5
*	mg/L+	Chloride (Cl) (mg/L)	00940		
45	mg/L	Nitrate (as NO3) (mg/L)	71850		2.0
10	mg/L	Nitrate (as N) (mg/L)	00618		0.4
2	mg/L	Fluoride (F) (Natural-Source) 0.00	00951		.1
	Std.Units+	PH (Laboratory) (Std.Units)	00403		
***	umho/cm+	Specific Conductance (E.C.) (umhos/cm)	00095		
****	mg/L+	Total Filterable Residue@180C (TDS) (mg/L)	70300		
15	Units	Apparent Color (Unfiltered) (Units)	00081		
3	TON	Odor Threshold at 60 C (TON)	00086		1.
5	NTU	Lab Turbidity (NTU)	82079		
0.5	mg/L+	MBAS (mg/L)	38260		

\* 250-500-600 \*\* 0.6-1.7 \*\*\* 900-1600-2200 \*\*\*\* 500-1000-1500





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INORGANIC CHEMICALS

26-3970

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	
1000	ug/L	Aluminum (Al) (ug/L)	01105	< 50.0	50.0
6	ug/L	Antimony (ug/L)	01097	< 6.0	6.0
10	ug/L	Arsenic (As) (ug/L)	01002	3.5	2.0
1000	ug/L	Barium (Ba) (ug/L)	01007	330.0	100.0
4	ug/L	Beryllium (ug/L)	01012	< 1.0	1.0
5	ug/L	Cadmium (Cd) (ug/L)	01027	< 1.0	1.0
50	ug/L	Chromium (Total Cr) (ug/L)	01034	< 10.0	10.0
1000	ug/L+	Copper (Cu) (ug/L)	01042	< 50.0	50.0
300	ug/L+	Iron (Fe) (ug/L)	01045	< 100.0	100.0
	ug/L	Lead (Pb) (ug/L)	01051	< 5.0	5.0
50	ug/L+	Manganese (Mn) (ug/L)	01055	< 20.0	20.0
2	ug/L	Mercury (Hg) (ug/L)	71900	< 1.0	1.0
100	ug/L	Nickel (ug/L)	01067	< 10.0	10.0
50	ug/L	Selenium (Se) (ug/L)	01147	< 5.0	5.0
100	ug/L+	Silver (Ag) (ug/L)	01077	< 10.0	10.0
2	ug/L	Thallium (ug/L)	01059	< 1.0	1.0
5000	ug/L	Zinc (Zn) (ug/L)	01092	< 50.0	50.0

ADDITIONAL ANALYSES

6	ug/L	Perchlorate (ug/L)	A-031	< 4.0	4.0
	ug/L	Chromium, hexavalent (CrVI) (ug/L)	01032	2.7	1.0

+ Indicates Secondary Drinking Water Standards



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ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 16/11/16

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: BSK ANALYTICAL LABORATORIES

Director:

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/13/1544

Completed: 16/10/25

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: 16/10/12/1231

Laboratory Code: 5810

\* YY MM DD TTTT

YY MM DD

\* Date Analysis completed: 16/10/25

\* Submitted by:

Phone #:

\*\*\*\*\*

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REGULATED ORGANIC CHEMICALS

TEST	CHEMICAL	ENTRY	ANALYSES	MCL	DLR
METHOD	ALL CHEMICALS REPORTED ug/L	#	RESULTS	ug/L	ug/L
524.2	Total Trihalomethanes (TTHMs)	82080	ND	80	
524.2	Bromodichloromethane	32101	ND		1.0
524.2	Bromoform	32104	ND		1.0
524.2	Chloroform (Trichloromethane)	32106	ND		1.0
524.2	Dibromochloromethane	32105	ND		1.0
524.2	Benzene	34030	ND	1	.50
524.2	Carbon Tetrachloride	32102	ND	.5	.50
524.2	1,2-Dichlorobenzene (o-DCB)	34536	ND	600	.50
524.2	1,4-Dichlorobenzene (p-DCB)	34571	ND	5	.50
524.2	1,1-Dichloroethane (1,1-DCA)	34496	ND	5	.50
524.2	1,2-Dichloroethane (1,2-DCA)	34531	ND	.5	.50
524.2	1,1-Dichloroethylene (1,1-DCE)	34501	ND	6	.50
524.2	cis-1,2-Dichloroethylene (c-1,2-DCE)	77093	ND	6	.50
524.2	trans-1,2-Dichloroethylene (t-1,2-DCE)	34546	ND	10	.50
524.2	Dichloromethane (Methylene Chloride)	34423	ND	5	.50
524.2	1,2-Dichloropropane	34541	ND	5	.50
524.2	Total 1,3-Dichloropropene	34561	ND	.5	.50
524.2	Ethyl Benzene	34371	ND	300	.50
524.2	Methyl tert-Butyl Ether (MTBE)	46491	ND	5	3.00
524.2	Monochlorobenzene (Chlorobenzene)	34301	ND	70	.50
524.2	Styrene	77128	ND	100	.50
524.2	1,1,2,2-Tetrachloroethane	34516	ND	1	.50
524.2	Tetrachloroethylene (PCE)	34475	ND	5	.50
524.2	Toluene	34010	ND	150	.50
524.2	1,2,4-Trichlorobenzene	34551	ND	5	.50





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REGULATED ORGANIC CHEMICALS CONTINUED 26-3970

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	200	.50
524.2	1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	5	.50
524.2	Trichloroethylene (TCE)	39180	ND	5	.50
524.2	Trichlorofluoromethane (FREON 11)	34488	ND	150	5.00
524.2	Trichlorotrifluoroethane (FREON 113)	81611	ND	1200	10.00
524.2	Vinyl Chloride (VC)	39175	ND	.5	.50
524.2	m-Xylene	81710	ND		.50
524.2	m,p-Xylene	A-014	ND		.50
524.2	o-Xylene	77135	ND		.50
524.2	p-Xylene	78132	ND		.50
524.2	Total Xylenes (m,p, & o)	81551	ND	1750	
504.1	Dibromochloropropane (DBCP)	38761	ND	.2	.01
504.1	Ethylene Dibromide (EDB)	77651	ND	.05	.02
505	Endrin	39390	ND	2	.10
505	Lindane (gamma-BHC)	39340	ND	.2	.20
505	Methoxychlor	39480	ND	30	10.00
505	Toxaphene	39400	ND	3	1.00
505	Chlordane	39350	ND	.1	.10
505	Heptachlor	39410	ND	.01	.01
505	Heptachlor epoxide	39420	ND	.01	.01
525.2	Atrazine (AATREX)	39033	ND	1	.50
525.2	Molinate (ORDRAM)	82199	ND	20	2.00
525.2	Simazine (PRINCEP)	39055	ND	4	1.00
525.2	Thiobencarb (BOLERO)	A-001	ND	70	1.00
525.2	Alachlor (ALANEX)	77825	ND	2	1.00
515.3	Bentazon (BASAGRAN)	38710	ND	18	2.00
525.2	Benzo(a)pyrene	34247	ND	.2	0.10
515.3	2,4-D	39730	ND	70	10.00
515.3	2,4,5-TP (SILVEX)	39045	ND	50	1.00
531.1	Carbofuran (FURADAN)	81405	ND	18	5.00
515.3	Dalapon	38432	ND	200	10.00
515.3	Dinoseb (DNBP)	81287	ND	7	2.00
549.2	Diquat	78885	ND	20	4.00
548.1	Endothall	38926	ND	100	45.00
547	Glyphosate	79743	ND	700	25.00
505	Hexachlorobenzene	39700	ND	1	.50
505	Hexachlorocyclopentadiene	34386	ND	50	1.00
531.1	Oxamyl (Vydate)	38865	ND	50	20.00
515.3	Pentachlorophenol (PCP)	39032	ND	1	.20
515.3	Picloram	39720	ND	500	1.00

UNREGULATED ORGANIC CHEMICALS

524.2	tert-Amyl Methyl Ether (TAME)	A-034	ND		3.00
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UNREGULATED ORGANIC CHEMICALS

26-3970

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
524.2	Bromobenzene	81555	ND		.50
524.2	Bromochloromethane	A-012	ND		.50
524.2	Bromomethane (Methyl Bromide)	34413	ND		.50
524.2	tert-Butyl Alcohol (TBA)	77035	ND		2.00
524.2	n-Butylbenzene	A-010	ND		.50
524.2	sec-Butylbenzene	77350	ND		.50
524.2	tert-Butylbenzene	77353	ND		.50
524.2	Chloroethane	34311	ND		.50
524.2	2-Chloroethylvinyl Ether	34576	ND		
524.2	Chloromethane (Methyl Chloride)	34418	ND		.50
524.2	2-Chlorotoluene	A-008	ND		.50
524.2	4-Chlorotoluene	A-009	ND		.50
524.2	Dibromomethane	77596	ND		.50
524.2	1,3-Dichlorobenzene (m-DCB)	34566	ND		.50
524.2	Dichlorodifluoromethane (Freon 12)	34668	ND		0.50
524.2	1,3-Dichloropropane	77173	ND		.50
524.2	2,2-Dichloropropane	77170	ND		.50
524.2	1,1-Dichloropropene	77168	ND		.50
524.2	Diisopropyl Ether (DIPE)	A-036	ND		3.00
524.2	Ethyl tert-Butyl Ether (ETBE)	A-033	ND		3.00
524.2	Hexachlorobutadiene	34391	ND		.50
524.2	Isopropylbenzene (Cumene)	77223	ND		.50
524.2	p-Isopropyltoluene	A-011	ND		
524.2	Naphthalene	34696	ND		.50
524.2	n-Propylbenzene	77224	ND		.50
524.2	1,1,1,2-Tetrachloroethane	77562	ND		.50
524.2	1,2,3-Trichlorobenzene	77613	ND		.50
524.2	1,2,3-Trichloropropane	77443	ND		.005
524.2	1,2,4-Trimethylbenzene	77222	ND		.50
524.2	1,3,5-Trimethylbenzene	77226	ND		.50
524.2	Methyl Ethyl Ketone (MEK, Butanone)	81595	ND		5.00
524.2	Methyl Isobutyl Ketone (MIBK)	81596	ND		5.00
531.1	Aldicarb (TEMIK)	39053	ND		3.00
531.1	Aldicarb Sulfone	A-020	ND		4.00
531.1	Aldicarb Sulfoxide	A-019	ND		3.00
505	Aldrin	39330	ND		.075
525.2	Bromacil (HYVAR)	82198	ND		10.00
525.2	Butachlor	77860	ND		.38
531.1	Carbaryl (Sevin)	77700	ND		5.00
525.2	Diazinon	39570	ND		
515.3	Dicamba (BANVEL)	82052	ND		1.50
505	Dieldrin	39380	ND		.02
531.1	3-Hydroxycarbofuran	A-021	ND		3.00
531.1	Methomyl	39051	ND		2.00





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UNREGULATED ORGANIC CHEMICALS

26-3970

TEST METHOD	CHEMICAL ALL CHEMICALS REPORTED ug/L	ENTRY #	ANALYSES RESULTS	MCL ug/L	DLR ug/L
525.2	Metribuzin	81408	ND		
525.2	Propachlor	38533	ND		.50
525.2	Metolachlor	39356	ND		
525.2	Dimethoate (CYGON)	38458	ND		



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RADIOACTIVITY ANALYSIS (9/99)

Date of Report: 16/11/16

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: BSK ANALYTICAL LABORATORIES

Director: *[Signature]*

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE *pc*

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/13/1544

Completed: 16/10/25

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: |16|10|12|1231|

Laboratory Code: 5810 \*

\* YY MM DD TTTT

YY MM DD \*

\*

Date Analysis completed: |16|10|25| \*

\* Submitted by: \_\_\_\_\_

Phone #: \_\_\_\_\_ \*

\*\*\*\*\*

MCL REPORT UNITS	CHEMICAL	STORET CODE	ANALYSES RESULTS	DLR
pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
pCi/L	SECTION 64442 (22 CCR 64442)			
15 pCi/L	Gross Alpha	01501	16.9	3.0
pCi/L	Gross Alpha Counting Error	01502	0.651	
pCi/L	Gross Alpha MDA95 *	A-072	0.747	
20 pCi/L	Uranium	28012	16.0	1.0
pCi/L	Uranium Counting Error	A-028		
pCi/L	Uranium MDA95	A-073		
pCi/L	Radium 226	09501		1.0
pCi/L	Radium 226 Counting Error	09502		
pCi/L	Radium 226 MDA95	A-074		
pCi/L	Radium 228	11501		1.0
pCi/L	Radium 228 Counting Error	11502		
pCi/L	Radium 228 MDA95	A-075		
5 pCi/L	Ra 226 + Ra 228, Combined	11503		
pCi/L	Ra 226 + Ra 228 Counting Error, Combined	11504		
pCi/L	Ra 226 + Ra 229 MDA95, Combined	A-076		
pCi/L	RADIUM, TOTAL, (FOR NTNC ONLY, BY 903.0)			
pCi/L	Ra-226 for CWS or Tot RA for NTNC by 903	A-080		
pCi/L	Ra-226 or Total RA by 903.0 C.E.	A-081		
pCi/L	Ra-226 or Total RA by 903.0 MDA95	A-082		
pCi/L	TITLE 22 CALIFORNIA CODE OF REGULATIONS			
pCi/L	SECTION 64443 (22 CCR 64443)			



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State Certification #1310

GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

Date of Report: 16/11/16

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: LA TESTING

Director: *[Signature]*

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/14/0800

Completed: 16/10/28

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: 16/10/12/1231

Laboratory Code: 2283

\* YY MM DD TTTT

YY MM DD

\*

Date Analysis completed: 16/10/28

\* Submitted by:

Phone #:

\*\*\*\*\*

PAGE 1 OF 1

ADDITIONAL ANALYSES

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	
7	MFL	Asbestos (MFL)	81855	ND	.20

+ Indicates Secondary Drinking Water Standards



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RADIOACTIVITY ANALYSIS (9/99)

Date of Report: 16/11/16

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: PACE ANALYTICAL SERVICES, INC-GREENSBURG Director:

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/24/0915

Completed: 16/11/14

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC WELL

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: 16/10/12/1231/

Laboratory Code: 0010

\* YY MM DD TTTT

YY MM DD

\* Date Analysis completed: 16/11/14/

\* Submitted by:

Phone #:

\*\*\*\*\*

MCL REPORT	CHEMICAL	STORET	ANALYSES	DLR
UNITS		CODE	RESULTS	
pCi/L TITLE 22 CALIFORNIA CODE OF REGULATIONS				
pCi/L SECTION 64442 (22 CCR 64442)				
15 pCi/L Gross Alpha		01501		3.0
pCi/L Gross Alpha Counting Error		01502		
pCi/L Gross Alpha MDA95 *		A-072		
20 pCi/L Uranium		28012		1.0
pCi/L Uranium Counting Error		A-028		
pCi/L Uranium MDA95		A-073		
pCi/L Radium 226		09501	0.250	1.0
pCi/L Radium 226 Counting Error		09502	0.584	
pCi/L Radium 226 MDA95		A-074		
pCi/L Radium 228		11501	0.765	1.0
pCi/L Radium 228 Counting Error		11502	0.433	
pCi/L Radium 228 MDA95		A-075		
5 pCi/L Ra 226 + Ra 228, Combined		11503		
pCi/L Ra 226 + Ra 228 Counting Error, Combined		11504		
pCi/L Ra 226 + Ra 229 MDA95, Combined		A-076		
pCi/L RADIUM, TOTAL, (FOR NTNC ONLY, BY 903.0)				
pCi/L Ra-226 for CWS or Tot RA for NTNC by 903		A-080		
pCi/L Ra-226 or Total RA by 903.0 C.E.		A-081		
pCi/L Ra-226 or Total RA by 903.0 MDA95		A-082		
pCi/L TITLE 22 CALIFORNIA CODE OF REGULATIONS				
pCi/L SECTION 64443 (22 CCR 64443)				



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GENERAL MINERAL & PHYSICAL & INORGANIC ANALYSIS (9/99)

Date of Report: 16/11/21

Sample ID No. 26-3970

Laboratory

Signature Lab

Name: BSK ANALYTICAL LABORATORIES

Director: *[Signature]*

Name of Sampler: B. STEVENS

Employed By: QUALITY SERVICE

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 16/10/12/1231

Received @ Lab: 16/10/13/1544

Completed: 16/10/25

System

System

Name: RIVERVIEW MOBILE HOME ESTATES

Number: 5000090

Name or Number of Sample Source: 12" PVC PIPE

\*\*\*\*\*

\* User ID: 50C

Station Number:

\* Date/Time of Sample: 16/10/12/1231

Laboratory Code: 5810

\* YY MM DD TTTT

YY MM DD

\*

Date Analysis completed: 16/10/25

\* Submitted by:

Phone #:

\*\*\*\*\*

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	

mg/L Total Hardness (as CaCO3) (mg/L)  
mg/L Calcium (Ca) (mg/L)  
mg/L Magnesium (Mg) (mg/L)  
mg/L Sodium (NA) (mg/L)  
mg/L Potassium (K) (mg/L)

00900  
00916  
00927  
00929  
00937

29.0  
59.0  
5.1

Total Cations & Total Anions M5.08

mg/L Total Alkalinity (AS CaCO3) (mg/L)  
mg/L Hydroxide (OH) (mg/L)  
mg/L Carbonate (CO3) (mg/L)  
mg/L Bicarbonate (HCO3) (mg/L)  
\* mg/L+ Sulfate (SO4) (mg/L)  
\* mg/L+ Chloride (Cl) (mg/L)  
45 mg/L Nitrate (as NO3) (mg/L)  
10 mg/L Nitrate (as N) (mg/L)  
2 mg/L Fluoride (F) (Natural-Source) 0.00

00410  
71830  
00445  
00440  
00945  
00940  
71850  
00618  
00951

.5  
2.0  
0.4  
.1

Std.Units+ PH (Laboratory) (Std.Units)

00403

\*\*\* umho/cm+ Specific Conductance (E.C.) (umhos/cm)

00095

\*\*\*\* mg/L+ Total Filterable Residue@180C(TDS) (mg/L)

70300

15 Units Apparent Color (Unfiltered) (Units)

00081

3 TON Odor Threshold at 60 C (TON)

00086

1.

5 NTU Lab Turbidity (NTU)

82079

0.5 mg/L+ MBAS (mg/L)

38260

\* 250-500-600 \*\* 0.6-1.7 \*\*\* 900-1600-2200 \*\*\*\* 500-1000-1500





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INORGANIC CHEMICALS

26-3970

MCL	REPORTING	CHEMICAL	ENTRY	ANALYSES	DLR
	UNITS		#	RESULTS	
1000	ug/L	Aluminum (Al) (ug/L)	01105	< 50.0	50.0
6	ug/L	Antimony (ug/L)	01097	< 6.0	6.0
10	ug/L	Arsenic (As) (ug/L)	01002	3.5	2.0
1000	ug/L	Barium (Ba) (ug/L)	01007	330.0	100.0
4	ug/L	Beryllium (ug/L)	01012	< 1.0	1.0
5	ug/L	Cadmium (Cd) (ug/L)	01027	< 1.0	1.0
50	ug/L	Chromium (Total Cr) (ug/L)	01034	< 10.0	10.0
1000	ug/L+	Copper (Cu) (ug/L)	01042	< 50.0	50.0
300	ug/L+	Iron (Fe) (ug/L)	01045	< 100.0	100.0
	ug/L	Lead (Pb) (ug/L)	01051	< 5.0	5.0
50	ug/L+	Manganese (Mn) (ug/L)	01055	< 20.0	20.0
2	ug/L	Mercury (Hg) (ug/L)	71900	< 1.0	1.0
100	ug/L	Nickel (ug/L)	01067	< 10.0	10.0
50	ug/L	Selenium (Se) (ug/L)	01147	< 5.0	5.0
100	ug/L+	Silver (Ag) (ug/L)	01077	< 10.0	10.0
2	ug/L	Thallium (ug/L)	01059	< 1.0	1.0
5000	ug/L	Zinc (Zn) (ug/L)	01092	< 50.0	50.0

ADDITIONAL ANALYSES

150	ug/L	Cyanide (ug/L)	01291	< 100.0	100.0
6	ug/L	Perchlorate (ug/L)	A-031	< 4.0	4.0
	ug/L	Chromium, hexavalent (CrVI) (ug/L)	01032	2.7	1.0

+ Indicates Secondary Drinking Water Standards





## TECHNICAL MEMORANDUM

To: Mr. Bill Ebert  
Riverview Mobile Home Estates LLC  
2967 Daylight Way  
San Jose, California 95111

From: Craig Riddle, PG  
Joseph Zilles, PG

Date: August 17, 2018

File: 20190044.001A

**RE: Test Well Drilling Results  
Riverview MHP  
8200 Jantzen Road  
Stanislaus County, California**

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This memorandum presents a description of field activities and results from test well drilling at the subject property. The work was performed in accordance with Kleinfelder's proposal for services dated March 23, 2018, and industry standards. The scope of work performed includes test well drilling and logging and zone testing for water quality, as described below.

### TEST WELL DRILLING AND LOGGING

Prior to mobilizing to the field, Kleinfelder cleared the site for underground utilities by contacting Underground Services Alert (USA). A site meet was conducted with Mr. Dave Frediani to determine the drilling location (Figure 1) and identify known utilities nearby. In addition, a health and safety plan was prepared for field work activities and reviewed each day before work began.

Kleinfelder contracted with Masellis Drilling of Modesto, California, for drilling services. Masellis is C-57 licensed water well contractor in California. Masellis acquired a drilling permit from Stanislaus County and mobilized to the site on June 4, 2018 to begin work.

A Midway 1500 drill rig was utilized by Masellis to drill the test well (KB-01). The boring was drilled to a total depth of the hole (400 feet below ground surface) using a conventional mud rotary drilling system with an 8 inch diameter spade bit. A trench was dug adjacent to the boring and drill rig to circulate drilling fluid and remove drill cuttings from the hole. Lithology was recorded from the drill cuttings and samples were collected every 10 feet or at discernible changes of lithology. A Kleinfelder Professional Geologist (PG) logged the soils encountered according to ASTM D2488. The complete boring log is included in Appendix A. Following drilling of the boring, an electronic log (E-log) was performed by Hydro-Tech Inc. of Madera, California (Appendix B) to further analyze the formation lithology.



## ZONE TESTING FOR WATER QUALITY

Upon completion of the E-log, the data was analyzed and 2 zones were identified (120-149 feet and 250-271 feet) for collection of discrete water quality samples. Groundwater was measured in the hole at 77.50 feet below ground surface. The boring was reamed to 295 feet with an 11 inch diameter roller-cone bit using drilling additives to stabilize the hole. A coarse sand was used to backfill the hole from 295 feet to 276 feet, and a bentonite seal was placed from 276 to 271 feet. A 4 inch diameter perforated well screen was placed from 260 to 268 feet, and the coarse sand was used as filter pack around the well screen to a depth of 250 feet, with an upper bentonite seal from 250 to 245 feet.

After the sand pack and seals were placed, the zone was purged by airlifting through the 4 inch pipe using a 1.5 inch air hose with an Ingersoll Rand 375 air compressor. After the sand content decreased and the water clarity improved, the air hose was removed and a Grundfos 1.5 Horsepower, 2 inch diameter pump was installed to further purge the test well. During purging, the water quality parameters were monitored for sand content, pH, temperature, electrical conductivity, total dissolved solids, dissolved oxygen and turbidity.

Once the water quality parameters stabilized, a water sample was collected from the zone (250-271 feet). Groundwater samples were collected from the sampling port of the discharge piping into laboratory prepared bottles. The bottles were given a unique sample identification label and packaged on ice in cooler pending transportation under chain of custody protocol to the analytical laboratory.

Another water sample was collected from the 120-149 foot zone using the same procedures and methodologies previously described.

The water samples from each zone were submitted to California Laboratory Services (CLS) of Rancho Cordova, California, an accredited analytical laboratory, for analysis by the indicated method for the following:

- General Minerals (STDM/EPA)
- Sodium Adsorption Ratio, Langelier Index, Aggressive Index (Calculations)
- Nitrate and Nitrite as N (EPA 300)
- Drinking Water Metals, Total and Dissolved (EPA 200)
- Cyanide (SM4500- CN E)
- Asbestos (EPA 100)
- Gross Alpha (EPA 900)
- Uranium (EPA 908.0)
- Radium 226 (EPA 905.0)
- Radium 228 (Ra-05)
- Volatile Organic Compounds (EPA 524.2)
- 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane (EPA 504)
- Organochlorine pesticides and polychlorinated biphenyls (EPA 508)
- Herbicides (EPA 515)
- Semi-volatile Organic Compounds (EPA 525)
- Carbamates (EPA 531)



- Glyphosate (EPA 547)
- Endothall (EPA 548)
- Diquat (EPA 549)
- Dioxin 2,3,7,8-TCDD (EPA 1613)
- Coliform and E. Coli (SM 9223)

A complete copy of laboratory analysis reports is presented in Appendix C.

Upon completion of the collection of groundwater samples, the casing and pipes were removed from the boring and the hole was backfilled with sand and gravel to 60 feet below ground surface and then with a bentonite-grout mix to the surface under the observation of a Stanislaus County inspector. The hole was covered with a plywood cover so that the hole can be converted to a well at a later date. If the hole will not be converted to a well, Masellis will return and plug the hole with a concrete cap.

Purge and development water from each zone sample was discharged to the adjacent field on the subject property. Cuttings from the test well were spread on site. Field activities were concluded on June 7, 2018.

## **ANALYTICAL RESULTS**

### **Shallow 120-149 feet**

The following analytes were reported in concentrations exceeding California Title 22 Regulated Drinking Water Maximum Contaminant Levels (MCLs) or Secondary Maximum Contaminant Levels (SMCLs) in the water sample collected from 120-149 feet:

- Gross Alpha was detected at a concentration of 51.4 picocuries per liter (pCi/L), exceeding the MCL of 15 pCi/L.
- Uranium (radiological) was detected at a concentration of 38.9 pCi/L, exceeding the MCL of 20 pCi/L.
- Aluminum (total) was detected at a concentration of 0.27 milligrams per liter (mg/L), exceeding the SMCL of 0.2 mg/L. Dissolved aluminum was not detected above the laboratory reporting limit.
- Total Dissolved Solids (TDS) was detected at a concentration of 580 mg/L, exceeding the SMCL recommended range of 500 mg/L.

Total coliform and *E. coli* (a subset of fecal coliform) were reported as present in the water sample collected at 120-149 feet. Typically for permitted small public water systems the presence of total coliform in more than one water sample in one month is considered to be in exceedance of the MCL.

### **Deep 250-271 feet**

The following analytes were reported in concentrations exceeding California Title 22 Regulated Drinking Water MCLs or SMCLs in the water sample collected from 250-271 feet:

- Total aluminum and dissolved aluminum were detected at concentrations of 0.3 mg/L and 0.49 mg/L respectively, exceeding the SMCL of 0.2 mg/L.





Total coliform was reported as present in the water sample collected at 250-271 feet. For the complete analytical laboratory report see Appendix C.

A blending analysis of the two zones was not completed due to the high variability of the water quality particularly as it pertained to the uranium level found in the shallow zone 38.9 pCi/L which exceeded the MCL of uranium of 20 pCi/L by almost 2x's.

## **CONCLUSIONS AND RECOMMENDATIONS**

The shallow water sample collected at 120 to 149 feet has exceedances of the MCL or SMCL for gross alpha, uranium, aluminum, and TDS. In addition, both total coliform and *E.coli* were reported as present. We do not recommend the groundwater from this zone be considered for consumption.

The deep water sample collected at 250 to 271 feet has an exceedance of the SMCL for total aluminum and dissolved aluminum. In addition, total coliform was reported as present. Both aluminum and coliform are relatively easily treated at or near the well head with filtering and disinfection processes. We recommend the deeper zone be considered for production of water for the mobile home park. Based on these results the preliminary well design should include:

- 8-inch diameter well extending to a total depth of 280 feet.
- The well screen should extend from 250 to 270 feet.
- The bottom ten feet should be a blank sump.

We recommend a gradation analysis be completed on the soil samples collected during drilling to be used for well screen (aperture opening) and filter pack gradation. Soil samples were retained at Kleinfelder's materials laboratory and can be processed for a fine and coarse grain gradational analyses.

## **LIMITATIONS**

This report was prepared in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present due to the limitations of data from field studies. Although risk can never be eliminated, more-detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface





studies or field tests, should be performed to reduce uncertainties. Acceptance of this report will indicate that the Client has reviewed the document and determined that it does not need or want a greater level of service than provided.

Kleinfelder makes no representations or warranties, express or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. These documents are not intended for use as a land survey product nor are they designed or intended as a construction document. The use or misuse of the information contained on these graphic representations is at the sole risk of the party using or misusing the information.




## FIGURE

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 <b>KLEINFELDER</b> <i>Bright People. Right Solutions.</i>  www.kleinfielder.com	PROJECT NO. 20190044.001A	<b>BORING LOCATION MAP</b>	<b>FIGURE</b>  <b>1</b>
	DRAWN: 8/10/2018		
	DRAWN BY: D. Ross		
	CHECKED BY: C. Riddle	Riverview MHP 8200 Jantzen Road Modesto, California	
	FILE NAME: 20190044_1.mxd		



## APPENDIX A

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**SAMPLER AND DRILLING METHOD GRAPHICS**

	BULK / GRAB / BAG SAMPLE
	MODIFIED CALIFORNIA SAMPLER (2 or 2-1/2 in. (50.8 or 63.5 mm.) outer diameter)
	CALIFORNIA SAMPLER (3 in. (76.2 mm.) outer diameter)
	STANDARD PENETRATION SPLIT SPOON SAMPLER (2 in. (50.8 mm.) outer diameter and 1-3/8 in. (34.9 mm.) inner diameter)
	HQ CORE SAMPLE (2.500 in. (63.5 mm.) core diameter)
	SHELBY TUBE SAMPLER
	PUSH TYPE SAMPLER
	SONIC CONTINUOUS SAMPLER
	HAND AUGER
	AUGER CUTTINGS

**GROUND WATER GRAPHICS**

	WATER LEVEL (level where first observed)
	WATER LEVEL (level after exploration completion)
	WATER LEVEL (additional levels after exploration)
	OBSERVED SEEPAGE

**NOTES**

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.

**ABBREVIATIONS**

WOH - Weight of Hammer  
WOR - Weight of Rod

**UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)**

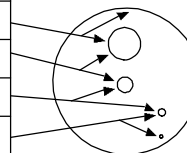
<b>GRAVELS</b> (More than half of coarse fraction is larger than the #200 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu ≥ 4 and 1 ≤ Cc ≤ 3		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		Cu < 4 and/or 1 > Cc > 3		GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
	GRAVELS WITH 5% TO 12% FINES	Cu ≥ 4 and 1 ≤ Cc ≤ 3		GW-GM	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
				GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		Cu < 4 and/or 1 > Cc > 3		GP-GM	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
				GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
	GRAVELS WITH > 12% FINES			GM	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
				GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
<b>SANDS</b> (More than half of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu ≥ 6 and 1 ≤ Cc ≤ 3		SW	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		Cu < 6 and/or 1 > Cc > 3		SP	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
	SANDS WITH 5% TO 12% FINES	Cu ≥ 6 and 1 ≤ Cc ≤ 3		SW-SM	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
				SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		Cu < 6 and/or 1 > Cc > 3		SP-SM	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
				SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
	SANDS WITH > 12% FINES			SM	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
				SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES
<b>FINE GRAINED SOILS</b> (More than half of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)			ML	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	SILTS AND CLAYS (Liquid Limit greater than 50)			OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
				MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

 <b>KLEINFELDER</b> Bright People. Right Solutions.	PROJECT NO.: 20190044	<b>GRAPHICS KEY</b>	<b>FIGURE</b>
	DRAWN BY: DR CHECKED BY: CR DATE: 6/8/2018 REVISED: -		
		Riverview MHP 8200 Jantzen Road Modesto, California	<b>A-1</b>



**GRAIN SIZE**

DESCRIPTION	SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders	>12 in. (304.8 mm.)	>12 in. (304.8 mm.)	Larger than basketball-sized
Cobbles	3 - 12 in. (76.2 - 304.8 mm.)	3 - 12 in. (76.2 - 304.8 mm.)	Fist-sized to basketball-sized
Gravel	coarse 3/4 - 3 in. (19 - 76.2 mm.)	3/4 - 3 in. (19 - 76.2 mm.)	Thumb-sized to fist-sized
	fine #4 - 3/4 in. (#4 - 19 mm.)	0.19 - 0.75 in. (4.8 - 19 mm.)	Pea-sized to thumb-sized
Sand	coarse #10 - #4	0.075 - 0.19 in. (2 - 4.9 mm.)	Rock salt-sized to pea-sized
	medium #40 - #10	0.017 - 0.075 in. (0.43 - 2 mm.)	Sugar-sized to rock salt-sized
	fine #200 - #40	0.0029 - 0.017 in. (0.07 - 0.43 mm.)	Flour-sized to sugar-sized
Fines	Passing #200	<0.0029 in. (<0.07 mm.)	Flour-sized and smaller

**SECONDARY CONSTITUENT**

	AMOUNT	
Term of Use	Secondary Constituent is Fine Grained	Secondary Constituent is Coarse Grained
Trace	<5%	<15%
With	≥5 to <15%	≥15 to <30%
Modifier	≥15%	≥30%

**MOISTURE CONTENT**

DESCRIPTION	FIELD TEST
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

**CEMENTATION**

DESCRIPTION	FIELD TEST
Weakly	Crumbles or breaks with handling or slight finger pressure
Moderately	Crumbles or breaks with considerable finger pressure
Strongly	Will not crumble or break with finger pressure

**CONSISTENCY - FINE-GRAINED SOIL**

CONSISTENCY	SPT - N <sub>60</sub> (# blows / ft)	Pocket Pen (tsf)	UNCONFINED COMPRESSIVE STRENGTH (Q <sub>u</sub> )(psf)	VISUAL / MANUAL CRITERIA
Very Soft	<2	PP < 0.25	<500	Thumb will penetrate more than 1 inch (25 mm). Extrudes between fingers when squeezed.
Soft	2 - 4	0.25 ≤ PP < 0.5	500 - 1000	Thumb will penetrate soil about 1 inch (25 mm). Remolded by light finger pressure.
Medium Stiff	4 - 8	0.5 ≤ PP < 1	1000 - 2000	Thumb will penetrate soil about 1/4 inch (6 mm). Remolded by strong finger pressure.
Stiff	8 - 15	1 ≤ PP < 2	2000 - 4000	Can be imprinted with considerable pressure from thumb.
Very Stiff	15 - 30	2 ≤ PP < 4	4000 - 8000	Thumb will not indent soil but readily indented with thumbnail.
Hard	>30	4 ≤ PP	>8000	Thumbnail will not indent soil.

FROM TERZAGHI AND PECK, 1948; LAMBE AND WHITMAN, 1969; FHWA, 2002; AND ASTM D2488

**APPARENT / RELATIVE DENSITY - COARSE-GRAINED SOIL**

APPARENT DENSITY	SPT-N <sub>60</sub> (# blows/ft)	MODIFIED CA SAMPLER (# blows/ft)	CALIFORNIA SAMPLER (# blows/ft)	RELATIVE DENSITY (%)
Very Loose	<4	<4	<5	0 - 15
Loose	4 - 10	5 - 12	5 - 15	15 - 35
Medium Dense	10 - 30	12 - 35	15 - 40	35 - 65
Dense	30 - 50	35 - 60	40 - 70	65 - 85
Very Dense	>50	>60	>70	85 - 100

FROM TERZAGHI AND PECK, 1948

**STRUCTURE**

DESCRIPTION	CRITERIA
Stratified	Alternating layers of varying material or color with layers at least 1/4-in. thick, note thickness.
Laminated	Alternating layers of varying material or color with the layer less than 1/4-in. thick, note thickness.
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.
Slickensided	Fracture planes appear polished or glossy, sometimes striated.
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown.
Lensed	Inclusion of small pockets of different soils, such as small lenses of sand scattered through a mass of clay; note thickness.

**REACTION WITH HYDROCHLORIC ACID**

DESCRIPTION	FIELD TEST
None	No visible reaction
Weak	Some reaction, with bubbles forming slowly
Strong	Violent reaction, with bubbles forming immediately

**PLASTICITY**

DESCRIPTION	LL	FIELD TEST
Non-plastic	NP	A 1/8-in. (3 mm.) thread cannot be rolled at any water content.
Low (L)	< 30	The thread can barely be rolled and the lump or thread cannot be formed when drier than the plastic limit.
Medium (M)	30 - 50	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump or thread crumbles when drier than the plastic limit.
High (H)	> 50	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump or thread can be formed without crumbling when drier than the plastic limit.

**ANGULARITY**

DESCRIPTION	CRITERIA
Angular	Particles have sharp edges and relatively plane sides with unpolished surfaces.
Subangular	Particles are similar to angular description but have rounded edges.
Subrounded	Particles have nearly plane sides but have well-rounded corners and edges.
Rounded	Particles have smoothly curved sides and no edges.



PROJECT NO.: 20190044  
 DRAWN BY: DR  
 CHECKED BY: CR  
 DATE: 6/8/2018  
 REVISED: -

**SOIL DESCRIPTION KEY**

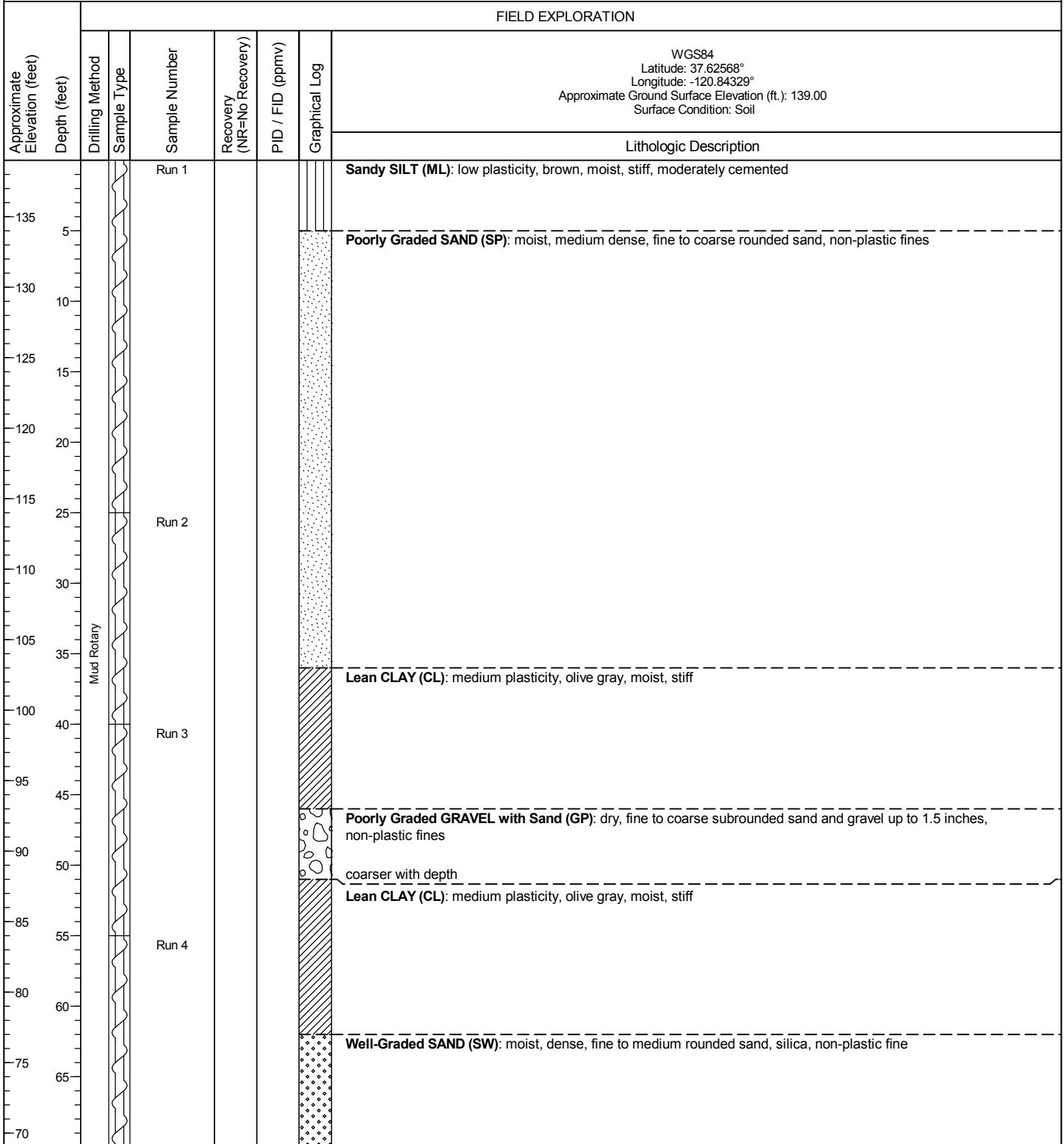
Riverview MHP  
 8200 Jantzen Road  
 Modesto, California


FIGURE

**A-2**



<b>Date Begin - End:</b> 6/04/2018	<b>Drilling Company:</b> Masellis Drilling	<b>BORING LOG KB-01</b>
<b>Logged By:</b> C. Riddle	<b>Drill Crew:</b> Patrick	
<b>Hor.-Vert. Datum:</b> Not Available	<b>Drilling Equipment:</b> Midway 1500	
<b>Plunge:</b> -90 degrees	<b>Drilling Method:</b> See Drilling Method Column	
<b>Weather:</b> Sunny	<b>Exploration Diameter:</b> 8 in./11 in. O.D.	



 <p><b>KLEINFELDER</b> Bright People. Right Solutions.</p>	PROJECT NO.: 20190044	<b>BORING LOG KB-01</b>	<b>FIGURE</b>  <b>A-3</b>
	DRAWN BY: DR		
	CHECKED BY: CR	Riverview MHP 8200 Jantzen Road Modesto, California	
	DATE: 6/8/2018		
REVISED: -			PAGE: 1 of 6



PLOTTED: 06/08/2018 01:21 PM BY: DRoss

OFFICE FILTER: SACRAMENTO

PROJECT NUMBER: 20190044.001A  
GINT FILE: KLF\_gint\_master\_2017  
GINT TEMPLATE: E:KLF\_STANDARD\_GINT\_LIBRARY\_2017.GLB [KLF\_ENVIRONMENTAL LOG]

<b>Date Begin - End:</b> 6/04/2018		<b>Drilling Company:</b> Masellis Drilling		<b>BORING LOG KB-01</b>	
<b>Logged By:</b> C. Riddle		<b>Drill Crew:</b> Patrick			
<b>Hor.-Vert. Datum:</b> Not Available		<b>Drilling Equipment:</b> Midway 1500			
<b>Plunge:</b> -90 degrees		<b>Drilling Method:</b> See Drilling Method Column			
<b>Weather:</b> Sunny		<b>Exploration Diameter:</b> 8 in./11 in. O.D.			

FIELD EXPLORATION									
Approximate Elevation (feet)	Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log	WGS84 Latitude: 37.62568° Longitude: -120.84329° Approximate Ground Surface Elevation (ft.): 139.00 Surface Condition: Soil	
								Lithologic Description	
65	75	Mud Rotary		Run 5				Well-Graded SAND (SW): moist, dense, fine to medium rounded sand, silica, non-plastic fine	
					Lean CLAY (CL): medium plasticity, olive gray, moist, stiff				
60	80								
55	85			Run 6				Well-Graded SAND (SW): wet, medium dense, fine to medium rounded sand, silica, non-plastic fine	
50	90							Lean CLAY (CL): medium plasticity, olive gray, moist, stiff	
45	95							Poorly Graded SAND (SP): wet, medium dense, fine to medium sand	
								Lean CLAY (CL): medium plasticity, dark gray, moist, very stiff	
40	100			Run 7				Poorly Graded SAND (SP)	
35	105							Lean CLAY (CL): medium plasticity, dark gray, moist, hard	
30	110							Poorly Graded GRAVEL with Sand (GP): wet, dense, fine to coarse sand, fine subrounded gravel up to 3/4 inches, non-plastic fines	
25	115			Run 8					
20	120							Poorly Graded SAND (SP): wet, dense, fine to medium sand, non-plastic fines	
15	125				Poorly Graded GRAVEL with Sand (GP): wet, very dense, gravel up to 2 inches, non-plastic fines				
10	130	Run 9							
5	135								
0									

 <b>KLEINFELDER</b> Bright People. Right Solutions.	PROJECT NO.: 20190044		<b>BORING LOG KB-01</b>	<b>FIGURE</b>  <b>A-3</b>
	DRAWN BY: DR			
	CHECKED BY: CR		Riverview MHP 8200 Jantzen Road Modesto, California	
	DATE: 6/8/2018			
	REVISED: -			PAGE: 2 of 6



<b>Date Begin - End:</b> 6/04/2018	<b>Drilling Company:</b> Masellis Drilling	<b>BORING LOG KB-01</b>
<b>Logged By:</b> C. Riddle	<b>Drill Crew:</b> Patrick	
<b>Hor.-Vert. Datum:</b> Not Available	<b>Drilling Equipment:</b> Midway 1500	
<b>Plunge:</b> -90 degrees	<b>Drilling Method:</b> See Drilling Method Column	
<b>Weather:</b> Sunny	<b>Exploration Diameter:</b> 8 in./11 in. O.D.	

FIELD EXPLORATION								
Approximate Elevation (feet)	Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)		
Graphical Log								
Lithologic Description								
WGS84 Latitude: 37.62568° Longitude: -120.84329° Approximate Ground Surface Elevation (ft.): 139.00 Surface Condition: Soil								
Sandy Lean CLAY (CL): olive brown to light reddish brown, moist, stiff, fine to medium sand, medium plasticity fines								
-5	145	Mud Rotary		Run 10				
-10	150							
-15	155							
-20	160			Run 11				
-25	165			Clayey SAND (SC): reddish brown and olive brown, moist, dense, fine to medium sand, low plasticity fines				
-30	170							
-35	175							
-40	180						Silty SAND (SM): olive brown, wet, loose, non-plastic fines	
-45	185			Lean CLAY with Sand (CL): low plasticity, bluish gray, moist, stiff				
-50	190							
-55	195							
-60	200							
-65	205						Run 14	
-70								


**Sandy Lean CLAY (CL):** olive brown to light reddish brown, moist, stiff, fine to medium sand, medium plasticity fines

reddish brown

**Clayey SAND (SC):** reddish brown and olive brown, moist, dense, fine to medium sand, low plasticity fines

**Silty SAND (SM):** olive brown, wet, loose, non-plastic fines

**Lean CLAY with Sand (CL):** low plasticity, bluish gray, moist, stiff

	PROJECT NO.: 20190044	<b>BORING LOG KB-01</b>	<b>FIGURE</b>
	DRAWN BY: DR		
	CHECKED BY: CR	Riverview MHP 8200 Jantzen Road Modesto, California	<b>A-3</b>
	DATE: 6/8/2018		
	REVISED: -		PAGE: 3 of 6





PLOTTED: 06/08/2018 01:21 PM BY: DRoss

OFFICE FILTER: SACRAMENTO

PROJECT NUMBER: 20190044.001A  
GINT FILE: KLF\_gint\_master\_2017  
GINT TEMPLATE: E:KLF\_STANDARD\_GINT\_LIBRARY\_2017.GLB [KLF\_ENVIRONMENTAL LOG]

Date Begin - End:	6/04/2018	Drilling Company:	Masellis Drilling	BORING LOG KB-01
Logged By:	C. Riddle	Drill Crew:	Patrick	
Hor.-Vert. Datum:	Not Available	Drilling Equipment:	Midway 1500	
Plunge:	-90 degrees	Drilling Method:	See Drilling Method Column	
Weather:	Sunny	Exploration Diameter:	8 in./11 in. O.D.	


FIELD EXPLORATION											
Approximate Elevation (feet)	Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)	Graphical Log				
WGS84 Latitude: 37.62568° Longitude: -120.84329° Approximate Ground Surface Elevation (ft.): 139.00 Surface Condition: Soil											
Lithologic Description											
-75	215	Mud Rotary		Run 15				Lean CLAY with Sand (CL): low plasticity, bluish gray, moist, stiff			
-80	220										
-85	225										
-90	230			Run 16							
-95	235										
-100	240										
-105	245			Run 17				Clayey SAND (SC): black to dark brown, wet, dense, fine to medium sand, non-plastic fines			
-110	250							coarser with depth			
-115	255							Poorly Graded GRAVEL with Silt and Sand (GP-GM): wet, very dense, fine to coarse sand, fine gravel up to 1/2 inch, non-plastic fines			
-120	260			Run 18							
-125	265										
-130	270										
-135	275										
-140											

 <b>KLEINFELDER</b> Bright People. Right Solutions.	PROJECT NO.: 20190044	BORING LOG KB-01	FIGURE
	DRAWN BY: DR		
	CHECKED BY: CR	Riverview MHP 8200 Jantzen Road Modesto, California	A-3
	DATE: 6/8/2018		
	REVISED: -		PAGE: 4 of 6



<b>Date Begin - End:</b> 6/04/2018	<b>Drilling Company:</b> Masellis Drilling	<b>BORING LOG KB-01</b>
<b>Logged By:</b> C. Riddle	<b>Drill Crew:</b> Patrick	
<b>Hor.-Vert. Datum:</b> Not Available	<b>Drilling Equipment:</b> Midway 1500	
<b>Plunge:</b> -90 degrees	<b>Drilling Method:</b> See Drilling Method Column	
<b>Weather:</b> Sunny	<b>Exploration Diameter:</b> 8 in./11 in. O.D.	

FIELD EXPLORATION						
Approximate Elevation (feet)	Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID / FID (ppmv)
Graphical Log						
Lithologic Description						
				Run 19		
						Clayey SAND (SC): wet, dense, non-plastic fines
						Poorly Graded SAND with Gravel (SP): wet, dense, non-plastic fines
				Run 20		
						Sandy Lean CLAY (CL): low plasticity, moist, very stiff, fine to medium sand
				Run 21		
						Poorly Graded ASH (SP): black, wet, dense, fine to medium sand, non-plastic fines
						Sandy Lean CLAY (CL): low plasticity, moist, stiff
				Run 22		
						sand lens
				Run 23		

 <p><b>KLEINFELDER</b> Bright People. Right Solutions.</p>	PROJECT NO.: 20190044	<b>BORING LOG KB-01</b>	<b>FIGURE</b>  <b>A-3</b>
	DRAWN BY: DR		
	CHECKED BY: CR	Riverview MHP 8200 Jantzen Road Modesto, California	
	DATE: 6/8/2018		
REVISED: -			PAGE: 5 of 6

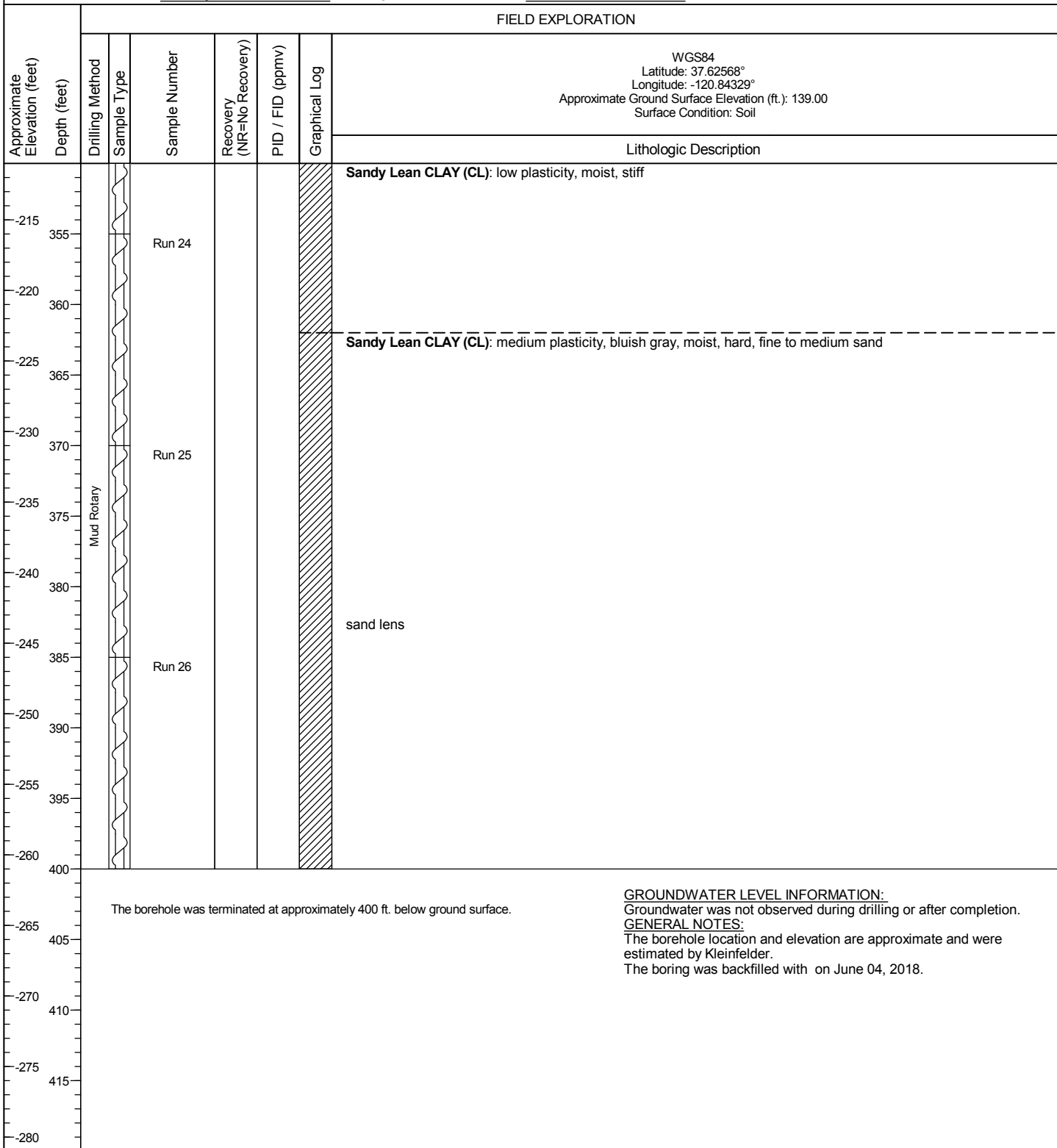



PLOTTED: 06/08/2018 01:21 PM BY: DRoss

OFFICE FILTER: SACRAMENTO

PROJECT NUMBER: 20190044.001A  
 GINT FILE: KLF\_gint\_master\_2017  
 GINT TEMPLATE: E:KLF\_STANDARD\_GINT\_LIBRARY\_2017.GLB [KLF\_ENVIRONMENTAL LOG]

<b>Date Begin - End:</b> 6/04/2018	<b>Drilling Company:</b> Masellis Drilling	<b>BORING LOG KB-01</b>
<b>Logged By:</b> C. Riddle	<b>Drill Crew:</b> Patrick	
<b>Hor.-Vert. Datum:</b> Not Available	<b>Drilling Equipment:</b> Midway 1500	
<b>Plunge:</b> -90 degrees	<b>Drilling Method:</b> See Drilling Method Column	
<b>Weather:</b> Sunny	<b>Exploration Diameter:</b> 8 in./11 in. O.D.	




	PROJECT NO.: 20190044	BORING LOG KB-01	FIGURE  A-3
	DRAWN BY: DR		
	CHECKED BY: CR	Riverview MHP 8200 Jantzen Road Modesto, California	PAGE: 6 of 6



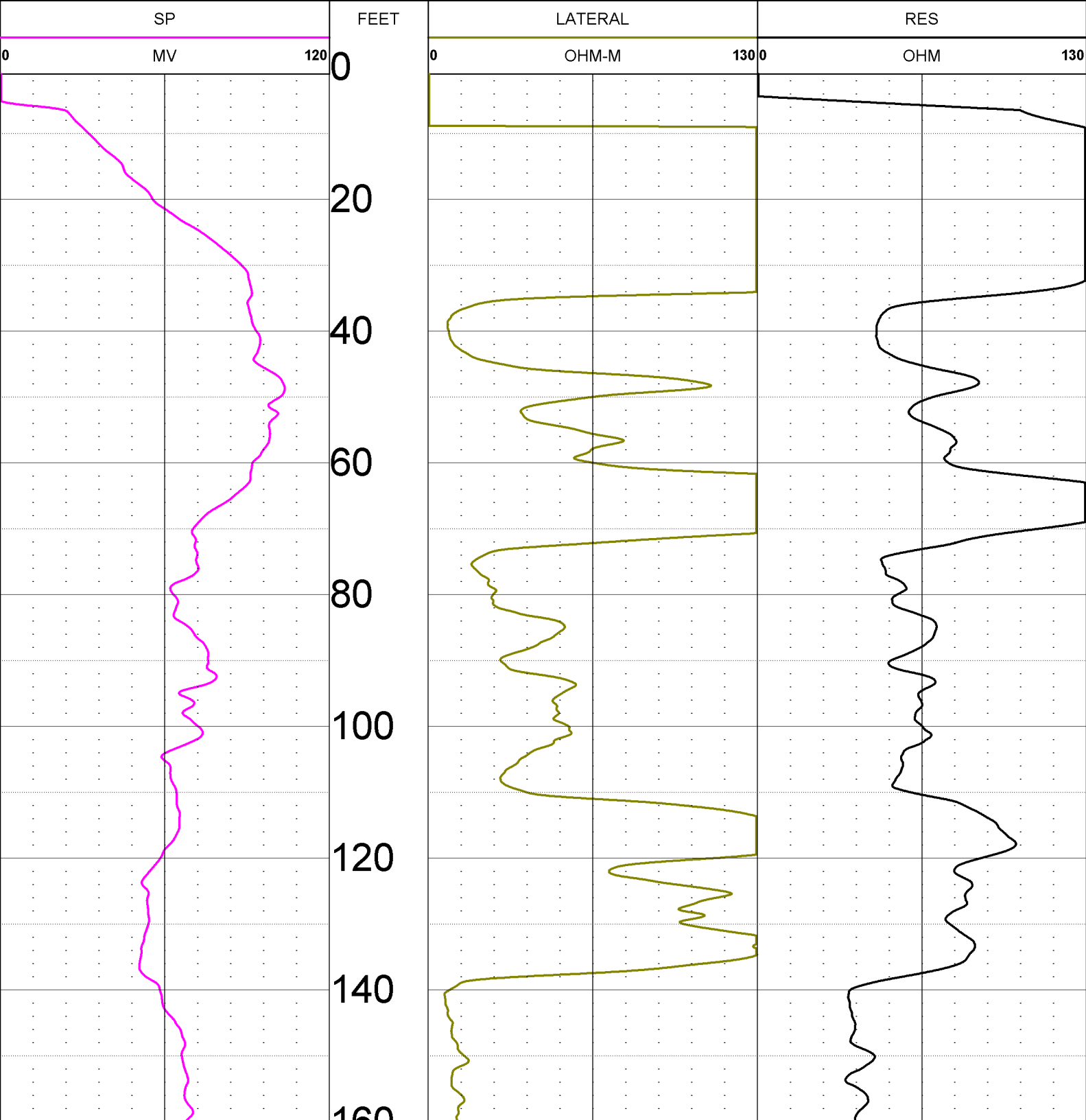
## APPENDIX B

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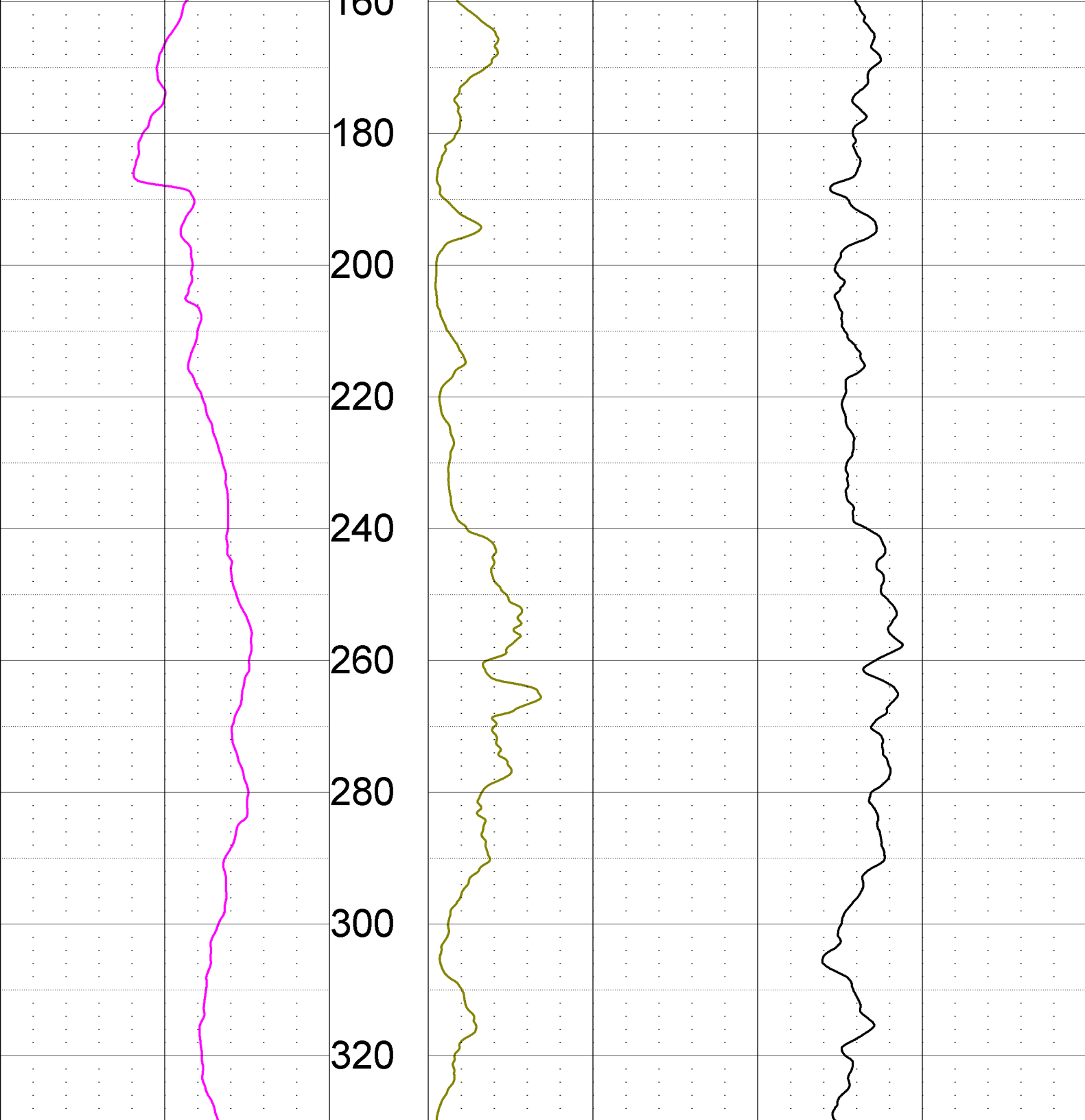


<div><div>HYDRO – TECH INC</div></div> <div>DOWN HOLE SURVEYS</div> <div>SERVING CA, + WESTERN STATES</div> <div>CONTACT: SCOLA @ 209 327 3086</div> <div>CHUCK @ 209 781 6421</div>		<div>RIVERVIEW MHP KB - 01</div> <div>8200 JANTZEN RD</div>	
<div>COMPANY : MASELLIS</div> <div>WELL : RIVERVIEW MHP KB - 018200 JANTZEN RD</div> <div>FIELD : MODESTO</div> <div>COUNTY : STANISLAUS</div> <div>STATE : CA</div>		<div>OTHER SERVICES:</div> <div>NONE</div>	
<div>LOCATION : 37°37'32" N 120°50'40" W</div> <div>SECTION : N/A</div> <div>TOWNSHIP : N/A</div> <div>RANGE : N/A</div> <div>API NO. : 12345678199999999</div> <div>UNIQUE WELL ID. : 049-005-42968</div>			
<div>PERMANENT DATUM : GL</div> <div>ELEVATION KB :</div> <div>LOG MEASURED FROM: GL</div> <div>ELEVATION DF :</div> <div>DRL MEASURED FROM: GL</div> <div>ELEVATION GL : 81</div>			
<div>DATE : 06/04/18</div> <div>RIG NUMBER : 01</div> <div>DEPTH DRILLER : 400</div> <div>LOGGER TD :</div> <div>BIT SIZE : 7 7/8</div> <div>ARRIVAL TIME : 1400</div> <div>LOG TOP : 1.00</div> <div>DEPARTURE TIME: 1500</div> <div>LOG BOTTOM : 382.40</div> <div>CIRC STOPPED : 2HR</div> <div>CASING OD :</div> <div>CASING BOTTOM :</div> <div>CASING TYPE :</div> <div>BOREHOLE FLUID : MUD</div> <div>RM TEMPERATURE : 68.5</div> <div>MUD RES : .179</div> <div>MUD WEIGHT : 8.9</div> <div>WITNESSED BY : KLEINFELDER</div> <div>RECORDED BY : SCOLA</div> <div>REMARKS 1 : DRILLER PJ</div> <div>REMARKS 2 :</div>			
<div>ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS</div>			

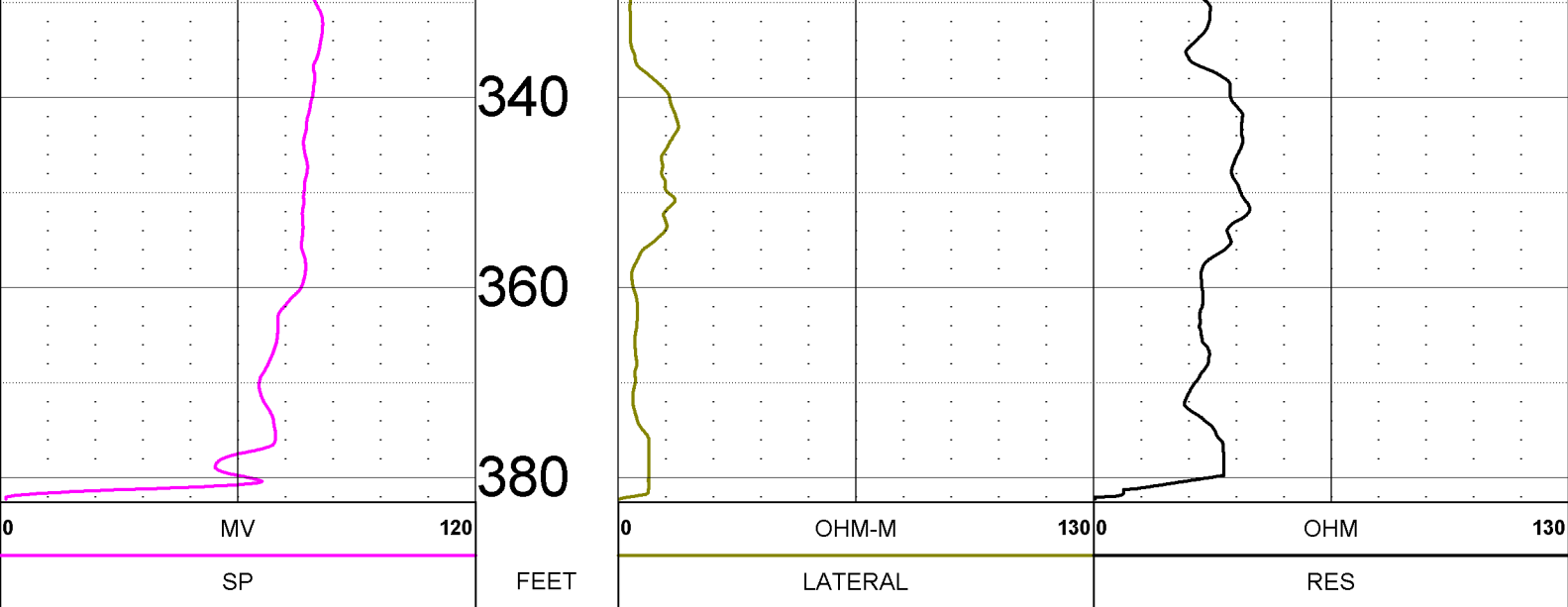














## APPENDIX C

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## CALIFORNIA LABORATORY SERVICES

*Committed. Responsive. Flexible.*

July 20, 2018

CLS Work Order #: 18F0272

COC #: 29379

Joe Zilles

Kleinfelder (Sacramento)

2882 Prospect Park Dr. suite 200

Rancho Cordova, CA 95742

**Project Name: Riverview MHP**

Enclosed are the results of analyses for samples received by the laboratory on 06/06/18 14:11. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.

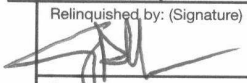
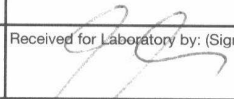
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233



18F0272

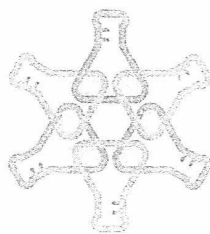
PROJECT NO. 20190044		PROJECT NAME Riverview MHP		NO. OF CON- TAINERS	TYPE OF CON- TAINERS	ANALYSIS												RECEIVING LAB: CLS
L.P. NO. (P.O. NO.)		SAMPLERS: (Signature/Number) C. RIDDLE				LAB REQUEST												INSTRUCTIONS/REMARKS
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX															
1	06/06/18 1040	KB-01-264	DW			X												
2	↓	↓	KB-01-264-CWT	DW														
3	↓	↓	KB-01-264-CWT-F	DW														FIELD FILTERED
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Relinquished by: (Signature) 	Date/Time 6/6/18 1411	Received by: (Signature)	Instructions/Remarks:	Send Results To: jzilles@kleinfelder.com criddle@kleinfelder.com  Attn: JOE ZILLES
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		
Relinquished by: (Signature)	Date/Time 6/6/18 1411	Received for Laboratory by: (Signature) 		

(48) White - Sampler



18F0272-2



# CALIFORNIA LABORATORY SERVICES

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## QUOTE REQUEST

Date: 03/22/18

Quote: Kleinfelder032218MS

Name: Kleinfelder

Project Name: Drinking Water Analysis

Project Manager: Joe Zilles

Location: CA

Effective Date: 03/01/2018

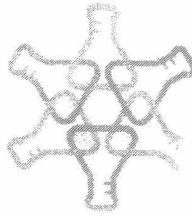
Expiration Date: 12/31/2018

QC Level: 1

Parameter	Method
General Mineral	STDM/EPA
SAR	CALC
Langelier Index	CALC
Aggressive Index	CALC
NO2-N	EPA 300
<i>DISSOLVED + TOTAL</i> DW Metals	EPA 200
Cyanide	SM4500-CN E
<b>Asbestos</b>	<b>EPA 100</b>
<b>Gross Alpha</b>	<b>EPA 900</b>
<b>Uranium (if needed)</b>	<b>EPA 908.0</b>
<b>Radium 226 (if needed)</b>	<b>EPA 905.0</b>
<b>Radium 228 (if needed)</b>	<b>Ra-05</b>
VOC	EPA 524.2
<b><u>SOC's</u></b>	
EDB & DBCP	EPA 504
CI - Pesticides + PCB's	EPA 508
<b>Herbicides</b>	<b>EPA 515</b>
<b>SVOC</b>	<b>EPA 525</b>

3249 Fitzgerald Road, Rancho Cordova, CA 95742 | 800.638.7301 | Tel: 916.638.7301 x102 | Fax: 916.638.4510 | [www.californialab.com](http://www.californialab.com)  
 Small Business #2916 | ELAP #1233 | NAICS #541380 | CA SWRCB ELAP Accreditation/Registration Number 1233




**CALIFORNIA  
LABORATORY  
SERVICES**

<i>Carbamates</i>	<i>EPA 531</i>
<i>Glyphosate</i>	<i>EPA 547</i>
<i>Endothall</i>	<i>EPA 548</i>
<i>Diquat</i>	<i>EPA 549</i>
<i>Dioxin (2,3,7,8-TCDD)</i>	<i>EPA 1613</i>
Coliform + E. Coli	SM9223
Disposal	CLS
<b>TOTAL</b>	

**BOLD/ITALICS:** Denotes Subcontracted Analyses

**Radiological:** If Gross Alpha exceeds 5 pCi/L run Uranium. If Gross Alpha minus Uranium exceeds 5 pCi/L

run Radium 226.

**DW Compliance:** Gross Alpha minus Uranium is  $\leq$  to 15 pCi/L

Uranium is  $\leq$  to 20 pCi/L; Ra226+Ra228 is  $\leq$  to 5 pCi/L

Warmest regards,

*Mark Smith*

Mark Smith  
Operations Manager

ENVIRONMENTAL  
CHEMISTRY



Quality Service - Fast Turnaround-Reasonable Rates  
Client Services: [marks@californialab.com](mailto:marks@californialab.com)



**CLS LABS**  
**SAMPLE RECEIVING EXCEPTION REPORTS**

CLS Labs Job # 19F0272

Problem discovered by: 00

Date: 9 10 18

**Nature of problem**

Sulfite

Chlorine, Total

Chlorine, Residual

Ph

Dissolved O2

(Circle analysis above) **Received out of HOLD time.**

Client contacted? Yes \_\_\_\_\_ No \_\_\_\_\_ Spoke With: \_\_\_\_\_

By whom: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Time: \_\_\_\_\_ HRS

**Client instructions:**

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**Resolution of problem:**

**Logged in regardless and will be ran for analysis requested.**

---

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---

---





## CALIFORNIA LABORATORY SERVICES

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07/20/18 16:43

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Chlorinated Pesticides and PCBs by EPA Method 508

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
KB-01-264 (18F0272-01) DW Sampled: 06/06/18 10:40 Received: 06/06/18 14:11									
Aldrin	ND	0.075	µg/L	1	1804641	06/07/18	06/09/18	EPA 508	
Chlordane	ND	0.10	"	"	"	"	"	"	
Chlorothalonil	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.020	"	"	"	"	"	"	
Endrin	ND	0.10	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.20	"	"	"	"	"	"	
Heptachlor	ND	0.010	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.010	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Polychlorinated Biphenyls (Total PCBs)	ND	0.50	"	"	"	"	"	"	
Propachlor	ND	0.50	"	"	"	"	"	"	
Toxaphene	ND	1.0	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		82 %	50-150		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		75 %	50-150		"	"	"	"	





## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
KB-01-264 (18F0272-01) DW Sampled: 06/06/18 10:40 Received: 06/06/18 14:11									
Aggressive Index	12.4		N/A	1	1804882	06/13/18	06/13/18	NONE	
Bicarbonate as CaCO <sub>3</sub>	290	5.0	mg/L	"	1804718	06/08/18	06/08/18	SM2320B	
Calcium	80	1.0	"	"	1804874	06/12/18	06/13/18	200.7/2340B	
Carbonate as CaCO <sub>3</sub>	ND	5.0	"	"	1804718	06/08/18	06/08/18	SM2320B	
Chloride	45	2.5	"	5	1804642	06/07/18	06/08/18	EPA 300.0	
Cyanide (total)	ND	0.0050	"	1	1804712	06/08/18	06/08/18	SM4500-CN E	
Fluoride	ND	0.10	"	"	1804642	06/07/18	06/07/18	EPA 300.0	
Hardness as CaCO <sub>3</sub>	300	1.0	"	"	1804874	06/12/18	06/13/18	200.7/2340B	
Hydroxide as CaCO <sub>3</sub>	ND	5.0	"	"	1804718	06/08/18	06/08/18	SM2320B	
Langlier Index	0.14		Std. Units	"	1804883	06/13/18	06/13/18	SM 203, 16th Ed.	
Magnesium	24	1.0	mg/L	"	1804874	06/12/18	06/13/18	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.10	"	"	1804678	06/07/18	06/07/18	SM5540 C	
Nitrate as N	6.7	0.40	"	"	1804642	06/07/18	06/07/18	EPA 300.0	
Nitrite as N	ND	0.40	"	"	"	"	"	"	
pH	7.62	0.01	pH Units	"	1804668	06/07/18	06/07/18	SM4500-H B	HT-F
Potassium	5.8	1.0	mg/L	"	1804874	06/12/18	06/13/18	200.7/2340B	
Sodium	54	1.0	"	"	"	"	"	"	
Sodium Adsorption Ratio	1.3		sqrt(meq/L)	"	1804887	06/13/18	06/13/18	None	
Specific Conductance (EC)	710	1.0	µmhos/cm	"	1804677	06/07/18	06/07/18	EPA 120.1	
Sulfate as SO <sub>4</sub>	44	2.5	mg/L	5	1804642	06/07/18	06/08/18	EPA 300.0	
Total Alkalinity	290	5.0	"	1	1804718	06/08/18	06/08/18	SM2320B	
Total Dissolved Solids	440	10	"	"	1804709	06/08/18	06/11/18	SM2540C	





## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### **EDB and DBCP by EPA Method 504.1**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW    Sampled: 06/06/18 10:40    Received: 06/06/18 14:11</b>									
1,2-Dibromo-3-chloropropane	ND	0.010	µg/L	1	1804667	06/07/18	06/07/18	EPA 504.1	
Ethylene dibromide	ND	0.020	"	"	"	"	"	"	





## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW    Sampled: 06/06/18 10:40    Received: 06/06/18 14:11</b>									
Uranium	ND	20	µg/L	1	1804759	06/11/18	07/12/18	EPA 200.8	





## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW Sampled: 06/06/18 10:40 Received: 06/06/18 14:11</b>									
<b>Aluminum</b>	<b>490</b>	50	µg/L	1	1804874	06/12/18	06/13/18	EPA 200.7	
Antimony	ND	4.0	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
<b>Arsenic</b>	<b>3.3</b>	2.0	"	"	"	"	"	"	
<b>Barium</b>	<b>290</b>	100	"	"	1804874	06/12/18	06/13/18	EPA 200.7	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	ND	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Chromium	ND	10	"	"	1804874	06/12/18	06/13/18	EPA 200.7	
Copper	ND	50	"	"	"	"	"	"	
<b>Iron</b>	<b>300</b>	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Manganese	ND	20	"	"	1804874	06/12/18	06/13/18	EPA 200.7	
Mercury	ND	0.20	"	"	1804802	06/11/18	06/13/18	EPA 245.1	
Nickel	ND	10	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	10	"	"	1804874	06/12/18	06/13/18	EPA 200.7	
Thallium	ND	1.0	"	"	1804858	06/13/18	06/14/18	EPA 200.8	
<b>Vanadium</b>	<b>7.4</b>	3.0	"	"	"	"	06/13/18	"	
Zinc	ND	50	"	"	1804874	06/12/18	06/13/18	EPA 200.7	





## CALIFORNIA LABORATORY SERVICES

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07/20/18 16:43

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
KB-01-264 (18F0272-01) DW Sampled: 06/06/18 10:40 Received: 06/06/18 14:11									
Aluminum	300	50	µg/L	1	1804705	06/08/18	06/08/18	EPA 200.7	
Antimony	ND	4.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Arsenic	4.6	2.0	"	"	"	"	"	"	
Barium	340	100	"	"	1804705	06/08/18	06/08/18	EPA 200.7	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	180	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Chromium	ND	10	"	"	1804705	06/08/18	06/08/18	EPA 200.7	
Copper	ND	50	"	"	"	"	"	"	
Iron	290	100	"	"	"	"	06/11/18	"	
Lead	ND	5.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Manganese	20	20	"	"	1804705	06/08/18	06/08/18	EPA 200.7	
Mercury	ND	1.0	"	"	1804802	06/11/18	06/13/18	EPA 245.1	
Nickel	ND	10	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	13	3.0	"	"	"	"	"	"	
Zinc	ND	50	"	"	1804705	06/08/18	06/08/18	EPA 200.7	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW    Sampled: 06/06/18 10:40    Received: 06/06/18 14:11</b>									
E. Coli	Absent	0.0	N/A	1	1804636	06/06/18	06/07/18	SM 9223	
Total Coliforms	Present	0.0	"	"	"	"	"	"	





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Purgeable Organic Compounds by EPA Method 524.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW Sampled: 06/06/18 10:40 Received: 06/06/18 14:11</b>									
1,1,1-Trichloroethane	ND	0.50	µg/L	1	1804837	06/11/18	06/11/18	EPA 524.2	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Total Trihalomethanes (THM)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	





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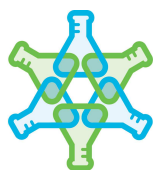
Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Purgeable Organic Compounds by EPA Method 524.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-264 (18F0272-01) DW    Sampled: 06/06/18 10:40    Received: 06/06/18 14:11</b>									
Surrogate: 1,2-Dichloroethane-d4		98 %		66-135	1804837	"	06/11/18	EPA 524.2	
Surrogate: 4-Bromofluorobenzene		109 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		98 %		70-130	"	"	"	"	





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

## Chlorinated Pesticides and PCBs by EPA Method 508 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1804641 - EPA 3510B GCNV

#### Blank (1804641-BLK1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	ND	0.075	µg/L							
Chlordane	ND	0.10	"							
Chlorothalonil	ND	5.0	"							
Dieldrin	ND	0.020	"							
Endrin	ND	0.10	"							
gamma-BHC (Lindane)	ND	0.20	"							
Heptachlor	ND	0.010	"							
Heptachlor epoxide	ND	0.010	"							
Hexachlorobenzene	ND	0.50	"							
Hexachlorocyclopentadiene	ND	1.0	"							
Methoxychlor	ND	10	"							
Propachlor	ND	0.50	"							
Toxaphene	ND	1.0	"							
Polychlorinated Biphenyls (Total PCBs)	ND	0.50	"							
Surrogate: Tetrachloro-meta-xylene	0.189		"	0.250		76	50-150			
Surrogate: Decachlorobiphenyl	0.230		"	0.250		92	50-150			

#### LCS (1804641-BS1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	0.440	0.075	µg/L	0.500		88	50-130			
Dieldrin	0.497	0.020	"	0.500		99	48-129			
gamma-BHC (Lindane)	0.458	0.20	"	0.500		92	49-127			
Surrogate: Tetrachloro-meta-xylene	0.163		"	0.250		65	50-150			
Surrogate: Decachlorobiphenyl	0.208		"	0.250		83	50-150			

#### LCS Dup (1804641-BSD1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	0.473	0.075	µg/L	0.500		95	50-130	7	30	
Dieldrin	0.520	0.020	"	0.500		104	48-129	4	30	
gamma-BHC (Lindane)	0.487	0.20	"	0.500		97	49-127	6	30	
Surrogate: Tetrachloro-meta-xylene	0.186		"	0.250		74	50-150			
Surrogate: Decachlorobiphenyl	0.231		"	0.250		92	50-150			





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804642 - General Preparation

##### Blank (1804642-BLK1)

Prepared & Analyzed: 06/07/18

Fluoride	ND	0.10	mg/L
Chloride	ND	0.50	"
Sulfate as SO4	ND	0.50	"
Nitrite as N	ND	0.40	"
Nitrate as N	ND	0.40	"

##### LCS (1804642-BS1)

Prepared & Analyzed: 06/07/18

Chloride	4.77	0.50	mg/L	5.00	95	80-120
Sulfate as SO4	4.62	0.50	"	5.00	92	80-120
Fluoride	2.08	0.10	"	2.00	104	80-120
Nitrite as N	2.00	0.40	"	2.00	100	80-120
Nitrate as N	2.01	0.40	"	2.00	101	80-120

##### LCS Dup (1804642-BSD1)

Prepared & Analyzed: 06/07/18

Chloride	4.81	0.50	mg/L	5.00	96	80-120	0.9	20
Sulfate as SO4	4.62	0.50	"	5.00	92	80-120	0.1	20
Fluoride	2.04	0.10	"	2.00	102	80-120	2	20
Nitrite as N	2.00	0.40	"	2.00	100	80-120	0.2	20
Nitrate as N	2.04	0.40	"	2.00	102	80-120	1	20

##### Matrix Spike (1804642-MS1)

Source: 18F0265-02

Prepared & Analyzed: 06/07/18

Sulfate as SO4	71.9	0.50	mg/L	5.00	69.6	45	80-120		QM-4X
Chloride	57.9	0.50	"	5.00	58.7	NR	80-120		QM-4X
Fluoride	1.63	0.10	"	2.00	0.155	74	80-120		QM-7
Nitrite as N	1.32	0.40	"	2.00	ND	66	80-120		QM-7
Nitrate as N	1.89	0.40	"	2.00	0.456	72	80-120		QM-7

##### Matrix Spike Dup (1804642-MSD1)

Source: 18F0265-02

Prepared & Analyzed: 06/07/18

Sulfate as SO4	72.0	0.50	mg/L	5.00	69.6	47	80-120	0.1	20	QM-4X
Chloride	58.1	0.50	"	5.00	58.7	NR	80-120	0.2	20	QM-4X
Fluoride	2.31	0.10	"	2.00	0.155	108	80-120	34	20	QM-7
Nitrite as N	1.36	0.40	"	2.00	ND	68	80-120	3	20	QM-7
Nitrate as N	1.93	0.40	"	2.00	0.456	74	80-120	2	20	QM-7





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804677 - General Preparation

##### Blank (1804677-BLK1)

Prepared & Analyzed: 06/07/18

Specific Conductance (EC) ND 1.0 µmhos/cm

#### Batch 1804678 - General Preparation

##### Blank (1804678-BLK1)

Prepared & Analyzed: 06/07/18

MBAS as LAS, mol wt 340 ND 0.10 mg/L

##### LCS (1804678-BS1)

Prepared & Analyzed: 06/07/18

MBAS as LAS, mol wt 340 0.460 0.10 mg/L 0.500 92 80-120

##### LCS Dup (1804678-BSD1)

Prepared & Analyzed: 06/07/18

MBAS as LAS, mol wt 340 0.456 0.10 mg/L 0.500 91 80-120 0.9 20

##### Matrix Spike (1804678-MS1)

Source: 18F0272-01

Prepared & Analyzed: 06/07/18

MBAS as LAS, mol wt 340 0.403 0.10 mg/L 0.500 ND 81 75-125

##### Matrix Spike Dup (1804678-MSD1)

Source: 18F0272-01

Prepared & Analyzed: 06/07/18

MBAS as LAS, mol wt 340 0.400 0.10 mg/L 0.500 ND 80 75-125 0.7 25

#### Batch 1804709 - General Preparation

##### Blank (1804709-BLK1)

Prepared: 06/08/18 Analyzed: 06/11/18

Total Dissolved Solids ND 10 mg/L

##### Duplicate (1804709-DUP1)

Source: 18F0278-01

Prepared: 06/08/18 Analyzed: 06/11/18

Total Dissolved Solids 358 10 mg/L 340 5 20





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804712 - General Preparation

##### Blank (1804712-BLK1)

Prepared & Analyzed: 06/08/18

Cyanide (total)	ND	0.0050	mg/L
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##### LCS (1804712-BS1)

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0880	0.0050	mg/L	0.100	88	75-125
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##### LCS Dup (1804712-BSD1)

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0891	0.0050	mg/L	0.100	89	75-125	1	25
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##### Matrix Spike (1804712-MS1)

Source: 18F0242-01

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0898	0.0050	mg/L	0.100	0.00350	86	75-125
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##### Matrix Spike Dup (1804712-MSD1)

Source: 18F0242-01

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0917	0.0050	mg/L	0.100	0.00350	88	75-125	2	25
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#### Batch 1804718 - General Preparation

##### Blank (1804718-BLK1)

Prepared & Analyzed: 06/08/18

Total Alkalinity	ND	5.0	mg/L
Bicarbonate as CaCO3	ND	5.0	"
Carbonate as CaCO3	ND	5.0	"
Hydroxide as CaCO3	ND	5.0	"

##### Duplicate (1804718-DUP1)

Source: 18F0257-01

Prepared & Analyzed: 06/08/18

Total Alkalinity	203	5.0	mg/L	200	2	20
Bicarbonate as CaCO3	203	5.0	"	200	2	20
Carbonate as CaCO3	ND	5.0	"	ND		20
Hydroxide as CaCO3	ND	5.0	"	ND		20





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804874 - 6010A/No Digestion

##### Blank (1804874-BLK1)

Prepared: 06/12/18 Analyzed: 06/13/18

Calcium	ND	1.0	mg/L
Hardness as CaCO3	ND	1.0	"
Magnesium	ND	1.0	"
Potassium	ND	1.0	"
Sodium	ND	1.0	"

##### LCS (1804874-BS1)

Prepared: 06/12/18 Analyzed: 06/13/18

Calcium	4.95	1.0	mg/L	5.00	99	85-115
Magnesium	4.81	1.0	"	5.00	96	85-115
Potassium	5.17	1.0	"	5.00	103	85-115
Sodium	4.89	1.0	"	5.00	98	85-115

##### Matrix Spike (1804874-MS1)

Source: 18F0573-06

Prepared: 06/12/18 Analyzed: 06/13/18

Calcium	99.7	1.0	mg/L	5.00	97.0	53	70-130	QM-4X
Magnesium	44.7	1.0	"	5.00	41.1	73	70-130	
Potassium	6.59	1.0	"	5.00	1.70	98	70-130	
Sodium	56.1	1.0	"	5.00	52.5	70	70-130	

##### Matrix Spike (1804874-MS2)

Source: 18F0574-05

Prepared: 06/12/18 Analyzed: 06/13/18

Calcium	24.1	1.0	mg/L	54.9	70-130	QM-7
Magnesium	25.7	1.0	"	26.6	70-130	QM-7
Potassium	15.8	1.0	"	ND	70-130	QM-7
Sodium	101	1.0	"	34.1	70-130	QM-7





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### EDB and DBCP by EPA Method 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1804667 - EPA 504.1										
Blank (1804667-BLK1)				Prepared & Analyzed: 06/07/18						
Ethylene dibromide	ND	0.020	µg/L							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
LCS (1804667-BS1)				Prepared & Analyzed: 06/07/18						
Ethylene dibromide	0.263	0.020	µg/L	0.286		92	60-140			
1,2-Dibromo-3-chloropropane	0.272	0.010	"	0.286		95	60-140			
LCS Dup (1804667-BSD1)				Prepared & Analyzed: 06/07/18						
Ethylene dibromide	0.304	0.020	µg/L	0.286		107	60-140	14	30	
1,2-Dibromo-3-chloropropane	0.312	0.010	"	0.286		109	60-140	14	30	
Matrix Spike (1804667-MS1)		Source: 18F0272-01		Prepared & Analyzed: 06/07/18						
Ethylene dibromide	0.305	0.020	µg/L	0.286	ND	107	60-140			
1,2-Dibromo-3-chloropropane	0.291	0.010	"	0.286	ND	102	60-140			
Matrix Spike Dup (1804667-MSD1)		Source: 18F0272-01		Prepared & Analyzed: 06/07/18						
Ethylene dibromide	0.307	0.020	µg/L	0.286	ND	108	60-140	0.7	30	
1,2-Dibromo-3-chloropropane	0.282	0.010	"	0.286	ND	99	60-140	3	30	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1804759 - EPA 200 Series</b>										
<b>Blank (1804759-BLK1)</b>										
					Prepared & Analyzed: 06/11/18					
Uranium	ND	20	µg/L							
<b>LCS (1804759-BS1)</b>										
					Prepared & Analyzed: 06/11/18					
Uranium	106	20	µg/L	100		106	85-115			
<b>Matrix Spike (1804759-MS1)</b>										
					Source: 18F0246-01 Prepared & Analyzed: 06/11/18					
Uranium	120	20	µg/L	100	0.230	119	70-130			
<b>Matrix Spike (1804759-MS2)</b>										
					Source: 18F0291-01 Prepared & Analyzed: 06/11/18					
Uranium	115	20	µg/L	100	0.0100	115	70-130			





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Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

## Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1804802 - EPA 7470A

#### Blank (1804802-BLK1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	ND	0.20	µg/L
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#### LCS (1804802-BS1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.59	0.20	µg/L	5.00	92	85-115
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#### Matrix Spike (1804802-MS1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.62	0.20	µg/L	5.00	ND	92	70-130
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#### Matrix Spike Dup (1804802-MSD1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.71	0.20	µg/L	5.00	ND	94	70-130	2	25
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### Batch 1804858 - EPA 200 Series

#### Blank (1804858-BLK1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	ND	4.0	µg/L
Arsenic	ND	2.0	"
Cadmium	ND	1.0	"
Lead	ND	5.0	"
Nickel	ND	10	"
Selenium	ND	5.0	"
Silver	ND	10	"
Vanadium	ND	3.0	"
Thallium	ND	1.0	"

#### LCS (1804858-BS1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	96.5	4.0	µg/L	100	97	85-115
Arsenic	103	2.0	"	100	103	85-115
Cadmium	109	1.0	"	100	109	85-115
Lead	104	5.0	"	100	104	85-115
Nickel	106	10	"	100	106	85-115
Selenium	109	5.0	"	100	109	85-115
Silver	106	10	"	100	106	85-115
Vanadium	105	3.0	"	100	105	85-115
Thallium	105	1.0	"	100	105	85-115





## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804858 - EPA 200 Series

##### LCS Dup (1804858-BSD1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	95.5	4.0	µg/L	100		96	85-115	1	20	
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##### Matrix Spike (1804858-MS1)

Source: 18F0573-06

Prepared & Analyzed: 06/13/18

Arsenic	153	2.0	µg/L	100	1.23	152	70-130			QM-7
Cadmium	103	1.0	"	100	0.360	103	70-130			
Lead	98.3	5.0	"	100	0.280	98	70-130			
Nickel	92.2	10	"	100	4.62	88	70-130			
Selenium	179	5.0	"	100	5.24	174	70-130			QM-7
Silver	86.9	10	"	100	0.300	87	70-130			
Vanadium	98.4	3.0	"	100	3.13	95	70-130			
Thallium	102	1.0	"	100	1.31	101	70-130			

#### Batch 1804874 - 6010A/No Digestion

##### Blank (1804874-BLK1)

Prepared: 06/12/18 Analyzed: 06/13/18

Aluminum	ND	50	µg/L
Barium	ND	100	"
Boron	ND	100	"
Beryllium	ND	1.0	"
Chromium	ND	10	"
Copper	ND	50	"
Iron	ND	100	"
Manganese	ND	20	"
Silver	ND	10	"
Zinc	ND	50	"

##### LCS (1804874-BS1)

Prepared: 06/12/18 Analyzed: 06/13/18

Aluminum	5150	50	µg/L	5000	103	85-115
Barium	993	100	"	1000	99	85-115
Boron	951	100	"	1000	95	85-115
Beryllium	1030	1.0	"	1000	103	85-115
Chromium	1000	10	"	1000	100	85-115
Copper	1020	50	"	1000	102	85-115





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804874 - 6010A/No Digestion

##### LCS (1804874-BS1)

Prepared: 06/12/18 Analyzed: 06/13/18

Iron	995	100	µg/L	1000		100	85-115			
Manganese	995	20	"	1000		100	85-115			
Silver	917	10	"	1000		92	85-115			
Zinc	1050	50	"	1000		105	85-115			

##### Matrix Spike (1804874-MS1)

Source: 18F0573-06

Prepared: 06/12/18 Analyzed: 06/13/18

Aluminum	4910	50	µg/L	5000	ND	98	70-130			
Barium	1070	100	"	1000	115	95	70-130			
Boron	1180	100	"	1000	248	93	70-130			
Beryllium	1000	1.0	"	1000	0.684	100	70-130			
Chromium	941	10	"	1000	ND	94	70-130			
Copper	906	50	"	1000	ND	91	70-130			
Iron	957	100	"	1000	11.6	95	70-130			
Manganese	917	20	"	1000	4.64	91	70-130			
Silver	826	10	"	1000	ND	83	70-130			
Zinc	940	50	"	1000	ND	94	70-130			

##### Matrix Spike (1804874-MS2)

Source: 18F0574-05

Prepared: 06/12/18 Analyzed: 06/13/18

Aluminum	39.3	50	µg/L		ND		70-130			QM-7
Barium	122	100	"		106		70-130			QM-7
Boron	648	100	"		257		70-130			QM-7
Beryllium	ND	1.0	"		ND		70-130			QM-7
Chromium	ND	10	"		ND		70-130			QM-7
Copper	10.3	50	"		ND		70-130			QM-7
Iron	144	100	"		7.41		70-130			QM-7
Manganese	16.0	20	"		636		70-130			QM-7
Silver	ND	10	"		ND		70-130			QM-7
Zinc	17.4	50	"		ND		70-130			QM-7





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804705 - EPA 200 Series

##### Blank (1804705-BLK1)

Prepared & Analyzed: 06/08/18

Aluminum	ND	50	µg/L
Barium	ND	100	"
Boron	ND	100	"
Beryllium	ND	1.0	"
Chromium	ND	10	"
Copper	ND	50	"
Iron	ND	100	"
Manganese	ND	20	"
Zinc	ND	50	"

##### LCS (1804705-BS1)

Prepared & Analyzed: 06/08/18

Aluminum	4870	50	µg/L	5000	97	85-115
Barium	1060	100	"	1000	106	85-115
Boron	1020	100	"	1000	102	85-115
Beryllium	1160	1.0	"	1000	116	85-115
Chromium	1150	10	"	1000	115	85-115
Copper	1150	50	"	1000	115	85-115
Iron	1100	100	"	1000	110	85-115
Manganese	1070	20	"	1000	107	85-115
Zinc	1100	50	"	1000	110	85-115

QM-1

##### Matrix Spike (1804705-MS1)

Source: 18F0273-01

Prepared & Analyzed: 06/08/18

Aluminum	5800	50	µg/L	5000	828	99	70-130
Barium	1140	100	"	1000	80.3	106	70-130
Boron	1690	100	"	1000	661	103	70-130
Beryllium	1150	1.0	"	1000	ND	115	70-130
Chromium	1120	10	"	1000	ND	112	70-130
Copper	1090	50	"	1000	ND	109	70-130
Iron	2260	100	"	1000	976	129	70-130
Manganese	1040	20	"	1000	10.4	103	70-130
Zinc	1090	50	"	1000	ND	109	70-130





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804705 - EPA 200 Series

Matrix Spike (1804705-MS2)		Source: 18F0273-01		Prepared & Analyzed: 06/08/18						
Aluminum	4890	50	µg/L	5000	828	81	70-130			
Barium	1150	100	"	1000	80.3	107	70-130			
Boron	1600	100	"	1000	661	94	70-130			
Beryllium	1120	1.0	"	1000	ND	112	70-130			
Chromium	1080	10	"	1000	ND	108	70-130			
Copper	1060	50	"	1000	ND	106	70-130			
Iron	1050	100	"	1000	976	7	70-130			QM-7
Manganese	1020	20	"	1000	10.4	101	70-130			
Zinc	1050	50	"	1000	ND	105	70-130			

#### Batch 1804759 - EPA 200 Series

Blank (1804759-BLK1)		Prepared & Analyzed: 06/11/18								
Antimony	ND	4.0	µg/L							
Arsenic	ND	2.0	"							
Cadmium	ND	1.0	"							
Lead	ND	5.0	"							
Nickel	ND	10	"							
Selenium	ND	5.0	"							
Silver	ND	10	"							
Vanadium	ND	3.0	"							
Thallium	ND	1.0	"							

LCS (1804759-BS1)		Prepared & Analyzed: 06/11/18								
Antimony	102	4.0	µg/L	100		102	85-115			
Arsenic	108	2.0	"	100		108	85-115			
Cadmium	111	1.0	"	100		111	85-115			
Lead	107	5.0	"	100		107	85-115			
Nickel	108	10	"	100		108	85-115			
Selenium	110	5.0	"	100		110	85-115			
Silver	94.3	10	"	100		94	85-115			
Vanadium	106	3.0	"	100		106	85-115			
Thallium	105	1.0	"	100		105	85-115			





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804759 - EPA 200 Series

##### Matrix Spike (1804759-MS1)

Source: 18F0246-01

Prepared & Analyzed: 06/11/18

Antimony	97.8	4.0	µg/L	100	ND	98	70-130
Arsenic	1350	2.0	"	100	1260	93	70-130
Cadmium	96.0	1.0	"	100	ND	96	70-130
Lead	109	5.0	"	100	0.450	109	70-130
Nickel	82.5	10	"	100	2.95	80	70-130
Selenium	127	5.0	"	100	3.60	123	70-130
Silver	88.1	10	"	100	8.19	80	70-130
Vanadium	112	3.0	"	100	14.9	97	70-130
Thallium	106	1.0	"	100	0.140	106	70-130

##### Matrix Spike (1804759-MS2)

Source: 18F0291-01

Prepared & Analyzed: 06/11/18

Antimony	106	4.0	µg/L	100	ND	106	70-130
Arsenic	117	2.0	"	100	3.66	113	70-130
Cadmium	114	1.0	"	100	ND	114	70-130
Lead	112	5.0	"	100	0.300	112	70-130
Nickel	101	10	"	100	0.710	100	70-130
Selenium	117	5.0	"	100	ND	117	70-130
Silver	88.9	10	"	100	ND	89	70-130
Vanadium	104	3.0	"	100	1.28	103	70-130
Thallium	110	1.0	"	100	0.220	110	70-130

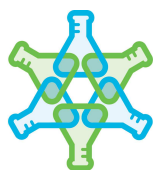
#### Batch 1804802 - EPA 7470A

##### Blank (1804802-BLK1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	ND	1.0	µg/L
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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804802 - EPA 7470A

##### LCS (1804802-BS1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.59	1.0	µg/L	5.00		92	85-115		
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##### Matrix Spike (1804802-MS1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.62	1.0	µg/L	5.00	ND	92	70-130		
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##### Matrix Spike Dup (1804802-MSD1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.71	1.0	µg/L	5.00	ND	94	70-130	2	25
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## CALIFORNIA LABORATORY SERVICES

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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804837 - EPA 5030 Water MS

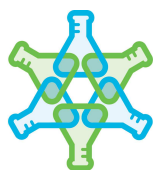
##### Blank (1804837-BLK1)

Prepared & Analyzed: 06/11/18

Benzene	ND	0.50	µg/L
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	0.50	"
cis-1,2-Dichloroethene	ND	0.50	"
trans-1,2-Dichloroethene	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Ethylbenzene	ND	0.50	"
Methyl tert-butyl ether	ND	3.0	"
Methylene chloride	ND	0.50	"
Styrene	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
Tetrachloroethene	ND	0.50	"
Toluene	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,1,1-Trichloroethane	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
Trichloroethene	ND	0.50	"
Trichlorofluoromethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	"
Vinyl chloride	ND	0.50	"
Xylenes (total)	ND	0.50	"
Total Trihalomethanes (THM)	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	9.61	"	10.0	96	66-135
Surrogate: Toluene-d8	9.54	"	10.0	95	70-130





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804837 - EPA 5030 Water MS

##### Blank (1804837-BLK1)

Prepared & Analyzed: 06/11/18

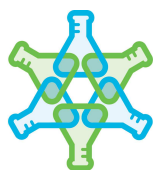
Surrogate: 4-Bromofluorobenzene 11.2 " 10.0 112 70-130

##### LCS (1804837-BS1)

Prepared & Analyzed: 06/11/18

Benzene	19.5	0.50	µg/L	20.0	98	70-130
Carbon tetrachloride	19.9	0.50	"	20.0	100	70-130
Chlorobenzene	19.8	0.50	"	20.0	99	70-130
1,2-Dichlorobenzene	22.4	0.50	"	20.0	112	70-130
1,4-Dichlorobenzene	22.8	0.50	"	20.0	114	70-130
1,1-Dichloroethane	18.5	0.50	"	20.0	92	70-130
1,2-Dichloroethane	16.3	0.50	"	20.0	82	70-130
1,1-Dichloroethene	17.7	0.50	"	20.0	89	70-130
cis-1,2-Dichloroethene	20.3	0.50	"	20.0	101	70-130
trans-1,2-Dichloroethene	18.7	0.50	"	20.0	94	70-130
1,2-Dichloropropane	19.3	0.50	"	20.0	96	70-130
cis-1,3-Dichloropropene	21.0	0.50	"	20.0	105	70-130
trans-1,3-Dichloropropene	19.9	0.50	"	20.0	99	70-130
Ethylbenzene	20.1	0.50	"	20.0	101	70-130
Methyl tert-butyl ether	16.8	3.0	"	20.0	84	0-200
Methylene chloride	17.4	0.50	"	20.0	87	70-130
Styrene	21.2	0.50	"	20.0	106	70-130
1,1,2,2-Tetrachloroethane	22.4	0.50	"	20.0	112	70-130
Tetrachloroethene	19.8	0.50	"	20.0	99	70-130
Toluene	20.1	0.50	"	20.0	101	70-130
1,2,4-Trichlorobenzene	22.4	0.50	"	20.0	112	70-130
1,1,1-Trichloroethane	19.7	0.50	"	20.0	98	70-130
1,1,2-Trichloroethane	20.0	0.50	"	20.0	100	70-130
Trichloroethene	19.4	0.50	"	20.0	97	70-130
Trichlorofluoromethane	16.4	5.0	"	20.0	82	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	23.1	10	"	20.0	115	0-200
Vinyl chloride	16.7	0.50	"	20.0	84	60-140
Surrogate: 1,2-Dichloroethane-d4	8.20		"	10.0	82	66-135





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

## Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 1804837 - EPA 5030 Water MS

#### LCS (1804837-BS1)

Prepared & Analyzed: 06/11/18

Surrogate: Toluene-d8	10.1		µg/L	10.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	12.2		"	10.0		122	70-130			

#### LCS Dup (1804837-BS1)

Prepared & Analyzed: 06/11/18

Benzene	19.4	0.50	µg/L	20.0		97	70-130	0.7	30	
Carbon tetrachloride	21.4	0.50	"	20.0		107	70-130	7	30	
Chlorobenzene	19.7	0.50	"	20.0		98	70-130	0.6	30	
1,2-Dichlorobenzene	20.6	0.50	"	20.0		103	70-130	8	30	
1,4-Dichlorobenzene	21.1	0.50	"	20.0		105	70-130	8	30	
1,1-Dichloroethane	18.8	0.50	"	20.0		94	70-130	2	30	
1,2-Dichloroethane	17.2	0.50	"	20.0		86	70-130	5	30	
1,1-Dichloroethene	18.1	0.50	"	20.0		90	70-130	2	30	
cis-1,2-Dichloroethene	20.8	0.50	"	20.0		104	70-130	3	30	
trans-1,2-Dichloroethene	19.3	0.50	"	20.0		97	70-130	3	30	
1,2-Dichloropropane	19.4	0.50	"	20.0		97	70-130	0.7	30	
cis-1,3-Dichloropropene	21.2	0.50	"	20.0		106	70-130	1	30	
trans-1,3-Dichloropropene	19.6	0.50	"	20.0		98	70-130	1	30	
Ethylbenzene	19.6	0.50	"	20.0		98	70-130	3	30	
Methyl tert-butyl ether	18.0	3.0	"	20.0		90	0-200	7	200	
Methylene chloride	17.9	0.50	"	20.0		90	70-130	3	30	
Styrene	21.0	0.50	"	20.0		105	70-130	1	30	
1,1,2,2-Tetrachloroethane	22.9	0.50	"	20.0		114	70-130	2	30	
Tetrachloroethene	19.4	0.50	"	20.0		97	70-130	2	30	
Toluene	19.8	0.50	"	20.0		99	70-130	2	30	
1,2,4-Trichlorobenzene	23.6	0.50	"	20.0		118	70-130	5	30	
1,1,1-Trichloroethane	20.7	0.50	"	20.0		103	70-130	5	30	
1,1,2-Trichloroethane	20.0	0.50	"	20.0		100	70-130	0.3	30	
Trichloroethene	19.2	0.50	"	20.0		96	70-130	1	30	
Trichlorofluoromethane	19.1	5.0	"	20.0		96	70-130	15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	23.3	10	"	20.0		116	0-200	0.9	200	
Vinyl chloride	19.2	0.50	"	20.0		96	60-140	14	30	





## CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

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07/20/18 16:43

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0272  
COC #: 29379

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1804837 - EPA 5030 Water MS

##### LCS Dup (1804837-BSD1)

Prepared & Analyzed: 06/11/18

Surrogate: 1,2-Dichloroethane-d4	8.58		µg/L	10.0		86	66-135			
Surrogate: Toluene-d8	9.87		"	10.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	10.8		"	10.0		108	70-130			





## CALIFORNIA LABORATORY SERVICES

*Committed. Responsive. Flexible.*

Page 29 of 29

07/20/18 16:43

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0272**  
COC #: 29379

### Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-1	The spike recovery was outside acceptance limits for the LCS or LCSD. The batch was accepted based on acceptable MS/MSD recoveries & RPD's.
HT-F	This is a field test method and it is performed in the lab outside holding time.
BT-2	Absent
BT-1	Present
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference





# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577  
Phone/Fax: (510) 895-3675 / (510) 895-3680  
<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order ID: 091812011  
Customer ID: CALI52  
Customer PO: 18F0272  
Project ID:

**Attn:** Mark Smith  
California Laboratory Services  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Phone: (916) 638-7301  
Fax: (916) 638-4510  
Collected: 06/06/2018  
Received: 06/07/2018  
Analyzed: 06/20/2018

**Proj:** 18F0272 - KB-01-264

## Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
					MFL (million fibers per liter)				
KB-01-264 091812011-0001	6/7/2018 04:38 PM	10	1312	0.2440	None Detected	ND	0.54	<0.54	0.00 - 2.00

Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.

Analyst(s)

Rui Cindy Geng (1)

Matthew Batongbacal  
or Other Approved Signatory

Any questions please contact Matthew Batongbacal.

Initial report from: 06/20/2018 14:15:00

Sample collection and containers provided by the client, acceptable bottle blank level is defined as  $\leq 0.01$  MFL > 10µm. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. This report relates only to those items tested. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA CA ELAP 1620, HI reciprocity, ID CA 01477, WA C884



## SUBCONTRACT ORDER

18F0272

#091812011

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith

RECEIVING LABORATORY:

EMSL Analytical  
464 McCormick Street  
San Leandro, CA 94577  
Phone : (510) 895-3675  
Fax: (510) 895-3680

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Water SUB	10	06/20/18 12:00	06/08/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

Containers Supplied:

1L Amber- Unpres. (B)

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 1 of 6



July 6, 2018

**CLS Labs - Data Room**  
 3249 Fitzgerald Rd.  
 Rancho Cordova, CA 95742

Lab ID : SP 1807545  
 Customer : 2-19423

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into 3 sections:

Case Narrative	(2 pages) : An overview of the work performed at FGL.
Sample Results	(1 page) : Results for each sample submitted.
Quality Control	(1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
KB-01-264	06/06/2018	06/08/2018	SP 1807545-001	W

**Sampling and Receipt Information:** All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived at 5 °C. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Radio QC

900.0	06/15/2018:208552 All analysis quality controls are within established criteria
	06/14/2018:206802 All preparation quality controls are within established criteria
903.0	06/18/2018:208673 All analysis quality controls are within established criteria
	06/09/2018:206724 All preparation quality controls are within established criteria
908.0	07/06/2018:209675 All analysis quality controls are within established criteria
	06/27/2018:207537 All preparation quality controls are within established criteria
Ra - 05	07/02/2018:209644 All analysis quality controls are within established criteria
	06/23/2018:207001 All preparation quality controls are within established criteria



July 6, 2018  
**CLS Labs - Data Room**

Lab ID : SP 1807545  
Customer : 2-19423

**Certification::** I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.  
Title: Laboratory Director  
Date: 2018-07-06

---



July 6, 2018

Lab ID : SP 1807545-001  
Customer ID : 2-19423

**CLS Labs - Data Room**

3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742

Sampled On : June 6, 2018-10:40  
Sampled By : Not Available  
Received On : June 8, 2018-11:10  
Matrix : Water

Description : KB-01-264  
Project : 18F0272

**Sample Result - Radio**

Constituent	Result $\pm$ Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Radio Chemistry</b>								
Gross Alpha	14.6 $\pm$ 2.99	1.62	pCi/L	15/5	900.0	06/14/18-16:48 2P1806802	900.0	06/15/18-13:36 2A1808552
Total Alpha Radium (226)	0.082 $\pm$ 0.085	0.322	pCi/L	3	903.0	06/09/18-14:00 2P1806724	903.0	06/18/18-17:09 2A1808673
Uranium	15.3 $\pm$ 3.22	0.470	pCi/L	20	908.0	06/27/18-20:45 2P1807537	908.0	07/06/18-12:27 2A1809675
Ra 228	0.193 $\pm$ 0.668	0.506	pCi/L	2	Ra - 05	06/23/18-15:30 2P1807001	Ra - 05	07/02/18-18:00 2A1809644

ND=Non-Detected. PQL=Practical Quantitation Limit. \* PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.  
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).  
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following  
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

**Drinking Water Compliance:**

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L  
Uranium is less than or equal to 20 pCi/L  
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



July 6, 2018  
CLS Labs - Data Room

Lab ID : SP 1807545  
Customer : 2-19423

### Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Radio</b>								
Alpha	900.0	06/15/18:208552AAT	CCV CCB	cpm cpm	8128	41.1 % 0.0400	35-47 0.17	
Gross Alpha	900.0	06/14/18:206802AAT  (SP 1807474-001)	Blank LCS MS MSD MSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 93.94 93.94 93.94 93.94	 0.10 80.4 % 95.8 % 94.8 % 1.0%	 3 75-125 60-140 60-140 ≤30	
Alpha	903.0	06/18/18:208673EMV	CCV CCB	cpm cpm	8126	41.1 % 0.0400	37-46 0.16	
Total Alpha Radium (226)	903.0	06/09/18:206724emv	RgBlk LCS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 24.21 24.20 24.20 24.20	 -0.009 56.1 % 56.0 % 53.2 % 5.1%	 2 52-107 43-111 43-111 ≤35.5	
Alpha	908.0	07/06/18:209675AAT	CCV CCB	cpm cpm	8114	37.3 % 0.0400	36-45 0.16	
Uranium	908.0	06/27/18:207537aat	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 26.84 26.84 26.84 26.84	 0.40 54.6 % 93.0 % 98.9 % 6.2%	 1 54-105 75-125 75-125 ≤20	
Beta	Ra - 05	07/02/18:209644emv	CCV CCB	cpm cpm	8481	88.3 % 0.4000	84-94 0.58	
Ra 228	Ra - 05	06/23/18:207001emv	RgBlk LRS BS BSD BSRPD	pCi/L pCi/L pCi/L pCi/L pCi/L	 32.35 32.35 32.35 32.35	 -0.03 73.8 % 95.0 % 93.3 % 1.8%	 3 65-108 75-125 75-125 ≤25	
<b>Definition</b> CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria. CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria. Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples. RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result. LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery. LRS : Laboratory Recovery Standard - Prepared to establish the batch recovery factor used in result calculations. MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery. MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis. BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis. DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								



## SUBCONTRACT ORDER

18F0272

22LB. 1807545

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith  
[REDACTED]

RECEIVING LABORATORY:

FGL Labs - Santa Paula  
853 Corporation Street  
Santa Paula, CA 93060  
Phone : (805) 392-2000  
Fax: (805) 525-4172

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Uranium (SUB)	10	06/20/18 12:00	07/06/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

Containers Supplied:

1L Poly - Unpres (I)	1L Poly - HNO3 (K)	1L Poly - HNO3 (L)	1L Poly - HNO3 (M)	1L Poly - HNO3 (N)			
Radium-228 (SUB)	10	06/20/18 12:00	07/06/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

Containers Supplied:

1L Poly - Unpres (I)	1L Poly - HNO3 (K)	1L Poly - HNO3 (L)	1L Poly - HNO3 (M)	1L Poly - HNO3 (N)			
Radium-226 (SUB)	10	06/20/18 12:00	07/06/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

Containers Supplied:

1L Poly - Unpres (I)	1L Poly - HNO3 (K)	1L Poly - HNO3 (L)	1L Poly - HNO3 (M)	1L Poly - HNO3 (N)
----------------------	--------------------	--------------------	--------------------	--------------------

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 1 of 2



## SUBCONTRACT ORDER

18F0272

1807545

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Gross alpha SUB	10	06/20/18 12:00	07/06/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Poly - Unpres (I)	1L Poly - HNO3 (K)	1L Poly - HNO3 (L)	1L Poly - HNO3 (M)	1L Poly - HNO3 (N)
----------------------	--------------------	--------------------	--------------------	--------------------

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 2 of 2







To All Subcontract Labs:  
(Effective 1/14/13)

Please provide PDF of Final Results  
and Invoices to:

[dataroom@californialab.com](mailto:dataroom@californialab.com)

Please send Hard Copies + Invoices  
to:

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attn: Data Room



## Condition Upon Receipt (Attach to COC)

### Sample Receipt at SP:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers \_\_\_\_\_
3. Were samples received in a chilled condition?  
Temps: 5 / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? ☐ Yes ☐ No ☐ N/A
6. Verify sample date, time, sampler ☐ Yes ☐ No ☐ N/A
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) ☐ Yes ☐ No
8. Were sample custody seals intact? ☐ Yes ☐ No ☐ N/A

### Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? ☐ Yes ☐ No
2. Did bottle labels correspond with the client's ID's? ☐ Yes ☐ No
3. Were all bottles requiring sample preservation properly preserved? ☐ Yes ☐ No ☐ N/A FGL  
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? ☐ Yes ☐ No ☐ N/A
5. Were all analyses within holding times at time of receipt? ☐ Yes ☐ No
6. Have rush or project due dates been checked and accepted? ☐ Yes ☐ No ☐ N/A

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and  
Approved By

**Cynthia T Casarez**



Digitally signed by Cynthia T Casarez  
Title: Sample Receiving  
Date: 06/13/2018-10:47:08

### Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

2. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

(2019423)  
CLS Labs  
**SP 1807545**  
CTC-06/13/2018-10:47:08



750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)



AT-1807

## Laboratory Report

for

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attention: CLS Data Reporting

Date of Issue  
07/09/2018

  
EUROFINS EATON  
ANALYTICAL, LLC

LXG: Linda Geddes  
Project Manager

Report: 743191  
Project: ORGANICS  
Group: 500 Series



Utah ELCP CA00006

\* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

\* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

\* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

\* Test results relate only to the sample(s) tested.



## STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Arizona	AZ0778	Montana	Cert 0035
Arkansas	Certified	Nebraska	Certified
California-Monrovia-ELAP	2813	Nevada	CA000062018
California-Colton- ELAP	2812	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-17-13
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

\* NELAP/TNI Recognized Accreditation Bodies



ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO <sub>3</sub>	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO <sub>3</sub>	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO <sub>2</sub> D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli (MTF/EC+MUG)		x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO <sub>2</sub> C	x	x	
Sulfide	SM 4500-S <sup>-</sup> D		x	
Sulfite	SM 4500-SO <sub>3</sub> B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x



## Acknowledgement of Samples Received

Addr: **CLS Labs**  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Attn: CLS Data Reporting  
Phone:

Client ID: CLSLABS  
Folder #: 743191  
Project: ORGANICS  
Sample Group: 500 Series

Project Manager: Linda Geddes  
Phone: (626) 386-1163  
PO #: 18F0272

The following samples were received from you on **June 08, 2018 at 1057**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date									
<u>201806090601</u>	KB-01-264	06/06/2018 1040									
Variable ID: 18F0272-01											
<table border="1"> <tr> <td>@DIQUAT</td><td>@ML515.4</td><td>@ML525</td></tr> <tr> <td>@ML531.2</td><td>2,3,7,8-TCDD</td><td>Endothall</td></tr> <tr> <td>Glyphosate</td><td></td><td></td></tr> </table>			@DIQUAT	@ML515.4	@ML525	@ML531.2	2,3,7,8-TCDD	Endothall	Glyphosate		
@DIQUAT	@ML515.4	@ML525									
@ML531.2	2,3,7,8-TCDD	Endothall									
Glyphosate											

### Test Description

@DIQUAT -- Diquat and Paraquat

@ML515.4 -- Chlorophenoxy Herbicides

@ML525 -- Semivolatiles by GCMS

@ML531.2 -- Aldicarbs



## SUBCONTRACT ORDER

18F0272

7-43191

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith

RECEIVING LABORATORY:

Eurofins Eaton Analytical, Inc.  
P.O. Box 12425  
Lancaster, PA 17605  
Phone :-  
Fax: -

~~Project: Riverview MHP~~

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
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Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 2 of 6



## SUBCONTRACT ORDER

18F0272

743191

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Dioxin 1613 SUB	10	06/20/18 12:00	06/06/19 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

~~Sample~~

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

TURBIDITY: 2.79 NTU

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

549.2 Diquat SUB	10	06/20/18 12:00	06/13/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water
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Client sample ID: KB-01-264

~~Sample~~

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

548.1 Endothall SUB	10	06/20/18 12:00	06/13/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water
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Client sample ID: KB-01-264

~~Sample~~

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 3 of 6



## SUBCONTRACT ORDER

18F0272

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
547 Glyphosphate SUB	10	06/20/18 12:00	06/20/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

Sampler

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

531.2 Carbamates (SUB)	10	06/20/18 12:00	06/20/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water
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Client sample ID: KB-01-264

Sampler

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

525.2 Semivolatiles (Sub)	10	06/20/18 12:00	06/13/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water
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Client sample ID: KB-01-264

Sampler

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 4 of 6



## SUBCONTRACT ORDER

18F0272

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
515.1 Herbicides (SUB)	10	06/20/18 12:00	06/20/18 10:40	18F0272-01	06/06/18 10:40	06/06/18 14:11	Water

Client sample ID: KB-01-264

~~Sampler:~~

Laboratory sample ID: 18F0272-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (Q) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 5 of 6



## Subcontract Sample Receipt Checklist

CLS Work Order Number: 18F0272

### Chain of Custody (COC) Information

Carrier Name <u>UPS</u>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Chain of custody present?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes	<input checked="" type="checkbox"/>	Non-Compliant	<input type="checkbox"/>

### Sample Receipt Information

Shipping container/cooler in good condition?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Not Present	<input type="checkbox"/>
Samples in proper container/bottle?	Yes	<input checked="" type="checkbox"/>	Non-Compliant	<input type="checkbox"/>		
Sample containers intact?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Temperature upon receipt: <u>3.3</u> C	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Wet Ice present in Cooler?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Blue Ice present in Cooler?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

### Analytical Requirement Information

Are non-Standard of Modified methods requested?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Subcontract Lab CERTIFIED for the various methods requested?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

### Subcontract Lab Information

Work Order Number assigned by Subcontract Lab \_\_\_\_\_

Date received at Subcontract Lab \_\_\_\_\_

If any items are check marked NO or are non-compliant, a phone call back to California Laboratory Services is required immediately. If all items are acceptable, a faxed copy of the signed sub chain of custody (COC) and the completed sample receipt check list is required within 24 hours of sample receipt.



To All Subcontract Labs:  
(Effective 1/14/13)

Please provide PDF of Final Results  
and Invoices to:

[dataroom@californialab.com](mailto:dataroom@californialab.com)

Please send Hard Copies + Invoices  
to:

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attn: Data Room





Eaton Analytical

# INTERNAL CHAIN OF CUSTODY RECORD

## SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know, ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

EEA Folder Number: 743191

IR Gun ID = 618A (Observation = 3.3 °C) (Corr. Factor 0.0 °C) (Final = 3.3 °C)

CONDITION OF ICE: Frozen ☒ Partially Frozen \_\_\_\_\_ Thawed \_\_\_\_\_ N/A \_\_\_\_\_

TYPE OF ICE: Real ☒ Synthetic \_\_\_\_\_ No Ice \_\_\_\_\_

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx ☒ UPS / DHL / Area Fast / Top Line / Other: \_\_\_\_\_

Compliance Acceptance Criteria:

1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection, within 8 hours)

2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)  
If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	2 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)
3 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)	4 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

4) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

5) pH Check. Manufacturer: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

6) Chlorine check. Manufacturer: Sansafe. Lot No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

7) VOA Headspace:

No Samples with Headspace: ☐ Samples with Headspace (see below): ☐  
Headspace Documentation (use additional VOC internal COFC for additional bottles)  
Methods 515.4, HAA6251.552, 505, SPME, @CH, 532CMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: \_\_\_\_\_

Exempt from headspace concerns: Methods 515.4, HAA6251.552, 505, SPME, @CH, 532CMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: \_\_\_\_\_

Samp ID Bottle # \_\_\_\_\_ None/≤6 \_\_\_\_\_ >6mm


Samp ID Bottle # \_\_\_\_\_ None/≤6 \_\_\_\_\_ >6mm


Samp ID Bottle # \_\_\_\_\_ None/≤6 \_\_\_\_\_ >6mm


Samp ID Bottle # \_\_\_\_\_ None/≤6 \_\_\_\_\_ >6mm


Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): \_\_\_\_\_

SIGNATURE

PRINT NAME

COMPANY/TITLE

Eurofins Eaton Analytical

DATE

TIME

RECEIVED BY:



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

**Laboratory Comments**

**Report:** 743191  
**Project:** ORGANICS  
**Group:** 500 Series

CLS Labs  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

---

**Folder Comments**

Analytical Results for Dioxins/Furans by 1613B are submitted by Eurofins Lancaster  
Laboratories AZCERT AZ0780 exp 3-12-2019, CAELAP 2792 exp 1-31-2019

**Flags Legend:**

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## Laboratory Hits

**Report:** 743191  
**Project:** ORGANICS  
**Group:** 500 Series

**CLS Labs**

CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/08/2018 1057

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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**SUMMARY OF POSITIVE DATA ONLY**



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## Laboratory Data

Report: 743191  
Project: ORGANICS  
Group: 500 Series

CLS Labs  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/08/2018 1057

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>KB-01-264 (201806090601)</b>						<b>Sampled on 06/06/2018 1040</b>			
Variable ID: 18F0272-01									
<b>EPA 515.4 - Chlorophenoxy Herbicides</b>									
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Dalapon	ND	ug/L	1	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	99	%		1
06/20/18	06/21/18 03:24	1099613	1100294	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	103	%		1
<b>EPA 525.2 - Semivolatiles by GCMS</b>									
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Aldrin	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1

Rounding on totals after summation.  
(c) - indicates calculated results



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 743191  
Project: ORGANICS  
Group: 500 Series

**CLS Labs**  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/08/2018 1057

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LE)	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Heptachlor	ND	ug/L	0.04	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND (LE)	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Pentachlorophenol	NR (LE,LK)	ug/L	1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	95	%		1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Acenaphthene-d10	74	%		1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Chrysene-d12	84	%		1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Perylene-d12	72	%		1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Phenanthrene-d10	84	%		1
06/16/18	06/30/18 19:26	1098797	1103338	(EPA 525.2)	Triphenylphosphate	118	%		1

**EPA 548.1 - Endothall**

Rounding on totals after summation.  
(c) - indicates calculated results



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1 800 566 LABS (1 800 566 5227)

Report: 743191  
Project: ORGANICS  
Group: 500 Series

**CLS Labs**

CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/08/2018 1057

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/12/18	06/14/18 13:49	1097682	1098332	(EPA 548.1)	Endothall	ND	ug/L	20	4
<b>EPA 547 - Glyphosate</b>									
	06/11/18 18:41		1097414	(EPA 547)	Glyphosate	ND	ug/L	6	1
<b>EPA 531.2 - Aldicarb</b>									
	06/13/18 02:48		1097674	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	06/13/18 02:48		1097674	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	97	%		1
<b>EPA 549.2 - Diquat and Paraquat</b>									
06/12/18	06/13/18 08:23	1097406	1097676	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
06/12/18	06/13/18 08:23	1097406	1097676	(EPA 549.2)	Paraquat	ND	ug/L	2	1
<b>EPA 1613B - 2,3,7,8-TCDD</b>									
06/16/18	06/16/18 15:18			(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1



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## Laboratory QC Summary

**Report:** 743191  
**Project:** ORGANICS  
**Group:** 500 Series

CLS Labs

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**Glyphosate****Analytical Batch: 1097414**

201806090601 KB-01-264

**Analysis Date: 06/11/2018**

Analyzed by: XWO

**Aldicarb****Analytical Batch: 1097674**

201806090601 KB-01-264

**Analysis Date: 06/13/2018**

Analyzed by: XWO

**Diquat and Paraquat****Prep Batch: 1097406 Analytical Batch: 1097676**

201806090601 KB-01-264

**Analysis Date: 06/13/2018**

Analyzed by: XWO

**Endothall****Prep Batch: 1097682 Analytical Batch: 1098332**

201806090601 KB-01-264

**Analysis Date: 06/14/2018**

Analyzed by: QMN6

**Chlorophenoxy Herbicides****Prep Batch: 1099613 Analytical Batch: 1100294**

201806090601 KB-01-264

**Analysis Date: 06/21/2018**

Analyzed by: A4H

**Semivolatiles by GCMS****Prep Batch: 1098797 Analytical Batch: 1103338**

201806090601 KB-01-264

**Analysis Date: 06/30/2018**

Analyzed by: JWC



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Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>Glyphosate by EPA 547</b>									
<b>Analytical Batch: 1097414</b>					<b>Analysis Date: 06/11/2018</b>				
CCCH	Glyphosate		25	23.7	ug/L	95	(80-120)		
CCCM	Glyphosate		10	9.44	ug/L	94	(80-120)		
LCS1	Glyphosate		10	9.28	ug/L	93	(70-130)		
MBLK	Glyphosate			<3	ug/L				
MRL_CHK	Glyphosate		6	6.09	ug/L	102	(50-150)		
MS_201806071008	Glyphosate	ND	10	10.2	ug/L	102	(70-130)		
MS2_201806070744	Glyphosate	ND	10	10.3	ug/L	103	(70-130)		
MSD_201806071008	Glyphosate	ND	10	9.82	ug/L	98	(70-130)	20	3.8
<b>Aldicarbs by EPA 531.2</b>									
<b>Analytical Batch: 1097674</b>					<b>Analysis Date: 06/12/2018</b>				
CCCH	3-Hydroxycarbofuran		25	24.9	ug/L	100	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.0	ug/L	100	(70-130)		
LCS2	3-Hydroxycarbofuran		5	5.07	ug/L	101	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.167	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.466	ug/L	93	(50-150)		
MS1_201806110182	3-Hydroxycarbofuran	ND	5	5.30	ug/L	106	(70-130)		
MSD1_201806110182	3-Hydroxycarbofuran	ND	5	5.15	ug/L	103	(70-130)	20	2.8
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			98.1	%	98	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			91.8	%	92	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			98.0	%	98	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			102	%	103	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			94.8	%	95	(70-130)		
MS1_201806110182	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			97.8	%	98	(70-130)		
MSD1_201806110182	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			93.8	%	94	(70-130)		
CCCH	Aldicarb (Temik)		25	22.6	ug/L	91	(70-130)		
CCCM	Aldicarb (Temik)		10	9.33	ug/L	93	(70-130)		
LCS2	Aldicarb (Temik)		5	4.75	ug/L	95	(70-130)		
MBLK	Aldicarb (Temik)			<0.167	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.415	ug/L	83	(50-150)		
MS1_201806110182	Aldicarb (Temik)	ND	5	5.08	ug/L	102	(70-130)		
MSD1_201806110182	Aldicarb (Temik)	ND	5	5.15	ug/L	103	(70-130)	20	1.4
CCCH	Aldicarb sulfone		25	24.6	ug/L	98	(70-130)		
CCCM	Aldicarb sulfone		10	10.0	ug/L	100	(70-130)		
LCS2	Aldicarb sulfone		5	5.39	ug/L	108	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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1 800 566 LABS (1 800 566 5227)

**Report:** 743191  
**Project:** ORGANICS  
**Group:** 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Aldicarb sulfone			<0.167	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.530	ug/L	106	(50-150)		
MS1_201806110182	Aldicarb sulfone	ND	5	5.26	ug/L	105	(70-130)		
MSD1_201806110182	Aldicarb sulfone	ND	5	5.29	ug/L	106	(70-130)	20	0.53
CCCH	Aldicarb sulfoxide		25	23.7	ug/L	95	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.78	ug/L	98	(70-130)		
LCS2	Aldicarb sulfoxide		5	4.29	ug/L	86	(70-130)		
MBLK	Aldicarb sulfoxide			<0.167	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.490	ug/L	98	(50-150)		
MS1_201806110182	Aldicarb sulfoxide	ND	5	5.24	ug/L	105	(70-130)		
MSD1_201806110182	Aldicarb sulfoxide	ND	5	5.23	ug/L	105	(70-130)	20	0.17
CCCH	Baygon		25	24.5	ug/L	98	(70-130)		
CCCM	Baygon		10	9.80	ug/L	98	(70-130)		
LCS2	Baygon		5	5.20	ug/L	104	(70-130)		
MBLK	Baygon			<0.167	ug/L				
MRL_CHK	Baygon		0.5	0.446	ug/L	89	(50-150)		
MS1_201806110182	Baygon	ND	5	5.19	ug/L	104	(70-130)		
MSD1_201806110182	Baygon	ND	5	5.08	ug/L	102	(70-130)	20	2.1
CCCH	Carbaryl		25	24.9	ug/L	100	(70-130)		
CCCM	Carbaryl		10	9.87	ug/L	99	(70-130)		
LCS2	Carbaryl		5	5.10	ug/L	102	(70-130)		
MBLK	Carbaryl			<0.167	ug/L				
MRL_CHK	Carbaryl		0.5	0.492	ug/L	98	(50-150)		
MS1_201806110182	Carbaryl	ND	5	5.19	ug/L	104	(70-130)		
MSD1_201806110182	Carbaryl	ND	5	5.20	ug/L	104	(70-130)	20	0.15
CCCH	Carbofuran (Furadan)		25	24.4	ug/L	98	(70-130)		
CCCM	Carbofuran (Furadan)		10	9.90	ug/L	99	(70-130)		
LCS2	Carbofuran (Furadan)		5	5.21	ug/L	104	(70-130)		
MBLK	Carbofuran (Furadan)			<0.167	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.516	ug/L	103	(50-150)		
MS1_201806110182	Carbofuran (Furadan)	ND	5	5.19	ug/L	104	(70-130)		
MSD1_201806110182	Carbofuran (Furadan)	ND	5	4.98	ug/L	100	(70-130)	20	4.1
CCCH	Methiocarb		25	24.2	ug/L	97	(70-130)		
CCCM	Methiocarb		10	9.54	ug/L	95	(70-130)		
LCS2	Methiocarb		5	4.89	ug/L	98	(70-130)		
MBLK	Methiocarb			<0.167	ug/L				
MRL_CHK	Methiocarb		0.5	0.463	ug/L	93	(50-150)		
MS1_201806110182	Methiocarb	ND	5	4.90	ug/L	98	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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1 800 566 LABS (1 800 566 5227)

Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201806110182	Methiocarb	ND	5	4.93	ug/L	99	(70-130)	20	0.49
CCCH	Methomyl		25	23.1	ug/L	92	(70-130)		
CCCM	Methomyl		10	9.41	ug/L	94	(70-130)		
LCS2	Methomyl		5	4.56	ug/L	91	(70-130)		
MBLK	Methomyl			<0.167	ug/L				
MRL_CHK	Methomyl		0.5	0.536	ug/L	107	(50-150)		
MS1_201806110182	Methomyl	ND	5	5.24	ug/L	105	(70-130)		
MSD1_201806110182	Methomyl	ND	5	5.19	ug/L	104	(70-130)	20	0.99
CCCH	Oxamyl (Vydate)		25	24.3	ug/L	97	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.76	ug/L	98	(70-130)		
LCS2	Oxamyl (Vydate)		5	4.72	ug/L	94	(70-130)		
MBLK	Oxamyl (Vydate)			<0.167	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.550	ug/L	110	(50-150)		
MS1_201806110182	Oxamyl (Vydate)	ND	5	5.25	ug/L	105	(70-130)		
MSD1_201806110182	Oxamyl (Vydate)	ND	5	5.28	ug/L	106	(70-130)	20	0.59

## Diquat and Paraquat by EPA 549.2

Analytical Batch: 1097676

Analysis Date: 06/13/2018

CCCH	Diquat		10	10.3	ug/L	103	(80-120)		
CCCL	Diquat		0.4	0.388	ug/L	97	(50-150)		
CCCM	Diquat		4	4.10	ug/L	102	(80-120)		
LCS1	Diquat		5	4.24	ug/L	85	(70-130)		
MBLK	Diquat			<0.4	ug/L				
MRLLW	Diquat		0.4	0.445	ug/L	111	(50-150)		
MS_201806110036	Diquat	ND	5	3.60	ug/L	72	(70-130)		
MS2_201806090374	Diquat	ND	5	3.78	ug/L	76	(70-130)		
MSD_201806110036	Diquat	ND	5	3.75	ug/L	75	(70-130)	20	4.0
CCCH	Paraquat		10	11.3	ug/L	113	(80-120)		
CCCL	Paraquat		2	2.52	ug/L	126	(50-150)		
CCCM	Paraquat		4	4.74	ug/L	119	(80-120)		
LCS1	Paraquat		5	4.88	ug/L	98	(70-130)		
MBLK	Paraquat			<2	ug/L				
MRL_CHK	Paraquat		2	2.06	ug/L	103	(50-150)		
MS_201806110036	Paraquat	ND	5	4.26	ug/L	85	(70-130)		
MS2_201806090374	Paraquat	ND	5	4.38	ug/L	88	(70-130)		
MSD_201806110036	Paraquat	ND	5	4.31	ug/L	86	(70-130)	20	1.3

## Endothall by EPA 548.1

Prep Batch: 1097682 Analytical Batch: 1098332

Analysis Date: 06/14/2018

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Endothall		25	22.2	ug/L	89	(66-117)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5	5.92	ug/L	118	(50-150)		
MS_201805290125	Endothall	ND	25	23.6	ug/L	94	(66-117)		
MS_2ND_201805290460	Endothall	ND	25	25.6	ug/L	103	(66-117)		
MSD_201805290125	Endothall	ND	25	23.9	ug/L	96	(66-117)	30	1.5

## Chlorophenoxy Herbicides by EPA 515.4

Prep Batch: 1099613 Analytical Batch: 1100294

Analysis Date: 06/20/2018

CCC3	2,4,5-T		4	4.13	ug/L	103	(70-130)		
CCCH	2,4,5-T		4	4.15	ug/L	104	(70-130)		
CCCM	2,4,5-T		1	1.03	ug/L	103	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.186	ug/L	93	(50-150)		
MS1_201806070991	2,4,5-T	ND	3	3.15	ug/L	105	(70-130)		
MSD1_201806070991	2,4,5-T	ND	3	3.01	ug/L	100	(70-130)	30	4.7
CCC3	2,4,5-TP (Silvex)		4	4.22	ug/L	105	(70-130)		
CCCH	2,4,5-TP (Silvex)		4	4.19	ug/L	105	(70-130)		
CCCM	2,4,5-TP (Silvex)		1	0.987	ug/L	99	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.205	ug/L	102	(50-150)		
MS1_201806070991	2,4,5-TP (Silvex)	ND	3	3.14	ug/L	105	(70-130)		
MSD1_201806070991	2,4,5-TP (Silvex)	ND	3	3.08	ug/L	103	(70-130)	30	1.8
CCC3	2,4-D		2	2.16	ug/L	108	(70-130)		
CCCH	2,4-D		2	2.16	ug/L	108	(70-130)		
CCCM	2,4-D		0.5	0.432	ug/L	86	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.0858	ug/L	86	(50-150)		
MS1_201806070991	2,4-D	ND	1.5	1.56	ug/L	104	(70-130)		
MSD1_201806070991	2,4-D	ND	1.5	1.53	ug/L	102	(70-130)	30	2.3
CCC3	2,4-DB		40	41.2	ug/L	103	(70-130)		
CCCH	2,4-DB		40	40.9	ug/L	102	(70-130)		
CCCM	2,4-DB		10	9.73	ug/L	97	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2	1.99	ug/L	99	(50-150)		
MS1_201806070991	2,4-DB	ND	30	31.4	ug/L	105	(70-130)		
MSD1_201806070991	2,4-DB	ND	30	30.8	ug/L	103	(70-130)	30	1.8
CCC3	2,4-Dichlorophenyl acetic acid (S)			92.7	%	93	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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1 800 566 LABS (1 800 566 5227)

Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	2,4-Dichlorophenyl acetic acid (S)			96.7	%	97	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			92.1	%	92	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			96.8	%	97	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			99.2	%	99	(70-130)		
MS1_201806070991	2,4-Dichlorophenyl acetic acid (S)			100	%	100	(70-130)		
MSD1_201806070991	2,4-Dichlorophenyl acetic acid (S)			89.8	%	90	(70-130)		
CCC3	3,5-Dichlorobenzoic acid		10	9.06	ug/L	91	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	9.24	ug/L	92	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.12	ug/L	85	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.468	ug/L	94	(50-150)		
MS1_201806070991	3,5-Dichlorobenzoic acid	ND	7.5	8.43	ug/L	112	(70-130)		
MSD1_201806070991	3,5-Dichlorobenzoic acid	ND	7.5	7.31	ug/L	98	(70-130)	30	14
CCC3	4,4-Dibromooctafluorobiphenyl (I)			106	%	106	(70-130)		
CCCH	4,4-Dibromooctafluorobiphenyl (I)			103	%	103	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			102	%	102	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			100	%	100	(50-150)		
MS1_201806070991	4,4-Dibromooctafluorobiphenyl (I)			91.8	%	92	(50-150)		
MSD1_201806070991	4,4-Dibromooctafluorobiphenyl (I)			95.7	%	96	(50-150)		
CCC3	Acifluorfen		4	4.40	ug/L	110	(70-130)		
CCCH	Acifluorfen		4	4.30	ug/L	108	(70-130)		
CCCM	Acifluorfen		1	1.05	ug/L	105	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.206	ug/L	103	(50-150)		
MS1_201806070991	Acifluorfen	ND	3	3.28	ug/L	109	(70-130)		
MSD1_201806070991	Acifluorfen	ND	3	3.24	ug/L	108	(70-130)	30	1.3
CCC3	Bentazon		10	9.88	ug/L	99	(70-130)		
CCCH	Bentazon		10	9.78	ug/L	98	(70-130)		
CCCM	Bentazon		2.5	2.28	ug/L	91	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.431	ug/L	86	(50-150)		
MS1_201806070991	Bentazon	ND	7.5	7.93	ug/L	106	(70-130)		
MSD1_201806070991	Bentazon	ND	7.5	7.83	ug/L	104	(70-130)	30	1.3
CCC3	Dalapon		20	18.7	ug/L	94	(70-130)		
CCCH	Dalapon		20	18.3	ug/L	91	(70-130)		
CCCM	Dalapon		5	4.65	ug/L	93	(70-130)		
MBLK	Dalapon			<0.333	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

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Report: 743191  
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Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dalapon		1	1.14	ug/L	114	(50-150)		
MS1_201806070991	Dalapon	ND	15	17.4	ug/L	116	(70-130)		
MSD1_201806070991	Dalapon	ND	15	15.0	ug/L	100	(70-130)	30	14
CCC3	Dicamba		2	1.88	ug/L	94	(70-130)		
CCCH	Dicamba		2	1.90	ug/L	95	(70-130)		
CCCM	Dicamba		0.5	0.475	ug/L	95	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.118	ug/L	117	(50-150)		
MS1_201806070991	Dicamba	ND	1.5	1.44	ug/L	96	(70-130)		
MSD1_201806070991	Dicamba	ND	1.5	1.42	ug/L	95	(70-130)	30	0.42
CCC3	Dichlorprop		10	10.1	ug/L	101	(70-130)		
CCCH	Dichlorprop		10	10.0	ug/L	100	(70-130)		
CCCM	Dichlorprop		2.5	2.24	ug/L	90	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.485	ug/L	97	(50-150)		
MS1_201806070991	Dichlorprop	ND	7.5	7.88	ug/L	105	(70-130)		
MSD1_201806070991	Dichlorprop	ND	7.5	7.67	ug/L	102	(70-130)	30	2.7
CCC3	Dinoseb		4	4.23	ug/L	106	(70-130)		
CCCH	Dinoseb		4	4.20	ug/L	105	(70-130)		
CCCM	Dinoseb		1	0.982	ug/L	98	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.198	ug/L	99	(50-150)		
MS1_201806070991	Dinoseb	ND	3	3.16	ug/L	105	(70-130)		
MSD1_201806070991	Dinoseb	ND	3	3.10	ug/L	103	(70-130)	30	1.8
CCC3	Pentachlorophenol		0.8	0.835	ug/L	104	(70-130)		
CCCH	Pentachlorophenol		0.8	0.800	ug/L	100	(70-130)		
CCCM	Pentachlorophenol		0.2	0.177	ug/L	89	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0369	ug/L	92	(50-150)		
MS1_201806070991	Pentachlorophenol	ND	0.6	0.682	ug/L	113	(70-130)		
MSD1_201806070991	Pentachlorophenol	ND	0.6	0.682	ug/L	113	(70-130)	30	0.044
CCC3	Picloram		2	1.86	ug/L	93	(70-130)		
CCCH	Picloram		2	1.82	ug/L	91	(70-130)		
CCCM	Picloram		0.5	0.415	ug/L	83	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.0921	ug/L	92	(50-150)		
MS1_201806070991	Picloram	ND	1.5	1.82	ug/L	121	(70-130)		
MSD1_201806070991	Picloram	ND	1.5	1.64	ug/L	109	(70-130)	30	10

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Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCC3	Tot DCPA Mono&Diacid Degradate		2	2.14	ug/L	107	(70-130)		
CCCH	Tot DCPA Mono&Diacid Degradate		2	2.16	ug/L	108	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.533	ug/L	107	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.128	ug/L	127	(50-150)		
MS1_201806070991	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.58	ug/L	105	(70-130)		
MSD1_201806070991	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.58	ug/L	105	(70-130)	30	0.13

## Semivolatiles by GCMS by EPA 525.2

Prep Batch: 1098797 Analytical Batch: 1102054

Analysis Date: 06/27/2018

LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	96.5	%	96	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)		5	91.7	%	92	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			91.2	%	91	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	92.1	%	92	(70-130)		
MS_201806120071	1,3-Dimethyl-2-nitrobenzene (S)		5	93.4	%	93	(70-130)		
MSD_201806120071	1,3-Dimethyl-2-nitrobenzene (S)		5	92.8	%	93	(70-130)		
LCS1	2,4-Dinitrotoluene		2	2.32	ug/L	116	(70-130)		
LCS2	2,4-Dinitrotoluene		2	2.32	ug/L	116	(70-130)	20	0.0
MBLK	2,4-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.125	ug/L	125	(50-150)		
MS_201806120071	2,4-Dinitrotoluene	ND	2	2.30	ug/L	115	(70-130)		
MSD_201806120071	2,4-Dinitrotoluene	ND	2	2.34	ug/L	117	(70-130)	20	1.9
LCS1	Acenaphthene-d10 (I)		5	65.6	%	66	(50-150)		
LCS2	Acenaphthene-d10 (I)		5	60.1	%	60	(50-150)		
MBLK	Acenaphthene-d10 (I)			67.3	%	67	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	81.4	%	81	(50-150)		
MS_201806120071	Acenaphthene-d10 (I)		5	57.6	%	58	(50-150)		
MSD_201806120071	Acenaphthene-d10 (I)		5	58.6	%	59	(50-150)		
LCS1	Acenaphthylene		2	1.60	ug/L	80	(70-130)		
LCS2	Acenaphthylene		2	1.74	ug/L	87	(70-130)	20	8.4
MBLK	Acenaphthylene			<0.1	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0790	ug/L	79	(50-150)		
MS_201806120071	Acenaphthylene	ND	2	1.80	ug/L	90	(70-130)		
MSD_201806120071	Acenaphthylene	ND	2	1.71	ug/L	86	(70-130)	20	5.2
LCS1	Alachlor		2	2.16	ug/L	108	(70-130)		
LCS2	Alachlor		2	2.09	ug/L	104	(70-130)	20	3.3
MBLK	Alachlor			<0.05	ug/L				
MRL_CHK	Alachlor		0.05	0.0430	ug/L	86	(50-150)		

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**Report:** 743191  
**Project:** ORGANICS  
**Group:** 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201806120071	Alachlor	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806120071	Alachlor	ND	2	2.22	ug/L	111	(70-130)	20	3.4
LCS1	Aldrin		2	1.48	ug/L	74	(70-130)		
LCS2	Aldrin		2	1.61	ug/L	80	(70-130)	20	8.4
MBLK	Aldrin			<0.05	ug/L				
MRL_CHK	Aldrin		0.05	0.0450	ug/L	90	(50-150)		
MS_201806120071	Aldrin		2	1.69	ug/L	85	(70-130)		
MSD_201806120071	Aldrin		2	1.62	ug/L	81	(70-130)	20	4.2
LCS1	alpha-Chlordane		2	2.05	ug/L	102	(70-130)		
LCS2	alpha-Chlordane		2	1.92	ug/L	96	(70-130)	20	6.0
MBLK	alpha-Chlordane			<0.05	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0490	ug/L	98	(50-150)		
MS_201806120071	alpha-Chlordane	ND	2	2.01	ug/L	101	(70-130)		
MSD_201806120071	alpha-Chlordane	ND	2	2.10	ug/L	105	(70-130)	20	4.3
LCS1	Anthracene		2	1.93	ug/L	97	(70-130)		
LCS2	Anthracene		2	1.97	ug/L	98	(70-130)	20	2.0
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0190	ug/L	95	(50-150)		
MS_201806120071	Anthracene	ND	2	1.99	ug/L	100	(70-130)		
MSD_201806120071	Anthracene	ND	2	2.02	ug/L	101	(70-130)	20	1.9
LCS1	Atrazine		2	2.31	ug/L	116	(70-130)		
LCS2	Atrazine		2	2.31	ug/L	115	(70-130)	20	0.0
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0560	ug/L	112	(50-150)		
MS_201806120071	Atrazine	ND	2	2.34	ug/L	117	(70-130)		
MSD_201806120071	Atrazine	ND	2	2.45	ug/L	123	(70-130)	20	4.8
LCS1	Benz(a)Anthracene		2	2.31	ug/L	116	(70-130)		
LCS2	Benz(a)Anthracene		2	2.13	ug/L	106	(70-130)	20	8.1
MBLK	Benz(a)Anthracene			<0.05	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0480	ug/L	96	(50-150)		
MS_201806120071	Benz(a)Anthracene	ND	2	2.20	ug/L	110	(70-130)		
MSD_201806120071	Benz(a)Anthracene	ND	2	2.24	ug/L	112	(70-130)	20	1.9
LCS1	Benzo(a)pyrene		2	2.11	ug/L	105	(70-130)		
LCS2	Benzo(a)pyrene		2	2.24	ug/L	112	(70-130)	20	6.0
MBLK	Benzo(a)pyrene			<0.02	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0150	ug/L	75	(50-150)		
MS_201806120071	Benzo(a)pyrene	ND	2	2.24	ug/L	112	(70-130)		
MSD_201806120071	Benzo(a)pyrene	ND	2	2.27	ug/L	113	(70-130)	20	1.3

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Benzo(b)Fluoranthene		2	2.18	ug/L	109	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.27	ug/L	113	(70-130)	20	4.0
MBLK	Benzo(b)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0260	ug/L	130	(50-150)		
MS_201806120071	Benzo(b)Fluoranthene	ND	2	2.22	ug/L	111	(70-130)		
MSD_201806120071	Benzo(b)Fluoranthene	ND	2	2.29	ug/L	115	(70-130)	20	3.2
LCS1	Benzo(g,h,i)Perylene		2	2.33	ug/L	117	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	2.38	ug/L	119	(70-130)	20	2.1
MBLK	Benzo(g,h,i)Perylene			<0.05	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0720	ug/L	144	(50-150)		
MS_201806120071	Benzo(g,h,i)Perylene	ND	2	2.54	ug/L	127	(70-130)		
MSD_201806120071	Benzo(g,h,i)Perylene	ND	2	2.50	ug/L	125	(70-130)	20	1.4
LCS1	Benzo(k)Fluoranthene		2	2.28	ug/L	114	(70-130)		
LCS2	Benzo(k)Fluoranthene		2	2.26	ug/L	113	(70-130)	20	0.88
MBLK	Benzo(k)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0240	ug/L	120	(50-150)		
MS_201806120071	Benzo(k)Fluoranthene	ND	2	2.14	ug/L	107	(70-130)		
MSD_201806120071	Benzo(k)Fluoranthene	ND	2	2.27	ug/L	113	(70-130)	20	5.7
LCS1	Bromacil		2	2.38	ug/L	119	(70-130)		
LCS2	Bromacil		2	2.26	ug/L	113	(70-130)	20	5.2
MBLK	Bromacil			<0.2	ug/L				
MRL_CHK	Bromacil		0.1	0.109	ug/L	109	(50-150)		
MS_201806120071	Bromacil	ND	2	2.22	ug/L	111	(70-130)		
MSD_201806120071	Bromacil	ND	2	2.44	ug/L	122	(70-130)	20	9.3
LCS1	Butachlor		2	2.47	ug/L	124	(70-130)		
LCS2	Butachlor		2	2.39	ug/L	120	(70-130)	20	3.3
MBLK	Butachlor			<0.05	ug/L				
MRL_CHK	Butachlor		0.05	0.0730	ug/L	146	(50-150)		
MS_201806120071	Butachlor	ND	2	2.46	ug/L	123	(70-130)		
MSD_201806120071	Butachlor	ND	2	2.51	ug/L	126	(70-130)	20	1.8
LCS1	Butylbenzylphthalate		2	2.51	ug/L	125	(70-130)		
LCS2	Butylbenzylphthalate		2	2.37	ug/L	119	(70-130)	20	5.7
MBLK	Butylbenzylphthalate			<0.5	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.193	ug/L	129	(50-150)		
MS_201806120071	Butylbenzylphthalate	ND	2	2.44	ug/L	122	(70-130)		
MSD_201806120071	Butylbenzylphthalate	ND	2	2.57	ug/L	128	(70-130)	20	5.2
LCS1	Caffeine by method 525mod		2	1.83	ug/L	92	(45-137)		
LCS2	Caffeine by method 525mod		2	1.64	ug/L	82	(45-137)	20	11

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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1 800 566 LABS (1 800 566 5227)

Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Caffeine by method 525mod			<0.05	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0490	ug/L	98	(50-150)		
MS_201806120071	Caffeine by method 525mod	ND	2	1.83	ug/L	92	(46-144)		
MSD_201806120071	Caffeine by method 525mod	ND	2	1.87	ug/L	94	(46-144)	20	2.2
LCS1	Chrysene		2	2.02	ug/L	101	(70-130)		
LCS2	Chrysene		2	1.92	ug/L	96	(70-130)	20	5.6
MBLK	Chrysene			<0.02	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_201806120071	Chrysene	ND	2	2.00	ug/L	100	(70-130)		
MSD_201806120071	Chrysene	ND	2	2.07	ug/L	103	(70-130)	20	3.5
LCS1	Chrysene-d12 (I)		5	84.6	%	85	(50-150)		
LCS2	Chrysene-d12 (I)		5	67.9	%	68	(50-150)		
MBLK	Chrysene-d12 (I)			71.8	%	72	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	90.7	%	91	(50-150)		
MS_201806120071	Chrysene-d12 (I)		5	69.5	%	70	(50-150)		
MSD_201806120071	Chrysene-d12 (I)		5	71.6	%	72	(50-150)		
LCS1	Di-(2-Ethylhexyl)adipate		2	2.53	ug/L	127	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.47	ug/L	123	(70-130)	20	2.4
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.362	ug/L	121	(50-150)		
MS_201806120071	Di-(2-Ethylhexyl)adipate	ND	2	2.57	ug/L	129	(70-130)		
MSD_201806120071	Di-(2-Ethylhexyl)adipate	ND	2	2.57	ug/L	128	(70-130)	20	0.16
LCS1	Di(2-Ethylhexyl)phthalate		2	2.09	ug/L	104	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.22	ug/L	111	(70-130)	20	6.0
MBLK	Di(2-Ethylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.663	ug/L	111	(50-150)		
MS_201806120071	Di(2-Ethylhexyl)phthalate	ND	2	2.29	ug/L	114	(70-130)		
MSD_201806120071	Di(2-Ethylhexyl)phthalate	ND	2	2.24	ug/L	112	(70-130)	20	2.0
LCS1	Diazinon (Qualitative)		2	0.536	ug/L	27	(15-132)		
LCS2	Diazinon (Qualitative)		2	0.565	ug/L	28	(15-132)	20	5.3
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0270	ug/L	27	(15-132)		
MS_201806120071	Diazinon (Qualitative)	ND	2	0.761	ug/L	38	(15-132)		
MSD_201806120071	Diazinon (Qualitative)	ND	2	0.671	ug/L	34	(15-132)	20	13
LCS1	Dibenz(a,h)Anthracene		2	2.34	ug/L	117	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2	2.46	ug/L	123	(70-130)	20	5.4
MBLK	Dibenz(a,h)Anthracene			<0.05	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0760	ug/L	<u>152</u>	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Report: 743191  
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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201806120071	Dibenz(a,h)Anthracene	ND	2	2.47	ug/L	123	(70-130)		
MSD_201806120071	Dibenz(a,h)Anthracene	ND	2	2.43	ug/L	121	(70-130)	20	1.5
LCS1	Dieldrin		2	2.16	ug/L	108	(70-130)		
LCS2	Dieldrin		2	2.30	ug/L	115	(70-130)	20	6.3
MBLK	Dieldrin			<0.2	ug/L				
MRL_CHK	Dieldrin		0.1	0.130	ug/L	130	(50-150)		
MS_201806120071	Dieldrin	ND	2	2.19	ug/L	109	(70-130)		
MSD_201806120071	Dieldrin	ND	2	2.29	ug/L	114	(70-130)	20	4.7
LCS1	Diethylphthalate		2	2.29	ug/L	114	(70-130)		
LCS2	Diethylphthalate		2	2.25	ug/L	113	(70-130)	20	1.8
MBLK	Diethylphthalate			<0.5	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.180	ug/L	120	(50-150)		
MS_201806120071	Diethylphthalate	ND	2	2.32	ug/L	116	(70-130)		
MSD_201806120071	Diethylphthalate	ND	2	2.42	ug/L	121	(70-130)	20	4.0
LCS1	Dimethoate		2	1.85	ug/L	93	(35-100)		
LCS2	Dimethoate		2	1.68	ug/L	84	(35-100)	20	9.6
MBLK	Dimethoate			<0.1	ug/L				
MRL_CHK	Dimethoate		0.1	0.0800	ug/L	80	(35-100)		
MS_201806120071	Dimethoate	ND	2	1.89	ug/L	95	(34-111)		
MSD_201806120071	Dimethoate	ND	2	1.79	ug/L	90	(34-111)	20	5.5
LCS1	Dimethylphthalate		2	2.19	ug/L	110	(70-130)		
LCS2	Dimethylphthalate		2	2.21	ug/L	110	(70-130)	20	0.91
MBLK	Dimethylphthalate			<0.5	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.289	ug/L	96	(50-150)		
MS_201806120071	Dimethylphthalate	ND	2	2.24	ug/L	112	(70-130)		
MSD_201806120071	Dimethylphthalate	ND	2	2.32	ug/L	116	(70-130)	20	4.0
LCS1	Di-n-Butylphthalate		4	4.39	ug/L	110	(70-130)		
LCS2	Di-n-Butylphthalate		4	4.36	ug/L	109	(70-130)	20	0.46
MBLK	Di-n-Butylphthalate			<1	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.334	ug/L	111	(50-150)		
MS_201806120071	Di-n-Butylphthalate	ND	4	4.57	ug/L	114	(70-130)		
MSD_201806120071	Di-n-Butylphthalate	ND	4	4.61	ug/L	115	(70-130)	20	0.96
LCS1	Endrin		2	2.24	ug/L	112	(70-130)		
LCS2	Endrin		2	2.09	ug/L	105	(70-130)	20	6.9
MBLK	Endrin			<0.1	ug/L				
MRL_CHK	Endrin		0.1	0.115	ug/L	115	(50-150)		
MS_201806120071	Endrin	ND	2	2.22	ug/L	111	(70-130)		
MSD_201806120071	Endrin	ND	2	2.24	ug/L	112	(70-130)	20	0.94

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Fluoranthene		2	2.15	ug/L	108	(70-130)		
LCS2	Fluoranthene		2	2.07	ug/L	104	(70-130)	20	3.8
MBLK	Fluoranthene			<0.1	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0480	ug/L	96	(50-150)		
MS_201806120071	Fluoranthene	ND	2	2.14	ug/L	107	(70-130)		
MSD_201806120071	Fluoranthene	ND	2	2.17	ug/L	109	(70-130)	20	1.2
LCS1	Fluorene		2	2.24	ug/L	112	(70-130)		
LCS2	Fluorene		2	2.20	ug/L	110	(70-130)	20	2.3
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0550	ug/L	110	(50-150)		
MS_201806120071	Fluorene	ND	2	2.27	ug/L	113	(70-130)		
MSD_201806120071	Fluorene	ND	2	2.22	ug/L	111	(70-130)	20	1.7
LCS1	gamma-Chlordane		2	2.09	ug/L	104	(70-130)		
LCS2	gamma-Chlordane		2	2.07	ug/L	103	(70-130)	20	0.96
MBLK	gamma-Chlordane			<0.05	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0480	ug/L	96	(50-150)		
MS_201806120071	gamma-Chlordane	ND	2	2.14	ug/L	107	(70-130)		
MSD_201806120071	gamma-Chlordane	ND	2	2.16	ug/L	108	(70-130)	20	1.0
LCS1	Heptachlor		2	1.93	ug/L	97	(70-130)		
LCS2	Heptachlor		2	1.95	ug/L	98	(70-130)	20	1.0
MBLK	Heptachlor			<0.04	ug/L				
MRL_CHK	Heptachlor		0.04	0.0450	ug/L	113	(50-150)		
MS_201806120071	Heptachlor	ND	2	1.98	ug/L	99	(70-130)		
MSD_201806120071	Heptachlor	ND	2	2.03	ug/L	101	(70-130)	20	2.6
LCS1	Heptachlor Epoxide (isomer B)		2	2.09	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	2.07	ug/L	103	(70-130)	20	0.96
MBLK	Heptachlor Epoxide (isomer B)			<0.05	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0580	ug/L	116	(50-150)		
MS_201806120071	Heptachlor Epoxide (isomer B)	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806120071	Heptachlor Epoxide (isomer B)	ND	2	2.09	ug/L	105	(70-130)	20	3.1
LCS1	Hexachlorobenzene		2	2.04	ug/L	102	(70-130)		
LCS2	Hexachlorobenzene		2	2.10	ug/L	105	(70-130)	20	2.9
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0620	ug/L	124	(50-150)		
MS_201806120071	Hexachlorobenzene	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806120071	Hexachlorobenzene	ND	2	2.16	ug/L	108	(70-130)	20	0.28
LCS1	Hexachlorocyclopentadiene		2	1.77	ug/L	88	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	1.82	ug/L	91	(70-130)	20	2.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0590	ug/L	118	(50-150)		
MS_201806120071	Hexachlorocyclopentadiene	ND	2	1.78	ug/L	89	(70-130)		
MSD_201806120071	Hexachlorocyclopentadiene	ND	2	1.73	ug/L	87	(70-130)	20	2.9
LCS1	Indeno(1,2,3,c,d)Pyrene		2	2.29	ug/L	114	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	2.41	ug/L	121	(70-130)	20	5.1
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.05	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0800	ug/L	<b>160</b>	(50-150)		
MS_201806120071	Indeno(1,2,3,c,d)Pyrene	ND	2	2.43	ug/L	121	(70-130)		
MSD_201806120071	Indeno(1,2,3,c,d)Pyrene	ND	2	2.40	ug/L	120	(70-130)	20	1.2
LCS1	Isophorone		2	1.65	ug/L	82	(70-130)		
LCS2	Isophorone		2	1.67	ug/L	84	(70-130)	20	1.2
MBLK	Isophorone			<0.5	ug/L				
MRL_CHK	Isophorone		0.1	0.0630	ug/L	63	(50-150)		
MS_201806120071	Isophorone	ND	2	1.71	ug/L	85	(70-130)		
MSD_201806120071	Isophorone	ND	2	1.74	ug/L	87	(70-130)	20	1.9
LCS1	Lindane		2	2.22	ug/L	111	(70-130)		
LCS2	Lindane		2	2.16	ug/L	108	(70-130)	20	2.7
MBLK	Lindane			<0.04	ug/L				
MRL_CHK	Lindane		0.04	0.0420	ug/L	105	(50-150)		
MS_201806120071	Lindane	ND	2	2.35	ug/L	117	(70-130)		
MSD_201806120071	Lindane	ND	2	2.34	ug/L	117	(70-130)	20	0.30
LCS1	Methoxychlor		2	2.16	ug/L	108	(70-130)		
LCS2	Methoxychlor		2	2.25	ug/L	113	(70-130)	20	4.1
MBLK	Methoxychlor			<0.1	ug/L				
MRL_CHK	Methoxychlor		0.1	0.117	ug/L	117	(50-150)		
MS_201806120071	Methoxychlor	ND	2	2.21	ug/L	110	(70-130)		
MSD_201806120071	Methoxychlor	ND	2	2.31	ug/L	115	(70-130)	20	4.6
LCS1	Metolachlor		2	2.26	ug/L	113	(70-130)		
LCS2	Metolachlor		2	2.23	ug/L	112	(70-130)	20	1.3
MBLK	Metolachlor			<0.05	ug/L				
MRL_CHK	Metolachlor		0.05	0.0510	ug/L	102	(50-150)		
MS_201806120071	Metolachlor	ND	2	2.31	ug/L	115	(70-130)		
MSD_201806120071	Metolachlor	ND	2	2.31	ug/L	115	(70-130)	20	0.087
LCS1	Metribuzin		2	1.98	ug/L	99	(70-130)		
LCS2	Metribuzin		2	1.89	ug/L	95	(70-130)	20	4.7
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0410	ug/L	82	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201806120071	Metribuzin	ND	2	2.04	ug/L	102	(70-130)		
MSD_201806120071	Metribuzin	ND	2	1.91	ug/L	95	(70-130)	20	6.4
LCS1	Molinate		2	2.19	ug/L	109	(70-130)		
LCS2	Molinate		2	2.15	ug/L	108	(70-130)	20	1.8
MBLK	Molinate			<0.1	ug/L				
MRL_CHK	Molinate		0.1	0.0860	ug/L	86	(50-150)		
MS_201806120071	Molinate	ND	2	2.22	ug/L	111	(70-130)		
MSD_201806120071	Molinate	ND	2	2.15	ug/L	107	(70-130)	20	3.2
LCS1	Perylene-d12 (S)		5	105	%	105	(70-130)		
LCS2	Perylene-d12 (S)		5	107	%	107	(70-130)		
MBLK	Perylene-d12 (S)			90.6	%	91	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	94.5	%	95	(70-130)		
MS_201806120071	Perylene-d12 (S)		5	105	%	105	(70-130)		
MSD_201806120071	Perylene-d12 (S)		5	106	%	106	(70-130)		
LCS1	Phenanthrene		2	2.06	ug/L	103	(70-130)		
LCS2	Phenanthrene		2	2.09	ug/L	104	(70-130)	20	1.5
MBLK	Phenanthrene			<0.04	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0200	ug/L	100	(50-150)		
MS_201806120071	Phenanthrene	ND	2	2.08	ug/L	104	(70-130)		
MSD_201806120071	Phenanthrene	ND	2	2.09	ug/L	104	(70-130)	20	0.72
LCS1	Phenanthrene-d10 (I)		5	73.1	%	73	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	65.3	%	65	(50-150)		
MBLK	Phenanthrene-d10 (I)			72.4	%	72	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	89.6	%	90	(50-150)		
MS_201806120071	Phenanthrene-d10 (I)		5	64.3	%	64	(50-150)		
MSD_201806120071	Phenanthrene-d10 (I)		5	65.9	%	66	(50-150)		
LCS1	Propachlor		2	2.22	ug/L	111	(70-130)		
LCS2	Propachlor		2	2.14	ug/L	107	(70-130)	20	3.7
MBLK	Propachlor			<0.05	ug/L				
MRL_CHK	Propachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_201806120071	Propachlor	ND	2	2.15	ug/L	107	(70-130)		
MSD_201806120071	Propachlor	ND	2	2.25	ug/L	112	(70-130)	20	4.7
LCS1	Pyrene		2	2.18	ug/L	109	(70-130)		
LCS2	Pyrene		2	2.11	ug/L	106	(70-130)	20	3.3
MBLK	Pyrene			<0.05	ug/L				
MRL_CHK	Pyrene		0.05	0.0510	ug/L	102	(50-150)		
MS_201806120071	Pyrene	ND	2	2.15	ug/L	108	(70-130)		
MSD_201806120071	Pyrene	ND	2	2.18	ug/L	109	(70-130)	20	1.4

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



Tel: (626) 386-1100  
Fax: (626) 988-3757  
1 800 566 LABS (1 800 566 5227)

Report: 743191  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Simazine		2	2.42	ug/L	121	(70-130)		
LCS2	Simazine		2	2.35	ug/L	118	(70-130)	20	2.9
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0570	ug/L	114	(50-150)		
MS_201806120071	Simazine	ND	2	2.40	ug/L	120	(70-130)		
MSD_201806120071	Simazine	ND	2	2.49	ug/L	124	(70-130)	20	3.5
LCS1	Thiobencarb		2	2.25	ug/L	112	(70-130)		
LCS2	Thiobencarb		2	2.20	ug/L	110	(70-130)	20	2.3
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0940	ug/L	94	(50-150)		
MS_201806120071	Thiobencarb	ND	2	2.28	ug/L	114	(70-130)		
MSD_201806120071	Thiobencarb	ND	2	2.31	ug/L	116	(70-130)	20	1.4
LCS1	trans-Nonachlor		2	2.08	ug/L	104	(70-130)		
LCS2	trans-Nonachlor		2	2.04	ug/L	102	(70-130)	20	2.4
MBLK	trans-Nonachlor			<0.05	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_201806120071	trans-Nonachlor	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806120071	trans-Nonachlor	ND	2	2.18	ug/L	109	(70-130)	20	0.74
LCS1	Trifluralin		2	2.19	ug/L	109	(70-130)		
LCS2	Trifluralin		2	2.14	ug/L	107	(70-130)	20	2.3
MBLK	Trifluralin			<0.1	ug/L				
MRL_CHK	Trifluralin		0.1	0.0900	ug/L	90	(50-150)		
MS_201806120071	Trifluralin	ND	2	2.28	ug/L	114	(70-130)		
MSD_201806120071	Trifluralin	ND	2	2.33	ug/L	116	(70-130)	20	2.2
LCS1	Triphenylphosphate (S)		5	120	%	120	(70-130)		
LCS2	Triphenylphosphate (S)		5	110	%	110	(70-130)		
MBLK	Triphenylphosphate (S)			116	%	116	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	115	%	115	(70-130)		
MS_201806120071	Triphenylphosphate (S)		5	112	%	112	(70-130)		
MSD_201806120071	Triphenylphosphate (S)		5	117	%	117	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.





## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Eurofins Eaton Analytical, Inc  
Suite 100  
750 Royal Oaks Drive  
Monrovia CA 91016

Report Date: June 21, 2018 13:37

**Project: 743191**

Account #: 14482  
Group Number: 1955245  
PO Number: 99-59325  
State of Sample Origin: CA

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins Eaton Analytical, Inc

Attn: EEAI Reports

Respectfully Submitted,



Hannah L. Collman  
Project Manager

(717) 556-7383





## SAMPLE INFORMATION

### Client Sample Description

KB-01-264 Potable Water

### Sample Collection

#### Date/Time

06/06/2018 10:40

### ELLE#

9660102

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



Project Name: 743191  
ELLE Group #: 1955245

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:**

No additional comments are necessary.



**Sample Description:** KB-01-264 Potable Water  
Folder# 743191 Sub PO# 99-59325 Job# 1000014

Eurofins Eaton Analytical, Inc  
ELLE Sample #: PW 9660102  
ELLE Group #: 1955245  
Matrix: Potable Water

**Project Name:** 743191

Submittal Date/Time: 06/14/2018 10:10  
Collection Date/Time: 06/06/2018 10:40

CAT No.	Analysis Name	CAS Number	Result	EDL*	MRL	Dilution Factor
	<b>Dioxins/Furans</b>	<b>EPA 1613B October 1994</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
12935	2378-TCDD	1746-01-6	N.D.	0.295	5.26	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164

## Dioxins/Furans Data Qualifiers:

B	Detected in Method Blank
U	Undetected
J	Estimated concentration between Estimated Detection Limit and Minimum Reporting Level
E	Exceeds calibration range
C	Confirmed quantitation on secondary GC column
Q	EMPC - Estimated Maximum Possible Concentration
F	Interference is present
S	Saturation of detection signal

## Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12935	2378-TCDD in Potable Water	EPA 1613B October 1994	1	18166001	06/16/2018 15:18	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B October 1994	1	18166001	06/15/2018 07:00	Deborah M Zimmerman	1

EDL = Estimated Detection Limit  
\*=This limit was used in the evaluation of the final result



## Quality Control Summary

Client Name: Eurofins Eaton Analytical, Inc  
Reported: 06/21/2018 13:37

Group Number: 1955245

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result pg/l	EDL** pg/l	MRL pg/l
Batch number: 18166001 2378-TCDD	Sample number(s): 9660102 N.D.	0.308	5.00

### OPR/OPRD

Analysis Name	OPR Spike Added pg/l	OPR Conc pg/l	OPRD Spike Added pg/l	OPRD Conc pg/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 18166001 2378-TCDD	Sample number(s): 9660102 2.00	2.35			118		67-158		

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 2378-TCDD in Potable Water  
Batch number: 18166001

13C12-2378-TCDD	
9660102	69
Blank	69
Limits:	25-164

13C12-2378-TCDD	
OPR	73
Limits:	20-175

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the MRL.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.





Eaton Analytical

**Ship To:**

**Eurofins Lancaster Laboratories**  
2425 New Holland Pike

**Lancaster, PA 17601**

Phone: 717-656-2300 Fax:

**Folder #:** 743191 **Report Due:** 06/22/2018 **Sub PO #:** 99-59325

A# 14482 G# 1955245 S# 9660102

Date: 6/13/2018

**Submittal Form & Purchase Order 99-59325**

\*REPORTING REQUIREMENTS: Do Not Combine Reports with any other samples submitted under different Folder Numbers! Report & Invoice must have the Folder# 743191 Sub PO# 99-59325 and Job # 1000014

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator

EMAIL TO: us20\_subcontract@eurofins.com

Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016

Phone (626) 386-1165 Fax (626) 386-1122

Invoices to: Eurofins Eaton Analytical, LLC

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: CALIFORNIA

**CLS project: J flag data needed as well as referencing the client's description 5 day rush**

Use Lab Order # for ID

JLS

Client Sample ID for reference only

Analysis Requested

Sample Date & Time

Matrix

PWS Systemcode

PWSID

201806090601 KB-01-264

Sample type:

2,3,7,8-TCDD

Sample Event:

Facility ID:

2,3,7,8-TCDD

06/06/18 1040 DW

Sample Point ID: {CL\_SAMPLEPOINTID} Static ID:

Relinquished by:

Received by:

Relinquished by:

Received by:

Sample Control

Sample Control

Date 6-13-18 Time 1336

Date Time

Date Time

Date 6/14/18 Time 1040

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras





Client: Eurofins Eaton Analytical

**Delivery and Receipt Information**

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>06/14/2018 10:10</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace $\geq$ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Nicole Reiff (25684) at 13:38 on 06/14/2018***Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	1.1	IR	Wet	Y	Loose	N



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.  
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.





## CALIFORNIA LABORATORY SERVICES

*Committed. Responsive. Flexible.*

July 19, 2018

CLS Work Order #: 18F0405

COC #: 29380

Joe Zilles  
Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

**Project Name: Riverview MHP**

Enclosed are the results of analyses for samples received by the laboratory on 06/07/18 16:57. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.  
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233



18F0405

PROJECT NO. <b>20190044</b>		PROJECT NAME <b>Riverview MHP</b>		NO. OF CON- TAINERS	TYPE OF CON- TAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ANALYSIS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Selenium to red</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Uranium</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Metals</div> </div>										RECEIVING LAB: <b>CLS</b>				
LP NO. (P.O. NO.)		SAMPLERS: (Signature/Number) <b>Bill Schmierer</b>														INSTRUCTIONS/REMARKS				
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX																	
1	06/07/18 09:50	KB-01-133	DW																	
2	06/07/18 09:50	KB-01-133-INT	DW																	
3																				
4																				
5																				
6																				
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20																				

Reinquished by: (Signature) <i>[Signature]</i>	Date/Time <b>6/7/18 16:51</b>	Received by: (Signature)	Instructions/Remarks	Send Results To: <b>jzilles@kleinfelder.com</b> <b>criddle@kleinfelder.com</b>
Reinquished by: (Signature)	Date/Time	Received by: (Signature)		
Reinquished by: (Signature)	Date/Time <b>6-7-18 1657</b>	Received for Laboratory by: (Signature) <i>[Signature]</i>		

5.1

**CHAIN OF CUSTODY**





## CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Page 2 of 29

07/19/18 16:55

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Chlorinated Pesticides and PCBs by EPA Method 508

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW Sampled: 06/07/18 09:50 Received: 06/07/18 16:57</b>									
Aldrin	ND	0.075	µg/L	1	1804641	06/08/18	06/09/18	EPA 508	
Chlordane	ND	0.10	"	"	"	"	"	"	
Chlorothalonil	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	0.020	"	"	"	"	"	"	
Endrin	ND	0.10	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.20	"	"	"	"	"	"	
Heptachlor	ND	0.010	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.010	"	"	"	"	"	"	
Hexachlorobenzene	ND	0.50	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Polychlorinated Biphenyls (Total PCBs)	ND	0.50	"	"	"	"	"	"	
Propachlor	ND	0.50	"	"	"	"	"	"	
Toxaphene	ND	1.0	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		61 %	50-150		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		73 %	50-150		"	"	"	"	





## CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

Page 3 of 29

07/19/18 16:55

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
KB-01-133 (18F0405-01) DW Sampled: 06/07/18 09:50 Received: 06/07/18 16:57									
Aggressive Index	12.1		N/A	1	1804872	06/13/18	06/13/18	NONE	
Bicarbonate as CaCO <sub>3</sub>	340	5.0	mg/L	"	1804798	06/11/18	06/11/18	SM2320B	
Calcium	65	1.0	"	"	1804807	06/11/18	06/12/18	200.7/2340B	
Carbonate as CaCO <sub>3</sub>	ND	5.0	"	"	1804798	06/11/18	06/11/18	SM2320B	
Chloride	24	0.50	"	"	1804696	06/08/18	06/08/18	EPA 300.0	
Cyanide (total)	ND	0.0050	"	"	1804712	06/08/18	06/08/18	SM4500-CN E	
Fluoride	ND	0.10	"	"	1804696	06/08/18	06/08/18	EPA 300.0	
Hardness as CaCO <sub>3</sub>	280	1.0	"	"	1804807	06/11/18	06/12/18	200.7/2340B	
Hydroxide as CaCO <sub>3</sub>	ND	5.0	"	"	1804798	06/11/18	06/11/18	SM2320B	
Langlier Index	-0.16		Std. Units	"	1804883	06/13/18	06/13/18	SM 203, 16th Ed.	
Magnesium	28	1.0	mg/L	"	1804807	06/11/18	06/12/18	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.10	"	"	1804710	06/08/18	06/08/18	SM5540 C	
Nitrate as N	8.4	2.0	"	5	1804696	06/08/18	06/08/18	EPA 300.0	
Nitrite as N	ND	0.40	"	1	"	"	"	"	
pH	7.33	0.01	pH Units	"	1804700	06/08/18	06/08/18	SM4500-H B	HT-F
Potassium	3.9	1.0	mg/L	"	1804807	06/11/18	06/12/18	200.7/2340B	
Sodium	70	1.0	"	"	"	"	"	"	
Sodium Adsorption Ratio	1.8		sqrt(meq/L)	"	1804912	06/14/18	06/14/18	None	
Specific Conductance (EC)	880	1.0	µmhos/cm	"	1804699	06/08/18	06/08/18	EPA 120.1	
Sulfate as SO <sub>4</sub>	79	2.5	mg/L	5	1804696	06/08/18	06/08/18	EPA 300.0	
Total Alkalinity	340	5.0	"	1	1804798	06/11/18	06/11/18	SM2320B	
Total Dissolved Solids	580	10	"	"	1804818	06/12/18	06/13/18	SM2540C	





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### EDB and DBCP by EPA Method 504.1

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW    Sampled: 06/07/18 09:50    Received: 06/07/18 16:57</b>									
1,2-Dibromo-3-chloropropane	ND	0.010	µg/L	1	1804917	06/14/18	06/14/18	EPA 504.1	
Ethylene dibromide	ND	0.020	"	"	"	"	"	"	





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW    Sampled: 06/07/18 09:50    Received: 06/07/18 16:57</b>									
Uranium	53	20	µg/L	1	1804759	06/11/18	07/12/18	EPA 200.8	
<b>KB-01-133-CWT (18F0405-02) DW    Sampled: 06/07/18 09:50    Received: 06/07/18 16:57</b>									
Uranium	48	20	µg/L	1	1804759	06/11/18	07/13/18	EPA 200.8	





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Metals (Dissolved) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW Sampled: 06/07/18 09:50 Received: 06/07/18 16:57</b>									
Aluminum	ND	50	µg/L	1	1804807	06/11/18	06/12/18	EPA 200.7	
Antimony	ND	4.0	"	"	1804858	06/13/18	07/09/18	EPA 200.8	
<b>Arsenic</b>	<b>4.5</b>	2.0	"	"	"	"	06/13/18	"	
<b>Barium</b>	<b>270</b>	100	"	"	1804807	06/11/18	06/12/18	EPA 200.7	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	ND	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Chromium	ND	10	"	"	1804807	06/11/18	06/12/18	EPA 200.7	
Copper	ND	50	"	"	"	"	"	"	
Iron	ND	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Manganese	ND	20	"	"	1804807	06/11/18	06/12/18	EPA 200.7	
Mercury	ND	0.20	"	"	1804802	06/11/18	06/13/18	EPA 245.1	
Nickel	ND	10	"	"	1804858	06/13/18	06/13/18	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	
Silver	ND	10	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	06/14/18	"	
<b>Vanadium</b>	<b>20</b>	3.0	"	"	"	"	06/13/18	"	
Zinc	ND	50	"	"	1804807	06/11/18	06/12/18	EPA 200.7	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Drinking Water) by EPA 200 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
KB-01-133 (18F0405-01) DW Sampled: 06/07/18 09:50 Received: 06/07/18 16:57									
Aluminum	270	50	µg/L	1	1804761	06/11/18	06/12/18	EPA 200.7	
Antimony	ND	4.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Arsenic	3.7	2.0	"	"	"	"	"	"	
Barium	310	100	"	"	1804761	06/11/18	06/12/18	EPA 200.7	
Beryllium	ND	1.0	"	"	"	"	"	"	
Boron	ND	100	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Chromium	ND	10	"	"	1804761	06/11/18	06/12/18	EPA 200.7	
Copper	ND	50	"	"	"	"	"	"	
Iron	250	100	"	"	"	"	"	"	
Lead	ND	5.0	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Manganese	37	20	"	"	1804761	06/11/18	06/12/18	EPA 200.7	
Mercury	ND	1.0	"	"	1804802	06/11/18	06/13/18	EPA 245.1	
Nickel	ND	10	"	"	1804759	06/11/18	06/11/18	EPA 200.8	
Selenium	ND	5.0	"	"	"	"	"	"	QC-2H
Silver	ND	10	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Vanadium	22	3.0	"	"	"	"	"	"	
Zinc	ND	50	"	"	1804761	06/11/18	06/12/18	EPA 200.7	





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Rancho Cordova, CA 95742

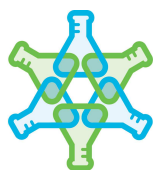
Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Microbiological Parameters by APHA Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW    Sampled: 06/07/18 09:50    Received: 06/07/18 16:57</b>									
E. Coli	Present	0.0	N/A	1	1804745	06/08/18	06/09/18	SM 9223	
Total Coliforms	Present	0.0	"	"	"	"	"	"	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Purgeable Organic Compounds by EPA Method 524.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW Sampled: 06/07/18 09:50 Received: 06/07/18 16:57</b>									
1,1,1-Trichloroethane	ND	0.50	µg/L	1	1804837	06/11/18	06/11/18	EPA 524.2	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	3.0	"	"	"	"	"	"	
Methylene chloride	ND	0.50	"	"	"	"	"	"	
Styrene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Total Trihalomethanes (THM)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	





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Rancho Cordova, CA 95742

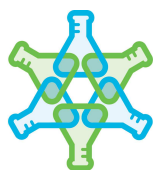
Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Purgeable Organic Compounds by EPA Method 524.2

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>KB-01-133 (18F0405-01) DW    Sampled: 06/07/18 09:50    Received: 06/07/18 16:57</b>									
Surrogate: 1,2-Dichloroethane-d4		93 %		66-135	1804837	"	06/11/18	EPA 524.2	
Surrogate: 4-Bromofluorobenzene		114 %		70-130	"	"	"	"	
Surrogate: Toluene-d8		99 %		70-130	"	"	"	"	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Chlorinated Pesticides and PCBs by EPA Method 508 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804641 - EPA 3510B GCNV

##### Blank (1804641-BLK1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	ND	0.075	µg/L							
Chlordane	ND	0.10	"							
Chlorothalonil	ND	5.0	"							
Dieldrin	ND	0.020	"							
Endrin	ND	0.10	"							
gamma-BHC (Lindane)	ND	0.20	"							
Heptachlor	ND	0.010	"							
Heptachlor epoxide	ND	0.010	"							
Hexachlorobenzene	ND	0.50	"							
Hexachlorocyclopentadiene	ND	1.0	"							
Methoxychlor	ND	10	"							
Propachlor	ND	0.50	"							
Toxaphene	ND	1.0	"							
Polychlorinated Biphenyls (Total PCBs)	ND	0.50	"							
Surrogate: Tetrachloro-meta-xylene	0.189		"	0.250		76	50-150			
Surrogate: Decachlorobiphenyl	0.230		"	0.250		92	50-150			

##### LCS (1804641-BS1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	0.440	0.075	µg/L	0.500		88	50-130			
Dieldrin	0.497	0.020	"	0.500		99	48-129			
gamma-BHC (Lindane)	0.458	0.20	"	0.500		92	49-127			
Surrogate: Tetrachloro-meta-xylene	0.163		"	0.250		65	50-150			
Surrogate: Decachlorobiphenyl	0.208		"	0.250		83	50-150			

##### LCS Dup (1804641-BSD1)

Prepared: 06/07/18 Analyzed: 06/09/18

Aldrin	0.473	0.075	µg/L	0.500		95	50-130	7	30	
Dieldrin	0.520	0.020	"	0.500		104	48-129	4	30	
gamma-BHC (Lindane)	0.487	0.20	"	0.500		97	49-127	6	30	
Surrogate: Tetrachloro-meta-xylene	0.186		"	0.250		74	50-150			
Surrogate: Decachlorobiphenyl	0.231		"	0.250		92	50-150			





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804696 - General Prep

##### Blank (1804696-BLK1)

Prepared & Analyzed: 06/08/18

Fluoride	ND	0.10	mg/L
Sulfate as SO <sub>4</sub>	ND	0.50	"
Chloride	ND	0.50	"
Nitrite as N	ND	0.40	"
Nitrate as N	ND	0.40	"

##### LCS (1804696-BS1)

Prepared & Analyzed: 06/08/18

Chloride	4.64	0.50	mg/L	5.00	93	80-120
Sulfate as SO <sub>4</sub>	4.45	0.50	"	5.00	89	80-120
Fluoride	2.05	0.10	"	2.00	103	80-120
Nitrite as N	1.92	0.40	"	2.00	96	80-120
Nitrate as N	1.98	0.40	"	2.00	99	80-120

##### LCS Dup (1804696-BSD1)

Prepared & Analyzed: 06/08/18

Fluoride	2.03	0.10	mg/L	2.00	102	80-120	1	20
Sulfate as SO <sub>4</sub>	4.50	0.50	"	5.00	90	80-120	1	20
Chloride	4.74	0.50	"	5.00	95	80-120	2	20
Nitrite as N	1.95	0.40	"	2.00	97	80-120	2	20
Nitrate as N	2.02	0.40	"	2.00	101	80-120	2	20

##### Matrix Spike (1804696-MS1)

Source: 18F0414-02

Prepared & Analyzed: 06/08/18

Sulfate as SO <sub>4</sub>	4.82	0.50	mg/L	5.00	ND	96	80-120
Chloride	4.88	0.50	"	5.00	0.380	90	80-120
Fluoride	2.54	0.10	"	2.00	0.673	93	80-120
Nitrate as N	1.99	0.40	"	2.00	ND	100	80-120
Nitrite as N	1.95	0.40	"	2.00	ND	98	80-120

##### Matrix Spike Dup (1804696-MSD1)

Source: 18F0414-02

Prepared & Analyzed: 06/08/18

Sulfate as SO <sub>4</sub>	4.73	0.50	mg/L	5.00	ND	95	80-120	2	20
Fluoride	2.50	0.10	"	2.00	0.673	92	80-120	1	20
Chloride	4.80	0.50	"	5.00	0.380	88	80-120	2	20
Nitrate as N	1.96	0.40	"	2.00	ND	98	80-120	2	20
Nitrite as N	1.93	0.40	"	2.00	ND	96	80-120	1	20





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804699 - General Preparation

##### Blank (1804699-BLK1)

Prepared & Analyzed: 06/08/18

Specific Conductance (EC) ND 1.0  $\mu$ mhos/cm

#### Batch 1804710 - General Preparation

##### Blank (1804710-BLK1)

Prepared & Analyzed: 06/08/18

MBAS as LAS, mol wt 340 ND 0.10 mg/L

##### LCS (1804710-BS1)

Prepared & Analyzed: 06/08/18

MBAS as LAS, mol wt 340 0.462 0.10 mg/L 0.500 92 80-120

##### LCS Dup (1804710-BSD1)

Prepared & Analyzed: 06/08/18

MBAS as LAS, mol wt 340 0.474 0.10 mg/L 0.500 95 80-120 3 20

##### Matrix Spike (1804710-MS1)

Source: 18F0373-01

Prepared & Analyzed: 06/08/18

MBAS as LAS, mol wt 340 0.439 0.10 mg/L 0.500 ND 88 75-125

##### Matrix Spike Dup (1804710-MSD1)

Source: 18F0373-01

Prepared & Analyzed: 06/08/18

MBAS as LAS, mol wt 340 0.447 0.10 mg/L 0.500 ND 89 75-125 2 25

#### Batch 1804712 - General Preparation

##### Blank (1804712-BLK1)

Prepared & Analyzed: 06/08/18

Cyanide (total) ND 0.0050 mg/L

##### LCS (1804712-BS1)

Prepared & Analyzed: 06/08/18

Cyanide (total) 0.0880 0.0050 mg/L 0.100 88 75-125





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804712 - General Preparation

##### LCS Dup (1804712-BSD1)

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0891	0.0050	mg/L	0.100		89	75-125	1	25	
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##### Matrix Spike (1804712-MS1)

Source: 18F0242-01

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0898	0.0050	mg/L	0.100	0.00350	86	75-125			
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##### Matrix Spike Dup (1804712-MSD1)

Source: 18F0242-01

Prepared & Analyzed: 06/08/18

Cyanide (total)	0.0917	0.0050	mg/L	0.100	0.00350	88	75-125	2	25	
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#### Batch 1804798 - General Preparation

##### Blank (1804798-BLK1)

Prepared & Analyzed: 06/11/18

Total Alkalinity	ND	5.0	mg/L							
Bicarbonate as CaCO <sub>3</sub>	ND	5.0	"							
Carbonate as CaCO <sub>3</sub>	ND	5.0	"							
Hydroxide as CaCO <sub>3</sub>	ND	5.0	"							

##### Duplicate (1804798-DUP1)

Source: 18F0358-02

Prepared & Analyzed: 06/11/18

Total Alkalinity	243	5.0	mg/L		241			1	20	
Bicarbonate as CaCO <sub>3</sub>	243	5.0	"		241			1	20	
Carbonate as CaCO <sub>3</sub>	ND	5.0	"		ND				20	
Hydroxide as CaCO <sub>3</sub>	ND	5.0	"		ND				20	

#### Batch 1804807 - 6010A/No Digestion

##### Blank (1804807-BLK1)

Prepared: 06/11/18 Analyzed: 06/12/18

Calcium	ND	1.0	mg/L							
Hardness as CaCO <sub>3</sub>	ND	1.0	"							
Magnesium	ND	1.0	"							
Potassium	ND	1.0	"							
Sodium	ND	1.0	"							





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804807 - 6010A/No Digestion

##### LCS (1804807-BS1)

Prepared: 06/11/18 Analyzed: 06/12/18

Calcium	4.63	1.0	mg/L	5.00		93	85-115			
Magnesium	4.56	1.0	"	5.00		91	85-115			
Potassium	4.86	1.0	"	5.00		97	85-115			
Sodium	4.89	1.0	"	5.00		98	85-115			

##### Matrix Spike (1804807-MS1)

Source: 18F0358-01

Prepared: 06/11/18 Analyzed: 06/12/18

Calcium	30.8	1.0	mg/L	5.00	27.9	58	70-130			QM-4X
Magnesium	28.8	1.0	"	5.00	25.6	65	70-130			QM-4X
Potassium	6.51	1.0	"	5.00	1.95	91	70-130			
Sodium	62.9	1.0	"	5.00	61.3	32	70-130			QM-4X

##### Matrix Spike (1804807-MS2)

Source: 18F0488-01

Prepared: 06/11/18 Analyzed: 06/12/18

Calcium	5.79	1.0	mg/L	5.00	1.61	84	70-130			
Magnesium	4.60	1.0	"	5.00	0.362	85	70-130			
Potassium	4.87	1.0	"	5.00	ND	97	70-130			
Sodium	5.93	1.0	"	5.00	1.54	88	70-130			

#### Batch 1804818 - General Preparation

##### Blank (1804818-BLK1)

Prepared: 06/12/18 Analyzed: 06/13/18

Total Dissolved Solids	ND	10	mg/L							
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##### Duplicate (1804818-DUP1)

Source: 18F0373-01

Prepared: 06/12/18 Analyzed: 06/13/18

Total Dissolved Solids	233	10	mg/L		238			2	20	
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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### EDB and DBCP by EPA Method 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1804917 - EPA 504.1</b>										
<b>Blank (1804917-BLK1)</b>				Prepared & Analyzed: 06/14/18						
Ethylene dibromide	ND	0.020	µg/L							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
<b>LCS (1804917-BS1)</b>				Prepared & Analyzed: 06/14/18						
Ethylene dibromide	0.253	0.020	µg/L	0.286		89	60-140			
1,2-Dibromo-3-chloropropane	0.276	0.010	"	0.286		97	60-140			
<b>LCS Dup (1804917-BSD1)</b>				Prepared & Analyzed: 06/14/18						
Ethylene dibromide	0.257	0.020	µg/L	0.286		90	60-140	1	30	
1,2-Dibromo-3-chloropropane	0.302	0.010	"	0.286		106	60-140	9	30	
<b>Matrix Spike (1804917-MS1)</b>				<b>Source: 18F0405-01</b>		Prepared & Analyzed: 06/14/18				
Ethylene dibromide	0.287	0.020	µg/L	0.286	ND	101	60-140			
1,2-Dibromo-3-chloropropane	0.281	0.010	"	0.286	ND	98	60-140			
<b>Matrix Spike Dup (1804917-MSD1)</b>				<b>Source: 18F0405-01</b>		Prepared & Analyzed: 06/14/18				
Ethylene dibromide	0.311	0.020	µg/L	0.286	ND	109	60-140	8	30	
1,2-Dibromo-3-chloropropane	0.300	0.010	"	0.286	ND	105	60-140	7	30	





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2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804759 - EPA 200 Series

##### Blank (1804759-BLK1)

Prepared & Analyzed: 06/11/18

Uranium	ND	20	µg/L
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##### LCS (1804759-BS1)

Prepared & Analyzed: 06/11/18

Uranium	106	20	µg/L	100	106	85-115
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##### Matrix Spike (1804759-MS1)

Source: 18F0246-01

Prepared & Analyzed: 06/11/18

Uranium	120	20	µg/L	100	0.230	119	70-130
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##### Matrix Spike (1804759-MS2)

Source: 18F0291-01

Prepared & Analyzed: 06/11/18

Uranium	115	20	µg/L	100	0.0100	115	70-130
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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804802 - EPA 7470A

##### Blank (1804802-BLK1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	ND	0.20	µg/L
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##### LCS (1804802-BS1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.59	0.20	µg/L	5.00	92	85-115
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##### Matrix Spike (1804802-MS1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.62	0.20	µg/L	5.00	ND	92	70-130
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##### Matrix Spike Dup (1804802-MSD1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.71	0.20	µg/L	5.00	ND	94	70-130	2	25
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#### Batch 1804807 - 6010A/No Digestion

##### Blank (1804807-BLK1)

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	ND	50	µg/L
Barium	ND	100	"
Boron	ND	100	"
Beryllium	1.86	1.0	"
Chromium	ND	10	"
Copper	ND	50	"
Iron	ND	100	"
Manganese	ND	20	"
Zinc	ND	50	"

QB-2

##### LCS (1804807-BS1)

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	5010	50	µg/L	5000	100	85-115
Barium	937	100	"	1000	94	85-115
Boron	974	100	"	1000	97	85-115
Beryllium	932	1.0	"	1000	93	85-115
Chromium	972	10	"	1000	97	85-115
Copper	981	50	"	1000	98	85-115
Iron	1050	100	"	1000	105	85-115
Manganese	1020	20	"	1000	102	85-115
Zinc	973	50	"	1000	97	85-115





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Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804807 - 6010A/No Digestion

##### Matrix Spike (1804807-MS1)

Source: 18F0358-01

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	4660	50	µg/L	5000	ND	93	70-130
Barium	914	100	"	1000	174	74	70-130
Boron	1210	100	"	1000	456	76	70-130
Beryllium	760	1.0	"	1000	ND	76	70-130
Chromium	766	10	"	1000	ND	77	70-130
Copper	750	50	"	1000	4.79	74	70-130
Iron	838	100	"	1000	ND	84	70-130
Manganese	790	20	"	1000	ND	79	70-130
Zinc	777	50	"	1000	ND	78	70-130

##### Matrix Spike (1804807-MS2)

Source: 18F0488-01

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	4620	50	µg/L	5000	30.8	92	70-130
Barium	802	100	"	1000	6.71	80	70-130
Boron	831	100	"	1000	12.5	82	70-130
Beryllium	805	1.0	"	1000	ND	81	70-130
Chromium	840	10	"	1000	ND	84	70-130
Copper	841	50	"	1000	ND	84	70-130
Iron	885	100	"	1000	14.3	87	70-130
Manganese	882	20	"	1000	2.91	88	70-130
Zinc	842	50	"	1000	ND	84	70-130

#### Batch 1804858 - EPA 200 Series

##### Blank (1804858-BLK1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	ND	4.0	µg/L
Arsenic	ND	2.0	"
Cadmium	ND	1.0	"
Lead	ND	5.0	"
Nickel	ND	10	"
Selenium	ND	5.0	"
Silver	ND	10	"
Vanadium	ND	3.0	"
Thallium	ND	1.0	"





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804858 - EPA 200 Series

##### LCS (1804858-BS1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	96.5	4.0	µg/L	100		97	85-115			
Arsenic	103	2.0	"	100		103	85-115			
Cadmium	109	1.0	"	100		109	85-115			
Lead	104	5.0	"	100		104	85-115			
Nickel	106	10	"	100		106	85-115			
Selenium	109	5.0	"	100		109	85-115			
Silver	106	10	"	100		106	85-115			
Vanadium	105	3.0	"	100		105	85-115			
Thallium	105	1.0	"	100		105	85-115			

##### LCS Dup (1804858-BS1)

Prepared: 06/13/18 Analyzed: 07/09/18

Antimony	95.5	4.0	µg/L	100		96	85-115	1	20	
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##### Matrix Spike (1804858-MS1)

Source: 18F0573-06

Prepared & Analyzed: 06/13/18

Arsenic	153	2.0	µg/L	100	1.23	152	70-130			QM-7
Cadmium	103	1.0	"	100	0.360	103	70-130			
Lead	98.3	5.0	"	100	0.280	98	70-130			
Nickel	92.2	10	"	100	4.62	88	70-130			
Selenium	179	5.0	"	100	5.24	174	70-130			QM-7
Silver	86.9	10	"	100	0.300	87	70-130			
Vanadium	98.4	3.0	"	100	3.13	95	70-130			
Thallium	102	1.0	"	100	1.31	101	70-130			





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Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804759 - EPA 200 Series

##### Blank (1804759-BLK1)

Prepared & Analyzed: 06/11/18

Antimony	ND	4.0	µg/L
Arsenic	ND	2.0	"
Cadmium	ND	1.0	"
Lead	ND	5.0	"
Nickel	ND	10	"
Selenium	ND	5.0	"
Silver	ND	10	"
Vanadium	ND	3.0	"
Thallium	ND	1.0	"

##### LCS (1804759-BS1)

Prepared & Analyzed: 06/11/18

Antimony	102	4.0	µg/L	100	102	85-115
Arsenic	108	2.0	"	100	108	85-115
Cadmium	111	1.0	"	100	111	85-115
Lead	107	5.0	"	100	107	85-115
Nickel	108	10	"	100	108	85-115
Selenium	110	5.0	"	100	110	85-115
Silver	94.3	10	"	100	94	85-115
Vanadium	106	3.0	"	100	106	85-115
Thallium	105	1.0	"	100	105	85-115

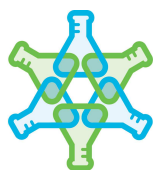
##### Matrix Spike (1804759-MS1)

Source: 18F0246-01

Prepared & Analyzed: 06/11/18

Antimony	97.8	4.0	µg/L	100	ND	98	70-130
Arsenic	1350	2.0	"	100	1260	93	70-130
Cadmium	96.0	1.0	"	100	ND	96	70-130
Lead	109	5.0	"	100	0.450	109	70-130
Nickel	82.5	10	"	100	2.95	80	70-130
Selenium	127	5.0	"	100	3.60	123	70-130
Silver	88.1	10	"	100	8.19	80	70-130
Vanadium	112	3.0	"	100	14.9	97	70-130
Thallium	106	1.0	"	100	0.140	106	70-130





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804759 - EPA 200 Series

##### Matrix Spike (1804759-MS2)

Source: 18F0291-01

Prepared & Analyzed: 06/11/18

Antimony	106	4.0	µg/L	100	ND	106	70-130
Arsenic	117	2.0	"	100	3.66	113	70-130
Cadmium	114	1.0	"	100	ND	114	70-130
Lead	112	5.0	"	100	0.300	112	70-130
Nickel	101	10	"	100	0.710	100	70-130
Selenium	117	5.0	"	100	ND	117	70-130
Silver	88.9	10	"	100	ND	89	70-130
Vanadium	104	3.0	"	100	1.28	103	70-130
Thallium	110	1.0	"	100	0.220	110	70-130

#### Batch 1804761 - EPA 200 Series

##### Blank (1804761-BLK1)

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	ND	50	µg/L
Barium	ND	100	"
Boron	ND	100	"
Beryllium	ND	1.0	"
Chromium	ND	10	"
Copper	ND	50	"
Iron	ND	100	"
Manganese	ND	20	"
Zinc	ND	50	"

##### LCS (1804761-BS1)

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	5380	50	µg/L	5000	108	85-115
Barium	1050	100	"	1000	105	85-115
Boron	1010	100	"	1000	101	85-115
Beryllium	1090	1.0	"	1000	109	85-115
Chromium	1100	10	"	1000	110	85-115
Copper	1080	50	"	1000	108	85-115
Iron	1110	100	"	1000	111	85-115
Manganese	1110	20	"	1000	111	85-115
Zinc	1040	50	"	1000	104	85-115





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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804761 - EPA 200 Series

##### Matrix Spike (1804761-MS1)

Source: 18F0405-01

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	5650	50	µg/L	5000	271	108	70-130
Barium	1320	100	"	1000	305	101	70-130
Boron	1060	100	"	1000	56.5	101	70-130
Beryllium	1060	1.0	"	1000	ND	106	70-130
Chromium	1040	10	"	1000	ND	104	70-130
Copper	993	50	"	1000	ND	99	70-130
Iron	1380	100	"	1000	252	113	70-130
Manganese	1070	20	"	1000	36.9	103	70-130
Zinc	1020	50	"	1000	24.7	100	70-130

##### Matrix Spike (1804761-MS2)

Source: 18F0413-01

Prepared: 06/11/18 Analyzed: 06/12/18

Aluminum	5070	50	µg/L	5000	ND	101	70-130
Barium	1330	100	"	1000	363	97	70-130
Boron	1550	100	"	1000	607	94	70-130
Beryllium	1010	1.0	"	1000	ND	101	70-130
Chromium	963	10	"	1000	ND	96	70-130
Copper	932	50	"	1000	ND	93	70-130
Iron	1430	100	"	1000	387	104	70-130
Manganese	1310	20	"	1000	333	98	70-130
Zinc	944	50	"	1000	10.2	93	70-130

#### Batch 1804802 - EPA 7470A

##### Blank (1804802-BLK1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	ND	1.0	µg/L
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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804802 - EPA 7470A

##### LCS (1804802-BS1)

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.59	1.0	µg/L	5.00		92	85-115		
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##### Matrix Spike (1804802-MS1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.62	1.0	µg/L	5.00	ND	92	70-130		
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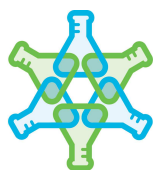
##### Matrix Spike Dup (1804802-MSD1)

Source: 18F0171-01

Prepared: 06/11/18 Analyzed: 06/13/18

Mercury	4.71	1.0	µg/L	5.00	ND	94	70-130	2	25
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Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1804837 - EPA 5030 Water MS

##### Blank (1804837-BLK1)

Prepared & Analyzed: 06/11/18

Benzene	ND	0.50	µg/L							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	3.0	"							
Methylene chloride	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Total Trihalomethanes (THM)	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	9.61		"	10.0		96	66-135			
Surrogate: Toluene-d8	9.54		"	10.0		95	70-130			





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Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1804837 - EPA 5030 Water MS

##### Blank (1804837-BLK1)

Prepared & Analyzed: 06/11/18

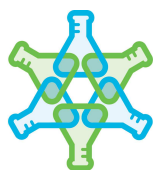
Surrogate: 4-Bromofluorobenzene 11.2 " 10.0 112 70-130

##### LCS (1804837-BS1)

Prepared & Analyzed: 06/11/18

Benzene	19.5	0.50	µg/L	20.0	98	70-130
Carbon tetrachloride	19.9	0.50	"	20.0	100	70-130
Chlorobenzene	19.8	0.50	"	20.0	99	70-130
1,2-Dichlorobenzene	22.4	0.50	"	20.0	112	70-130
1,4-Dichlorobenzene	22.8	0.50	"	20.0	114	70-130
1,1-Dichloroethane	18.5	0.50	"	20.0	92	70-130
1,2-Dichloroethane	16.3	0.50	"	20.0	82	70-130
1,1-Dichloroethene	17.7	0.50	"	20.0	89	70-130
cis-1,2-Dichloroethene	20.3	0.50	"	20.0	101	70-130
trans-1,2-Dichloroethene	18.7	0.50	"	20.0	94	70-130
1,2-Dichloropropane	19.3	0.50	"	20.0	96	70-130
cis-1,3-Dichloropropene	21.0	0.50	"	20.0	105	70-130
trans-1,3-Dichloropropene	19.9	0.50	"	20.0	99	70-130
Ethylbenzene	20.1	0.50	"	20.0	101	70-130
Methyl tert-butyl ether	16.8	3.0	"	20.0	84	0-200
Methylene chloride	17.4	0.50	"	20.0	87	70-130
Styrene	21.2	0.50	"	20.0	106	70-130
1,1,2,2-Tetrachloroethane	22.4	0.50	"	20.0	112	70-130
Tetrachloroethene	19.8	0.50	"	20.0	99	70-130
Toluene	20.1	0.50	"	20.0	101	70-130
1,2,4-Trichlorobenzene	22.4	0.50	"	20.0	112	70-130
1,1,1-Trichloroethane	19.7	0.50	"	20.0	98	70-130
1,1,2-Trichloroethane	20.0	0.50	"	20.0	100	70-130
Trichloroethene	19.4	0.50	"	20.0	97	70-130
Trichlorofluoromethane	16.4	5.0	"	20.0	82	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	23.1	10	"	20.0	115	0-200
Vinyl chloride	16.7	0.50	"	20.0	84	60-140
Surrogate: 1,2-Dichloroethane-d4	8.20		"	10.0	82	66-135





# CALIFORNIA LABORATORY SERVICES

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07/19/18 16:55

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

## Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

### Batch 1804837 - EPA 5030 Water MS

#### LCS (1804837-BS1)

Prepared & Analyzed: 06/11/18

Surrogate: Toluene-d8	10.1		µg/L	10.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	12.2		"	10.0		122	70-130			

#### LCS Dup (1804837-BS1)

Prepared & Analyzed: 06/11/18

Benzene	19.4	0.50	µg/L	20.0		97	70-130	0.7	30	
Carbon tetrachloride	21.4	0.50	"	20.0		107	70-130	7	30	
Chlorobenzene	19.7	0.50	"	20.0		98	70-130	0.6	30	
1,2-Dichlorobenzene	20.6	0.50	"	20.0		103	70-130	8	30	
1,4-Dichlorobenzene	21.1	0.50	"	20.0		105	70-130	8	30	
1,1-Dichloroethane	18.8	0.50	"	20.0		94	70-130	2	30	
1,2-Dichloroethane	17.2	0.50	"	20.0		86	70-130	5	30	
1,1-Dichloroethene	18.1	0.50	"	20.0		90	70-130	2	30	
cis-1,2-Dichloroethene	20.8	0.50	"	20.0		104	70-130	3	30	
trans-1,2-Dichloroethene	19.3	0.50	"	20.0		97	70-130	3	30	
1,2-Dichloropropane	19.4	0.50	"	20.0		97	70-130	0.7	30	
cis-1,3-Dichloropropene	21.2	0.50	"	20.0		106	70-130	1	30	
trans-1,3-Dichloropropene	19.6	0.50	"	20.0		98	70-130	1	30	
Ethylbenzene	19.6	0.50	"	20.0		98	70-130	3	30	
Methyl tert-butyl ether	18.0	3.0	"	20.0		90	0-200	7	200	
Methylene chloride	17.9	0.50	"	20.0		90	70-130	3	30	
Styrene	21.0	0.50	"	20.0		105	70-130	1	30	
1,1,2,2-Tetrachloroethane	22.9	0.50	"	20.0		114	70-130	2	30	
Tetrachloroethene	19.4	0.50	"	20.0		97	70-130	2	30	
Toluene	19.8	0.50	"	20.0		99	70-130	2	30	
1,2,4-Trichlorobenzene	23.6	0.50	"	20.0		118	70-130	5	30	
1,1,1-Trichloroethane	20.7	0.50	"	20.0		103	70-130	5	30	
1,1,2-Trichloroethane	20.0	0.50	"	20.0		100	70-130	0.3	30	
Trichloroethene	19.2	0.50	"	20.0		96	70-130	1	30	
Trichlorofluoromethane	19.1	5.0	"	20.0		96	70-130	15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	23.3	10	"	20.0		116	0-200	0.9	200	
Vinyl chloride	19.2	0.50	"	20.0		96	60-140	14	30	





## CALIFORNIA LABORATORY SERVICES

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07/19/18 16:55

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

CLS Work Order #: 18F0405  
COC #: 29380

### Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

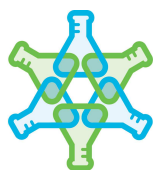
#### Batch 1804837 - EPA 5030 Water MS

##### LCS Dup (1804837-BSD1)

Prepared & Analyzed: 06/11/18

Surrogate: 1,2-Dichloroethane-d4	8.58		µg/L	10.0		86	66-135			
Surrogate: Toluene-d8	9.87		"	10.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	10.8		"	10.0		108	70-130			





## CALIFORNIA LABORATORY SERVICES

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07/19/18 16:55

Kleinfelder (Sacramento)  
2882 Prospect Park Dr. suite 200  
Rancho Cordova, CA 95742

Project: Riverview MHP  
Project Number: 20190044  
Project Manager: Joe Zilles

**CLS Work Order #: 18F0405**  
COC #: 29380

### Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
QB-2	The analyte was detected in the method blank or calibration verification blank. A re-analysis was not performed since all sample results for the analyte are ND.
HT-F	This is a field test method and it is performed in the lab outside holding time.
BT-1	Present
A-RES	-0.16
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



## SUBCONTRACT ORDER

18F0405

#091812111

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith  
Project: Riverview MHP

RECEIVING LABORATORY:

EMSL Analytical  
464 McCormick Street  
San Leandro, CA 94577  
Phone: (510) 895-3675  
Fax: (510) 895-3680

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Asbestos-Water SUB	10	06/22/18 12:00	06/09/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

Sampler:

6.6°

Containers Supplied:

1L Amber- Unpres. (B)

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 1 of 7





# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577  
Phone/Fax: (510) 895-3675 / (510) 895-3680  
<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order ID: 091812111  
Customer ID: CALI52  
Customer PO: 18F0405  
Project ID:

**Attn:** Mark Smith  
California Laboratory Services  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Phone: (916) 638-7301  
Fax: (916) 638-4510  
Collected: 06/07/2018  
Received: 06/08/2018  
Analyzed: 06/21/2018

**Proj:** 18F0405 - KB-01-133

## Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm <sup>2</sup> )	Area Analyzed (mm <sup>2</sup> )	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration MFL (million fibers per liter)	Confidence Limits
KB-01-133 091812111-0001	6/8/2018 04:38 PM	50	1312	0.1220	None Detected	ND	0.22	<0.22	0.00 - 0.79

Analyst(s)

Rui Cindy Geng (1)

Matthew Batongbacal  
or Other Approved Signatory

Any questions please contact Matthew Batongbacal.

Initial report from: 06/21/2018 09:25:27

Sample collection and containers provided by the client, acceptable bottle blank level is defined as  $\leq 0.01$  MFL > 10µm. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. This report relates only to those items tested. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA CA ELAP 1620, HI reciprocity, ID CA 01477, WA C884



750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)



AT-1807

## Laboratory Report

for

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attention: CLS Data Reporting

Date of Issue  
06/30/2018

  
EUROFINS EATON  
ANALYTICAL, LLC

LXG: Linda Geddes  
Project Manager

Report: 743612  
Project: ORGANICS  
Group: 500 Series



Utah ELCP CA00006

\* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

\* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

\* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

\* Test results relate only to the sample(s) tested.



## STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Arizona	AZ0778	Montana	Cert 0035
Arkansas	Certified	Nebraska	Certified
California-Monrovia-ELAP	2813	Nevada	CA000062018
California-Colton- ELAP	2812	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-17-13
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

\* NELAP/TNI Recognized Accreditation Bodies



ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cryptosporidium	EPA 1623	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli (MTF/EC+MUG)		x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environmental (Drinking Water)	Environmental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
NDMA	EPA 521	x		x
NDMA	TQ In house method based on EPA 521 (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Semi-VOC	EPA 625		x	x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S <sup>-</sup> D		x	
Sulfite	SM 4500-SO <sup>3</sup> B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x		x
VOC	EPA 624		x	x
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x



## Acknowledgement of Samples Received

Addr: **CLS Labs**  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Attn: CLS Data Reporting  
Phone:

Client ID: CLSLABS  
Folder #: 743612  
Project: ORGANICS  
Sample Group: 500 Series

Project Manager: Linda Geddes  
Phone: (626) 386-1163  
PO #: 18F0405

The following samples were received from you on **June 12, 2018 at 1852**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date									
<u>201806130004</u>	KB-01-133	06/07/2018 0950									
Variable ID: 18F0405-01											
<table border="1"> <tr> <td>@DIQUAT</td><td>@ML515.4</td><td>@ML525</td></tr> <tr> <td>@ML531.2</td><td>2,3,7,8-TCDD</td><td>Endothall</td></tr> <tr> <td>Glyphosate</td><td></td><td></td></tr> </table>			@DIQUAT	@ML515.4	@ML525	@ML531.2	2,3,7,8-TCDD	Endothall	Glyphosate		
@DIQUAT	@ML515.4	@ML525									
@ML531.2	2,3,7,8-TCDD	Endothall									
Glyphosate											

### Test Description

@DIQUAT -- Diquat and Paraquat

@ML515.4 -- Chlorophenoxy Herbicides

@ML525 -- Semivolatiles by GCMS

@ML531.2 -- Aldicarbs



## SUBCONTRACT ORDER

18F0405

743602

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Dioxin 1613 SUB	10	06/25/18 12:00	06/07/19 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

2,137.8 - TCDD

TURBIDITY = 5.30 NTU

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

549.2 Diquat SUB	10	06/25/18 12:00	06/14/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
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Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

548.1 Endothall SUB	10	06/25/18 12:00	06/14/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
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Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 3 of 7



## SUBCONTRACT ORDER

18F0405

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
547 Glyphosate SUB	10	06/25/18 12:00	06/21/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133

Sampler:

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

531.2 Carbamates (SUB)	10	06/25/18 12:00	06/21/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
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Client sample ID: KB-01-133

Sampler:

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

525.2 Semivolatiles (Sub)	10	06/25/18 12:00	06/14/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
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Client sample ID: KB-01-133

Sampler:

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 4 of 7



## SUBCONTRACT ORDER

18F0405

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
515.1 Herbicides (SUB)	10	06/25/18 12:00	06/21/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133

Sampler:

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

## Containers Supplied:

1L Amber - SO3/HCL (E) 1L Amber - SO3/HCL (F) 1L Amber Poly - Na Thio 1L Amber- Unpres. (P) 250 ML AMBER - Na2S2

125 ml. Amber Glass - Na 40 ml Amber VOA - NH4 40 ml Amber VOA - NH4 60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

60 ml. Vial - Sodium Sulfi 60 ml. Vial - Sodium Sulfi

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 5 of 7



## Subcontract Sample Receipt Checklist

CLS Work Order Number: 18F0405

### Chain of Custody (COC) Information

Carrier Name <u>ups</u>	Yes	<input checked="" type="checkbox"/>	No	
Chain of custody present?	Yes	<input checked="" type="checkbox"/>	No	
Chain of custody signed when relinquished and received?	Yes	<input checked="" type="checkbox"/>	No	
Chain of custody agrees with sample labels?	Yes	<input checked="" type="checkbox"/>	Non-Compliant	

### Sample Receipt Information

Shipping container/cooler in good condition?	Yes	<input checked="" type="checkbox"/>	No	Not Present	<input type="checkbox"/>
Samples in proper container/bottle?	Yes	<input checked="" type="checkbox"/>	Non-Compliant		
Sample containers intact?	Yes	<input checked="" type="checkbox"/>	No		
Sufficient sample volume for indicated test?	Yes	<input checked="" type="checkbox"/>	No		

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	<input checked="" type="checkbox"/>	No	
Temperature upon receipt: <u>45</u> C				
Wet Ice present in Cooler?	Yes	<input checked="" type="checkbox"/>	No	
Blue Ice present in Cooler?	Yes	<input checked="" type="checkbox"/>	No	

### Analytical Requirement Information

Are non-Standard of Modified methods requested?	Yes	<input type="checkbox"/>	No	
Subcontract Lab CERTIFIED for the various methods requested?	Yes	<input type="checkbox"/>	No	
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes	<input type="checkbox"/>	No	

### Subcontract Lab Information

Work Order Number assigned by Subcontract Lab \_\_\_\_\_

Date received at Subcontract Lab \_\_\_\_\_

If any items are check marked NO or are non-compliant, a phone call back to California Laboratory Services is required immediately. If all items are acceptable, a faxed copy of the signed sub chain of custody (COC) and the completed sample receipt check list is required within 24 hours of sample receipt.



## SUBCONTRACT ORDER

18F0405

41

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith  
[Redacted]

RECEIVING LABORATORY:

Eurofins Eaton Analytical, Inc.  
P.O. Box 12425  
Lancaster, PA 17605  
Phone :-  
Fax: -

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
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TRK# 122A849X139675 6259

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 2 of 7



To All Subcontract Labs:  
(Effective 1/14/13)

Please provide PDF of Final Results  
and Invoices to:

[dataroom@californialab.com](mailto:dataroom@californialab.com)

Please send Hard Copies + Invoices  
to:

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attn: Data Room



# CHAIN OF CUSTODY RECORD

## SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

Observation = 4.7 °C (Corr.Factor -0.2 °C) (Final = 4.5 °C)

CONDITION OF ICE: Frozen ☒ Partially Frozen ☐ Thawed ☐ N/A ☐

eurolins Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other G80

## Acceptance Criteria:

- Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation = _____ °C) (Corr.Factor = _____ °C) (Final = _____ °C)	2 = (Observation = _____ °C) (Corr.Factor = _____ °C) (Final = _____ °C)
3 = (Observation = _____ °C) (Corr.Factor = _____ °C) (Final = _____ °C)	4 = (Observation = _____ °C) (Corr.Factor = _____ °C) (Final = _____ °C)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

5) pH Check. Manufacturer: \_\_\_\_\_ Lot Number: \_\_\_\_\_ pH strip type: 0 - 14 or \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

6) Chlorine check. Manufacturer: Sansafe. Lot No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_ Results: \_\_\_\_\_

7) VOA Headspace: ☐ No Samples with Headspace: ☐ Samples with Headspace (see below): ☐

Headspace Documentation (use additional VOC Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 515.4, HAA(6251,552), 505, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: None/<6 mm

Samp ID	Bottle #	None/<6 mm	>6mm	Samp ID	Bottle #	None/<6 mm	>6mm

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors):

RECEIVED BY: <u>[Signature]</u>	SIGNATURE: <u>[Signature]</u>	PRINT NAME: <u>Mod Tobi</u>	COMPANY/TITLE: <u>Eurolins Eaton Analytical</u>	DATE: <u>6/13/18</u>	TIME: <u>18:53</u>
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Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

## Laboratory Comments

**Report:** 743612  
**Project:** ORGANICS  
**Group:** 500 Series

CLS Labs  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

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**Folder Comments**

Analytical Results for Dioxins/Furans by 1613B are submitted by Eurofins Lancaster Laboratories AZCERT AZ0780 exp 3-12-2019, CAELAP 2792 exp 1-31-2019

(525.2) The third internal standard and surrogate failed low due to matrix interference. Associated compounds are flagged E6,S7 due to these failures.

L. Geddes 6/30/18

**Flags Legend:**

E6 - Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

S7 - Surrogate recovery was below laboratory and method acceptance limits. Unable to confirm matrix effect.



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1 800 566 LABS (1 800 566 5227)

## Laboratory Hits

**Report:** 743612  
**Project:** ORGANICS  
**Group:** 500 Series

**CLS Labs**  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/12/2018 1852

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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**SUMMARY OF POSITIVE DATA ONLY**



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

Report: 743612  
Project: ORGANICS  
Group: 500 Series

**CLS Labs**  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/12/2018 1852

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>KB-01-133 (201806130004)</b>						<b>Sampled on 06/07/2018 0950</b>			
Variable ID: 18F0405-01									
<b>EPA 515.4 - Chlorophenoxy Herbicides</b>									
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Dalapon	ND	ug/L	1	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	96	%		1
06/21/18	06/22/18 07:55	1100017	1100634	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	101	%		1
<b>EPA 525.2 - Semivolatiles by GCMS</b>									
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Aldrin	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Benzo(a)pyrene	ND (E6,S7)	ug/L	0.02	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Benzo(b)Fluoranthene	ND (E6,S7)	ug/L	0.02	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Benzo(g,h,i)Perylene	ND (LK,E6,S7)	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Benzo(k)Fluoranthene	ND (E6,S7)	ug/L	0.02	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Chrysene	ND (E6,S7)	ug/L	0.02	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1

Rounding on totals after summation.  
(c) - indicates calculated results



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 743612  
Project: ORGANICS  
Group: 500 Series

**CLS Labs**  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/12/2018 1852

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND (E6,S7)	ug/L	0.6	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (E6,S7)	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Dimethoate	ND (LE)	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Endrin	ND (LE)	ug/L	0.2	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Heptachlor	ND (LE)	ug/L	0.04	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND (E6,S7)	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Methoxychlor	ND (E6,S7)	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Metribuzin	ND (LE)	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	97	%		1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Acenaphthene-d10	53	%		1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Chrysene-d12	41	%		1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Perylene-d12	43	%		1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Phenanthrene-d10	55	%		1
06/19/18	06/27/18 19:39	1099329	1101778	(EPA 525.2)	Triphenylphosphate	119	%		1
<b>EPA 548.1 - Endothall</b>									
06/13/18	06/15/18 13:44	1098029	1098688	(EPA 548.1)	Endothall	ND	ug/L	20	4

Rounding on totals after summation.  
(c) - indicates calculated results



Tel: (626) 386-1100  
Fax: (866) 988-3757  
1 800 566 LABS (1 800 566 5227)

Report: 743612  
Project: ORGANICS  
Group: 500 Series

**CLS Labs**  
CLS Data Reporting  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742

Samples Received on:  
06/12/2018 1852

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<b>EPA 547 - Glyphosate</b>									
	06/15/18 0:04		1097955	(EPA 547)	Glyphosate	ND	ug/L	6	1
<b>EPA 531.2 - Aldicarbs</b>									
	06/13/18 19:13		1097991	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	06/13/18 19:13		1097991	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	103	%		1
<b>EPA 549.2 - Diquat and Paraquat</b>									
06/13/18	06/13/18 21:45	1097748	1098019	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
06/13/18	06/13/18 21:45	1097748	1098019	(EPA 549.2)	Paraquat	ND	ug/L	2	1
<b>EPA 1613B - 2,3,7,8-TCDD</b>									
06/18/18	06/18/18 23:07			(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5.3	1



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## Laboratory QC Summary

**Report:** 743612  
**Project:** ORGANICS  
**Group:** 500 Series

CLS Labs

### Glyphosate

**Analytical Batch: 1097955**

201806130004 KB-01-133

**Analysis Date: 06/15/2018**

Analyzed by: XWO

### Aldicarb

**Analytical Batch: 1097991**

201806130004 KB-01-133

**Analysis Date: 06/13/2018**

Analyzed by: XWO

### Diquat and Paraquat

**Prep Batch: 1097748 Analytical Batch: 1098019**

201806130004 KB-01-133

**Analysis Date: 06/13/2018**

Analyzed by: XWO

### Endothall

**Prep Batch: 1098029 Analytical Batch: 1098688**

201806130004 KB-01-133

**Analysis Date: 06/15/2018**

Analyzed by: QMN6

### Chlorophenoxy Herbicides

**Prep Batch: 1100017 Analytical Batch: 1100634**

201806130004 KB-01-133

**Analysis Date: 06/22/2018**

Analyzed by: A4H

### Semivolatiles by GCMS

**Prep Batch: 1099329 Analytical Batch: 1101778**

201806130004 KB-01-133

**Analysis Date: 06/27/2018**

Analyzed by: JWC



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Report: 743612  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>Glyphosate by EPA 547</b>									
<b>Analytical Batch: 1097955</b>					<b>Analysis Date: 06/14/2018</b>				
CCCH	Glyphosate		25	22.6	ug/L	90	(80-120)		
CCCM	Glyphosate		10	9.14	ug/L	91	(80-120)		
LCS1	Glyphosate		10	9.96	ug/L	100	(70-130)		
MBLK	Glyphosate			<3	ug/L				
MRL_CHK	Glyphosate		6	6.72	ug/L	112	(50-150)		
MS_201806110182	Glyphosate	ND	10	9.89	ug/L	99	(70-130)		
MS2_201806110167	Glyphosate	ND	10	10.0	ug/L	99	(70-130)		
MSD_201806110182	Glyphosate	ND	10	9.95	ug/L	100	(70-130)	20	0.59
<b>Aldicarbs by EPA 531.2</b>									
<b>Analytical Batch: 1097991</b>					<b>Analysis Date: 06/13/2018</b>				
CCCH	3-Hydroxycarbofuran		25	25.0	ug/L	100	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.3	ug/L	103	(70-130)		
LCS2	3-Hydroxycarbofuran		5	5.14	ug/L	103	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.167	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.524	ug/L	105	(50-150)		
MS1_201806110167	3-Hydroxycarbofuran	ND	5	5.37	ug/L	107	(70-130)		
MSD1_201806110167	3-Hydroxycarbofuran	ND	5	5.39	ug/L	108	(70-130)	20	0.38
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			97.6	%	98	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			94.0	%	94	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			101	%	101	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			106	%	107	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			97.2	%	97	(70-130)		
MS1_201806110167	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			96.4	%	96	(70-130)		
MSD1_201806110167	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (I)			100	%	100	(70-130)		
CCCH	Aldicarb (Temik)		25	22.2	ug/L	89	(70-130)		
CCCM	Aldicarb (Temik)		10	9.37	ug/L	94	(70-130)		
LCS2	Aldicarb (Temik)		5	4.72	ug/L	95	(70-130)		
MBLK	Aldicarb (Temik)			<0.167	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.385	ug/L	77	(50-150)		
MS1_201806110167	Aldicarb (Temik)	ND	5	5.33	ug/L	107	(70-130)		
MSD1_201806110167	Aldicarb (Temik)	ND	5	5.26	ug/L	105	(70-130)	20	1.4
CCCH	Aldicarb sulfone		25	24.5	ug/L	98	(70-130)		
CCCM	Aldicarb sulfone		10	10.1	ug/L	101	(70-130)		
LCS2	Aldicarb sulfone		5	5.46	ug/L	109	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Report: 743612  
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Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Aldicarb sulfone			<0.167	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.469	ug/L	94	(50-150)		
MS1_201806110167	Aldicarb sulfone	ND	5	5.30	ug/L	106	(70-130)		
MSD1_201806110167	Aldicarb sulfone	ND	5	5.34	ug/L	107	(70-130)	20	0.74
CCCH	Aldicarb sulfoxide		25	23.4	ug/L	94	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.81	ug/L	98	(70-130)		
LCS2	Aldicarb sulfoxide		5	4.38	ug/L	88	(70-130)		
MBLK	Aldicarb sulfoxide			<0.167	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.559	ug/L	112	(50-150)		
MS1_201806110167	Aldicarb sulfoxide	ND	5	5.29	ug/L	106	(70-130)		
MSD1_201806110167	Aldicarb sulfoxide	ND	5	5.26	ug/L	105	(70-130)	20	0.62
CCCH	Baygon		25	24.7	ug/L	99	(70-130)		
CCCM	Baygon		10	10.0	ug/L	100	(70-130)		
LCS2	Baygon		5	5.00	ug/L	100	(70-130)		
MBLK	Baygon			<0.167	ug/L				
MRL_CHK	Baygon		0.5	0.390	ug/L	78	(50-150)		
MS1_201806110167	Baygon	ND	5	5.41	ug/L	108	(70-130)		
MSD1_201806110167	Baygon	ND	5	5.34	ug/L	107	(70-130)	20	1.4
CCCH	Carbaryl		25	25.0	ug/L	100	(70-130)		
CCCM	Carbaryl		10	10.2	ug/L	102	(70-130)		
LCS2	Carbaryl		5	5.10	ug/L	102	(70-130)		
MBLK	Carbaryl			<0.167	ug/L				
MRL_CHK	Carbaryl		0.5	0.538	ug/L	108	(50-150)		
MS1_201806110167	Carbaryl	ND	5	5.16	ug/L	103	(70-130)		
MSD1_201806110167	Carbaryl	ND	5	5.27	ug/L	105	(70-130)	20	2.0
CCCH	Carbofuran (Furadan)		25	24.7	ug/L	99	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.3	ug/L	103	(70-130)		
LCS2	Carbofuran (Furadan)		5	5.32	ug/L	106	(70-130)		
MBLK	Carbofuran (Furadan)			<0.167	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.441	ug/L	88	(50-150)		
MS1_201806110167	Carbofuran (Furadan)	ND	5	5.12	ug/L	102	(70-130)		
MSD1_201806110167	Carbofuran (Furadan)	ND	5	5.26	ug/L	105	(70-130)	20	2.7
CCCH	Methiocarb		25	24.5	ug/L	98	(70-130)		
CCCM	Methiocarb		10	9.71	ug/L	97	(70-130)		
LCS2	Methiocarb		5	4.95	ug/L	99	(70-130)		
MBLK	Methiocarb			<0.167	ug/L				
MRL_CHK	Methiocarb		0.5	0.510	ug/L	102	(50-150)		
MS1_201806110167	Methiocarb	ND	5	4.76	ug/L	95	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Report: 743612  
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Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201806110167	Methiocarb	ND	5	5.14	ug/L	103	(70-130)	20	7.7
CCCH	Methomyl		25	22.7	ug/L	91	(70-130)		
CCCM	Methomyl		10	9.44	ug/L	94	(70-130)		
LCS2	Methomyl		5	4.53	ug/L	91	(70-130)		
MBLK	Methomyl			<0.167	ug/L				
MRL_CHK	Methomyl		0.5	0.519	ug/L	104	(50-150)		
MS1_201806110167	Methomyl	ND	5	5.36	ug/L	107	(70-130)		
MSD1_201806110167	Methomyl	ND	5	5.34	ug/L	107	(70-130)	20	0.33
CCCH	Oxamyl (Vydate)		25	24.2	ug/L	97	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.86	ug/L	99	(70-130)		
LCS2	Oxamyl (Vydate)		5	4.89	ug/L	98	(70-130)		
MBLK	Oxamyl (Vydate)			<0.167	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.442	ug/L	88	(50-150)		
MS1_201806110167	Oxamyl (Vydate)	ND	5	5.31	ug/L	106	(70-130)		
MSD1_201806110167	Oxamyl (Vydate)	ND	5	5.11	ug/L	102	(70-130)	20	3.8

## Diquat and Paraquat by EPA 549.2

Analytical Batch: 1098019

Analysis Date: 06/13/2018

CCCH	Diquat		10	10.3	ug/L	103	(80-120)		
CCCL	Diquat		0.4	0.401	ug/L	100	(50-150)		
CCCM	Diquat		4	4.10	ug/L	103	(80-120)		
LCS1	Diquat		5	4.14	ug/L	83	(70-130)		
MBLK	Diquat			<0.4	ug/L				
MRLLW	Diquat		0.4	0.385	ug/L	96	(50-150)		
MS_201806110168	Diquat	ND	5	3.96	ug/L	79	(70-130)		
MS2_201806110165	Diquat	ND	5	4.34	ug/L	87	(70-130)		
MSD_201806110168	Diquat	ND	5	3.85	ug/L	77	(70-130)	20	2.9
CCCH	Paraquat		10	11.4	ug/L	114	(80-120)		
CCCL	Paraquat		2	2.53	ug/L	126	(50-150)		
CCCM	Paraquat		4	4.76	ug/L	119	(80-120)		
LCS1	Paraquat		5	4.88	ug/L	98	(70-130)		
MBLK	Paraquat			<2	ug/L				
MRL_CHK	Paraquat		2	1.87	ug/L	93	(50-150)		
MS_201806110168	Paraquat	ND	5	4.71	ug/L	94	(70-130)		
MS2_201806110165	Paraquat	ND	5	5.23	ug/L	105	(70-130)		
MSD_201806110168	Paraquat	ND	5	4.78	ug/L	96	(70-130)	20	1.6

## Endothall by EPA 548.1

Prep Batch: 1098029 Analytical Batch: 1098688

Analysis Date: 06/15/2018

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Report: 743612  
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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Endothall		25	22.8	ug/L	91	(66-117)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5	5.83	ug/L	117	(50-150)		
MS_201806120383	Endothall	ND	25	23.9	ug/L	96	(66-117)		
MS_2ND_201805300107	Endothall	ND	25	23.3	ug/L	93	(66-117)		
MSD_201806120383	Endothall	ND	25	22.8	ug/L	91	(66-117)	30	4.6

## Chlorophenoxy Herbicides by EPA 515.4

Prep Batch: 1100017 Analytical Batch: 1100634

Analysis Date: 06/21/2018

CCC3	2,4,5-T		4	3.96	ug/L	99	(70-130)		
CCCH	2,4,5-T		4	4.00	ug/L	100	(70-130)		
CCCM	2,4,5-T		1	0.942	ug/L	94	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.257	ug/L	129	(50-150)		
MS1_201806150366	2,4,5-T	ND	3	3.06	ug/L	102	(70-130)		
MSD1_201806150366	2,4,5-T	ND	3	3.08	ug/L	103	(70-130)	30	0.81
CCC3	2,4,5-TP (Silvex)		4	3.87	ug/L	97	(70-130)		
CCCH	2,4,5-TP (Silvex)		4	3.93	ug/L	98	(70-130)		
CCCM	2,4,5-TP (Silvex)		1	0.920	ug/L	92	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.200	ug/L	100	(50-150)		
MS1_201806150366	2,4,5-TP (Silvex)	ND	3	2.81	ug/L	94	(70-130)		
MSD1_201806150366	2,4,5-TP (Silvex)	ND	3	2.55	ug/L	85	(70-130)	30	9.7
CCC3	2,4-D		2	2.02	ug/L	101	(70-130)		
CCCH	2,4-D		2	1.93	ug/L	97	(70-130)		
CCCM	2,4-D		0.5	0.488	ug/L	98	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.0781	ug/L	78	(50-150)		
MS1_201806150366	2,4-D	ND	1.5	1.55	ug/L	103	(70-130)		
MSD1_201806150366	2,4-D	ND	1.5	1.54	ug/L	103	(70-130)	30	0.61
CCC3	2,4-DB		40	39.7	ug/L	99	(70-130)		
CCCH	2,4-DB		40	40.5	ug/L	101	(70-130)		
CCCM	2,4-DB		10	9.36	ug/L	94	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2	1.56	ug/L	78	(50-150)		
MRLLW	2,4-DB		1	1.14	ug/L	114	(50-150)		
MS1_201806150366	2,4-DB	ND	30	29.0	ug/L	97	(70-130)		
MSD1_201806150366	2,4-DB	ND	30	28.1	ug/L	94	(70-130)	30	3.4

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCC3	2,4-Dichlorophenyl acetic acid (S)			92.1	%	92	(70-130)		
CCCH	2,4-Dichlorophenyl acetic acid (S)			91.5	%	92	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			92.4	%	92	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			106	%	106	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			94.0	%	94	(70-130)		
MRLWL	2,4-Dichlorophenyl acetic acid (S)			98.6	%	99	(70-130)		
MS1_201806150366	2,4-Dichlorophenyl acetic acid (S)			89.7	%	90	(70-130)		
MSD1_201806150366	2,4-Dichlorophenyl acetic acid (S)			93.6	%	94	(70-130)		
CCC3	3,5-Dichlorobenzoic acid		10	9.17	ug/L	92	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	9.57	ug/L	96	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.70	ug/L	108	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.711	ug/L	142	(50-150)		
MS1_201806150366	3,5-Dichlorobenzoic acid	ND	7.5	7.84	ug/L	105	(70-130)		
MSD1_201806150366	3,5-Dichlorobenzoic acid	ND	7.5	7.49	ug/L	100	(70-130)	30	4.5
CCC3	4,4-Dibromooctafluorobiphenyl (I)			99.2	%	99	(70-130)		
CCCH	4,4-Dibromooctafluorobiphenyl (I)			97.5	%	98	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			107	%	107	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			106	%	106	(50-150)		
MRLWL	4,4-Dibromooctafluorobiphenyl (I)			100	%	101	(50-150)		
MS1_201806150366	4,4-Dibromooctafluorobiphenyl (I)			105	%	105	(50-150)		
MSD1_201806150366	4,4-Dibromooctafluorobiphenyl (I)			106	%	106	(50-150)		
CCC3	Acifluorfen		4	4.07	ug/L	102	(70-130)		
CCCH	Acifluorfen		4	4.06	ug/L	102	(70-130)		
CCCM	Acifluorfen		1	1.08	ug/L	108	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.237	ug/L	118	(50-150)		
MS1_201806150366	Acifluorfen	ND	3	2.96	ug/L	99	(70-130)		
MSD1_201806150366	Acifluorfen	ND	3	2.86	ug/L	95	(70-130)	30	3.1
CCC3	Bentazon		10	9.18	ug/L	92	(70-130)		
CCCH	Bentazon		10	9.25	ug/L	93	(70-130)		
CCCM	Bentazon		2.5	2.76	ug/L	110	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.549	ug/L	110	(50-150)		
MS1_201806150366	Bentazon	ND	7.5	7.55	ug/L	97	(70-130)		
MSD1_201806150366	Bentazon	ND	7.5	7.69	ug/L	99	(70-130)	30	1.9
CCC3	Dalapon		20	19.8	ug/L	99	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

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1 800 566 LABS (1 800 566 5227)

Report: 743612  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Dalapon		20	20.2	ug/L	101	(70-130)		
CCCM	Dalapon		5	5.55	ug/L	111	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1	1.26	ug/L	126	(50-150)		
MS1_201806150366	Dalapon	ND	15	16.0	ug/L	107	(70-130)		
MSD1_201806150366	Dalapon	ND	15	16.2	ug/L	108	(70-130)	30	1.0
CCC3	Dicamba		2	1.92	ug/L	96	(70-130)		
CCCH	Dicamba		2	1.94	ug/L	97	(70-130)		
CCCM	Dicamba		0.5	0.488	ug/L	98	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.148	ug/L	149	(50-150)		
MS1_201806150366	Dicamba	ND	1.5	1.36	ug/L	91	(70-130)		
MSD1_201806150366	Dicamba	ND	1.5	1.30	ug/L	86	(70-130)	30	4.8
CCC3	Dichlorprop		10	9.41	ug/L	94	(70-130)		
CCCH	Dichlorprop		10	9.77	ug/L	98	(70-130)		
CCCM	Dichlorprop		2.5	2.41	ug/L	96	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.387	ug/L	77	(50-150)		
MS1_201806150366	Dichlorprop	ND	7.5	6.63	ug/L	88	(70-130)		
MSD1_201806150366	Dichlorprop	ND	7.5	6.44	ug/L	86	(70-130)	30	2.7
CCC3	Dinoseb		4	3.94	ug/L	99	(70-130)		
CCCH	Dinoseb		4	3.96	ug/L	99	(70-130)		
CCCM	Dinoseb		1	1.01	ug/L	101	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.180	ug/L	90	(50-150)		
MS1_201806150366	Dinoseb	ND	3	2.87	ug/L	96	(70-130)		
MSD1_201806150366	Dinoseb	ND	3	2.81	ug/L	94	(70-130)	30	2.3
CCC3	Pentachlorophenol		0.8	0.818	ug/L	102	(70-130)		
CCCH	Pentachlorophenol		0.8	0.792	ug/L	99	(70-130)		
CCCM	Pentachlorophenol		0.2	0.201	ug/L	101	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0404	ug/L	101	(50-150)		
MS1_201806150366	Pentachlorophenol	ND	0.6	0.558	ug/L	93	(70-130)		
MSD1_201806150366	Pentachlorophenol	ND	0.6	0.572	ug/L	95	(70-130)	30	2.5
CCC3	Picloram		2	1.86	ug/L	93	(70-130)		
CCCH	Picloram		2	1.86	ug/L	93	(70-130)		
CCCM	Picloram		0.5	0.542	ug/L	108	(70-130)		
MBLK	Picloram			<0.033	ug/L				

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Report: 743612  
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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Picloram		0.1	0.139	ug/L	139	(50-150)		
MS1_201806150366	Picloram	ND	1.5	1.59	ug/L	106	(70-130)		
MSD1_201806150366	Picloram	ND	1.5	1.58	ug/L	105	(70-130)	30	0.61
CCC3	Tot DCPA Mono&Diacid Degradate		2	2.05	ug/L	103	(70-130)		
CCCH	Tot DCPA Mono&Diacid Degradate		2	2.09	ug/L	105	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.545	ug/L	109	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.132	ug/L	132	(50-150)		
MS1_201806150366	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.48	ug/L	99	(70-130)		
MSD1_201806150366	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.42	ug/L	94	(70-130)	30	4.2

## Semivolatiles by GCMS by EPA 525.2

Prep Batch: 1099329 Analytical Batch: 1101556

Analysis Date: 06/27/2018

LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	96.8	%	97	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)		5	95.6	%	96	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			95.5	%	95	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	94.4	%	94	(70-130)		
MS_201806180078	1,3-Dimethyl-2-nitrobenzene (S)		5	97.0	%	97	(70-130)		
MSD_201806180078	1,3-Dimethyl-2-nitrobenzene (S)		5	101	%	101	(70-130)		
LCS1	2,4-Dinitrotoluene		2	2.20	ug/L	110	(70-130)		
LCS2	2,4-Dinitrotoluene		2	2.34	ug/L	117	(70-130)	20	6.2
MBLK	2,4-Dinitrotoluene			<0.1	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.118	ug/L	118	(50-150)		
MS_201806180078	2,4-Dinitrotoluene	ND	2	2.24	ug/L	112	(70-130)		
MSD_201806180078	2,4-Dinitrotoluene	ND	2	2.49	ug/L	124	(70-130)	20	10
LCS1	Acenaphthene-d10 (I)		5	57.1	%	57	(50-150)		
LCS2	Acenaphthene-d10 (I)		5	86.6	%	87	(50-150)		
MBLK	Acenaphthene-d10 (I)			68.6	%	69	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	69.7	%	70	(50-150)		
MS_201806180078	Acenaphthene-d10 (I)		5	69.8	%	70	(50-150)		
MSD_201806180078	Acenaphthene-d10 (I)		5	62.4	%	62	(50-150)		
LCS1	Acenaphthylene		2	1.63	ug/L	82	(70-130)		
LCS2	Acenaphthylene		2	1.81	ug/L	91	(70-130)	20	11
MBLK	Acenaphthylene			<0.1	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.111	ug/L	111	(50-150)		
MS_201806180078	Acenaphthylene	ND	2	1.66	ug/L	83	(70-130)		
MSD_201806180078	Acenaphthylene	ND	2	1.75	ug/L	88	(70-130)	20	5.2
LCS1	Alachlor		2	2.13	ug/L	106	(70-130)		

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Report: 743612  
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Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Alachlor		2	2.08	ug/L	104	(70-130)	20	2.4
MBLK	Alachlor			<0.05	ug/L				
MRL_CHK	Alachlor		0.05	0.0580	ug/L	116	(50-150)		
MS_201806180078	Alachlor	ND	2	2.06	ug/L	103	(70-130)		
MSD_201806180078	Alachlor	ND	2	2.05	ug/L	103	(70-130)	20	0.44
LCS1	Aldrin		2	1.73	ug/L	87	(70-130)		
LCS2	Aldrin		2	1.90	ug/L	95	(70-130)	20	9.4
MBLK	Aldrin			<0.05	ug/L				
MRL_CHK	Aldrin		0.05	0.0540	ug/L	108	(50-150)		
MS_201806180078	Aldrin		2	1.80	ug/L	90	(70-130)		
MSD_201806180078	Aldrin		2	1.84	ug/L	92	(70-130)	20	2.1
LCS1	alpha-Chlordane		2	2.00	ug/L	100	(70-130)		
LCS2	alpha-Chlordane		2	1.97	ug/L	98	(70-130)	20	1.5
MBLK	alpha-Chlordane			<0.05	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0450	ug/L	90	(50-150)		
MS_201806180078	alpha-Chlordane	ND	2	2.00	ug/L	100	(70-130)		
MSD_201806180078	alpha-Chlordane	ND	2	2.00	ug/L	100	(70-130)	20	0.15
LCS1	Anthracene		2	1.94	ug/L	97	(70-130)		
LCS2	Anthracene		2	1.93	ug/L	97	(70-130)	20	0.52
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0160	ug/L	80	(50-150)		
MS_201806180078	Anthracene	ND	2	1.96	ug/L	98	(70-130)		
MSD_201806180078	Anthracene	ND	2	2.00	ug/L	100	(70-130)	20	1.9
LCS1	Atrazine		2	2.34	ug/L	117	(70-130)		
LCS2	Atrazine		2	2.31	ug/L	116	(70-130)	20	1.3
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0480	ug/L	96	(50-150)		
MS_201806180078	Atrazine	ND	2	2.13	ug/L	106	(70-130)		
MSD_201806180078	Atrazine	ND	2	2.35	ug/L	118	(70-130)	20	9.9
LCS1	Benz(a)Anthracene		2	2.05	ug/L	102	(70-130)		
LCS2	Benz(a)Anthracene		2	2.13	ug/L	107	(70-130)	20	3.8
MBLK	Benz(a)Anthracene			<0.05	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0520	ug/L	104	(50-150)		
MS_201806180078	Benz(a)Anthracene	ND	2	2.07	ug/L	103	(70-130)		
MSD_201806180078	Benz(a)Anthracene	ND	2	2.11	ug/L	105	(70-130)	20	2.1
LCS1	Benzo(a)pyrene		2	2.09	ug/L	105	(70-130)		
LCS2	Benzo(a)pyrene		2	2.07	ug/L	103	(70-130)	20	0.96
MBLK	Benzo(a)pyrene			<0.02	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

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Report: 743612  
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Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Benzo(a)pyrene		0.02	0.0200	ug/L	100	(50-150)		
MS_201806180078	Benzo(a)pyrene	ND	2	2.10	ug/L	105	(70-130)		
MSD_201806180078	Benzo(a)pyrene	ND	2	2.08	ug/L	104	(70-130)	20	0.86
LCS1	Benzo(b)Fluoranthene		2	2.14	ug/L	107	(70-130)		
LCS2	Benzo(b)Fluoranthene		2	2.14	ug/L	107	(70-130)	20	0.0
MBLK	Benzo(b)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0180	ug/L	90	(50-150)		
MS_201806180078	Benzo(b)Fluoranthene	ND	2	2.25	ug/L	113	(70-130)		
MSD_201806180078	Benzo(b)Fluoranthene	ND	2	2.15	ug/L	107	(70-130)	20	4.5
LCS1	Benzo(g,h,i)Perylene		2	2.64	ug/L	<u>132</u>	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2	2.66	ug/L	<u>133</u>	(70-130)	20	0.76
MBLK	Benzo(g,h,i)Perylene			<0.05	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0730	ug/L	146	(50-150)		
MS_201806180078	Benzo(g,h,i)Perylene	ND	2	2.79	ug/L	<u>140</u>	(70-130)		
MSD_201806180078	Benzo(g,h,i)Perylene	ND	2	2.58	ug/L	129	(70-130)	20	7.9
LCS1	Benzo(k)Fluoranthene		2	2.20	ug/L	110	(70-130)		
LCS2	Benzo(k)Fluoranthene		2	2.24	ug/L	112	(70-130)	20	1.8
MBLK	Benzo(k)Fluoranthene			<0.02	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0140	ug/L	70	(50-150)		
MS_201806180078	Benzo(k)Fluoranthene	ND	2	2.03	ug/L	101	(70-130)		
MSD_201806180078	Benzo(k)Fluoranthene	ND	2	2.20	ug/L	110	(70-130)	20	8.2
LCS1	Bromacil		2	2.36	ug/L	118	(70-130)		
LCS2	Bromacil		2	2.52	ug/L	126	(70-130)	20	6.1
MBLK	Bromacil			<0.2	ug/L				
MRL_CHK	Bromacil		0.1	0.0970	ug/L	97	(50-150)		
MS_201806180078	Bromacil	ND	2	2.30	ug/L	115	(70-130)		
MSD_201806180078	Bromacil	ND	2	2.46	ug/L	123	(70-130)	20	6.6
LCS1	Butachlor		2	2.27	ug/L	113	(70-130)		
LCS2	Butachlor		2	2.32	ug/L	116	(70-130)	20	2.2
MBLK	Butachlor			<0.05	ug/L				
MRL_CHK	Butachlor		0.05	0.0700	ug/L	140	(50-150)		
MS_201806180078	Butachlor	ND	2	2.37	ug/L	119	(70-130)		
MSD_201806180078	Butachlor	ND	2	2.46	ug/L	123	(70-130)	20	3.6
LCS1	Butylbenzylphthalate		2	2.26	ug/L	113	(70-130)		
LCS2	Butylbenzylphthalate		2	2.49	ug/L	124	(70-130)	20	9.7
MBLK	Butylbenzylphthalate			<0.5	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.171	ug/L	114	(50-150)		
MS_201806180078	Butylbenzylphthalate	ND	2	2.23	ug/L	112	(70-130)		

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201806180078	Butylbenzylphthalate	ND	2	2.40	ug/L	120	(70-130)	20	7.3
LCS1	Caffeine by method 525mod		2	1.91	ug/L	95	(45-137)		
LCS2	Caffeine by method 525mod		2	1.82	ug/L	91	(45-137)	20	4.8
MBLK	Caffeine by method 525mod			<0.05	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0430	ug/L	86	(50-150)		
MS_201806180078	Caffeine by method 525mod	ND	2	1.83	ug/L	92	(46-144)		
MSD_201806180078	Caffeine by method 525mod	ND	2	1.90	ug/L	95	(46-144)	20	3.6
LCS1	Chrysene		2	2.02	ug/L	101	(70-130)		
LCS2	Chrysene		2	1.96	ug/L	98	(70-130)	20	3.0
MBLK	Chrysene			<0.02	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_201806180078	Chrysene	ND	2	1.99	ug/L	100	(70-130)		
MSD_201806180078	Chrysene	ND	2	2.04	ug/L	102	(70-130)	20	2.3
LCS1	Chrysene-d12 (I)		5	64.3	%	64	(50-150)		
LCS2	Chrysene-d12 (I)		5	102	%	102	(50-150)		
MBLK	Chrysene-d12 (I)			69.1	%	69	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	73.6	%	74	(50-150)		
MS_201806180078	Chrysene-d12 (I)		5	78.1	%	78	(50-150)		
MSD_201806180078	Chrysene-d12 (I)		5	72.7	%	73	(50-150)		
LCS1	Di-(2-Ethylhexyl)adipate		2	2.34	ug/L	117	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.54	ug/L	127	(70-130)	20	8.2
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.316	ug/L	105	(50-150)		
MS_201806180078	Di-(2-Ethylhexyl)adipate	ND	2	2.33	ug/L	117	(70-130)		
MSD_201806180078	Di-(2-Ethylhexyl)adipate	ND	2	2.51	ug/L	126	(70-130)	20	7.4
LCS1	Di(2-Ethylhexyl)phthalate		2	2.28	ug/L	114	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.26	ug/L	113	(70-130)	20	0.88
MBLK	Di(2-Ethylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.690	ug/L	115	(50-150)		
MS_201806180078	Di(2-Ethylhexyl)phthalate	ND	2	2.23	ug/L	111	(70-130)		
MSD_201806180078	Di(2-Ethylhexyl)phthalate	ND	2	2.44	ug/L	122	(70-130)	20	9.1
LCS1	Diazinon (Qualitative)		2	0.582	ug/L	29	(15-132)		
LCS2	Diazinon (Qualitative)		2	0.606	ug/L	30	(15-132)	20	4.0
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0310	ug/L	31	(15-132)		
MS_201806180078	Diazinon (Qualitative)	ND	2	0.656	ug/L	33	(15-132)		
MSD_201806180078	Diazinon (Qualitative)	ND	2	0.663	ug/L	33	(15-132)	20	1.1
LCS1	Dibenz(a,h)Anthracene		2	2.28	ug/L	114	(70-130)		

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dibenz(a,h)Anthracene		2	2.30	ug/L	115	(70-130)	20	0.87
MBLK	Dibenz(a,h)Anthracene			<0.05	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0700	ug/L	140	(50-150)		
MS_201806180078	Dibenz(a,h)Anthracene	ND	2	2.28	ug/L	114	(70-130)		
MSD_201806180078	Dibenz(a,h)Anthracene	ND	2	2.26	ug/L	113	(70-130)	20	1.1
LCS1	Dieldrin		2	2.10	ug/L	105	(70-130)		
LCS2	Dieldrin		2	2.13	ug/L	107	(70-130)	20	1.4
MBLK	Dieldrin			<0.2	ug/L				
MRL_CHK	Dieldrin		0.1	0.142	ug/L	142	(50-150)		
MS_201806180078	Dieldrin	ND	2	2.10	ug/L	105	(70-130)		
MSD_201806180078	Dieldrin	ND	2	2.23	ug/L	112	(70-130)	20	6.0
LCS1	Diethylphthalate		2	2.27	ug/L	113	(70-130)		
LCS2	Diethylphthalate		2	2.23	ug/L	112	(70-130)	20	1.8
MBLK	Diethylphthalate			<0.5	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.192	ug/L	128	(50-150)		
MS_201806180078	Diethylphthalate	ND	2	2.19	ug/L	109	(70-130)		
MSD_201806180078	Diethylphthalate	ND	2	2.31	ug/L	116	(70-130)	20	5.4
LCS1	Dimethoate		2	1.93	ug/L	96	(35-100)		
LCS2	Dimethoate		2	1.80	ug/L	90	(35-100)	20	7.0
MBLK	Dimethoate			<0.1	ug/L				
MRL_CHK	Dimethoate		0.1	0.103	ug/L	<u>103</u>	(35-100)		
MS_201806180078	Dimethoate	ND	2	1.97	ug/L	98	(34-111)		
MSD_201806180078	Dimethoate	ND	2	2.15	ug/L	107	(34-111)	20	8.9
LCS1	Dimethylphthalate		2	2.20	ug/L	110	(70-130)		
LCS2	Dimethylphthalate		2	2.11	ug/L	106	(70-130)	20	4.2
MBLK	Dimethylphthalate			<0.5	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.298	ug/L	99	(50-150)		
MS_201806180078	Dimethylphthalate	ND	2	2.12	ug/L	106	(70-130)		
MSD_201806180078	Dimethylphthalate	ND	2	2.20	ug/L	110	(70-130)	20	3.7
LCS1	Di-n-Butylphthalate		4	4.49	ug/L	112	(70-130)		
LCS2	Di-n-Butylphthalate		4	4.56	ug/L	114	(70-130)	20	1.6
MBLK	Di-n-Butylphthalate			<1	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.383	ug/L	128	(50-150)		
MS_201806180078	Di-n-Butylphthalate	ND	4	4.51	ug/L	113	(70-130)		
MSD_201806180078	Di-n-Butylphthalate	ND	4	4.57	ug/L	114	(70-130)	20	1.2
LCS1	Endrin		2	2.21	ug/L	110	(70-130)		
LCS2	Endrin		2	2.58	ug/L	129	(70-130)	20	15
MBLK	Endrin			<0.1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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1 800 566 LABS (1 800 566 5227)

Report: 743612  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Endrin		0.1	0.177	ug/L	<u>177</u>	(50-150)		
MS_201806180078	Endrin	ND	2	2.25	ug/L	113	(70-130)		
MSD_201806180078	Endrin	ND	2	2.56	ug/L	128	(70-130)	20	13
LCS1	Fluoranthene		2	2.19	ug/L	109	(70-130)		
LCS2	Fluoranthene		2	2.19	ug/L	109	(70-130)	20	0.0
MBLK	Fluoranthene			<0.1	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0500	ug/L	100	(50-150)		
MS_201806180078	Fluoranthene	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806180078	Fluoranthene	ND	2	2.15	ug/L	107	(70-130)	20	0.37
LCS1	Fluorene		2	2.09	ug/L	104	(70-130)		
LCS2	Fluorene		2	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0520	ug/L	104	(50-150)		
MS_201806180078	Fluorene	ND	2	2.10	ug/L	105	(70-130)		
MSD_201806180078	Fluorene	ND	2	2.21	ug/L	110	(70-130)	20	5.3
LCS1	gamma-Chlordane		2	1.95	ug/L	98	(70-130)		
LCS2	gamma-Chlordane		2	1.95	ug/L	98	(70-130)	20	0.0
MBLK	gamma-Chlordane			<0.05	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0470	ug/L	94	(50-150)		
MS_201806180078	gamma-Chlordane	ND	2	2.00	ug/L	100	(70-130)		
MSD_201806180078	gamma-Chlordane	ND	2	2.06	ug/L	103	(70-130)	20	2.8
LCS1	Heptachlor		2	2.20	ug/L	110	(70-130)		
LCS2	Heptachlor		2	2.20	ug/L	110	(70-130)	20	0.0
MBLK	Heptachlor			<0.04	ug/L				
MRL_CHK	Heptachlor		0.04	0.0770	ug/L	<u>193</u>	(50-150)		
MS_201806180078	Heptachlor	ND	2	2.26	ug/L	113	(70-130)		
MSD_201806180078	Heptachlor	ND	2	2.20	ug/L	110	(70-130)	20	2.9
LCS1	Heptachlor Epoxide (isomer B)		2	2.10	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2	1.98	ug/L	99	(70-130)	20	5.9
MBLK	Heptachlor Epoxide (isomer B)			<0.05	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0730	ug/L	146	(50-150)		
MS_201806180078	Heptachlor Epoxide (isomer B)	ND	2	2.14	ug/L	107	(70-130)		
MSD_201806180078	Heptachlor Epoxide (isomer B)	ND	2	2.17	ug/L	108	(70-130)	20	1.6
LCS1	Hexachlorobenzene		2	2.01	ug/L	101	(70-130)		
LCS2	Hexachlorobenzene		2	1.97	ug/L	99	(70-130)	20	2.0
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0500	ug/L	100	(50-150)		
MS_201806180078	Hexachlorobenzene	ND	2	2.03	ug/L	102	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Report: 743612  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201806180078	Hexachlorobenzene	ND	2	2.10	ug/L	105	(70-130)	20	3.3
LCS1	Hexachlorocyclopentadiene		2	2.15	ug/L	107	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	2.12	ug/L	106	(70-130)	20	1.4
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0410	ug/L	82	(50-150)		
MS_201806180078	Hexachlorocyclopentadiene	ND	2	2.09	ug/L	105	(70-130)		
MSD_201806180078	Hexachlorocyclopentadiene	ND	2	2.09	ug/L	104	(70-130)	20	0.096
LCS1	Indeno(1,2,3,c,d)Pyrene		2	2.24	ug/L	112	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2	2.29	ug/L	114	(70-130)	20	2.2
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.05	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0530	ug/L	106	(50-150)		
MS_201806180078	Indeno(1,2,3,c,d)Pyrene	ND	2	2.28	ug/L	114	(70-130)		
MSD_201806180078	Indeno(1,2,3,c,d)Pyrene	ND	2	2.18	ug/L	109	(70-130)	20	4.7
LCS1	Isophorone		2	2.03	ug/L	102	(70-130)		
LCS2	Isophorone		2	1.99	ug/L	100	(70-130)	20	2.0
MBLK	Isophorone			<0.5	ug/L				
MRL_CHK	Isophorone		0.1	0.0890	ug/L	89	(50-150)		
MS_201806180078	Isophorone	ND	2	2.04	ug/L	102	(70-130)		
MSD_201806180078	Isophorone	ND	2	2.15	ug/L	108	(70-130)	20	5.1
LCS1	Lindane		2	2.41	ug/L	121	(70-130)		
LCS2	Lindane		2	2.22	ug/L	111	(70-130)	20	8.2
MBLK	Lindane			<0.04	ug/L				
MRL_CHK	Lindane		0.04	0.0560	ug/L	140	(50-150)		
MS_201806180078	Lindane	ND	2	2.36	ug/L	118	(70-130)		
MSD_201806180078	Lindane	ND	2	2.47	ug/L	123	(70-130)	20	4.3
LCS1	Methoxychlor		2	2.09	ug/L	105	(70-130)		
LCS2	Methoxychlor		2	2.10	ug/L	105	(70-130)	20	0.48
MBLK	Methoxychlor			<0.1	ug/L				
MRL_CHK	Methoxychlor		0.1	0.104	ug/L	104	(50-150)		
MS_201806180078	Methoxychlor	ND	2	2.15	ug/L	108	(70-130)		
MSD_201806180078	Methoxychlor	ND	2	2.20	ug/L	110	(70-130)	20	2.2
LCS1	Metolachlor		2	2.20	ug/L	110	(70-130)		
LCS2	Metolachlor		2	2.24	ug/L	112	(70-130)	20	1.4
MBLK	Metolachlor			<0.05	ug/L				
MRL_CHK	Metolachlor		0.05	0.0550	ug/L	110	(50-150)		
MS_201806180078	Metolachlor	ND	2	2.20	ug/L	110	(70-130)		
MSD_201806180078	Metolachlor	ND	2	2.24	ug/L	112	(70-130)	20	2.2
LCS1	Metribuzin		2	1.96	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Report: 743612  
Project: ORGANICS  
Group: 500 Series

## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Metribuzin		2	1.91	ug/L	95	(70-130)	20	2.6
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0850	ug/L	<u>170</u>	(50-150)		
MS_201806180078	Metribuzin	ND	2	1.90	ug/L	95	(70-130)		
MSD_201806180078	Metribuzin	ND	2	2.00	ug/L	100	(70-130)	20	5.0
LCS1	Molinate		2	2.24	ug/L	112	(70-130)		
LCS2	Molinate		2	2.20	ug/L	110	(70-130)	20	2.3
MBLK	Molinate			<0.1	ug/L				
MRL_CHK	Molinate		0.1	0.0960	ug/L	96	(50-150)		
MS_201806180078	Molinate	ND	2	2.25	ug/L	112	(70-130)		
MSD_201806180078	Molinate	ND	2	2.38	ug/L	119	(70-130)	20	5.8
LCS1	Perylene-d12 (S)		5	100	%	100	(70-130)		
LCS2	Perylene-d12 (S)		5	105	%	105	(70-130)		
MBLK	Perylene-d12 (S)			96.1	%	96	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	92.2	%	92	(70-130)		
MS_201806180078	Perylene-d12 (S)		5	103	%	103	(70-130)		
MSD_201806180078	Perylene-d12 (S)		5	102	%	102	(70-130)		
LCS1	Phenanthrene		2	2.03	ug/L	101	(70-130)		
LCS2	Phenanthrene		2	2.01	ug/L	100	(70-130)	20	0.99
MBLK	Phenanthrene			<0.04	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0180	ug/L	90	(50-150)		
MS_201806180078	Phenanthrene	ND	2	2.04	ug/L	102	(70-130)		
MSD_201806180078	Phenanthrene	ND	2	2.06	ug/L	103	(70-130)	20	1.2
LCS1	Phenanthrene-d10 (I)		5	60.4	%	60	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	92.5	%	93	(50-150)		
MBLK	Phenanthrene-d10 (I)			70.8	%	71	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	74.5	%	75	(50-150)		
MS_201806180078	Phenanthrene-d10 (I)		5	73.9	%	74	(50-150)		
MSD_201806180078	Phenanthrene-d10 (I)		5	68.9	%	69	(50-150)		
LCS1	Propachlor		2	2.02	ug/L	101	(70-130)		
LCS2	Propachlor		2	2.09	ug/L	105	(70-130)	20	3.4
MBLK	Propachlor			<0.05	ug/L				
MRL_CHK	Propachlor		0.05	0.0340	ug/L	68	(50-150)		
MS_201806180078	Propachlor	ND	2	2.17	ug/L	109	(70-130)		
MSD_201806180078	Propachlor	ND	2	2.30	ug/L	115	(70-130)	20	5.7
LCS1	Pyrene		2	2.14	ug/L	107	(70-130)		
LCS2	Pyrene		2	2.17	ug/L	109	(70-130)	20	1.4
MBLK	Pyrene			<0.05	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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## CLS Labs

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Pyrene		0.05	0.0490	ug/L	98	(50-150)		
MS_201806180078	Pyrene	ND	2	2.16	ug/L	108	(70-130)		
MSD_201806180078	Pyrene	ND	2	2.16	ug/L	108	(70-130)	20	0.14
LCS1	Simazine		2	2.22	ug/L	111	(70-130)		
LCS2	Simazine		2	2.20	ug/L	110	(70-130)	20	0.91
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0720	ug/L	144	(50-150)		
MS_201806180078	Simazine	ND	2	2.24	ug/L	112	(70-130)		
MSD_201806180078	Simazine	ND	2	2.51	ug/L	125	(70-130)	20	11
LCS1	Thiobencarb		2	2.36	ug/L	118	(70-130)		
LCS2	Thiobencarb		2	2.33	ug/L	116	(70-130)	20	1.3
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.100	ug/L	100	(50-150)		
MS_201806180078	Thiobencarb	ND	2	2.29	ug/L	115	(70-130)		
MSD_201806180078	Thiobencarb	ND	2	2.32	ug/L	116	(70-130)	20	1.2
LCS1	trans-Nonachlor		2	2.04	ug/L	102	(70-130)		
LCS2	trans-Nonachlor		2	1.95	ug/L	98	(70-130)	20	4.5
MBLK	trans-Nonachlor			<0.05	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0550	ug/L	110	(50-150)		
MS_201806180078	trans-Nonachlor	ND	2	1.97	ug/L	99	(70-130)		
MSD_201806180078	trans-Nonachlor	ND	2	2.07	ug/L	103	(70-130)	20	4.8
LCS1	Trifluralin		2	2.19	ug/L	109	(70-130)		
LCS2	Trifluralin		2	2.24	ug/L	112	(70-130)	20	2.3
MBLK	Trifluralin			<0.1	ug/L				
MRL_CHK	Trifluralin		0.1	0.0810	ug/L	81	(50-150)		
MS_201806180078	Trifluralin	ND	2	2.24	ug/L	112	(70-130)		
MSD_201806180078	Trifluralin	ND	2	2.35	ug/L	118	(70-130)	20	4.8
LCS1	Triphenylphosphate (S)		5	114	%	114	(70-130)		
LCS2	Triphenylphosphate (S)		5	117	%	117	(70-130)		
MBLK	Triphenylphosphate (S)			116	%	116	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	109	%	109	(70-130)		
MS_201806180078	Triphenylphosphate (S)		5	111	%	111	(70-130)		
MSD_201806180078	Triphenylphosphate (S)		5	110	%	110	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.





## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

Eurofins Eaton Analytical, Inc  
Suite 100  
750 Royal Oaks Drive  
Monrovia CA 91016

Report Date: June 24, 2018 12:12

**Project: 743612**

Account #: 14482  
Group Number: 1956071  
PO Number: 99-59417  
State of Sample Origin: CA

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Eurofins Eaton Analytical, Inc

Attn: EEAI Reports

Respectfully Submitted,



Hannah L. Collman  
Project Manager

(717) 556-7383





## SAMPLE INFORMATION

### Client Sample Description

KB-01-133 Potable Water

### Sample Collection

#### Date/Time

06/07/2018 09:50

### ELLE#

9663701

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



Project Name: 743612  
ELLE Group #: 1956071

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:**

No additional comments are necessary.



**Sample Description:** KB-01-133 Potable Water  
Folder# 743612 Sub PO# 99-59417 Job# 1000014

Eurofins Eaton Analytical, Inc  
ELLE Sample #: PW 9663701  
ELLE Group #: 1956071  
Matrix: Potable Water

**Project Name:** 743612

Submittal Date/Time: 06/16/2018 10:10  
Collection Date/Time: 06/07/2018 09:50

CAT No.	Analysis Name	CAS Number	Result	EDL*	MRL	Dilution Factor
	<b>Dioxins/Furans</b>	<b>EPA 1613B October 1994</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
12935	2378-TCDD	1746-01-6	N.D.	0.432	5.35	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164

## Dioxins/Furans Data Qualifiers:

B	Detected in Method Blank
U	Undetected
J	Estimated concentration between Estimated Detection Limit and Minimum Reporting Level
E	Exceeds calibration range
C	Confirmed quantitation on secondary GC column
Q	EMPC - Estimated Maximum Possible Concentration
F	Interference is present
S	Saturation of detection signal

## Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

## Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12935	2378-TCDD in Potable Water	EPA 1613B October 1994	1	18169001	06/18/2018 23:07	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B October 1994	1	18169001	06/18/2018 08:15	Alex L Barton	1

EDL = Estimated Detection Limit  
\*=This limit was used in the evaluation of the final result



## Quality Control Summary

Client Name: Eurofins Eaton Analytical, Inc  
Reported: 06/24/2018 12:12

Group Number: 1956071

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result pg/l	EDL** pg/l	MRL pg/l
Batch number: 18169001 2378-TCDD	Sample number(s): 9663701 N.D.	0.179	5.00

### OPR/OPRD

Analysis Name	OPR Spike Added pg/l	OPR Conc pg/l	OPRD Spike Added pg/l	OPRD Conc pg/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 18169001 2378-TCDD	Sample number(s): 9663701 2.00	2.95			147		67-158		

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 2378-TCDD in Potable Water  
Batch number: 18169001

	13C12-2378-TCDD
9663701	56
Blank	48
Limits:	25-164

	13C12-2378-TCDD
OPR	20
Limits:	20-175

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the MRL.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.





Eaton Analytical

**Ship To:**

**Eurofins Lancaster Laboratories**  
2425 New Holland Pike

**Lancaster, PA 17601**

Phone: 717-656-2300 Fax:

**Folder #:** 743612 **Report Due:** 06/25/2018 **Sub PO #:** 99-59417

14482 1950071 9663701

**Submittal Form & Purchase Order 99-59417**

**Date:** 6/15/2018

**\*REPORTING REQUIREMENTS:** Do Not Combine Reports with any other samples submitted under different Folder Numbers!  
Report & Invoice must have the Folder # 743612 Sub PO# 99-59417 and Job # 1000014

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.  
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator  
EMAIL TO: us20\_subcontract@eurofinsus.com  
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016  
Phone (626) 386-1165 Fax (626) 386-1122  
Invoices to: Eurofins Eaton Analytical, LLC

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: CALIFORNIA

**5 day rush**

**CLS project: reference the clients sample description in the report**  
**J flag results needed**



JLS **Client Sample ID for reference only** Analysis Requested **Sample** Date & Time Matrix PWS Systemcode PWSID

201806130004 KB-01-133

**Sample type:** 2,3,7,8-TCDD

**Sample Event:**

**Facility ID:** 2,3,7,8-TCDD

06/07/18 0950 DW

**Sample Point ID:** {CL\_SAMPLEPOINTID} **Static ID:**

EPA 1613B

Relinquished by: Paul Date: 6-15-18 Time: 1320

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: Chris Date: 6-16-18 Time: 1016

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras



Sample Administration  
Receipt Documentation Log

Doc Log ID: 219381

Group Number(s): 156071Client: Eurofins Eaton**Delivery and Receipt Information**

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>06/16/2018 10:10</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>3</u>
State/Province of Origin:	<u>CA</u>		

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace $\geq$ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Christopher Stief (12429) at 12:16 on 06/16/2018***Samples Chilled Details**

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	8013596-IR	3.3	IR	Wet	Y	Loose/Bag	N



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mg</b>	milligram(s)
<b>C</b>	degrees Celsius	<b>mL</b>	milliliter(s)
<b>cfu</b>	colony forming units	<b>MPN</b>	Most Probable Number
<b>CP Units</b>	cobalt-chloroplatinate units	<b>N.D.</b>	non-detect
<b>F</b>	degrees Fahrenheit	<b>ng</b>	nanogram(s)
<b>g</b>	gram(s)	<b>NTU</b>	nephelometric turbidity units
<b>IU</b>	International Units	<b>pg/L</b>	picogram/liter
<b>kg</b>	kilogram(s)	<b>RL</b>	Reporting Limit
<b>L</b>	liter(s)	<b>TNTC</b>	Too Numerous To Count
<b>lb.</b>	pound(s)	<b>µg</b>	microgram(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
<b>meq</b>	milliequivalents	<b>umhos/cm</b>	micromhos/cm
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.  
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.



July 19, 2018

**CLS Labs - Data Room**  
 3249 Fitzgerald Rd.  
 Rancho Cordova, CA 95742

Lab ID : SP 1807635  
 Customer : 2-19423

### Laboratory Report

**Introduction:** This report package contains total of 4 pages divided into 3 sections:

Case Narrative	(2 pages) : An overview of the work performed at FGL.
Sample Results	(1 page) : Results for each sample submitted.
Quality Control	(1 page) : Supporting Quality Control (QC) results.

### Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
KB-01-133	06/07/2018	06/12/2018	SP 1807635-001	W

**Sampling and Receipt Information:** All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived at 3 °C. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

**Quality Control:** All samples were prepared and analyzed according to the following tables:

### Radio QC

900.0	07/17/2018:210287 All analysis quality controls are within established criteria.
	07/16/2018:207878 All preparation quality controls are within established criteria.
903.0	06/28/2018:209299 All analysis quality controls are within established criteria.
	06/14/2018:206946 All preparation quality controls are within established criteria, except: The following note applies to Total Alpha Radium (226): 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
908.0	07/06/2018:209675 All analysis quality controls are within established criteria.
	06/27/2018:207537 All preparation quality controls are within established criteria.
Ra - 05	07/02/2018:209646 All analysis quality controls are within established criteria.

Amended Page 1 of 4

**Corporate Offices & Laboratory**  
 853 Corporation Street  
 Santa Paula, CA 93060  
 TEL: (805)392-2000  
 Env FAX: (805)825-4172 / Ag FAX: (805)392-2063  
 CA ELAP Certification No. 1573

**Office & Laboratory**  
 2500 Stagecoach Road  
 Stockton, CA 95215  
 TEL: (209)942-0182  
 FAX: (209)942-0423  
 CA ELAP Certification No. 1563

**Office & Laboratory**  
 563 E. Lindo Avenue  
 Chico, CA 95926  
 TEL: (530)343-5818  
 FAX: (530)343-3807  
 CA ELAP Certification No. 2670

**Office & Laboratory**  
 3442 Empresa Drive, Suite D  
 San Luis Obispo, CA 93401  
 TEL: (805)783-2840  
 FAX: (805)783-2912  
 CA ELAP Certification No. 2775

**Office & Laboratory**  
 9415 W. Goshen Avenue  
 Visalia, CA 93291  
 TEL: (559)734-9473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810



July 19, 2018

**CLS Labs - Data Room**

3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742

Description : KB-01-133  
Project : 18F0405

Lab ID : SP 1807635-001

Customer ID : 2-19423

Sampled On : June 7, 2018-09:50

Sampled By : Not Available

Received On : June 12, 2018-10:40

Matrix : Water

**Sample Result - Radio**

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
<b>Radio Chemistry</b>								
Gross Alpha	51.4 ± 5.77	1.85	pCi/L	15/5	900.0	07/16/18-16:28 2P1807878	900.0	07/17/18-17:39 2A1810287
Total Alpha Radium (226)	0.089 ± 0.083	0.322	pCi/L	3	903.0	06/14/18-19:00 2P1806946	903.0	06/28/18-15:05 2A1809299
Uranium	38.9 ± 5.01	0.470	pCi/L	20	908.0	06/27/18-20:45 2P1807537	908.0	07/06/18-12:27 2A1809675
Ra 228	0.244 ± 0.703	0.400	pCi/L	2	Ra - 05	06/23/18-15:30 2P1807001	Ra - 05	07/02/18-19:00 2A1809646

ND=Non-Detected. PQL=Practical Quantitation Limit. \* PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.  
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).  
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following  
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

**Drinking Water Compliance:**

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Amended Page 3 of 4

Corporate Offices & Laboratory  
853 Corporation Street  
Santa Paula, CA 93060  
TEL: (805)392-2000  
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063  
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Visalia, CA 93291  
TEL: (559)734-9473  
FAX: (559)734-8435  
CA ELAP Certification No. 2810



## SUBCONTRACT ORDER

18F0405

20 LB 16057635

SENDING LABORATORY:

CLS Labs  
3249 Fitzgerald Rd.  
Rancho Cordova, CA 95742  
Phone: 916-638-7301  
Fax: 916-638-4510  
Project Manager: Mark Smith

RECEIVING LABORATORY:

FGL Labs - Santa Paula  
853 Corporation Street  
Santa Paula, CA 93060  
Phone: (805) 392-2000  
Fax: (805) 525-4172

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Radium-228 (SUB)	10	06/25/18 12:00	07/07/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

**RUSH**Containers Supplied:

1L Poly - Unpres (I) 1L Poly - HNO3 (K) 1L Poly - HNO3 (L) 1L Poly - HNO3 (M)

Radium-226 (SUB)	10	06/25/18 12:00	07/07/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
------------------	----	----------------	----------------	------------	----------------	----------------	-------

Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

Containers Supplied:

1L Poly - Unpres (I) 1L Poly - HNO3 (K) 1L Poly - HNO3 (L) 1L Poly - HNO3 (M)

Gross alpha SUB	10	06/25/18 12:00	07/07/18 09:50	18F0405-01	06/07/18 09:50	06/07/18 16:57	Water
-----------------	----	----------------	----------------	------------	----------------	----------------	-------

Client sample ID: KB-01-133

Laboratory sample ID: 18F0405-01

Please use client sample ID on all reports

**RUSH**Containers Supplied:

1L Poly - Unpres (I) 1L Poly - HNO3 (K) 1L Poly - HNO3 (L) 1L Poly - HNO3 (M)

**UPS NEXT DAY AIR SAVER.**

TRACKING #: 12 2AB 49X 13 9059 6602

Relinquished By

Date

Received By

Date

Relinquished By

Date

Received By

Date

Shipped By

Airbill Number

Page 6 of 7



## SUBCONTRACT ORDER

**18F0405**

Analysis	TAT	Due	Expires	Laboratory ID	Sample Date	Received	Matrix
Uranium (SUB)	10	06/25/18 12:00	07/07/18 09:50	18F0405-02	06/07/18 09:50	06/07/18 16:57	Water

Client sample ID: KB-01-133-CWT

Laboratory sample ID: 18F0405-02

Please use client sample ID on all reports

Containers Supplied:

500 mL Poly HNO3 (A) 500 mL Poly HNO3 (B)

**RUSH****RUSH****RUSH**

Relinquished By	6/11/18	Date	Received By	Date
Relinquished By		Date	Received By	Date
Shipped By	UPS	13 9059 6602	Airbill Number	

Page 7 of 7



CLS Work Order Number: 19F0405.

Carrier Name <u>ups</u>	Yes	<input checked="" type="checkbox"/>	No
Chain of custody present?	Yes	<input checked="" type="checkbox"/>	No
Chain of custody signed when relinquished and received?	Yes	<input checked="" type="checkbox"/>	No
Chain of custody agrees with sample labels?	Yes	<input checked="" type="checkbox"/>	Non-Compliant

Shipping container/cooler in good condition?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No	Not Present <input type="checkbox"/>
Samples in proper container/bottle?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Non-Compliant	
Sample containers intact?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No	
Sufficient sample volume for indicated test?	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No	

All samples received within holding time? Yes ☒ No ☐

Temperature upon receipt: \_\_\_\_\_ C

Wet Ice present in Cooler? Yes ☒ No ☐

Blue Ice present in Cooler? Yes ☒ No ☐

Are non-Standard or Modified methods requested?	Yes	<input type="checkbox"/>	<input type="checkbox"/>	No
Subcontract Lab CERTIFIED for the various methods requested?	Yes	<input type="checkbox"/>	<input type="checkbox"/>	No
Will Subcontract Lab be able to meet the turn-around time (TAT) requirements?	Yes	<input type="checkbox"/>	<input type="checkbox"/>	No

## Date received at Subcontract Lab \_\_\_\_\_

California Laboratory Services 3249 Fitzgerald Road Rancho Cordova, CA 95742 Phone (916) 638-7301 Fax (916) 638-4510



To All Subcontract Labs:  
(Effective 1/14/13)

Please provide PDF of Final Results  
and Invoices to:

[dataroom@californialab.com](mailto:dataroom@californialab.com)

Please send Hard Copies + Invoices  
to:

CLS Labs  
3249 Fitzgerald Road  
Rancho Cordova, CA 95742  
Attn: Data Room



### Condition Upon Receipt (Attach to COC)

#### Sample Receipt at SP:

1. Number of ice chests/packages received: 1
2. Shipper tracking numbers 1Z2A849X1390596602
3. Were samples received in a chilled condition?  
Temps: 3 /      /      /      /      /      /
4. Surface water (SWTR) bact samples: A sample that has a temperature upon receipt of >10C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
5. Do the number of bottles received agree with the COC? ☒ Yes ☐ No ☐ N/A
6. Verify sample date, time, sampler ☒ Yes ☐ No ☐ N/A
7. Were the samples received intact? (i.e. no broken bottles, leaks, etc.) ☒ Yes ☐ No
8. Were sample custody seals intact? ☐ Yes ☐ No ☐ N/A

#### Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? ☒ Yes ☐ No
2. Did bottle labels correspond with the client's ID's? ☒ Yes ☐ No
3. Were all bottles requiring sample preservation properly preserved? ☒ Yes ☐ No ☐ N/A FGL  
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? ☒ Yes ☐ No ☐ N/A
5. Were all analyses within holding times at time of receipt? ☒ Yes ☐ No
6. Have rush or project due dates been checked and accepted? ☒ Yes ☐ No ☐ N/A

Include a copy of the COC for lab delivery. (Bacti. Inorganics and Radio)

Sample Receipt, Login and Verification completed by:

Reviewed and  
Approved By

**Inez Covarrubias**



Digitally signed by Inez Covarrubias  
Title: Sample Receiving  
Date: 06/12/2018-11:55:37

#### Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

2. Person Contacted: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Initiated By: \_\_\_\_\_ Date: \_\_\_\_\_  
Problem: \_\_\_\_\_

Resolution: \_\_\_\_\_

(2019423)  
CLS Labs  
**SP 1807635**  
IV-06/12/2018-11:55:37











ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do Not Fill In  
N<sup>o</sup> 89332  
State Well No. 3/10-35  
Other Well No. \_\_\_\_\_

<b>(1) OWNER:</b> Name _____ Address _____					<b>(11) WELL LOG:</b> Permit- #55 Total depth <u>137</u> ft. Depth of completed well <u>134</u> ft. Formation: Describe by color, character, size of material, and structure ft. to _____ ft. <b>Log</b> <u>0-3 Hard pan</u> <u>3-5 Sand</u> <u>5-10 Shale</u> <u>10-28 Sand-coarse</u> <u>28-44 Clay</u> <u>44-47 Sand &amp; Gravel</u> <u>47-58 Clay</u> <u>58-60 Sand &amp; Gravel</u> <u>60-67 Shale</u> <u>67-78 Clay</u> <u>78-101 Sand-coarse</u> <u>101-110 Sand &amp; Gravel</u> <u>110-132 Gravel &amp; Rock</u> <u>132-135 Clay &amp; Shale</u> <u>135-137 Sand</u>																																
<b>(2) LOCATION OF WELL:</b> County <u>Stanislaus</u> Owner's number, if any _____ Township, Range, and Section <u>T3S R10E S 35</u> Distance from cities, roads, railroads, etc. <u>Jantzen &amp; Geer Rds.</u> <u>Jantzen Rd-East of Geer Rd-South side</u>																																					
<b>(3) TYPE OF WORK (check):</b> New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Reconditioning <input type="checkbox"/> Destroying <input type="checkbox"/> If destruction, describe material and procedure in Item 11.					<b>(5) EQUIPMENT:</b> Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Other <input type="checkbox"/>																																
<b>(4) PROPOSED USE (check):</b> Domestic <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Municipal <input type="checkbox"/> Irrigation <input type="checkbox"/> Test Well <input type="checkbox"/> Other <input type="checkbox"/>																																					
<b>(6) CASING INSTALLED:</b> STEEL: <input checked="" type="checkbox"/> OTHER: _____ SINGLE <input checked="" type="checkbox"/> DOUBLE <input type="checkbox"/> <table border="1" style="width:100%"><thead><tr><th>From ft.</th><th>To ft.</th><th>Diam.</th><th>Gage or Wall</th><th>Diameter of Bore</th><th>From ft.</th><th>To ft.</th></tr></thead><tbody><tr><td><u>0</u></td><td><u>134</u></td><td><u>6 1/2</u></td><td><u>12</u></td><td><u>10</u></td><td><u>0</u></td><td><u>134</u></td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> Size of shoe or well ring: _____ Size of gravel: <u>pea</u> Describe joint: <u>welded</u>					From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.	<u>0</u>	<u>134</u>	<u>6 1/2</u>	<u>12</u>	<u>10</u>	<u>0</u>	<u>134</u>																			
From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.																															
<u>0</u>	<u>134</u>	<u>6 1/2</u>	<u>12</u>	<u>10</u>	<u>0</u>	<u>134</u>																															
<b>(7) PERFORATIONS OR SCREEN:</b> Type of perforation or name of screen <u>slot</u> <table border="1" style="width:100%"><thead><tr><th>From ft.</th><th>To ft.</th><th>Perf. per row</th><th>Rows per ft.</th><th>Size in. x in.</th></tr></thead><tbody><tr><td><u>124</u></td><td><u>134</u></td><td> </td><td> </td><td><u>1/8 x 3"</u></td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>					From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.	<u>124</u>	<u>134</u>			<u>1/8 x 3"</u>											<b>CONFIDENTIAL</b> Water Code Sec. 13752												
From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.																																	
<u>124</u>	<u>134</u>			<u>1/8 x 3"</u>																																	
<b>(8) CONSTRUCTION:</b> Was a surface sanitary seal provided? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> To what depth <u>20</u> ft. Were any strata sealed against pollution? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, note depth of strata _____ From _____ ft. to _____ ft. From _____ ft. to _____ ft. Method of sealing <u>Bentonite</u>					Work started <u>9-17</u> 19 <u>73</u> , Completed _____ 19 _____ <b>WELL DRILLER'S STATEMENT:</b> <i>This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.</i>																																
<b>(9) WATER LEVELS:</b> Depth at which water was first found, if known _____ ft. Standing level before perforating, if known _____ ft. Standing level after perforating and developing <u>90</u> ft.					<b>NAME</b> <u>Hennings Bros. Drilling Co., Inc.</u> (Person, firm, or corporation) (Typed or printed)																																
<b>(10) WELL TESTS:</b> Was pump test made? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, by whom? _____ Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs. Temperature of water _____ Was a chemical analysis made? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Was electric log made of well? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, attach copy _____					Address <u>2500 W. Rumble Rd.</u> <u>Modesto, Calif. 95350</u> [SIGNED] <u>Madeline Roday - Sec.</u> (Well Driller) License No. <u>116322</u> Dated <u>9-26</u> , 19 <u>73</u>																																

SKETCH LOCATION OF WELL ON REVERSE SIDE



ORIGINAL

File with DWR

STATE OF CALIFORNIA

THE RESOURCES AGENCY

DEPARTMENT OF WATER RESOURCES

## WATER WELL DRILLERS REPORT

Do not fill in

No. 243220

Notice of Intent No. \_\_\_\_\_

Local Permit No. or Date 5181

State Well No. \_\_\_\_\_

Other Well No. \_\_\_\_\_

(1) OWNER: Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

Zip \_\_\_\_\_

(2) LOCATION OF WELL (See instructions):

County Stanislaus

Owner's Well Number \_\_\_\_\_

Well address if different from above \_\_\_\_\_

Township \_\_\_\_\_

Range \_\_\_\_\_

Section \_\_\_\_\_

Distance from cities, roads, railroads, fences, etc. Pinewood Meadows

Mobile Estate 8200 Jantzen Rd.- S.E.

Corner of Albers &amp; Jantzen Rd.

(12) WELL LOG: Total depth 410 ft. Depth of completed well 315 ft.

from ft. to ft. Formation (Describe by color, character, size or material)

0 - 2 Topsoil

2 - 5 Hardpan

5 - 38 Sand

38 - 48 Clay-soft

48 - 53 Sand &amp; gravel

53 - 59 Clay

59 - 61 Sand

61 - 72 Clay

72 - 74 Sand

74 - 105 Clay

105 - 112 Sand

112 - 137 Gravel

137 - 140 Sand

140 - 149 Clay

149 - 155 Sand

155 - 172 Clay

172 - 178 Sand

178 - 180 Clay

180 - 195 Blue clay

195 - 198 Sand-fine

198 - 239 Blue clay

239 - 255 Black sand

255 - 261 Black sand &amp; gravel

261 - 263 Clay

263 - 290 Gravel &amp; sand

290 - 304 Clay

304 - 309 Sand

309 - 345 Clay

345 - 347 Sand

347 - 357 Clay &amp; shale

357 - 359 Sand

359 - 410 Clay &amp; shale

(3) TYPE OF WORK:

New Well ☒ Deepening ☐Reconstruction ☐Reconditioning ☐Horizontal Well ☐Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:

Domestic ☒Irrigation ☐Industrial ☐Test Well ☐Stock ☐Municipal ☐Other ☐

## WELL LOCATION SKETCH

(5) EQUIPMENT:

Rotary ☐Reverse ☒Cable ☐Air ☐Other ☐Bucket ☐

(6) GRAVEL PACK: Roofing

Yes ☒ No ☐

Size Gravel

Diameter of bore

26"

Packed from

75 to 315 ft.

(7) CASING INSTALLED:

Steel ☒Plastic ☐Concrete ☐

(8) PERFORATIONS:

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Cage or Wall
0	315	1 1/4	3/4

From ft.	To ft.	Slot size
285	315	1/8x2 1/2"
225	285	ful-flt

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 75 ft.Were strata sealed against pollution? Yes ☐ No ☐ Interval \_\_\_\_\_ ft.

Method of sealing Cement

(10) WATER LEVELS:

Depth of first water, if known \_\_\_\_\_ ft.

Standing level after well completion 60 ft.

(11) WELL TESTS:

Was well test made? Yes ☒ No ☐ If yes, by whom? HenningsType of test Pump ☒ Bailer ☐ Air lift ☐

Depth to water at start of test \_\_\_\_\_ ft. At end of test 132.4

Discharge 2498 gal/min after \_\_\_\_\_ hours Water temperature \_\_\_\_\_

Chemical analysis made? Yes ☒ No ☐ If yes, by whom? Calif. Water LabsWas electric log made? Yes ☒ No ☐ If yes, attach copy to this report

Work started 9-16 19 82 Completed 19 \_\_\_\_\_

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

SIGNED Madeline Raddy (Well Driller)

NAME Hennings Bros. Drilling Co., Inc.

(Person, firm, or corporation) (Typed or printed)

Address 3525 Pelandale Ave.

City Modesto, Ca. Zip 95356

License No. 290813 Date of this report 10-27-82

DWR 188 (REV. 7-76)

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM



TRIPPLICATE  
Retain this copy

WATER WELL DRILLERS REPORT  
(Sections 7875, 7885, 7881, 7882, Water Code)  
THE RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES

Do Not Fill In  
N: 25990  
State Well No.  
Other Well No.

(1) OWNER: <u>GOODMAN BROS</u>		(11) WELL LOG:	
Name <u>TRI-ANGLE RANCH MOBILE ESTATES</u>		Total depth <u>180</u> ft.	Depth of completed well <u>175</u> ft.
Address <u>8200 Jentzen Ed.</u>		Remarks: Describe by color, character, size of material, and structure	
<u>Lodi, California</u>			
(2) LOCATION OF WELL:			
County <u>Stanislaus</u> Owner's number, if any			
Township, Range, and Section <u>T. 38. S. 10E. Sec. 35</u>			
Distance from cities, roads, railroads, etc.			
(3) TYPE OF WORK (check):			
New Well <input checked="" type="checkbox"/> Dewatering <input type="checkbox"/> Reconditioning <input type="checkbox"/> Dewatering <input type="checkbox"/>			
(4) PROPOSED USE (check):			
Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Municipal <input type="checkbox"/> Other <input type="checkbox"/>			
(5) EQUIPMENT:			
Rotary <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Other <input type="checkbox"/>			
(6) CASING INSTALLED:			
STEEL <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>			
SINGLE <input checked="" type="checkbox"/> DOUBLE <input type="checkbox"/>			
If gravel packed			
From ft.	To ft.	Diagn.	From ft.
62	10	210	28
Size of steel or other casing <u>3/8"x10</u>		Type of gravel	
Describe steel: <u>Welded</u>			
(7) PERFORATIONS OR SCREEN:			
Type of perforation or name of screen <u>None used</u>			
From ft.	To ft.	Perf. per row	Rows per ft.
(8) CONSTRUCTION:			
Was a permit obtained and complied? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> To what depth <u>162</u> ft.			
Were any screens used against pollution? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, name depth of screen			
From ft. to ft.			
Method of sealing			
(9) WATER LEVELS:			
Depth at which water was first found, if known <u>68</u> ft.			
Standing level before perforating, if known <u>8</u> ft.			
Standing level after perforating and development <u>11</u> ft.			
(10) WELL TESTS:			
Was pump test made? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, by whom? <u>Us</u>			
Yield <u>220</u> gal. min. with <u>80</u> ft. drawdown after <u>1</u> hr.			
Temperature of water <u>72</u> Was a chemical analysis made? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Was electric log made of well? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, attach copy			
Work started <u>10/12/67</u> Completed <u>10/20/67</u>			
WELL DRILLER'S STATEMENT:			
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.			
NAME <u>Q. TERRELL &amp; STEWART</u>			
Address <u>2523 River Road</u>			
<u>Lodi, California</u>			
License No. <u>231715</u> Dated <u>10/24</u>			

SKETCH LOCATION OF WELL ON REVERSE SIDE





# SUBMERSIBLE TURBINE

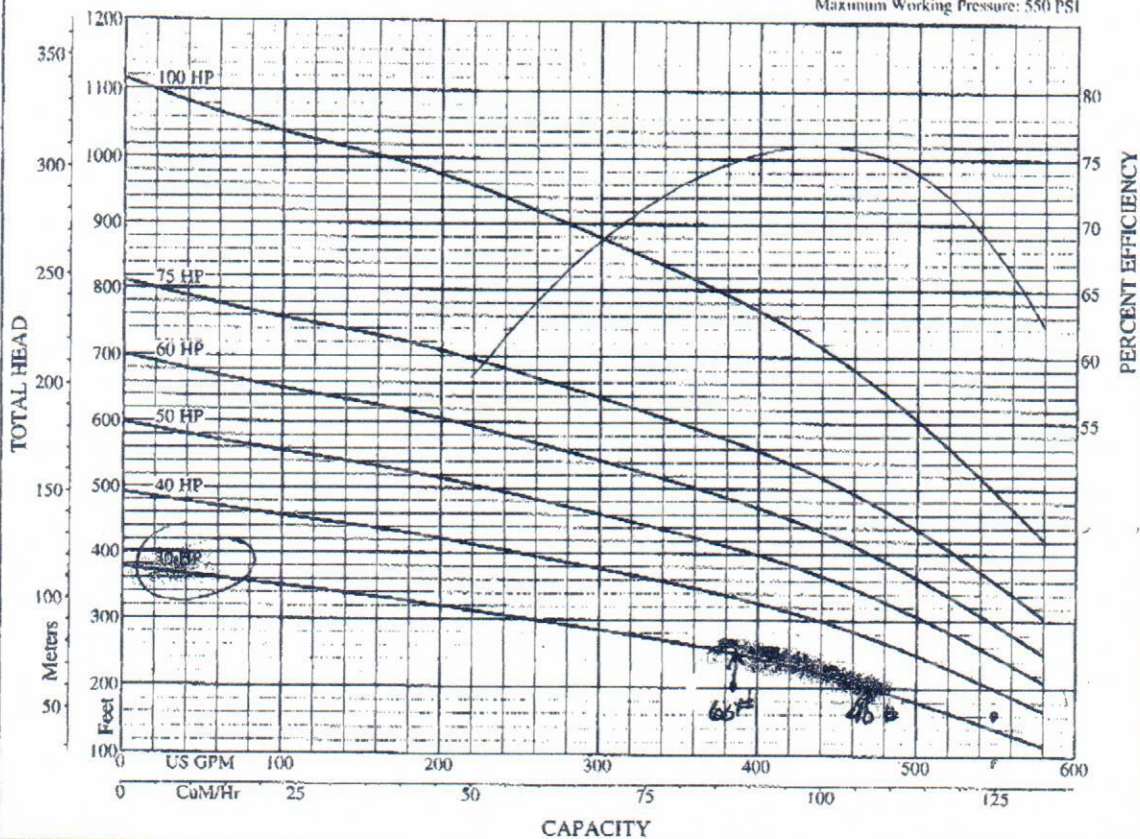
power  
in  
PSI  
90  
19  
150  
250

## 7T-450

Nominal RPM: 3450

Based on Fresh Water @ 68° F.

Maximum Working Pressure: 550 PSI



### OUTLINE DIMENSIONS / WEIGHTS

HP	stages	Motor size	P length	M* length	MD* dia.	Mtr. wt.	Pump wt.
30	4	6"	39.44	35.69	5.38	162	136
40	5	6"	45.94	40.81	5.38	195	161
50	6	6"	52.44	57.83	5.38	310	187
60	7	6"	58.94	63.83	5.38	340	212
75	8	8"	66.94	46.79	7.58	450	290
100	11	8"	86.44	54.29	7.58	520	366

Note: dimensions = inches; weight = U.S. lbs.

M\* Maximum length (Franklin Electric Motor)

MD\* Motor diameter (Franklin Electric Motor)

### SPECIFICATIONS

Minimum Well I.D.	8.0 inches
Minimum Submergence @ BEP (above inlet)	10.0 Feet
Capacity Range	100 - 580 GPM
Discharge	5" P x 6" M NPT
See manufacturer's data for motor cooling requirements	

SUPERSEDES

All Previous

Date 04/15/96

Section **ST**

Page 20.03



Accounts Receivable  
Calwater Drilling Co., Inc.  
300 S. Kilroy Rd.  
Turlock, CA 95380-9519  
209/667-7932

Invoice

DATE	INVOICE #
04/30/2001	4451

BILL TO
Pinewood Meadows, Inc. John Cummings 2723 W. Coast Highway Newport Beach, CA 92663

P.O. NO.		TERMS	REP	PROJECT
		Net 10	BKH	
DESCRIPTION	QTY	RATE	AMOUNT	
Installed 2 air vents on pump discharge as required by Stanislaus County	1	575.00	575.00	
			Total	\$575.00

Thank you for your business.



## INVOICE

INVOICE



## Irrigation Systems Inc.

1702 Herndon Road • Ceres, CA 95307 • (209) 538-1773

Remit to: P.O. Box 4714 • Modesto, CA 95352

Fax (209) 538-1779

Nº 15405

SOLD TO

SHIP TO

Colwater Dullerig  
300 S Kilroy  
Turlock Ca 95380

CUSTOMER'S ORDER		SALESMAN	TERMS	SHIPPED VIA	FOB	DATE
						4-27-01
2	1" Galv 90° elbow				137	274
2	1" foot valve				2200	44 --
1	1 x 6 Galv nipple				124	124
4	1" x 3" " "				80	320
1	1" x close " "				53	53
1	1" x 3/4 Bell Reducer				161	161
1	3/4" x 3" galv nipple				50	50
1	3/4 hose bib				505	505
1	1" galv plug				104	104
2	1" " TEE				205	410
1	Rubber seal				1010	1010
1	3/4" AIR Release CA100				1575	1575
1	1/2 x 3/4 galv bush				129	129
1	1/2 x 1/4" " "				123	123
3	heaters				3510	10530
	1 1/2 hrs.				90 -	150 -
	2 hrs 2 men				100 -	200
Installed 2 air vents as req. by CO. on pump discharge					Sub-	19771
					TAX	1409
					Valve	350 -
					Due	56180







2 of 1403  
CR 37001

Lat: \_\_\_\_\_  
Long: \_\_\_\_\_  
T. \_\_\_\_\_ R. \_\_\_\_\_ Sec. \_\_\_\_\_  
¼ Sec. \_\_\_\_\_  
Quad. \_\_\_\_\_  
A.P.N. \_\_\_\_\_

STANISLAUS COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
3800 CORNUCOPIA WAY, SUITE C, MODESTO, CA 95358-9492  
(209) 525-6700

Permit No. 03-214  
Date Issued 8-11-03

APPLICATION FOR WELL CONSTRUCTION OR DESTRUCTION

THIS PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

Application is hereby made to the Stanislaus County Department of Environmental Resources (D.E.R.) for a permit to construct and/or destroy the work herein described. PLEASE NOTIFY THIS DEPARTMENT (USING PERMIT # AND D.W.R. WELL DRILLERS REPORT) WHEN WELL WORK IS COMPLETED.

JOB ADDRESS/LOCATION 8200 JANTZEN RD. City MODESTO, CA 95357  
Distance & Direction from Nearest Cross Streets S/E CORNER JANTZEN & GEEB RD.  
Owner's Name J+B NEWELL TRUST Phone 707-333-8925  
Address 3427 BROADWAY SUITE F-3 City/State AMERICAN CANYON CA 94505  
Contractor's Name CALWATER DRILLING, INC License # 434218 Phone 667-7932

TYPE OF WORK: NEW WELL ☐ DEEPEN ☐ RECONDITION ☐ DESTRUCTION ☒  
(Check one) OTHER ☐ TWO WELLS - 6" WELL - TO BE BENTONITED FROM BOTTOM UP

DISTANCE TO NEAREST: SEPTIC TANK \_\_\_\_\_ SEWER LINES \_\_\_\_\_ PIT PRIVY \_\_\_\_\_  
OTHER WELL \_\_\_\_\_ SEWAGE DISPOSAL FIELD \_\_\_\_\_ SEEPAGE PIT \_\_\_\_\_  
DRY WELL \_\_\_\_\_ OTHER \_\_\_\_\_  
ANIMAL ENCLOSURE \_\_\_\_\_

INTENDED USE	TYPE OF WELL	CONSTRUCTION / DESTRUCTION SPECIFICATIONS
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cable Tool	Dia. of Well Excavation _____
<input type="checkbox"/> Domestic / Private	<input type="checkbox"/> Drilled	Dia. of Well Casing _____
<input type="checkbox"/> Domestic / Public	<input type="checkbox"/> Gravel Pack	Gauge of Casing _____
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Rotary	Depth Conductor Casing _____
<input type="checkbox"/> Cathodic protection	<input type="checkbox"/> Other _____	Depth of Grout Seal _____
<input type="checkbox"/> Other _____		Type of Grout <u>BENTONITE</u> # Bags _____
		Grout Manufacturer <u>WYD BEN</u>
		Grout Name <u>GROUT WELL</u>

Well Destruction: Describe method if different than minimum state standards: \_\_\_\_\_

Existing well present? YES NO Status: Active ☐ To Be Destroyed ☐ Inactive ☐

D.E.R. USE ONLY  
Permit Issued by: Joan da Cruz Date: 8-11-03  
Permit Denied by: \_\_\_\_\_ Date: \_\_\_\_\_ (See Attached)  
Grout Seal Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_  
Final Inspection by: \_\_\_\_\_ Date: \_\_\_\_\_



**PLOT PLAN**  
(Indicate Distances in Feet)

1. Name of street and distance from nearest cross roads to well site.
2. Outline of the property, easements.
3. Outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways, and walks.
4. Location of house sewer outlet, public sewer, sewage disposal system, or proposed sewage disposal system, proposed expansion of sewage disposal system, industrial waste pond, or any other possible source of contamination.
5. Location of other wells within radius of 300 feet on the property or adjoining property.
6. Location of sewage disposal system on adjoining property or within a radius of 100 ft. (private well) 150 ft. (public well).

NORTH ↑

Written description of well location (if not visible from road): \_\_\_\_\_

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA, THE ORDINANCES OF THE COUNTY OF STANISLAUS AND THE RULES AND REGULATIONS OF THE STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES (DER). DER WILL BE CONTACTED FOR INSPECTION OF ANNULAR SEAL INSTALLATION, AND AFTER WELL WORK HAS BEEN COMPLETED.

1. All existing wells within a 300 foot radius of the proposed new well(s) on the property or adjoining property have been located and so indicated.
2. Proposed well(s) will be located at least 50-100 feet from any sewage disposal system on property or adjoining property. Public well requires a distance of 100-150 feet from disposal system (100 ft. septic tank and leach lines, 150 ft. pits).
3. Submit well logs on all public wells drilled, as notice of well work completion.

SIGNED: Blicker Hummer DATE: 8/11/03  
(OWNER OR AUTHORIZED REPRESENTATIVE)

Backside of previous page



Permit No. 03-201 Permit Date 7/23/2003

*Refer to Instruction Pamphlet*

DWR USE ONLY -- DO NOT FILL IN  
 STATE WELL NO./STATION NO.  
 LATITUDE LONGITUDE  
 APN/TRS/OTHER

**WELL OWNER**

ORIENTATION (✓) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE _____ (SPECIFY)		WELL OWNER Name <b>J &amp; B NEWELL TRUST</b>	
DEPTH FROM SURFACE Ft. to Ft.		Mailing Address <b>3427 BROADWAY F-3</b>	
DRILLING METHOD _____ FLUID _____		CITY <b>AMERICAN CANYON</b> CA 94503	
DESCRIPTION <i>Describe material, grain, size, color, etc.</i>		WELL LOCATION	
		Address <b>8200 JANTZEN ROAD</b>	
		City <b>MODESTO CA 95357</b>	
		County <b>Stanislaus</b>	
		APN Book _____ Page _____ Parcel _____	
		Township _____ Range _____ Section _____	
		Latitude _____	
		DEG. MIN. SEC. _____	
		LOCATION SKETCH	
		NORTH	
		<div style="display: flex; justify-content: space-between;"> <span>WEST</span> <span>EAST</span> </div>	
		SOUTH	
		<i>Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE &amp; COMPLETE.</i>	
		ACTIVITY (✓)	
		<input type="checkbox"/> NEW WELL <input type="checkbox"/> MODIFICATION/REPAIR <input type="checkbox"/> Deepen <input type="checkbox"/> Other (Specify) _____	
		<input checked="" type="checkbox"/> DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	
		PLANNED USES (✓) WATER SUPPLY <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial  <input type="checkbox"/> MONITORING <input type="checkbox"/> TEST WELL <input type="checkbox"/> CATHODIC PROTECTION <input type="checkbox"/> HEAT EXCHANGE <input type="checkbox"/> DIRECT PUSH <input type="checkbox"/> INJECTION <input type="checkbox"/> VAPOR EXTRACTION <input type="checkbox"/> SPARGING <input type="checkbox"/> REMEDIATION <input type="checkbox"/> OTHER (SPECIFY) _____	
		WATER LEVEL & YIELD OF COMPLETED WELL	
		DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____ ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____ TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.) <i>May not be representative of a well's long-term yield.</i>	
TOTAL DEPTH OF BORING _____ (Feet)			
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)			

[illegible]

## ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analysis
- Other \_\_\_\_\_

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

### CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy Rd.

ADDRESS

Signed

WELL DRILLER/AUTHORIZED REPRESENTATIVE

Turlock

CITY

C

95380

STATE

ZIP

08/08/03  
DATE SIGNED

434218  
C-57 LICP



Lat: \_\_\_\_\_  
Long: \_\_\_\_\_  
T. \_\_\_\_\_ R. \_\_\_\_\_ Sec. \_\_\_\_\_  
1/4 Sec. \_\_\_\_\_  
Quad. \_\_\_\_\_  
A.P.N. \_\_\_\_\_

STANISLAUS COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
3800 CORNUCOPIA WAY, SUITE C, MODESTO, CA 95358-9492  
(209) 525-6700

Permit No. 03-201  
Date Issued 7/23/03

APPLICATION FOR WELL CONSTRUCTION OR DESTRUCTION

THIS PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

*Ad 250  
7/23/03*

Application is hereby made to the Stanislaus County Department of Environmental Resources (D.E.R.) for a permit to construct and/or destroy the work herein described. PLEASE NOTIFY THIS DEPARTMENT (USING PERMIT # AND D.W.R. WELL DRILLERS REPORT) WHEN WELL WORK IS COMPLETED.

JOB ADDRESS/LOCATION 8200 JANTZEN RD. City MODESTO  
Distance & Direction from Nearest Cross Streets S/E CORNER JANTZEN RD + GEEB RD  
Owner's Name PINEWOOD MEADOWS MOBILE HOME PARK Phone 577-2803  
Address SAME City/State \_\_\_\_\_  
Contractor's Name Calwater Drilling Co. Inc. License # 434218 Phone 667 7932

TYPE OF WORK: NEW WELL ☐ DEEPEN ☐ RECONDITION ☐ DESTRUCTION ☒  
(Check one) OTHER ☐

DISTANCE TO NEAREST: SEPTIC TANK \_\_\_\_\_ SEWER LINES \_\_\_\_\_ PIT PRIVY \_\_\_\_\_  
OTHER WELL \_\_\_\_\_ SEWAGE DISPOSAL FIELD \_\_\_\_\_ SEEPAGE PIT \_\_\_\_\_  
DRY WELL \_\_\_\_\_ OTHER \_\_\_\_\_  
ANIMAL ENCLOSURE \_\_\_\_\_

INTENDED USE	TYPE OF WELL	CONSTRUCTION / DESTRUCTION SPECIFICATIONS
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cable Tool	Dia. of Well Excavation _____
<input checked="" type="checkbox"/> Domestic / Private	<input type="checkbox"/> Drilled	Dia. of Well Casing _____
<input type="checkbox"/> Domestic / Public	<input type="checkbox"/> Gravel Pack	Gauge of Casing _____
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Rotary	Depth Conductor Casing _____
<input type="checkbox"/> Cathodic protection	<input type="checkbox"/> Other _____	Depth of Grout Seal _____
<input type="checkbox"/> Other _____		Type of Grout _____ # Bags _____
		Grout Manufacturer _____
		Grout Name _____

Well Destruction: Describe method Cement from bottom up different than minimum state standards: 90  
SEALED WITH CEMENT WHEN SAVED TO 85  
SEALED WITH CEMENT TO 85  
Existing well present? YES NO Status: Active ☐ To Be Destroyed ☐ Inactive ☒ PAD

Permit Issued by: [Signature] D.E.R. USE ONLY Date: 7-23-03  
Permit Denied by: \_\_\_\_\_ Date: \_\_\_\_\_ (See Attached)  
Grout Seal Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_  
Final Inspection by: \_\_\_\_\_ Date: \_\_\_\_\_

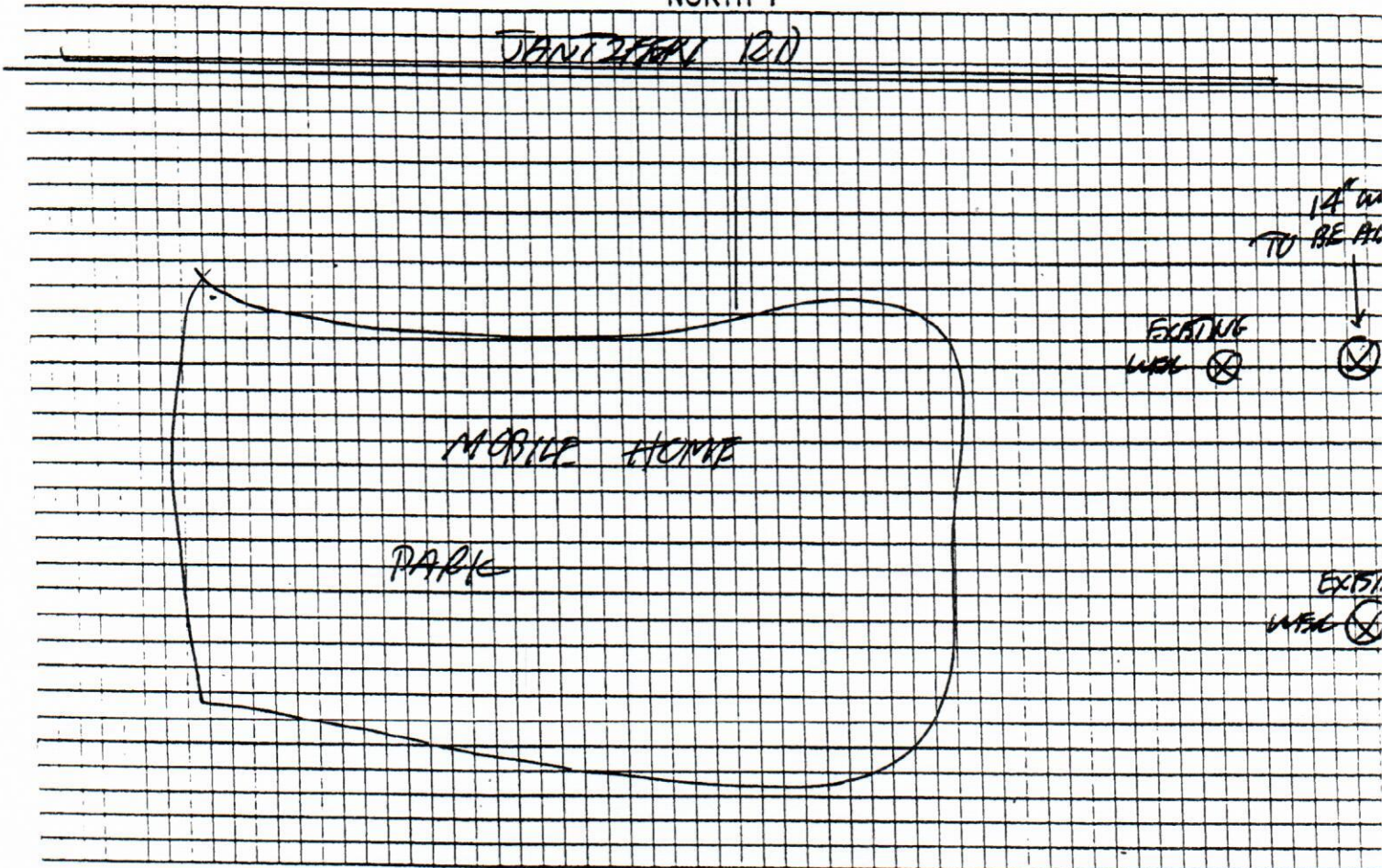


**PLOT PLAN**  
(Indicate Distances in Feet)

*Backside of  
Previous page*

- 1 Name of street and distance from nearest cross roads to well site.
- 2 Outline of the property, easements.
- 3 Outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways, and walks.
- 4 Location of house sewer outlet, public sewer, sewage disposal system, or proposed sewage disposal system, propose expansion of sewage disposal system, industrial waste pond, or any other possible source of contamination.
- 5 Location of other wells within radius of 300 feet on the property or adjoining property.
- 6 Location of sewage disposal system on adjoining property or within a radius of 100 ft. (private well) 150 ft. (public well)

NORTH ↑



Written description of well location (If not visible from road): \_\_\_\_\_

I HEREBY CERTIFY THAT I HAVE PREPARED THIS APPLICATION AND THAT THE WORK WILL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA, THE ORDINANCES OF THE COUNTY OF STANISLAUS AND THE RULES AND REGULATIONS OF THE STANISLAUS COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES (DER). DER WILL BE CONTACTED FOR INSPECTION OF ANNULAR SEAL INSTALLATION, AND AFTER WELL WORK HAS BEEN COMPLETED.

- 1 All existing wells within a 300 foot radius of the proposed new well(s) on the property or adjoining property have been located and so indicated.
- 2 Proposed well(s) will be located at least 50-100 feet from any sewage disposal system on property or adjoining property. Public well requires a distance of 100-150 feet from disposal system (100 ft. septic tank and leach lines, 150 ft. pits).
- 3 Submit well logs on all public wells drilled, as notice of well work completion.

SIGNED: Blaire Hennings  
(OWNER OR AUTHORIZED REPRESENTATIVE)

DATE: 7/23/03





P. O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

## CAL WATER DRILLING

DATE/TIME COLLECTED: 08-02-00/AM  
DATE/TIME RECEIVED: 08-02-00/1550  
DATE STARTED: 08-02-00  
DATE COMPLETED: 08-15-00  
DATE REPORTED: 08-15-00  
COLLECTED BY: PURVEYOR  
FWL#: 0-2266

SAMPLE LOCATION: PINWOOD MEADOWS - NEW WELL

UNITS	CONSTITUENT	METH#	RESULTS	DLR	MCL
mg/L	TOTAL HARDNESS	2340 C	286.0	1.0	NONE
mg/L	CALCIUM	3500-Ca	72.0	0.1	"
mg/L	MAGNESIUM	3111 B	20.5	0.1	"
mg/L	SODIUM	3111 B	42.0	0.1	"
mg/L	POTASSIUM	3111 B	5.3	0.2	"
mg/L	TOTAL ALKALINITY	2320 B	115.5	1.0	NONE
mg/L	OH ALKALINITY	2320 B	< 1.0	1.0	"
mg/L	CO3 ALKALINITY	2320 B	< 1.0	1.0	"
mg/L	HCO3 ALKALINITY	2320 B	140.9	1.0	"
mg/L	SULFATE	4110 B	8.2	0.5	500.0
mg/L	CHLORIDE	4110 B	22.7	1.0	500.0
mg/L	NITRATE AS NO3	4110 B	2.5	2.0	45.0
mg/L	NITRITE AS N	4110 B	< 0.4	0.4	1.0
mg/L	FLUORIDE	4500-F	0.1	0.1	2.4
unit	pH	4500-H	7.3	0.1	NONE
umho/cm	CONDUCTIVITY	2510 B	711.	1.	1600.
mg/L	T.D.S.	2540 C	358.	1.	1000.
mg/L	M.B.A.S.	5540 C	< 0.02	0.02	0.5
ug/L	COPPER	3111 B	< 50.0	50.0	1000.0
ug/L	IRON	3111 B	< 100.0	100.0	300.0
ug/L	MANGANESE	3111 B	44.8	20.0	50.0
ug/L	ZINC	3111 B	< 50.0	50.0	5000.0

METH# = Test Method of Analysis: Standard Methods - 18th. Ed.  
MCL = Maximum Contaminant Level  
DLR = Detection Limit for Reporting Purposes

Signature:

*Angela Adams*  
Laboratory Director





P.O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

Far West Laboratories, Inc.  
6602 Second St.  
Riverbank, CA 95367

EX

Date of Report: 00/08/21

Laboratory

Name: FAR WEST LABORATORIES

Name of Sampler: P. DELANO

Date/Time Sample

Collected: 00/08/04/1445

AGRICULTURAL CHEMICAL AND MISCELLANEOUS ORGANIC ANALYSIS (10/97)

Sample ID No. 0-2289

Signature Lab

Director: Angela Adams

Employed By: FAR WEST LABORATORIES

Date Analyses BSC

Date/Time Sample

Received @ Lab: 00/08/04/1510

Completed: 00/08/

System

Name: CAL-WATER DRILLING

Name or Number of Sample Source: PINWOOD MEADOWS NEW WELL

\* User ID: 50C

\* Date/Time of Sample: 100|08|04|1445|

\* YY MM DD TTTT

\* Submitted by: \_\_\_\_\_

System

Number: 50CXX46

Station Number:

Laboratory Code: 4450

YY MM DD

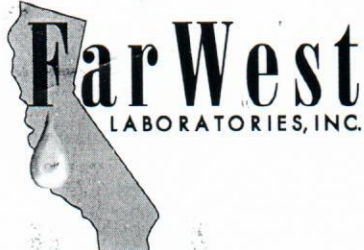
Date Analysis completed: 100|08|04|

Phone #: \_\_\_\_\_

Page 1 of 1

TEST	CHEMICAL	ENTRY	ANALYSES	MCL	DLR
METHOD	ALL CHEMICALS REPORTED ug/L	#	RESULTS	ug/L	ug/L
504	DBCP (Dibromochloropropane)	38761	0.04	0.2	.0





P. O. Box 355  
6602 2nd Street  
Riverbank, CA 95367

## Invoice

Invoice Number:  
28592

Invoice Date:  
Aug 23, 2000

Phone 209-869-9260  
Fax 209-869-2278  
State Certification #1310

Page

### INVOICE TO:

CAL WATER DRILLING  
ATTN: ACCOUNTS PAYABLE  
300 S. KILROY  
TURLOCK, CA 95380

LOCATION:

Customer ID  
C014

Customer PO

Payment Terms  
Net 30 Days

Due Date  
9/22/00

Quantity	Item	Description	Unit Price	Extension
1.00	01GMPANEL	GENERAL MINERAL PANEL, 08-02-00, PINWOOD MEADOWS	145.00	145.00

Subtotal 145.00

Total Invoice Amount 145.00

TOTAL \$145.00





calwater drilling company, inc.

#C57-434218  
300 S. KILROY RD.  
TURLOCK, CA 95380  
(209) 667-7932  
FAX# (209) 667-1030

# INVOICE

INVOICE NO: 4253

INVOICE DATE: 09/20/00

SOLD TO: Pinewood Meadows, Inc.  
2723 W. Coast Highway  
Newport Beach, CA 92663

Irr.  
Sys.  
(pump)

PO Number: John Cummings      Ordered: 09/20/00      Payment Due: 10/20/00  
Salesperson: BH  
Terms: NET 30

PAYMENT: DUE 30 DAYS FROM DATE OF BILLING. 1.5% SERVICE CHARGE  
PER MONTH (18% ANNUALLY) TO ALL PAST DUE ACCOUNTS.

REFERENCE	DESCRIPTION	AMOUNT
07/14/00	Drill test hole 277 feet @ \$5 per foot	1,385.00
	Drill and case 10" public well	
	Depth: 260 feet @ \$28 per foot	7,280.00
	62' Bentonite/cement seal	300.00
	Air development	700.00
	Stanislaus County permit #00-135	287.00
	Set & pull pump for water sample	1,000.00
	Pinewood Meadows Mobile Home Park	
	8200 Jantzen Rd.	
	Modesto	

Orig well  
destroyed?  
not yet  
pump \$11605.00

Thank you for your business!

PINEWOOD

#8 STANIS

TOTAL

10,952.00



Permit Issued by: [Signature]  
Permit Denied by: \_\_\_\_\_  
Grout Seal Inspected by: \_\_\_\_\_  
Final Inspection by: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
Date: \_\_\_\_\_  
D.E.R. USE ONLY

Existing well present? YES ☒ NO ☐  
Status: Active ☐ To Be Destroyed ☒ Inactive ☐

Well Destruction: Describe method if different than minimum state standards: \_\_\_\_\_

INTENDED USE	TYPE OF WELL	CONSTRUCTION / DESTRUCTION SPECIFICATIONS
Industrial <input type="checkbox"/>	Cable Tool <input type="checkbox"/>	Dia. of Well Excavation <u>18 IN</u>
Domestic / Private <input type="checkbox"/>	Drilled <input type="checkbox"/>	Dia. of Well Casing <u>10 IN</u>
Domestic / Public <input checked="" type="checkbox"/>	Gravel Pack <input checked="" type="checkbox"/>	Gauge of Casing <u>PVC 508.36</u>
Irrigation <input type="checkbox"/>	Rotary <input checked="" type="checkbox"/>	Depth Conductor Casing _____
Cathodic protection <input type="checkbox"/>	Other <input type="checkbox"/>	Depth of Grout Seal <u>50 FT</u>
Other <input type="checkbox"/>		Type of Grout <u>BEADONITE</u>
		Grout Manufacturer <u>WYD BEN</u>
		Grout Name <u>GROUT WYD BEN</u>
		# Bags <u>12-13</u>

DISTANCE TO NEAREST: \_\_\_\_\_  
SEPTIC TANK 350 FT SEWER LINES \_\_\_\_\_  
OTHER WELL \_\_\_\_\_  
DRY WELL \_\_\_\_\_  
ANIMAL ENCLOSURE \_\_\_\_\_  
PIT PRIVY \_\_\_\_\_  
SEEPAGE PIT \_\_\_\_\_  
OTHER \_\_\_\_\_  
SEWAGE DISPOSAL FIELD 230 FT

TYPE OF WORK: NEW WELL ☒ DEEPEN ☐ RECONDITION ☐ DESTRUCTION ☐ (Check one)

OWNER'S NAME Pinewood Meadows Inc  
Address 8723 W. Coast Hwy  
City/State Newport Beach  
Phone 949-752-5181  
Contractor's Name Calwater Drilling Co Inc  
License # 434218  
Phone 667-7932  
JOB ADDRESS/LOCATION 8200 Jentzen Rd  
City Modesto  
Distance & Direction from Nearest Cross Streets 1/8 MILE EAST OF GENT RD ON SOUTH SIDE OF JANTZEN

Application is hereby made to the Stanislaus County Department of Environmental Resources (D.E.R.) for a permit to construct and/or destroy the work herein described. PLEASE NOTIFY THIS DEPARTMENT (USING PERMIT # AND D.W.R. WELL DRILLERS REPORT) WHEN WELL WORK IS COMPLETED.

THIS PERMIT EXPIRES 1 YEAR FROM DATE ISSUED

APPLICATION FOR WELL CONSTRUCTION OR DESTRUCTION

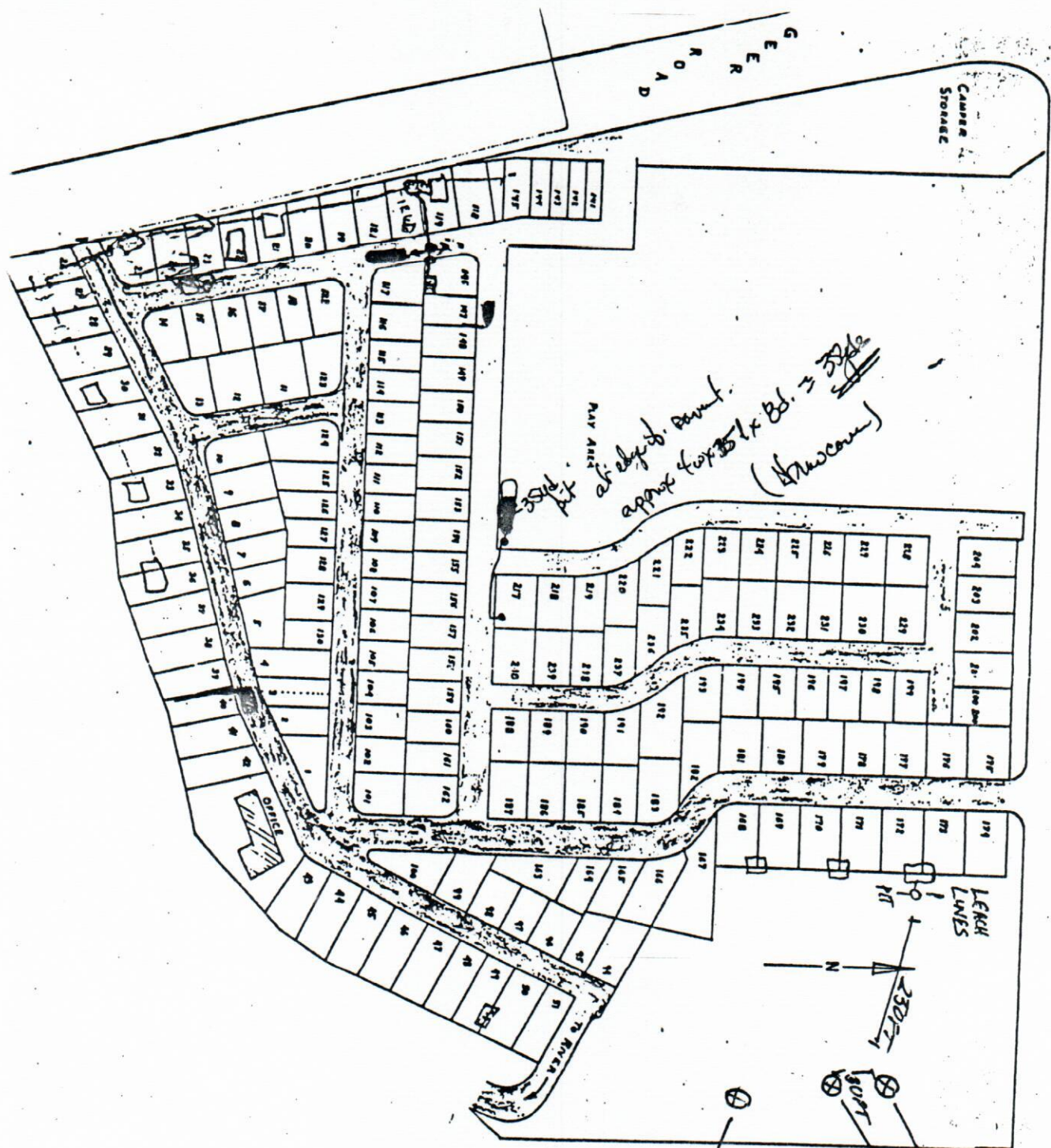
STANISLAUS COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES  
3800 CORNUCOPIA WAY, SUITE C, MODESTO, CA 95358-9492  
(209) 525-6700

Permit No. 00-135  
Date Issued 7-6-80

Lat:	_____
Long:	_____
T. _____	R. _____
1/4 Sec. _____	Sec. _____
Quad. _____	A.P.N. _____

[Signature]  
7/6/80





2504  
fit  
at chgo to. sent.  
appears for 2504 x 2504. 3 2504  
(Shawcom)

EXISTING  
WELL

NEW well  
WELL TO  
BE DESTROYED  
PIT.  
Sewer "Tight"  
Lines  
100'  
150'  
50'

$\Rightarrow$  Septic Tank

Lead lines 106'

PIT.

Sewer "Tight"  
Lines

501

150'

100'

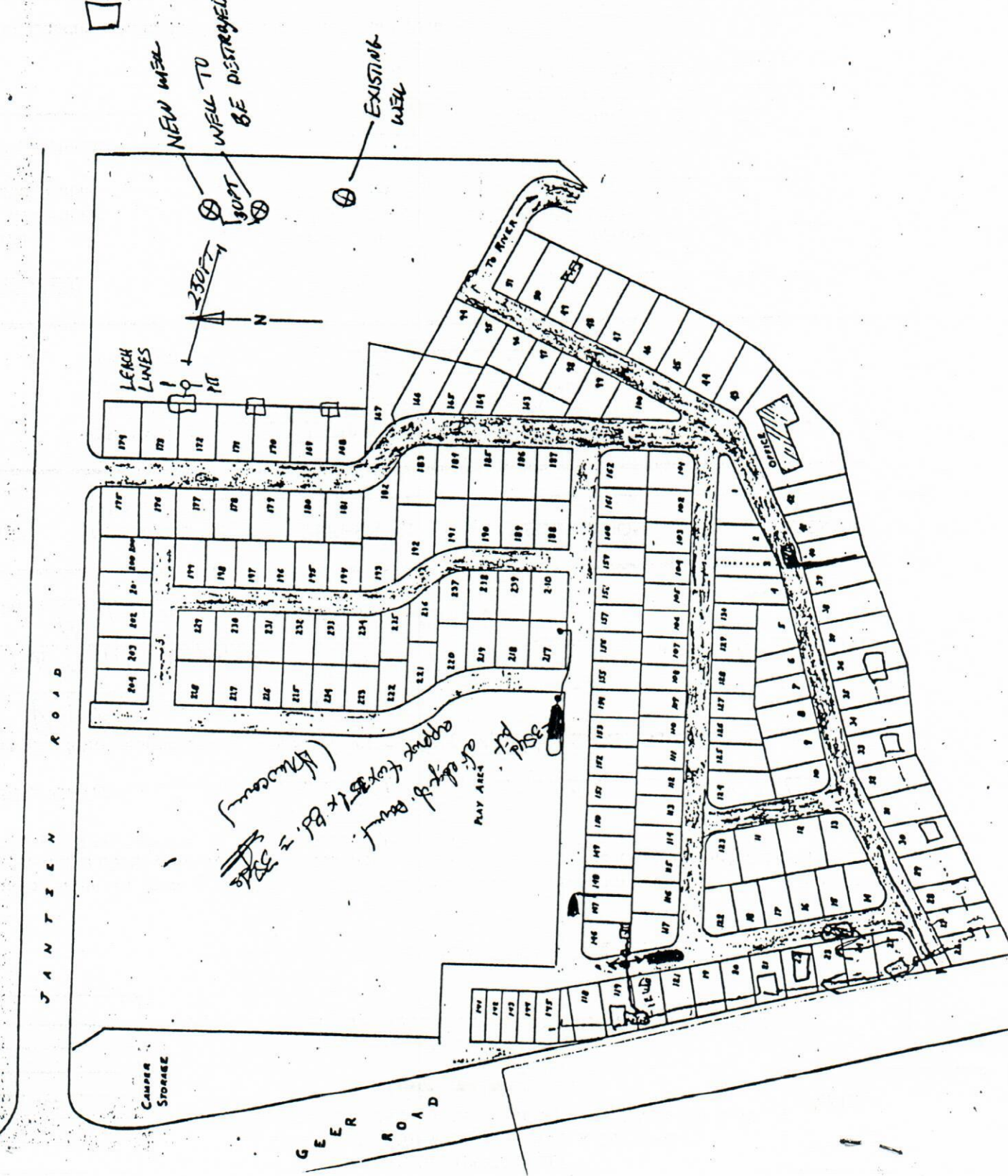
Regressed  
well Set  
Back

Item:

Pages  
will set



ITEM:                           Original  
    well Set  
    Back  
 □ → Septic Tank      100'  
                                  Leach Lines      100'  
                                  PIT      150'  
                                  "Sewer Tight"      50'  
                                  Lines





TRIPLICATE  
Owner's Copy

Page 1 of 2

Owner's Well No. 2

Date Work Began 07/14/00, Ended 10/11/00

Local Permit Agency Stanislaus Co DER

Permit No. 00-135

Permit Date 07/06/00

STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**  
Refer to Instruction Pamphlet

No. **717214**

DWR USE ONLY — DO NOT FILL IN	
STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG				WELL OWNER	
ORIENTATION (✓) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE (SPECIFY)		DRILLING METHOD <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> FLUID MUD		Name Pinewood Meadows Inc.	
DEPTH FROM SURFACE Ft to Ft		DESCRIPTION Describe material, grain, size, color, etc.		Mailing Address 2723 W. Coast Highway Newport Beach CA 92663 CITY STATE ZIP	
0 3		hardpan		Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
3 34		sand/gravel		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
34 45		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
45 50		sand/gravel		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
50 53		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
53 64		sand streaks		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
64 70		sand/gravel		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
70 77		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
77 79		sand/gravel		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
79 80		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
80 85		sand		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
85 90		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
90 91		sand		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
91 108		blue clay/sand streaks		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
108 136		tight gravel/ 1 1/2"		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
136 145		brown clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
145 148		gravel/clay streaks		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
148 152		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
152 154		gravel		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
154 156		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
156 167		very fine sand/clay streaks		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
167 173		clay/shale		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
173 176		very fine sand/blow		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
176 187		blue clay/shale		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
187 192		sand/blow		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
192 212		blue clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
212 214		sand/blow		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
214 236		clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
236 260		very fine-coarse black sand/small gravel/brown clay		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
260 265		hard rock		WELL LOCATION Address 8200 Jantzen Road City Modesto CA 95350 County Stanislaus APN Book Page Parcel Township Range Section Latitude DEG. MIN. SEC.	
TOTAL DEPTH OF BORING 277 (Feet)				WATER LEVEL & YIELD OF COMPLETED WELL	
TOTAL DEPTH OF COMPLETED WELL 260 (Feet)				DEPTH TO FIRST WATER 80 (Ft) BELOW SURFACE DEPTH OF STATIC WATER LEVEL 80 (Ft) & DATE MEASURED 10/11/00 ESTIMATED YIELD * (GPM) & TEST TYPE TEST LENGTH (Hrs.) TOTAL DRAWDOWN (Ft.) May not be representative of a well's long-term yield.	

DEPTH FROM SURFACE		BORE-HOLE DIA. (Inches)	CASING (S)				ANNULAR MATERIAL			
Ft	to Ft		TYPE (✓)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE	FILTER PACK (TYPE/SIZE)	
0	150	20	✓	PLASTIC	10	26		CE-MENT (✓) BEN-TONITE (✓) FILL (✓)	8x16	
150	170	20	✓	PLASTIC	10	26	.062			
170	240	20	✓	PLASTIC	10	26				
240	260	20	✓	PLASTIC	10	26	.062			

ATTACHMENTS (✓) — Geologic Log — Well Construction Diagram — Geophysical Log(s) — Soil/Water Chemical Analysis — Other	CERTIFICATION STATEMENT I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief. NAME CALWATER DRILLING CO., INC. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED) 300 S. Kilroy Rd. ADDRESS Signed Miranda WELL DRILLER/AUTHORIZED REPRESENTATIVE Turlock CA 95380 CITY STATE ZIP 10/11/00 434218 DATE SIGNED C-57 LICENSE NUMBER
---	---



DWR USE ONLY -- DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

DEPTH FROM SURFACE			BORE - HOLE DIA. (Inches)	CASING (S)							
				TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
Ft.	to	Ft.		BLANK	SCREEN	CON- DUCTOR	FILL PIPE				
0:		150	20	✓				PLASTIC	10	26	
150:		170	20		✓			PLASTIC	10	26	.062
170:		240	20	✓				PLASTIC	10	26	
240:		260	20		✓			PLASTIC	10	26	.062

218  
LICENSE NUMBER



## **Appendix C**

### **Compliance Order**





**DEPARTMENT OF ENVIRONMENTAL RESOURCES**

3800 Cornucopia Way, Suite C, Modesto, CA 95358-9494  
Phone: 209.525.6700 Fax: 209.525.6774

May 10, 2016

Bill Ebert  
Riverview Mobile Estates, LLC  
2967 Daylight Way  
San Jose, CA 95111

**TRANSMITTAL OF CITATION NO. DER-16CO-006 FOR URANIUM MCL FAILURE**

The Riverview Mobile Estates Water System violated the Maximum Contamination Level (MCL) for uranium in March of 2016, as specified in the Domestic Water Quality a Monitoring Regulation, Chapter 15, Title 22, California Code of Regulations. The Stanislaus County Department of Environmental Resources has issued Citation No. DER-16CO-006 in response to this violation. The compliance order is being transmitted to the Riverview Mobile Estates Water System under cover of this letter. Please respond to each item of the Directives by the deadlines established in the compliance order.

Stanislaus County Ordinance provides that fees must be charged for staff time in responding to MCL violations. The fee charged is the Department's weighted labor rate of \$106.00 per hour, with a one-hour minimum. To date, 2.0 hours have been spent responding to the MCL violation. This Department will invoice you.

If you have any questions regarding this matter, please contact Rachel Riess at (209) 525-6720.

Sincerely,

Rachel Riess, REHS  
Senior Registered Environmental Health Specialist

Enclosure (1)

cc: Quality Service, Inc., 2996 McHenry Avenue, Escalon, CA 95320



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**Attn:** Bill Ebert, Partner  
Riverview Mobile Estates, LLC

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1 116555(a)(1) and Title 22, California Code of Regulations (hereinafter "CCR"),  
2 Section 64431.

3  
4 **APPLICABLE AUTHORITIES**

5 **Section 116555(a) (1) of the CHSC states in relevant part:**

6 (a) Any person who owns a public water system shall ensure that the system does  
7 all of the following:

8 (1) Complies with primary and secondary drinking water standards.

9 **Section 116655 of the CHSC states in relevant part:**

10 (a) Whenever the Department determines that any person has violated or is  
11 violating this chapter, or any permit, regulation, or standard issued or adopted  
12 pursuant to this chapter, the director may issue an Order doing any of the following:

13 (1) Directing compliance forthwith.

14 (2) Directing compliance in accordance with a time schedule set by the  
15 department.

16 (3) Directing that appropriate preventive action be taken in the case of a  
17 threatened violation.

18 (b) An Order issued pursuant to this section may include, but shall not be limited  
19 to, any or all of the following requirements:

20 (1) That the existing plant, works, or system be repaired, altered, or added to.

21 (2) That purification or treatment works be installed.

22 (3) That the source of the water supply be changed.

23 (4) That no additional service connection be made to the system.





(5) That the water supply, the plant, or the system be monitored.

(6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the Department.

**CCR, Title 22, Section 64442 (a), states in relevant part:**

(a) Each community and nontransient-noncommunity water system (system) shall comply with the primary MCL's in Table 64442 in the drinking water supplied to the public.

**Table 64442  
Radionuclide Maximum Contaminant Levels (MCLs)  
And Detection Levels for Purposes of Reporting (DLRs)**

<i>Radionuclide</i>	<i>MCL</i>	<i>DLR</i>
Radium-226	5 pCi/L (combined radium-226 & -228)	1 pCi/L
Radium-228		1 pCi/L
Gross Alpha particle activity (excluding radon and uranium)	15 pCi/L	3 pCi/L
Uranium	20 pCi/L	1 pCi/L

**CCR Title 22, Section 64442, states in relevant part:**

(g) If any sample result is greater than an MCL:

(1) For a system monitoring less than quarterly, quarterly samples shall be collected and analyzed to determine compliance, pursuant to subsection (h);

(2) For a system that already has four consecutive quarterly results, compliance shall be determined pursuant to subsection (h).

(3) The system shall monitor quarterly until the results of four consecutive quarterly sample results do not exceed the MCL.

(h) A system with one or more sample results greater than an MCL shall determine compliance with the MCL as follows:





1 (1) At each sampling site, based on the analytical results for that site. Any  
2 confirmation sample result shall be averaged with the initial result.

3 (2) Using all monitoring results collected under this section during the previous  
4 12 months, even if more than the minimum required number of samples was  
5 collected.

6 (3) By a running annual average of four consecutive quarters of sampling  
7 results. Averages shall be rounded to the same number of significant figures as the  
8 MCL for which compliance is being determined.

9 (A) If any sample result will cause the annual average at any sample site to  
10 exceed the MCL, the system shall be out of compliance immediately upon receiving  
11 the result;

12 (B) If a system has not analyzed the required number of samples,  
13 compliance shall be determined by the average of the samples collected at the site  
14 during the most recent 12 months; and

15 (C) If a sample result is less than the DLR in table 64442, zero shall be  
16 used to calculate the annual average, unless a gross alpha particle activity is being  
17 used in lieu of radium-226, total radium, and/or uranium. In that case, if the gross  
18 alpha particle activity result is less than the DLR,  $\frac{1}{2}$  the DLR shall be used to calculate  
19 the annual average.

20 (4) If compositing is allowed at a sampling site, by the results of a composite of  
21 four consecutive quarterly samples.





1 (5) If the system can provide documentation that a sample was subject to  
2 sampling or analytical errors, the State Board may invalidate the result based on its  
3 review of the documentation, the sampling result, and the historical sampling data.  
4

### 5 STATEMENT OF FACTS

6 Riverview is operated under Water Supply Permit No. 2016-03-005, which was issued  
7 on March 17, 2016.  
8

9 Riverview water system is located in Stanislaus County along Geer Road,  
10 approximately 1.20 miles north of Empire. Riverview's service area is approximately  
11 31.7 acres in size.  
12

13 Riverview's water system is classified as a community water system that serves the  
14 residents of the mobile estate. According to the 2015 Annual Report to the Division,  
15 Riverview serves approximately 250 people through 175 service connections. None  
16 (0) of these service connections are metered and one hundred seventy-five (175) are  
17 un-metered. The water system obtains its water supply from two active well located in  
18 the Riverview service area.  
19

20 The wells discharge to a common 10,000-gallon pressure tank, prior to entering the  
21 domestic water system. Irrigation demands are not provided by these wells.  
22



Title 22, CCR, Division 4, Chapter 15, Article 4, establishes primary drinking water standards and monitoring and reporting requirements for radionuclide constituents. Community water systems must comply with the maximum contaminant level for uranium of 20 pCi/L, as established in Title 22 CCR Section 64442.

Samples collected in June 2015 showed uranium concentrations over the MCL in water produced by South Well (PS Code 5000090-002) as noted in **Table 1** below. Therefore, in accordance with Section 64442 (g), Riverview was required to begin quarterly uranium monitoring of each non-compliant well, unless it chose to submit an additional sample (which it did do). Section 64442 (h)(3) provides that compliance with the uranium MCL is based on a "running annual average" (RAA) of the quarterly monitoring samples, computed each quarter. Furthermore, Section 64442 (h)(3)(A) states: "If any sample result will cause the annual average at any sample site to exceed the MCL, the system shall be out of compliance immediately upon receiving the result." A summary of the wells that produce water with uranium above the MCL is presented in the table below. All results are as reported to the Division by the laboratory that performed the analysis.

**Table 1: Uranium Monitoring Results (in pCi/L)**

Sample Quarter	2nd Quarter 2015		3rd Quarter 2015	4th Quarter 2015	1st Quarter 2016	Running Annual Average
South Well	24.0	23.0	22.0	20.0	19.0	21.1

#### **DETERMINATION**

Based on the above Statement of Facts, the Division has determined that the water system has violated the California Health and Safety Code, Section 116555 and





1 Section 64442, Title 22, CCR, since the water produced by South Well West during  
2 the 1<sup>st</sup> quarter of 2016 exceeded the uranium MCL, as shown in **Table 1** above, and  
3 continues to be in violation through the date of this Order.

#### 4 5 **DIRECTIVES**

6 The Riverview is hereby directed to take the following actions:

- 7 1. On or before June 9, 2016, submit a written response to the Division indicating  
8 its agreement to comply with the directives of this Order and with the  
9 Corrective Action Plan addressed herein.  
10
- 11 2. Commencing on the date of service of this Order, provide quarterly public  
12 notification, in accordance with **Enclosure No. 1**, of the Riverview's failure to  
13 meet the uranium MCL during any calendar quarter that RAA exceeds the  
14 MCL.  
15
- 16 3. Commencing on the date of service of this Order, submit proof of each public  
17 notification conducted in compliance with **Directive No. 2**, herein above, within  
18 10 days following each such notification, using the form provided as **Enclosure**  
19 **No. 2**.  
20
- 21 4. Commencing on the date of service of this Order collect quarterly samples for  
22 uranium from each well, as required by Section 64442(g), and ensure that the  
23 analytical results are reported to the Division electronically by the analyzing



laboratory no later than the 10<sup>th</sup> day following the month in which the analysis was completed, but no later than the last business day of the month following the close of the calendar quarter.

5. Prepare for Division review and approval, and prior to implementation, a Corrective Action Plan identifying improvements to the water system designed to correct the water quality problem (violation of the uranium MCL) and ensure that Riverview delivers water to consumers that meets primary drinking water standards. The plan shall include a time schedule for completion of each of the phases of the project, such as design, construction, and startup, and a date as of which the Riverview will be in compliance with the Uranium MCL.
6. On or before August 9, 2016, present the Corrective Action Plan required under **Directive No. 5**, herein above, to the Division in person at the Division's office located at 3800 Cornucopia Way, Suite C, Modesto, CA 95358.
7. Perform each and every element of the Division's approved Corrective Action Plan according to its time schedule.
8. On or before July 10, 2016 and every three months thereafter, submit a report to the Division using the form provided as **Enclosure No. 3** (enclosed) showing actions taken to comply with the Corrective Action Plan during the previous three months.





1  
2 9. By no later than July 1, 2018, Riverview shall achieve compliance with the  
3 uranium maximum contaminant level, with the completion of a project and  
4 demonstration that the running annual average is reliably less than the MCL.  
5 Riverview shall provide written notification of the date that compliance is  
6 achieved, no later than ten days following receipt of the laboratory sampling  
7 results. Not later than ten (10) days following the date of compliance with the  
8 uranium MCL, demonstrate to the Division that the water delivered by  
9 Riverview complies with the uranium MCL.

10  
11 10. Notify the Division in writing no later than five (5) days prior to the deadline for  
12 performance of each **Directive**, set forth herein, if Riverview anticipates it will  
13 not timely meet such performance deadline.

14  
15 All submittals required by this Order shall be addressed to:

16 Rachel Riess, REHS  
17 Department of Environmental Resources  
18 3800 Cornucopia Way, Suite C  
19 Modesto, CA 95358

20 As used in this Order, the "date of issuance" shall be the date of this Order; and the  
21 "date of service" shall be the date this Order was served, personally or by certified  
22 mail, to Riverview.

23  
24 The Division reserves the right to make modifications to this Order and/or to issue  
25 further Order(s) as it may deem necessary to protect public health and safety.





1 Modifications may be issued as amendments to this Order and shall become effective  
2 upon issuance.

3  
4 Nothing in this Order relieves Riverview of its obligation to meet the requirements of  
5 the California SDWA, or any regulation, standard, permit or Order issued thereunder.

6  
7 **PARTIES BOUND**

8 This Order shall apply to and be binding upon Riverview, its owners, shareholders,  
9 officers, directors, agents, employees, contractors, successors, and assignees.

10  
11 **SEVERABILITY**

12 The Directives of this Order are severable, and Riverview shall comply with each and  
13 every provision hereof, notwithstanding the effectiveness of any other provision.

14  
15 **FURTHER ENFORCEMENT ACTION**

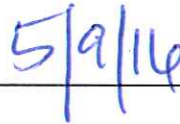
16 The California SDWA authorizes the Department to: issue a Citation with assessment  
17 of administrative penalties to a public water system for violation or continued violation  
18 of the requirements of the California SDWA or any regulation, permit, standard,  
19 Citation, or Order issued or adopted thereunder including, but not limited to, failure to  
20 correct a violation identified in a Citation or Compliance Order. The California SDWA  
21 also authorizes the Department to take action to suspend or revoke a permit that has  
22 been issued to a public water system if the public water system has violated  
23 applicable law or regulations or has failed to comply with an Order of the Department;





1 and to petition the superior court to take various enforcement measures against a  
2 public water system that has failed to comply with an Order of the Department. The  
3 Board does not waive any further enforcement action by issuance of this Order.

4 

5   
6 \_\_\_\_\_

6 Rachel Riess, REHS  
7 Senior Environmental Health Specialist  
8 Division of Environmental Health  
9 Department of Environmental Resources  
10 Stanislaus County

Date

11 Certified Mail No. 7014 3490 0001 6851 2751

12 Enclosures: (1) Public Notification Template w/ Instructions  
13 (2) Proof of Public Notification Form  
14 (3) Quarterly Progress Report





## Instructions for Tier 2 Chemical or Radiological MCLs Notice Template

### Template Attached

Since exceeding chemical or radiological maximum contaminant levels (MCLs) is a Tier 2 violation, you must provide public notice to persons served as soon as practical but within 30 days after you learn of the violation [California Code of Regulations Title 22, Chapter 15, Section 64463.4(b)]. **Each water system required to give public notice must submit the notice to the State Water Resources Control Board, Division of Drinking Water (DDW) for approval prior to distribution or posting, unless otherwise directed by the DDW [64463(b)].**

### Notification Methods

You must use the methods summarized in the table below to deliver the notice to consumers. If you mail, post, or hand deliver, print your notice on letterhead, if available.

<i>If You Are a...</i>	<i>You Must Notify Consumers by...</i>	<i>...and By One or More of the Following Methods to Reach Persons Not Likely to be Reached by the Previous Method...</i>
Community Water System [64463.4(c)(1)]	Mail or direct delivery <sup>(a)</sup>	Publication in a local newspaper
		Posting in conspicuous public places served by the water system or on the Internet <sup>(b)</sup>
		Delivery to community organizations
Non-Community Water System [64463.4(c)(2)]	Posting in conspicuous locations throughout the area served by the water system <sup>(b)</sup>	Publication in a local newspaper or newsletter distributed to customers
		Email message to employees or students
		Posting on the Internet or intranet <sup>(b)</sup>
		Direct delivery to each customer

(a) Notice must be distributed to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system.

(b) Notice must be posted in place for as long as the violation or occurrence continues, but in no case less than seven days.

The notice attached is appropriate for the methods described above. However, you may wish to modify it before using it for posting. If you do, you must still include all the required elements and leave the health effects and notification language in italics unchanged. This language is mandatory [64465].

### Multilingual Requirement

The notice must (1) be provided in English, Spanish, and the language spoken by any non-English-speaking group exceeding 10 percent of the persons served by the water



system and (2) include a telephone number or address where such individuals may contact the water system for assistance.

If any non-English-speaking group exceeds 1,000 persons served by the water system, but does not exceed 10 percent served, the notice must (1) include information in the appropriate language(s) regarding the importance of the notice and (2) contain the telephone number or address where such individuals may contact the water system to obtain a translated copy of the notice from the water system or assistance in the appropriate language.

### **Population Served**

Make sure it is clear who is served by your water system -- you may need to list the areas you serve.

### **Corrective Action**

In your notice, describe corrective actions you are taking. Do not use overly technical terminology when describing treatment methods. Listed below are some steps commonly taken by water systems with chemical or radiological violations. Use one or more of the following actions, if appropriate, or develop your own:

- "We are working with [local/state agency] to evaluate the water supply and researching options to correct the problem. These options may include treating the water to remove [contaminant] or connecting to [system]'s water supply."
- "We have stopped using the contaminated well. We have increased pumping from other wells, and we are investigating drilling a new well."
- "We will increase the frequency at which we test the water for [contaminant]."
- "We have since taken samples at this location and had them tested. They show that we meet the standards."

### **After Issuing the Notice**

Send a copy of each type of notice and a certification that you have met all the public notice requirements to the DDW within ten days after you issue the notice [64469(d)]. You should also issue a follow-up notice in addition to meeting any repeat notice requirements the DDW sets.

It is recommended that you notify health professionals in the area of the violation. People may call their doctors with questions about how the violation may affect their health, and the doctors should have the information they need to respond appropriately.

It is a good idea to issue a "problem corrected" notice when the violation is resolved.



## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.  
Tradúzcalo o hable con alguien que lo entienda bien.

### **[System] Has Levels of [Contaminant] Above the Drinking Water Standard**

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what you should do, what happened, and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Water sample results received on [date] showed [name of contaminant] levels of [level and units]. This is above the standard, or maximum contaminant level (MCL), of [standard and units].

#### **What should I do?**

- You do not need to use an alternative water supply (e.g., bottled water).
- This is not an immediate risk. If it had been, you would have been notified immediately. However, [insert relevant health effects language from section 64465 appendix].
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

#### **What happened? What is being done?**

[Describe corrective action]. We anticipate resolving the problem within [estimated time frame].

For more information, please contact [name of contact] at [phone number] or [mailing address].

*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.*

#### **Secondary Notification Requirements**

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:



- SCHOOLS: Must notify school employees, students, and parents (if the students are minors).
- RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS (including nursing homes and care facilities): Must notify tenants.
- BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS: Must notify employees of businesses located on the property.

This notice is being sent to you by [system].

State Water System ID#: \_\_\_\_\_. Date distributed: \_\_\_\_\_.





DEPARTMENT OF ENVIRONMENTAL RESOURCES

3800 Cornucopia Way, Suite C, Modesto, CA 95358-9494

Phone: 209.525.6700 Fax: 209.525.6774

**Drinking Water Notification to Consumers  
PROOF OF NOTIFICATION**

Name of System: \_\_\_\_\_

Please explain what caused the problem if determined and what steps have been taken to correct it.

\_\_\_\_\_

**Consumers Notified** \_\_\_\_\_ **Yes** \_\_\_\_\_ **No (if no explain)**

\_\_\_\_\_

**Date of Notification:** \_\_\_\_\_

On the date of notification set forth above, I served the above referenced document(s) on the consumers by:

\_\_\_\_\_ Sending a copy through the U.S. Mail, first class, postage prepaid, addressed to each of the resident(s) at the place where the property is situated, pursuant to the California Civil Code.

\_\_\_\_\_ Newspaper (if the problem has been corrected).

\_\_\_\_\_ Personally hand-delivering a copy to each of the consumers.

\_\_\_\_\_ Posting on a public bulletin board that will be seen by each of the consumers (for small non-community water systems with permission from the Environmental Resources Department)

\_\_\_\_\_ Other Approved Method: \_\_\_\_\_

\_\_\_\_\_

**I hereby declare the foregoing to be true and correct.**

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature of Person Serving Notice

**Notice:** Complete this Proof of Notification and return it, along with a copy of the water user notification, to the Department of Environmental Resources, 3800 Cornucopia Way Suite C, Modesto, CA 95358, within **7 Days** after notifying water users.

Enclosure #2



# Quarterly Progress Report

Water System:	Water System No.:
Compliance Order No.:	Violation:
Calendar Quarter:	Date Prepared:

This form should be prepared and signed by Water System personnel with appropriate authority to implement the directives of the Compliance Order and the Corrective Action Plan. Please attach additional sheets as necessary. The quarterly progress report must be submitted by the 10th day of each subsequent quarter, to the Division of Drinking Water, \_\_\_\_\_ District Office.

**Summary of Compliance Plan:**

--

**Tasks completed in the reporting quarter:**

--

**Tasks remaining to complete:**

--

**Anticipate compliance date:**

--

--

**Name**

--

**Signature**

--

**Title**

--

**Date**



## **Appendix D**

### **Summary of Source Water Quality**





# Riverview Mobile Estates: Summary of Source Water Quality

Analyte Name	UNIT	South Well		Southwest Well		North PVC Well				Test Bore				MCL	MCL <sup>2</sup>
		Date	Result	Date	Result	150' - 170' Pump Depth		240'-260' Pump Depth		120' - 149' Zone Test		250' - 271' Zone Test			
						Date	Result	Date	Result	Date	Result	Date	Result		
Chlorinated Pesticides & PCBS (14)	mg/L		ND		ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	ND	6/6/2018	ND	Varies	/
Purgeable Organic Compounds (29)		12/5/2017	ND	12/5/2017	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	ND	6/6/2018	ND	Varies	/
Aggressive Index	mg/L							10/6/2017	12	6/7/2018	12.1	6/6/2018	12.4	/	/
Bicarbonate (as CaCO3)	mg/L	2/14/2017	357.4	2/14/2017	388.1	7/12/2017	317.7	10/6/2017	260	6/7/2018	340	6/6/2018	290	/	/
Calcium	mg/L	2/14/2017	100	2/14/2017	89.8	7/12/2017	79.5	10/6/2017	55	6/7/2018	65	6/6/2018	80	/	/
Chloride	mg/L	2/14/2017	35.5	2/14/2017	17.4	7/12/2017	46.6	10/6/2017	44	6/7/2018	24	6/6/2018	45	/	500
Hardness (as CaCO3)	mg/L	2/14/2017	309.4	2/14/2017	322.1	7/12/2017	279.4	10/6/2017	250	6/7/2018	280	6/6/2018	300	/	/
Langlier Index	mg/L	9/26/2006	0.5					10/6/2017	0.5	6/7/2018	-0.16	6/6/2018	0.14	/	/
Nitrate (as N)	mg/L	7/2/2018	9.5	7/2/2018	8.2	7/12/2017	8	10/6/2017	7	6/7/2018	8.4	6/6/2018	6.7	10	/
pH	/	2/14/2017	7.7	2/14/2017	7.7	7/12/2017	7.4	10/6/2017	7.9	6/7/2018	7.33	6/6/2018	7.62	/	/
Sulfate (as SO4)	mg/L	2/14/2017	47.4	2/14/2017	46	7/12/2017	48.7	10/6/2017	47	6/7/2018	79	6/6/2018	44	/	500
Total Alkalinity	mg/L	2/14/2017	292.2	2/14/2017	318.2	7/12/2017	260.4	10/6/2017	260	6/7/2018	340	6/6/2018	290	/	/
TDS	mg/L	2/14/2017	504	2/14/2017	449	7/12/2017	560	10/6/2017	450	6/7/2018	580	6/6/2018	440	/	1000
DBCP/EDB	µg/L	4/3/2018	ND	4/3/2018	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	ND	6/6/2018	ND	0.2/0.05	/
Gross Alpha	pCi/L	8/15/2018	19.2 ± 3.86	8/15/2018	34.2 ± 5.99	7/12/2017	17.1 ± 0.651	10/6/2017	18.6 ± 0.678	6/7/2018	51.4 ± 5.77	6/6/2018	14.6 ± 2.99	15	/
Uranium (FWL Report)	pCi/L	8/15/2018	19	8/15/2018	26	7/12/2017	14	10/6/2017	16					20	/
Uranium (CLS Report, "CWT")	pCi/L									6/7/2018	48	6/6/2018			
Uranium (CLS Report)	pCi/L									6/7/2018	53	6/6/2018	ND	20	/
Uranium (FGL Report)	µg/L	8/15/2018	29.9 ± 3.63	8/15/2018	37.9 ± 4.06					6/7/2018	38.9 ± 5.01	6/6/2018	15.3 ± 3.22	20	/
Combined Radium (226 + 228)	pCi/L	3/9/2015	ND	11/16/2018	0.063	7/12/2017	1.95 ± 0.65	10/6/2017	9.79 ± 1.61	6/7/2018	0.333 ± 0.786	6/6/2018	0.275 ± 1.028	5	/
DISSOLVED Aluminum										6/7/2018	ND	6/6/2018	490		
TOTAL Aluminum	µg/L	9/5/2017	1300	7/10/2017	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	270	6/6/2018	300	1000	200
DISSOLVED Arsenic	µg/L									6/7/2018	4.5	6/6/2018	3.3		
TOTAL Arsenic	µg/L	9/5/2017	ND	7/10/2017	ND	7/12/2017	4.7	10/6/2017	5.4	6/7/2018	3.7	6/6/2018	4.6	10	/
TOTAL Barium	µg/L	9/5/2017	200	7/10/2017	210	7/12/2017	300	10/6/2017	310	6/7/2018	310	6/6/2018	340	1000	/
TOTAL Boron	µg/L	8/8/2003	ND	/	/					6/7/2018	ND	6/6/2018	180	/	/
TOTAL Iron	µg/L	2/14/2017	2700	2/14/2017	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	250	6/6/2018	290	/	300
TOTAL Manganese	µg/L	2/14/2017	56	2/14/2017	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	37	6/6/2018	20	/	50
TOTAL Vanadium	µg/L	8/8/2003	19	/	/					6/7/2018	22	6/6/2018	13	/	/
E. Coli	MPN/1000ML	1/31/2017	ND	10/24/201		7/12/2017	ND	10/6/2017	ND	6/7/2018	Present	6/6/2018	Absent	<1	<1
Total Coliform	MPN/1000ML	9/19/2017	ND	10/27/2016	ND	7/12/2017	ND	10/6/2017	ND	6/7/2018	Present	6/6/2018	Present	<1	<1
Asbestos	MFL>10um					7/12/2017	ND	10/6/2017	ND	6/7/2018	ND	6/6/2018	ND	7	/

Iron had been historically ND in the South Well.



## **Appendix E**

### **Groundwater Treatment Facility Proposals**





September 27, 2019  
Proposal No.: MP200607.001P

William Ebert  
Alliance Manufactured Homes, Inc.  
2967 Daylight Way  
San Jose, California 95111  
Via Email: willamebert48@aol.com

**SUBJECT: PROPOSAL  
GROUNDWATER TREATMENT FACILITY  
RIVERVIEW MOBILE HOME ESTATES  
8200 JANTZEN ROAD  
STANISLAUS COUNTY, CALIFORNIA**

Dear Mr. Ebert:

Kleinfelder understands the Alliance Manufactured Homes, Inc. intends to retain a qualified consultant to provide engineering services for design of the groundwater treatment facility which will be constructed to remove uranium radioactivity from the groundwater at the Riverview Mobile Home Estates (RMHE) located at 8200 Jantzen Road, Stanislaus County. Kleinfelder is highly qualified for the requested services, and our proposal shows that Kleinfelder is the consultant of choice by offering the following benefits:

- An approach that provides the facility design that will reliably and cost efficiently remove the uranium radioactivity from the source water
- Strong expertise and extensive experience dealing with ion exchange (IX) technologies
- Project Manager, Sava Nedic, PE, PMP BCEE with a track-record of successful completing similar treatment facility projects

Kleinfelder is proposing to complete the Groundwater Treatment Facility design as specified by the requested scope of work for an engineering fee of **\$77,865** and within the proposed schedule of **six month**. We are committed to completing your project on time and within the proposed budget. We look forward to the opportunity to serving the Alliance Manufactured Homes and the RMHE on this important project.

If you have any further questions, please feel free to contact me at (916) 366-1701, or our proposed Project Manager Mr. Sava Nedic at (949) 233-6871.

Respectfully submitted,

**KLEINFELDER, INC.**

Joseph D. Zilles, P.G. No. 7787  
Sr. Principal Hydrogeologist,  
Principal in Charge

MP200307.001P/SAC19P101786

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**KLEINFELDER** 2882 Prospect Park Dr., Suite 200, Rancho Cordova, CA 95670 p | 916.366-1701 f | 916.366-7013



## SCOPE OF WORK

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### EXECUTIVE SUMMARY

Prepared in accordance with the Request for Proposal (RFP), this proposal demonstrates Kleinfelder is the right firm to provide expert engineering services for the Groundwater Treatment Facility. Mr. Sava Nedic, PE, PMP, BCEE, Project Manager, will lead our project team in preparing an accurate, efficient treatment system design, particular to the needs of the RMHE.

### Method to Accomplish the Work

Kleinfelder has developed the method to accomplish the work based on the RFP specified scope of work (SOW) and our team's expertise. The proposed method to accomplish the work has been prepared for the entire project including the existing well pump reconfiguration, new IX system to remove uranium from the well water, chlorine disinfection system rehabilitation and upgrades, storage reservoir rehabilitation and upgrades, and new water distribution system pumps station.

**Selection of an appropriate resin for a specifically targeted water contaminant is critical for the successful and cost-efficient operation of the facility.**

### Fee Proposal Estimate and Anticipated Schedule

The Kleinfelder proposed fee to providing professional engineering services for the Well Water Treatment Facility design project is \$76,701. The proposed fee is based on the RFP proposed Scope of Services and is prepared using the Kleinfelder standard hourly rates typical for this project type. Kleinfelder is proposing to complete the final design documents that will be ready for bidding for a time period of six calendar months.

### Other Information

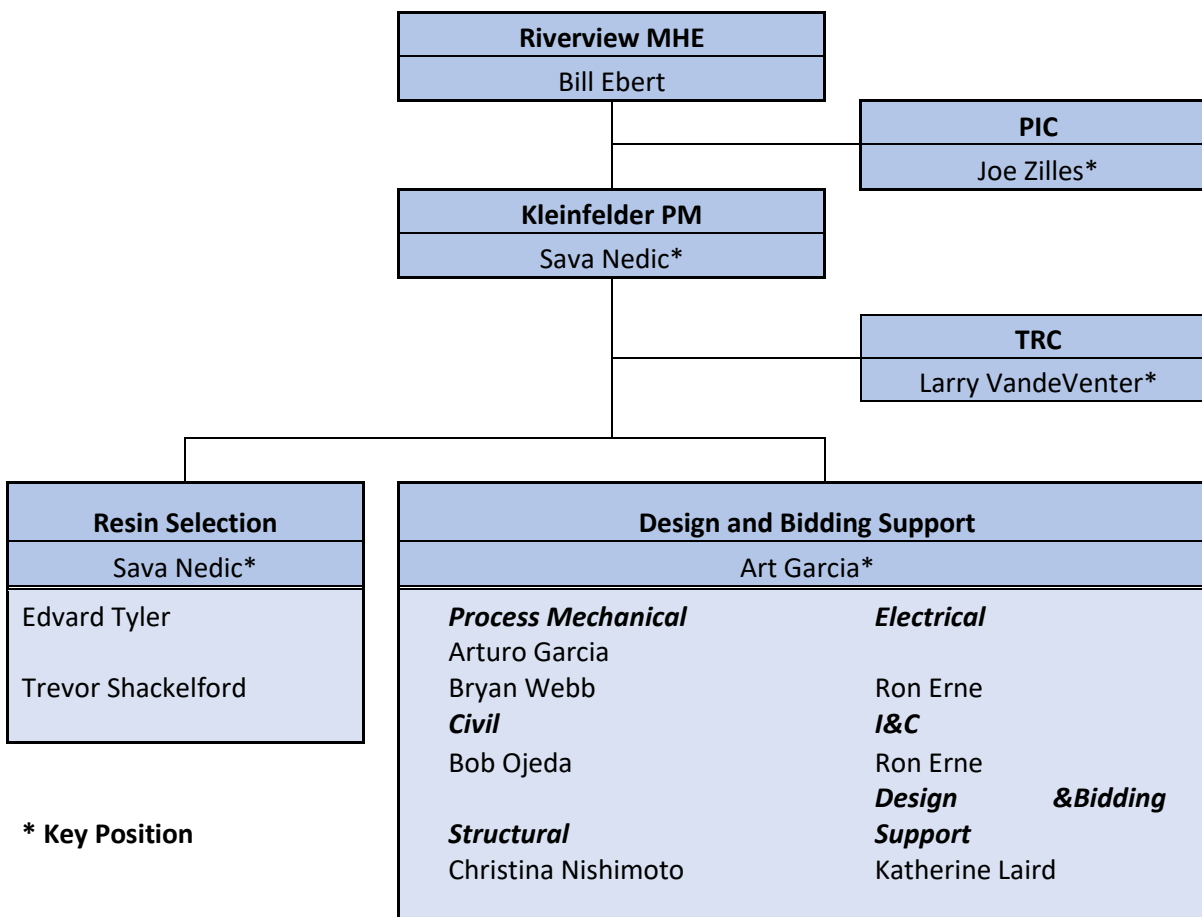
Kleinfelder's proven history of design and implementation of groundwater treatment projects is demonstrated throughout this section. From selection of the best ion exchange (IX) resin for this application, detailed design, project management and quality control and assurance, Kleinfelder will consider all appropriate elements for project execution including long-term operations and maintenance requirements. Utilizing key experience such as the City of Highland Plant 150 Testing and Design Project, Mr. Nedic will provide expert design for your IX treatment facility to remove uranium radioactivity. For the Coronado Pump Station and Force Main Project, Kleinfelder led the accelerated schedule through all facets of the required CEQA permitting including alignment with multiple stakeholders and regulatory bodies. The accelerated permitting process allowed the project to proceed on-time and on-budget.

### ORGANIZATION CHART AND STAFFING RESOURCES

Kleinfelder is proposing a project team of specialists with extensive experience with Ion Exchange technologies and delivering high-quality design documents for many water treatment plants on-time and within the authorized budget. As presented in the organization chart, our project team is



organized to provide effective project management and logical execution of the RFP proposed Scope of Services.



\* Key Position

PIC - Principal in Charge, PM – Project Manager, TRC – Technical Review Committee  
The organization chart designates key professionals with an asterisk (\*).

The team supporting Mr. Nedic is comprised of regional and local experts. A brief description of each lead is presented below followed by resumes of each team member.

**Mr. Sava Nedic, PE, PMP, BCEE, Project Manager, will lead this dedicated team of well treatment experts and experienced design staff to deliver on the treatment plant scope of services.** Mr. Nedic has an extensive experience in designing water treatment facilities including projects employing ion exchange (IX) technologies which is key for the IX resin selection task. Mr. Nedic's expertise in water resources, conveyance and wastewater treatment and water quality control processes including ion exchange technologies will provide expert leadership. He is proficient with the management of engineering tasks and will deliver the City a high-quality design on- time and within agreed on budget.

The Technical Review of deliverable documents will be performed by an industry veteran, **Larry VandeVenter**. Mr. VandeVenter provides 36 years of expert water treatment project development and feasibility studies. Mr. **Edward Tyler** with more than 29 years of experience specializing in biological and chemical in-situ and ex-situ water treatment processes including ion exchange technologies will provide an important support for IX resin selection. Mr. **Arturo Garcia**, lead for



the preliminary and final design, is skillful in municipal water and infrastructure projects. Mr. Garcia has a strong technical background, experience developing plans and specifications for water and wastewater treatment facilities and is proficient performing civil/mechanical/hydraulic engineering calculations and analysis, equipment selection, and cost estimating.

## Brief Resumes

Brief resumes for the team proposed for the project are included below (alphabetically by last name).

Ron K. Erne, PE <i>Electrical, Instrumentation, &amp; Controls Design</i>	Kleinfelder
BS, Electrical Engineering   Professional Engineer – California	
Mr. Erne has 46 years of experience in various major applied areas of electrical engineering/design including the initial 12 years with two major electrical utility companies, involving medium and high voltage systems operation and main transmission distribution substation and power generation. These initial projects consisted of direct hands-on involvement regarding Main system operations and detailed design, procurement and commissioning of several 25kV to 240kV electrical substations within the main Alberta grid system. The latter 6 years six years was spent in the detailed EPC phases regarding a thermoelectric Power generation utility. This involved positions from a Senior Engineer to an overall Lead Engineer responsibility regarding Two 200 MW Steam Turbine Gas Fired Generation units and front end Engineering for one 400 MW Steam Turbine Coal fired Generation Unit. During this period considerable time was also spent (approximately 20 months) as Chief Commissioning Engineer involving detailed checkout, testing and initial operation of all mechanical, electrical and control systems associated with the two steam turbine gas fired boiler thermoelectric generation units. The latter thirty-four years has been spent as a Lead Electrical Engineer, responsibility involving several large petrochemical processing plant EPC projects in the range of \$50M to \$6000M within and outside Canada.	

Arturo Garcia, PE - Design Lead	Kleinfelder
BS, Civil Engineering, ME Environmental Engineering   Professional Engineer-Civil, California	
Arturo Garcia, PE is a project engineer with over 8 years of experience specializing in water and wastewater infrastructure design. Mr. Garcia is experienced in the design of piping systems in treatment plant and distribution systems. He is responsible for detailed design and layout, civil/mechanical calculations and hydraulic analysis, equipment selection, cost estimation, and development of plans and specifications.	

Katherine Laird, PE, Design & Bidding Support Engineering OOC	Kleinfelder
BS, Environmental Engineering   EIT - California	
Ms. Laird is an environmental engineer and has seven years of experience in the fields of environmental engineering and compliance, including conducting multimedia compliance audits; Construction General Permit (CGP) and Industrial General Permit (IGP) stormwater compliance; stormwater Best Management Practice (BMP) design; preparation of Stormwater Pollution Prevention Plans (SWPPPs); aboveground storage tank/underground storage tank compliance and preparation of SPCC Plans; industrial wastewater compliance and reporting. She has experience with environmental engineering principles including analysis and design (mass balance, hydraulic/solids loading), hydraulics and hydrology (closed conduit, open channel flow, runoff analysis, hydrograph development, stormwater management), wastewater collection and treatment (systems, processes, preliminary/primary/secondary/advanced treatment), water quality (TMDLs, stream degradation, biological/chemical contaminants), and drinking water	



distribution and treatment (systems, processes, demands, storage, taste and odor control, disinfection, hardness and softening).

<b>Sava Nedic, PE. PMP BCEE, <i>Project Management</i></b>
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Kleinfelder
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BS, Civil Engineering   MS Environmental Engineering, Professional Engineer-Civil, California
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Mr. Nedic has 40 years of diverse experience in the planning, designing, project management and construction of wastewater and water systems with an emphasis in water conveyance systems including pump stations and pipelines, water treatments and wastewater treatments. He managed and designed multiple water treatment projects employing conventional and advanced water treatment technologies including RO and IX. Mr. Nedic is the Project Management Institute certified Project Management Professional and has served as a project manager for public water and wastewater projects in the counties of Riverside, San Diego, San Bernardino, Orange, Los Angeles, and Ventura, California. Recently he managed a multiple project for the City of San Diego's Pure water program. Mr. Nedic provides directions and technical guidance to his teams, maintains implementation of quality procedures and leads projects to completions of his projects on time and within budget.

<b>Christina Nishimoto, SE <i>Structural Design</i></b>
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Kleinfelder
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BS, Structural Engineering   MS Structural Engineering   Professional Engineer – Civil and Structural
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Ms. Nishimoto has 13 years of experience working with steel, concrete, masonry, and timber structures. She is knowledgeable about the design considerations of all four materials and their respective governing codes. Her project experience includes working on the design and analysis of reservoirs, pump stations, and vaults. Ms. Nishimoto's design phase work includes attending meetings, coordinating with trade professionals, and structural analysis and detailing. Ms. Nishimoto has experience managing multi-disciplinary teams and overseen the preparation of reports, design drawings, and cost estimates.

<b>Bob Ojeda, PE, <i>Civil Design</i></b>
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Kleinfelder
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BS, Civil Engineering   Profession - California
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Mr. Ojeda has worked as a civil engineer for over 20 years. His primary role has been that of a civil engineer, specializing in land development and storm water management design and permitting. His experience includes the planning and design of various project types including office, retail, residential, resorts, schools, natural gas gathering lines, public and private utilities and roads. He has taken projects from the preliminary phase all the way through to final construction. Documents prepared and processed by Mr. Ojeda have included planned development permits, site development permits, grading plans, improvement plans, erosion control plans, utility plans, encroachment permits, tentative maps, subdivision maps, parcel maps, and lot line adjustments. Mr. Ojeda's storm water background includes Storm Water Pollution Prevention Plans (SWPPPs), Water Quality Technical Reports (WQTRs), and Drainage Studies.

<b>Trevor Shackelford, PE <i>Civil</i></b>
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Kleinfelder
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BS, Environmental Engineering   P - California
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Mr. Shackelford is a project engineer with over 5 years of experience specializing in water and wastewater infrastructure design. Mr. Shackelford is experienced in the design of pump stations, solids handling facilities, anaerobic digestion, process systems and treatment systems. He is responsible for detailed design and layout, project management, civil/mechanical calculations and analysis, equipment selection, cost estimation, and development of plans and specifications. Mr. Shackelford is a registered Project Management Professional.



**Edward Tyler, PE** *IX resin selection*

Kleinfelder

MS, Civil Engineering; BS, Environmental Engineering | Professional Engineer - Arizona

Mr. Tyler's experience includes 29 years as an environmental/civil engineer specializing in environmental characterization and remediation. Mr. Tyler frequently provides expert guidance related to perchlorate regulation, assessment and remediation. He provided technical writing for the Interstate Technology and Regulatory Council on perchlorate. Biological technology expertise includes bio barrier/permeable reactive barrier (PRB) design/implementation using emulsified vegetable oil, zero-valent iron (ZVI), and other carbon substrates. In-situ chemical oxidation (ISCO) experience includes the design and implementation utilizing reagents such as hydrogen peroxide, activated persulfate, permanganate, ozone, and calcium peroxide.

**Larry VandeVenter** *Technical Review Committee*

Kleinfelder

BS, Biology

Mr. VandeVenter has 36 years of experience as a professional water treatment engineer. He has performed process development and feasibility studies for numerous water treatment projects throughout the world that have resulted in full-scale plant installations. Mr. VandeVenter is also recognized as an expert in disinfection, control of disinfection by-products, water reuse, membrane separation technologies, desalination, coagulation, high-rate clarification, filtration, and ozonation. He is a recognized expert for conceptualizing, developing, and designing water treatment processes. He provides technical guidance for Kleinfelder's most complex water treatment projects.

**Bryan Webb, PE**

Kleinfelder

BS, Civil Engineering - California

Mr. Webb is a project engineer with 6 years of experience specializing in potable, storm, and waste water infrastructure design. Mr. Webb has designed municipal water distribution, sewage collection, and storm conveyance systems. In addition, Mr. Webb has been the lead designer on mechanical piping and pump station system designs for major water and waste water treatment plants. Mr. Webb is responsible for the design related to producing pipeline plans, specifications, and opinion of probable construction costs.

## PROPOSED METHOD TO ACCOMPLISH THE WORK

Kleinfelder's proposed method to accomplish the work has been developed based on the RFP specified scope of services, our understanding of the existing condition of the current water supply system and the RMHE objective and goals. The proposed method to accomplish the work has been prepared for the entire project including the existing well pump reconfiguration, new IX system to remove uranium from the well water, chlorine disinfection system rehabilitation and upgrades, storage reservoir upgrades and rehabilitation/reconfiguration, and new water distribution system pumps station.

## Project Understanding and Objectives

RMHE includes 170 mobile homes providing accommodation for a community of up to 585 residents. The existing RMHE water supply system relies on ground water provided by the two existing wells, W2 and W13. One additional well (North Well) exists on site but has not been used in the past. RMHE plans to discontinue the use of W2 and incorporate the North Well into its water system. In addition, the existing system incorporates a disinfection system using sodium



hypochlorite, a transient flow control tank and water distribution booster pump station. Elevated concentrations of uranium and gross alpha were noticed in the groundwater from the existing wells. Presently, uranium radiation levels in the two existing operational wells are in a range of 11-21 pCi/L. A test well was completed in 2017 (Well KB-01) which showed uranium concentrations of 38.9 pCi/L in the shallower (120-149ft) aquifer, and not detected in the deeper (250-271ft) aquifer. RMHE does not have plans to install a new well at this time.

RMHE wants to design and construct the Groundwater Treatment facility that will remove radionuclides: uranium and gross alpha radiation from the well water and provide for disinfection of the treated water before its delivery to the customers. The objective is to provide the product water quality in compliance with the Division of Drinking Water (DDW) set maximum contaminant level (MCL) and possible to maximum contaminant level goal (MCLG) for radionuclides in drinking water including 15 pCi/L and 0 pCi/L, respectively for gross alpha, and 20 pCi/L and 0 pCi/L, respectively for uranium radiation. In addition, RMHE wants to rehabilitate and upgrade the existing water supply system, and to integrate the new uranium removal facility with the overall water supply system providing reliable and safe drinking water supply to the community at acceptable rates.

## **Project Approach**

Kleinfelder's project approach starts with an assessment of water demand and system hydraulic analysis, and extends through upgrades to the existing well pumps, ground water treatment, disinfection, product water storage and water distribution pump station. A key step in the success of the treatment system design will be the selection of the resin to be used. We have put an emphasis on the selection process as reflected in the scope described below, will provide bid ready design documents, and provide bid assistance to answer any questions and select the right contractor.

### **TASK 1      SYSTEM ASSESSMENT**

The Kleinfelder Project Manager will coordinate and attend a project kick-off meeting with RMHE prior to the start of the tasks outlined below to discuss the scope, schedule, and deliverables. It is anticipated the kick-off meeting will take place at the RMHE and a site walk will occur to view the existing equipment and ground conditions.

**Water demand and system capacity sizing.** Based on the current and projected customer base, Kleinfelder will assess water demand for the RMHE project based on annual average, daily and hourly peak demands for domestic water supply that will include irrigation and fire protection. We will use historical data of the community water consumption and will work closely with RMHE management to set up per capita water demand. Flow capacity of the Well Water Treatment facility will be sized to provide domestic and limited irrigation water demand. Fire protection flow will be provided by a connection to the well pump discharge that will by-pass the treatment facilities and the community water supply system.

**System Hydraulics.** Kleinfelder's basic hydraulic concept assumes the ground water basin is a gigantic storage reservoir that eliminates need for construction of a costly water storage reservoir. To accommodate hourly peak demand, one of the two existing wellhead pumps and one water distribution pump will be furnished with variably frequency drives. We will examine if the existing wellhead pumps have enough head to overcome head losses through the new IX system and to discharge the treated water into the existing transient flow controlling tank, which may be used as



a wide pipe spot/wet well for the new water distribution pump station. We believe that RMHE will achieve substantial cost saving by eliminating construction of the product water storage reservoir by installation of two VFD pumps (one at the existing well and one at the new well)

**Existing Well Pump Rehabilitation and Upgrades.** Based on historical operation records and field inspection, Kleinfelder will assess the condition of the existing Well 2 and Well 13 pumps and recommend if any repairs or rehabilitation is required for long term operation with the new Well Water Treatment facility. In addition, based on the hydraulic analysis we will propose a VFD retrofit to one or both existing well pumps.

## **TASK 2      RESIN SELECTION AND TREATMENT SYSTEM**

**Uranium Removal Technology.** There are a number of treatment technologies for radionuclides including uranium removal from water such as chemical precipitation, reverse osmosis (RO) and ion exchange resin. However, as identified by the RFP, uranium treatment process using an ion exchange (IX) resin is the most practical and if properly designed exceptionally reliable and the most cost-efficient technology for this application.

**Benefit:** Kleinfelder will gather and review all available project relevant information including well construction documents, historical operation and maintenance data as well as water quality data. Based on the well water quality data and assuming a worst-case water quality scenario (the highest radionuclide contaminant concentration), we will conduct a search for the most appropriate IX resin to remove Uranium and Gross Alpha from the source water. It is assumed that up to twelve IX resin candidates will be identified and screened for the uranium and gross alpha removal. The screening shall include gathering information on operational efficiency from similar facilities, IX resin performance projection, and testing. For the identified IX resin candidates, performance data will be obtained from at least three full scale application with similar water quality and operational conditions with the RMHE project. Based on the performance from the existing full-scale facilities and resin performance projection results, up to three best IX resin candidates will be selected for design. The performance specification for the IX system shall include provisions for testing of the selected IX resin before its installation in the IX vessels.

**Benefit:** To decrease the burden to the RMHE of disposing toxic and radioactive material coming from the resin regeneration, the IX resin shall be non-regenerable single pass through. Consequently, the selected IX resin shall be a strong base anionic resin with high affinity to Uranium that surpasses affinities for the other ions. The IX vessel arrangement will be lead-lag with piping system that will allow for interchanging of the lead and lag vessel positions. The IX system will be designed to allow the spent IX resin to be removed and fresh resin to be installed.

**Groundwater Treatment Facility.** The new Water Treatment facility will be designed as an outdoor facility seated on a concrete housekeeping pad. The IX facility will be designed as a stand-alone packaged system resulting in faster to construct and less to design project costs. Detailed performance specifications will be prepared in lieu of detailed design drawings so that the constructed facility will meet the project objectives. The performance specifications will specify all IX system components starting from the isolation valve on the IX system inlet piping all way through to the isolation valve on the effluent piping. The design for the system will include IX resin vessels with interconnecting piping, flow controlling valves, as well as process controlling and monitoring instruments.

**Water Disinfection.** In addition to removing radionuclides, the new Groundwater Treatment facility will include a treated water disinfection system. The existing chlorinator system shall be



rehabilitated and integrated with the new treatment facility to provide disinfection of the treated water. We will assess the physical condition of the existing sodium hypochlorite storage tank and make recommendations if its replacement or rehabilitation will be required. Similarly, we will assess the condition of the existing sodium hypochlorite feed pumps and make recommendations if it requires rehabilitation or replacement with new pumps and piping.

**Product Water Distribution.** Based on our initial evaluation, it appears the existing well pumps have enough discharge pressure to overcome head losses through IX resin vessels with residual pressure that is sufficient for the treated water to be conveyed and stored in the existing transient flow controlling tank. The existing tank will be rehabilitated and reconfigured to accommodate any changed operational requirements associated with the new treatment facility and will have a function of a wet-well for the water distribution system pump station. Because the system pressure break, the function of the existing water supply booster pumps will change. Kleinfelder will assess the condition of the existing booster pumps and based on the new function in the system will make recommendations for their replacement or (if feasible) rehabilitation and upgrades that may include replacement of the current impellers and electric motors.

**Power Supply and Control.** With an assumption that the existing power supply system is sufficient for the new Well Water Treatment facilities, the Kleinfelder electrical design will include upgrades, rehabilitation, reconfiguration and reprogramming to the existing well water and water distribution pump electric motors, instrumentation, and enclosure for motor starters and electrical control panel with Programmable Logic Controls (PLC).

### **TASK 3      DESIGN**

**Design.** Upon selection of the best IX resins for the project, Kleinfelder will proceed in the Final Design. The Final Design will be delivered in three submittal steps including 30% Design, 90% Design and the Final Design. The Final Design includes preparation of design plans and specifications and engineering OPCC.

Site topographic maps, as-built or design drawings for the existing wells, chlorinator, reservoir and water distribution pumps will be provided by the RMHE. We will utilize geotechnical information and data from the existing well drilling and design documents of the existing facilities to establish soil parameters for the new facility design. If necessary, additional geotechnical borehole(s) will be requested to be provided by the RMHE after 30% design. Existing record drawings shall be reviewed for underground utilities. Field verification will be performed to visually confirm utility locations by features visible from the surface. If necessary, a potholing will be specified for contractor to confirm physical location of the below grade utilities before construction commencement.

**Opinion of Probable Construction Costs.** Kleinfelder will prepare and submit an engineering OPCC with the final design submittal. Our engineering cost estimate approach relies on realistic equipment supplier quotes, local construction environment ENR means and methods, Kleinfelder and personnel institutional knowledge, and specialized construction company “reality checks” of estimated costs.

### **TASK 4      BIDDING SUPPORT**

The Kleinfelder Project Manager and team will provide support to RMHE after design during the bidding process by being available during the Pre-bid meeting, working with RMHE to assist



interpreting the bids, assisting RMHE with evaluating the bids and contractor recommendation. Kleinfelder will also provide conformed documents as needed.

## TASK 5 – PROJECT MANAGEMENT

**Project Management.** Leading our project team will be Project Manager, Sava Nedic, PE. PMP, BCEE. He has over 40 years of planning, designing, construction and commissioning of several water treatment facilities with diverse treatment technologies, including IX. Before the project kick-off meeting, we will prepare an abbreviated Project Management Plan that will include scope of work, budget, project execution schedule and deliverable quality assurance / control (QA/QC) procedures and approaches.

We will use the schedule to keep track of progress and to assure that all deliverables are produced and delivered as planned. As the project execution proceeds, we will update the schedule which will be submitted to and discussed with the RMHE project management. We will use earned value approach for invoicing and to assess our project budgetary performance. Any changes in the scope, schedule, and budget during the project execution will be immediately presented to and discussed with the RMHE project management.

Kleinfelder's standard Quality Management Program (QMP) will be implemented to secure quality of all deliverables. The QA/QC plan will include reviews of all deliverables by project staff and by independent technical staff. All internal QA/QC issues will be resolved prior to submittal to the RMHE and written documentation of all reviews will be maintained.

## FEE PROPOSAL

Kleinfelder's proposed fee for the Groundwater Treatment Facility project is \$77,865. A summary of the proposed fee breakdown per tasks of the Proposed Scope of Service is presented in the table below.

### FEE ESTIMATE SUMMARY Groundwater Treatment Facility

LABOR CATEGORY	TOTAL HOURS	LABOR FEE	EXPENSE FEE	TOTAL FEE
TASK 1 – System Assessment	22	\$3,000	\$0	\$3,000
TASK 2 – IX Resin Selection	56	\$10,100	\$650	\$10,750
TASK 3 – Design	354	\$52,200	\$700	\$52,900
TASK 4 – Bidding Support	30	\$4,700	\$200	\$4,900
TASK 5 – Project Management	31	\$5,800	\$515	\$6,315
<b>TOTALS</b>	<b>493</b>	<b>\$75,800</b>	<b>\$2,065</b>	<b>\$77,865</b>

Our Master Services Agreement (MSA) for professional services is attached for your review. If our proposed scope of services, General Conditions, and fee meet your needs please initial each page of the MSA, sign both copies of the Work Order attached to the MSA and return to our office. Upon receipt, we will return one fully executed copy for your records.



If there is a need for any change in the scope of services described in this proposal, please contact us immediately. Changes may require revision of the proposed fee, which will be communicated to you upon assessment of the requested changes.

All terms and conditions indicated in this proposal will be considered by both parties to be in effect from the effective date of the executed contract through completion of the project. Separate proposals for future phases of work can be provided as the development process moves forward.

The following are assumptions of the Kleinfelder proposed fee:

1. The proposed fee is based on the RFP proposed Scope of Services.
2. The proposed fee is based on assumed labor hours to complete the task as defined and described in the RFP and on Kleinfelder's labor hourly rates.
3. Kleinfelder's proposed fee assumes that the final design will have 16 design drawings, as follows:

Discipline	Number of Sheets	Discipline	Number of Sheets
G-General	4	M-Process Mechanical	2
D-Demolition	1	E-Electrical	3
C-Civil	3	I-Instrumentation and Control	2
S-Structural	1		
		<b>Total Number of Sheets</b>	<b>16</b>

## OTHER INFORMATION

The Kleinfelder project team has a vast and diverse experience including studying, planning, testing and designing IX treatment facilities. The variety of our experience with groundwater treatment includes ex-situ, biological and physical/chemical (ion exchange) processes for potable water supply as well as in-situ groundwater basin remediation. We have pride in our environmental CEQA and NEPA work experience such as environmental documents and permits recently prepared for the City of Coronado, CA and completed within a record short time of less than seven months. Our experience with condition assessment, hydraulics and reconfiguration of existing pumping facilities such recently completed Miramar Lake Pump Station for the City of San Diego (Project #4 below) will be another exceptional benefit of our experience for the RMHE project.

Below is a sample of our project Team's proven expertise, directly relevant to the scope of work that, in addition to the contaminant removal, includes rehabilitation and reconfiguring of well pumps, chemical disinfection, yard piping and water supply distribution pump station.



Project Name	Perchlorate	Ion Exchange	Biological Treatment	Ex-Situ Treatment	In-Situ Treatment	Water Supply	Basin Remediation	Relevance: Perchlorate Treatment	Relevance: Environmental Document	Relevance: Disinfection, Hydraulic
<b>Plant 150 Perchlorate Removal Project</b> , East Valley Water District, City of Highland, CA	X	X		X		X		X	X	X
<b>Perchlorate/Chlorinated Solvent Plume Remediation Evaluation</b> , Phoenix Goodyear Airport, Goodyear, AZ	X	X		X				X		
<b>Groundwater Extraction and Treatment for Perchlorate Removal</b> , Confidential Client, Redlands, CA	X	X		X		X		X		X
<b>Pump Station and Force Main Project</b> , City of Coronado, CA									X	
<b>Miramar Lake Pump Station Condition Assessment and Pump Replacement</b> , City of San Diego, CA										X
<b>Refinery Facility Treatment System</b> , Exxon-Mobile, Lonsdale, South Australia	X	X					X	X		
<b>Solid Rocket Propellant and Motor Testing Facility</b> , Confidential Client, Central, AZ	X		X		X		X	X		
<b>Stringfellow Superfund Site</b> , Department of Toxic Substances Control, Riverside, CA	X	X	X		X		X	X		
<b>Evaluation of Treatment Alternatives and CDPH Permitting</b> for Operable Unit, Puente Valley, CA	X	X				X		X		
<b>Operable Unit</b> , Confidential Cooperating Respondents, Baldwin Park, CA	X	X		X			X	X		
<b>Draft Remedial Action Plan Technical Review Focused on Perchlorate Remediation</b> , Nevada Environmental Response Trust, Metropolitan Water District of Southern California	X		X					X		



## 1. Plant 150 Perchlorate Removal Project

### East Valley Water District

Highland, California

**Key Personnel:** Sava Nedic

With elevated perchlorate concentration at three Bunker Hill Basin groundwater wells, the East Valley Water District required a treatment facility to remove perchlorate and to keep the existing wells usable for domestic water supply. In addition to perchlorate, the ground water was characterized with elevated nitrate and sulfate concentration, the competing ions for ion exchange sites of IX resin.

**Led by Project Manager and Design Manager, Mr. Nedic**, the project was completed in three steps including a desktop study of perchlorate treatment technologies, pilot test of the selected IX resin and the Plant 150 design. A dozen different resin products were identified and evaluated for resin modeling and performance compared to similar full-scale facilities. The results provided three resins for pilot testing.

A small scale nine-column pilot unit was constructed to test for perchlorate removal. Ground water from one of the wells was adjusted to match composition of water blend from the three wells by using externally added chemicals. Using three different perchlorate concentrations (low, medium and high), pilot testing was complete resulting in the selection of the best performing resin for final design.

Plant 150 was designed to include piping system for influent water from three wells, IX for perchlorate removal, on-site sodium hypochlorite generation for product water disinfection, two 2 MG product water storage reservoirs and product water pump station connecting P150 with City water distribution system. The overall plant layout was developed to provide for capacity extension from 7,000 gpm to 12,000 gpm, and to accommodate possible future treatment requirements for nitrate and chromium VI removal. Project activities including desktop evaluation, pilot testing and final design was completed within budget and as scheduled in 18 months.



✓ **On-Time & On-Budget**

#### Relevance:

- Ex-situ ion exchange (resin) treatment of perchlorate
- Perchlorate removal evaluation and O&M procedures

#### Project Successes and Client Benefits:

- Pilot testing resulted in decision to use single pass IX resin
- The best IX resin performer resulted in substantial cost saving

## 2. Perchlorate / Chlorinated Solvent Plume Remediation Evaluation

### Phoenix Airport, Goodyear, Arizona

**Key Personnel:** Edward Tyler

Waste from aircraft preservation and routine aircraft maintenance from cleaning and degreasing was discharged into the main drainage ditch eventually draining into a marsh area. The discharged waste streams contained oil, grease, battery acids, and miscellaneous degreasing solvents. This practice continued until 1952, when the on-site sewage treatment plant was constructed. Many of the waste streams generated were attributed to metal treatment processes such as anodizing, degreasing, and etching. These waste streams included waste solvents TCE, chromium sludge, and processed wastewater. Prior to 1980, much of the waste generated from anodizing, metal etching, and a plastic polishing was disposed of in three on-site sludge drying beds located at the southern portion of the plant.

Kleinfelder conducted an engineering review of the existing system including an evaluation of the ex-situ treatment design employing ion exchange and an air stripper for the treatment of commingled perchlorate; 1,4-dioxane; and chlorinated solvents (e.g., PCE, TCE). The review provided recommendations for continued treatment and alternatives such as in-situ treatment with carbon amendment and/or zero valent iron (ZVI).



✓ **On-Time & On-Budget**

#### Relevance:

- Ex-situ ion exchange (resin) treatment of perchlorate
- Perchlorate removal evaluation and O&M procedures

#### Project Successes and Client Benefits:

- Completed on-time and on-budget



### 3. Pump Station and Force Main Project, Coronado, California

**Key Personnel:** *Natalie Smith*

Kleinfelder provided design, environmental compliance and permitting support for an accelerated wastewater force main installation project including modifications to two wastewater pump stations to provide odor control and connection to the City of Coronado collection system.

The project includes the installation of 14,250 LF of 8-inch High-Density Polyethylene (HDPE) force main to convey wastewater from the Navy Coastal Campus to the City of Coronado wastewater collection system. This design includes approximately 13,700 LF of open cut pipe installation, one 385 ft long segments of Horizontal Directionally Drilled (HDD) and one 165 ft long segment of jack and bore pipe installation totaling approximately 3,250 LF.

**Project execution was successfully executed on an accelerated timeline** and required alignment of multiple stakeholders and regulatory bodies, including Caltrans, State Parks, the Navy, and Coastal Commission. Because the project is located on the Navy campus, within the State right-of way, and on City property, the project needed to comply with both the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). An initial study/mitigated negative declaration document under CEQA was prepared and coordination with the Navy to prepare a memorandum for file to comply with NEPA was performed. A key project issue is the avoidance of critical and environmentally sensitive habitats and successful permitting requiring coastal development authorizations across multiple coastal permit jurisdictions.



✓ **On-Time & On-Budget**

**Relevance:**

- CEQA Compliance with multiple stakeholders

**Project Successes and Client Benefits:**

- Met accelerated schedule and avoided additional delays
- Completed on-time and on-budget

### 4. Miramar Reservoir Raw Water Pump Station Upgrade

**Key Personnel:** *Art Garcia*

The City of San Diego Public Utilities Department retained Kleinfelder to perform assessment, planning and design services for upgrading and potential modification to the Miramar Reservoir Raw Water Pump Station as it will become a key hydraulic link in San Diego Pure Water Program. The station currently consists of 6-200 hp, 12,000 gpm pumps. Originally constructed in 1959, the facility expanded in 1978, was rehabilitated in 2005 and two variable frequency drive pumps were provided in 2015.

The station currently operates under two different scenarios, first to provide reservoir water surface elevation control which requires only one pump at reduced speed for several hours a day, and secondly, during infrequent County Water Authority (CWA) raw water shut-downs, the station operates with 4 to 6 pumps 24 hours per day for the duration of the shutdown providing the sole water supply of up to approximately 100 mgd to the Miramar Water Treatment Plant.

Kleinfelder prepared a program to fully assess physical and functional condition of the station and equipment, including conducting performance tests on the pumps and acoustical monitoring of the station operating under normal and maximum demand on the adjacent properties. Alternatives for upgrading the station range from keeping the current configuration and rehabilitating the existing pumping units to providing a building to enclose the pumps for aesthetics and noise reduction purposes.

The initial assessment studies concluded that although the pumps currently show considerable wear and loss of efficiency, they can be rehabilitated to reestablish nearly new pump efficiency and the noise emanating from the station is within the existing City noise ordinances. The most significant issue in designing the pump station upgrade will be to designing protection or replacement of the section of the existing 66-in Miramar Potable Water Transmission Pipeline routed through the station site.



✓ **On-Time & On-Budget**

**Relevance:**

- Well 37 Reconfiguration

**Project Successes and Client Benefits:**

- Completed on-time and on-budget



# CLIENT MASTER SERVICES AGREEMENT

SAC19C101787

**This Agreement is made on:**

**Between** Alliance Manufactured Homes, Inc. with offices at 2967 Daylight Way, San Jose, CA  
(**Client**)

**And** Kleinfelder, Inc. with offices at 2882 Prospect Park Dr., Suite 200, Rancho Cordova, CA  
(**Kleinfelder**).

## Recitals

- A. Client wishes to appoint Kleinfelder to provide certain services (the **Services**, as defined below) required by Client or Client's agreement with the Owner for one or more projects on a Work Order basis and on the terms and conditions contained in this Agreement.
- B. Kleinfelder has agreed to perform the Services on the terms and conditions contained in this Agreement.

**Now it is agreed** as follows:

## 1. CONTENTS OF AGREEMENT

---

- 1.1 The parties agree that the documents listed in 1.1(a) through (e) constitute the "**Contract Documents**" of this Agreement. To establish obligations and resolve ambiguities in the Contract Documents, the following order of precedence will prevail:
  - (a) first, amendments and Change Orders issued in accordance with this Agreement;
  - (b) second, Work Orders (Appendix A, as defined below);
  - (c) third, Kleinfelder's Proposal, dated September 27, 2019, which the Client acknowledges receipt and confirms understanding of, and agreement with the contents thereof, in full (Appendix B), or Kleinfelder's Proposals subsequently issued and referenced, attached or incorporated into Work Orders;
  - (d) fourth, this Agreement; and
  - (e) fifth, those portions of the Client's agreement with Owner dated (Prime Agreement), if and as applicable to Kleinfelder and incorporated as provided in clause 1.4 (Appendix C).
- 1.2 To the extent of any inconsistency between this Agreement and any Prime Agreement, the provisions of this Agreement will always prevail.
- 1.3 Any pre-printed terms and conditions on forms used by either party in the administration of this Agreement are void and do not supplement or replace the terms and conditions of the Contract Documents of this Agreement.
- 1.4 Kleinfelder agrees to be bound to Client in the same way Client is bound to (Owner), to the extent the provisions referenced at clause 1.1(e) are applicable to the Services under a given Work Order and provided those provisions of the Prime Agreement are expressly identified and furnished to Kleinfelder prior to entering into the Work Order.



## 2. APPOINTMENT AND SCOPE OF SERVICES

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- 2.1 This Agreement anticipates the execution of various written work orders (in the form of Appendix A) which the parties agree will specify the scope of Services to be performed (**Services**) and Client's project for which the Services will be performed (**Project**), the location of Client's Project for providing the Services (**Site**), the time period for performance, the agreed fees and additional provisions, if any, applicable to such Services (**Work Orders**).
- 2.2 By executing this Agreement, Client does not guarantee any future work, nor does Kleinfelder commit to performing any specific future Work Order.

## 3. STANDARD OF CARE

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- 3.1 Kleinfelder will perform its Services in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the Services are provided.
- 3.2 Kleinfelder makes no representation, guarantee or warranty, express or implied, regarding the Services, or any communication (oral or written), certification, report, opinion, or Instrument of Service provided pursuant to this Agreement.
- 3.3 Kleinfelder will not be responsible for constant or exhaustive inspection of the work, for the means, methods, techniques sequences or procedures of construction, or for the safety procedures employed by any party other than its own employees, subconsultants and subcontractors.
- 3.4 No level of assessment can conclusively determine whether a property or its structures are completely free of geotechnical hazards or hazardous substances (including but not limited to mold). Client represents that it has carefully reviewed the limitations described in the Proposal.
- 3.5 Even with diligent observation, some defects, deficiencies, or omissions may occur. Before exercising any other remedy for any alleged breach by Kleinfelder of this Agreement, Client will direct Kleinfelder in writing to re-perform any defective Services within twelve (12) months after completion of the Services.
- 3.6 Kleinfelder will only sign certifications relating to the Services if Kleinfelder agreed in writing prior to the commencement of the Services to provide such certifications. Such certifications are statements of professional opinion only.

## 4. KLEINFELDER'S RESPONSIBILITIES

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- 4.1 Kleinfelder will perform the Services as an independent contractor and not as an agent or employee of Client. Nothing in this Agreement creates any special relationship or fiduciary duty.
- 4.2 Kleinfelder will, as reasonably directed by Client or its authorized agent:
- (a) provide qualified staff to perform the Services;
  - (b) maintain records of Project activities and costs for no more than three years from its completion of the Services;
  - (c) coordinate to the extent reasonably possible with Client's employees, contractors, consultants so as not to impede the progress of the Project; and
  - (d) require its personnel to maintain a safe, clean and orderly work environment.



## **5. TERM AND TERMINATION**

---

- 5.1 This Agreement will commence on the date of its execution, except as to any Services authorized by Client and performed by Kleinfelder beforehand, and will continue in effect for two years or until terminated by either party or extended for an additional two years by mutual written agreement of the parties.
- 5.2 Either party may terminate this Agreement or any Work Order at any time by providing not less than ten (10) days' written notice to the other party.
- 5.3 Notwithstanding the termination or expiry of this Agreement, the terms of this Agreement will survive and continue to apply to all Work Orders signed by both parties prior to the Agreement's effective termination or expiry date, and until all of the rights and obligations of both parties have been fulfilled.
- 5.4 Within fifteen (15) days from termination Client will pay Kleinfelder on demand for all Services rendered and costs incurred through to the date of any termination and for all reasonable costs and expenses incurred by Kleinfelder in effecting the termination, including, without limitation, non-cancellable commitments, fixed cost components and other demobilization costs.

## **6. COMPENSATION**

---

- 6.1 In consideration for undertaking the Services, the Client shall pay to Kleinfelder the sum specified in each Work Order in payments in accordance with the terms of each Work Order and the payment provisions of this Agreement.
- 6.2 Client agrees to provide any special invoicing requirements to Kleinfelder in advance of signing this Agreement, to which additional charges may apply.
- 6.3 Kleinfelder reserves the right to periodically adjust its fee schedule.
- 6.4 Kleinfelder will generally submit its invoices to Client on a monthly basis. Client must pay all invoices within thirty (30) days from the date of invoice, with interest at the rate of one and one-half percent (1 1/2 %) per month payable on all outstanding payments. Interest on all outstanding payments will be charged from the initial date of invoice.
- 6.5 Kleinfelder may suspend performance of Services under this Agreement until it has been paid in full for all outstanding payments, including interest charges.
- 6.6 Kleinfelder will be entitled to recover from Client on demand all expenses incurred (including all legal costs and expenses) in recovering any outstanding payments from Client.
- 6.7 All travel will be invoiced at cost and reimbursed by Client. All travel required under this Agreement is subject to the terms, conditions and applicable rates set forth in the U.S. Federal Travel Regulations.

## **7. INSURANCE**

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- 7.1 Kleinfelder will maintain during the term of this Agreement worker's compensation, commercial general liability, automobile liability Insurance and professional indemnity insurance coverage.
- 7.2 Client will maintain during the term of this Agreement adequate insurance coverage and will require and verify any contractors or parties it hires to have adequate insurance coverage. Client agrees that failure to comply with this clause will invalidate any indemnify provided by Kleinfelder under clause 12.1.



## 8. CHANGES TO SCOPE OF SERVICES

---

- 8.1 Client or Kleinfelder may request to modify the scope of Services as set out in any Work Order, whereon both parties agree to negotiate in good faith and execute a written Change Order. A **Change Order** is an amendment to this Agreement or to a Work Order that modifies the Services and specifies the following:
- (a) a change in the terms and conditions of Services;
  - (b) an adjustment in the schedule for performance; and
  - (c) the amount of adjustment in Kleinfelder's compensation.
- 8.2 Kleinfelder will treat as a Change Order any written or oral Client order (including directions, instructions, interpretations, or determinations) which request changes in the Services. Kleinfelder will give Client written notice within a reasonable time of any resulting adjustment in the schedule and compensation. Unless Client objects in writing within 5 business days, the proposed terms of the Change Order with the adjustment in the schedule and price shall become a part of this Agreement.
- 8.3 If Client and Kleinfelder cannot agree upon an equitable adjustment in the schedule and compensation, and Kleinfelder does not sign the Change Order, the disagreement shall be treated as a Dispute under clause 18.

## 9. FORCE MAJEURE

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- 9.1 Kleinfelder will not be liable for delay or failure to perform its Services caused directly or indirectly by circumstances beyond its control, including but not limited to, acts of God, fire, flood, war, sabotage, accident, labor dispute, shortage, government action or inaction, changed conditions, delays resulting from actions or inactions of Client or third parties, Site inaccessibility or inability of others to obtain material, labor, equipment, or transportation.
- 9.2 Should any of the preceding circumstances occur, then the date for completion or any other milestone date shall be adjusted for the delay in accordance with clause 8, provided Kleinfelder reports the delay to Client within a reasonable time of discovery.

## 10. INSTRUMENTS OF SERVICE

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- 10.1 All data, reports, drawings, plans, or other documents (or copies) provided to Kleinfelder by Client for the purposes of this Agreement will, at Client's written request, be returned upon completion of the Services and payment in full for all Services rendered. Client agrees that Kleinfelder may retain one copy of all such documents.
- 10.2 Client agrees:
- (a) all reports, drawings, plans, documents, software, source code, object code, boring logs, field data, field notes, calculations, estimates, laboratory test data and other similar data, documents and work products (or copies thereof) in any form prepared by Kleinfelder pursuant to this Agreement are instruments of service (**Instruments of Service**), not products;
  - (b) Kleinfelder will retain exclusive ownership, copyright and title to all Instruments of Service, and Client has no rights to incomplete or partial data;
  - (c) all opinions, certifications, communications (oral or written) or Instruments of Service furnished to Client are intended for the benefit of Client for the specific purposes stated herein and therein, are not intended to inform, guide, or otherwise influence any entities or persons other than Client in relation to the Project, and are not intended or represented to be suited for reuse by Client or others, and;
  - (d) reuse without the specific prior written consent of Kleinfelder will be at the user's sole risk and without Kleinfelder liability, and Client agrees (i) to remove Kleinfelder's and Kleinfelder's consultants' names and seals therefrom, and (ii) to defend, indemnify and hold harmless Kleinfelder and Kleinfelder's



contractors, consultants, affiliates, directors and employees from and against all losses, damages and liabilities (including all legal expenses) in connection with the unauthorized use.

- 10.3 Any requests by third parties for reliance upon any communication (oral or written), certification, report, opinion, or Instrument of Service provided by Kleinfelder pursuant to this Agreement will be subject to approval at Kleinfelder's sole discretion and to additional fees, terms and conditions.

## 11. CLIENT'S RESPONSIBILITIES

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- 11.1 Client agrees to provide and discuss with Kleinfelder on an ongoing basis throughout all available material, data, and information pertaining to the Services, including, without limitation, (i) the composition, quantity, toxicity, or potentially hazardous properties of any material known or believed to be present at any Site, (ii) any hazards that may be present, (iii) the nature and location of underground or otherwise not readily apparent utilities, (iv) summaries and assessments of the Site's past and present compliance status, (v) the status of any filed or pending judicial or administrative action concerning the Site or Project, and (vi) Client records (in electronic format where possible) for such data as benchmarks, plans, maps, and property ownership.
- 11.2 Client will ensure the cooperation of Client's employees, contractors and consultants with Kleinfelder.
- 11.3 Client acknowledges and agrees that Kleinfelder is entitled to rely upon the accuracy and completeness of any information given by Client, its employees, contractors and consultants.
- 11.4 Client will provide reasonable assistance to obtain data and records concerning the Site or Project in the possession, custody or control of third parties.

## 12. ALLOCATION OF RISK AND INDEMNITIES

---

- 12.1 Subject to the limitation of liability provisions of this Agreement, Kleinfelder indemnifies Client against all liabilities, losses or damages caused by the negligence or other fault of Kleinfelder and its employees, agents, representatives, subcontractors, and any other party for whom Kleinfelder is legally responsible (**Kleinfelder Parties**), but only to the extent such liabilities, losses or damages are caused by the negligence or other fault of the Kleinfelder Parties when compared to the negligence or other fault of all other persons and entities. If California law applies to this Agreement, the parties also expressly agree that this indemnity provision does not include, and in no event shall Kleinfelder be required to assume, any obligation or duty to defend any claims, cause of action, demands, or lawsuits in connection with or arising out of this Project or the Services rendered by Kleinfelder. This clause 12.1 is not intended to and will not in any way be limited by any insurance coverage available to Client under any Kleinfelder insurance policy.
- 12.2 Client indemnifies Kleinfelder against all liabilities, losses or damages caused by the negligence or other fault of Client and its employees, agents, representatives, subcontractors, and all other parties for whom Client is legally responsible (**Client Parties**), but only to the extent such liabilities, losses or damages are caused by the negligence or other fault of Client Parties when compared to the negligence or other fault of all other applicable persons and entities. If California law applies to this Agreement, the parties also expressly agree that this indemnity provision does not include, and in no event shall Client be required to assume, any obligation or duty to defend any claims, cause of action, demands, or lawsuits in connection with or arising out of this Project or services rendered by Client. This clause 12.2 is not intended to and will not in any way be limited by any insurance coverage available to Kleinfelder under any Client, Owner or Project insurance policy.
- 12.3 Subject to any applicable statutory limitations, the indemnity obligations in this clause 12 shall survive the expiration or termination of this Agreement.



### **13. LIMITATION OF LIABILITY**

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- 13.1 The maximum aggregate liability of Kleinfelder arising out of or related to this Agreement and all Work Orders and amendments thereto, whether based in contract or tort or otherwise in law or equity, will be limited to the greater of the compensation actually paid to Kleinfelder for the Services under all Work Orders or \$50,000, and Client hereby releases Kleinfelder from any liability above such amount. This limitation of liability includes any losses payable to Client under clause 12.1 and will apply to any and all claims.
- 13.2 This limitation of liability has been agreed after Client and Kleinfelder discussed the risks and rewards associated with the Project and the Services as well as the provision of the Services within both the obligations of this Agreement and the associated compensation. Upon written request by Client, the parties may negotiate in good faith and agree, by way of a written Change Order in accordance with clause 8 herein, to increase the amount of this liability limitation or eliminate it in exchange for payment of increased compensation to Kleinfelder.
- 13.3 As used in this clause 13, "Kleinfelder" includes Kleinfelder, its affiliates, subconsultants and subcontractors, and their respective partners, officers, directors, shareholders and employees. The limitation of liability established in this clause 13 shall survive the expiration or termination of this Agreement.

### **14. WAIVER OF CONSEQUENTIAL DAMAGES**

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- 14.1 Neither party will be liable to the other party for any special, incidental, indirect, exemplary, punitive, penal or consequential damages however arising incurred by either Kleinfelder or Client or for which either may be liable to a third party.

### **15. NO CONTROL OF MEANS AND METHODS OF OTHERS**

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- 15.1 Client agrees:
- (a) Kleinfelder will have no control over or charge of or responsibility for the construction means, methods, techniques, sequences, or procedures, or for the safety precautions and programs of Client's employees, or contractors or consultants engaged by Client in connection with the Project;
  - (b) Kleinfelder's performance of the Services does not include any job site safety obligations which may be required by or in connection with the Project or the Services or any applicable code or regulation, other than strictly in respect of its own employees; and
  - (c) Kleinfelder will not have control over or charge of the acts or omissions of any contractor or contractors' agents, employees or subcontractors.

### **16. SITE ACCESS**

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- 16.1 Client agrees to:
- (a) provide unimpeded and timely access to the Site, including any third party sites, if required;
  - (b) provide an adequate area for Kleinfelder's Site office facilities, equipment storage, and parking;
  - (c) furnish all construction utilities and utility releases necessary for the performance of the Services; and
  - (d) obtain all permits, licenses or authorizations necessary for the performance of the Services.

### **17. WARRANTY OF TITLE, WASTE OWNERSHIP**

---

- 17.1 Kleinfelder will not take title to or be liable for any hazardous materials found at any Project Site. Any risk of loss with respect to all materials remains with Client or the Site owner, who will be considered the generator of such materials, execute all manifests as the generator of such materials, and be liable for the arrangement,



transportation, treatment, and/or disposal of all material. All samples remain the property of Client. Client agrees to promptly, at its cost, remove and lawfully dispose of samples, cuttings, and hazardous materials.

## **18. DISPUTE RESOLUTION**

---

- 18.1 If a dispute arises out of or relates this Agreement (**Dispute**), the parties agree to submit the Dispute to mediation pursuant to the Construction Industry Mediation Rules of the American Arbitration Association (**AAA**). The mediator will be an independent person agreed between the parties from a panel suggested by the Institute or, failing agreement, a mediator appointed by AAA. A party shall not call for mediation of any Dispute after such period of time as would bar the initiation of legal proceedings to litigate such Dispute under the laws of the state in which the Project is located.
- 18.2 Client and Kleinfelder agree that in the event of a Dispute, they will not seek recourse against individual officers, employees, directors, or shareholders of the other party.
- 18.3 A party shall not start court proceedings in relation to a Dispute until it has exhausted the procedures in this clause, unless the party seeks injunctive or other interlocutory relief.
- 18.4 If the Dispute cannot be resolved through mediation, either party may file suit in an appropriate court in the state where the Services are performed.
- 18.5 This clause survives termination or expiry of this Agreement.

## **19. MISCELLANEOUS**

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- 19.1 This Agreement is governed and construed in accordance with the laws of the state where the Services are performed. The parties hereby submit to the jurisdiction of the courts of the state where the Services are performed and waive any right to object to any proceedings being brought in those courts.
- 19.2 Waiver of any term, condition or breach of this Agreement will not operate as a subsequent waiver of the same term, condition or breach. A waiver is not valid or binding unless made in writing.
- 19.3 If any provision of this Agreement is found by a duly constituted authority to be invalid, void, or unenforceable, all remaining provisions shall continue in force.
- 19.4 This Agreement does not create, nor will it be construed to create, any benefit or right in any third party or any special relationship or fiduciary duty to third parties.
- 19.5 This Agreement constitutes the entire understanding and agreement of the parties with respect to its subject matter. It supersedes all earlier conduct, prior agreements and understandings between the parties in connection with its subject matter.
- 19.6 Client and Kleinfelder shall abide by the requirements of 41 CFR 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.



- 19.7 All notices, requests or instructions hereunder must be in writing and either hand delivered to the recipient, delivered by registered mail or express mail the addresses given in this Agreement.
- 19.8 This Agreement cannot be assigned by either party without the prior written approval of the other party. Kleinfelder may subcontract performance of portions of the Services to a qualified subcontractor.
- 19.9 Any amendment or revision to this Agreement, including for the avoidance of any doubt, to any Work Order, must be in writing and signed by both parties. Any oral modification or revision of this Agreement shall not operate to modify this Agreement.
- 19.10 This Agreement may be executed in counterparts, including photo or electronic copies, which taken together, shall constitute one original document.

**IN WITNESS WHEREOF**, Client and Kleinfelder have caused this Agreement to be executed on the date first written above.

**CLIENT:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**KLEINFELDER:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**ATTACHMENTS:** Appendix A, Sample Work Order  
Appendix B, Kleinfelder Proposal (as applicable)  
Appendix C, Prime Agreement /Client Requirements (as applicable)



## APPENDIX A: WORK ORDER

Issued Pursuant to The Client Master Services Agreement effective as of \_\_\_\_\_ by and between **(Client)** and Kleinfelder, Inc. **(Kleinfelder)**.

Client Name: \_\_\_\_\_

Kleinfelder Project No: \_\_\_\_\_

Project Name: \_\_\_\_\_

Work Order Type: (Check One)

☐ Time-and-Materials

☐ Fixed-Price

Kleinfelder Office: \_\_\_\_\_

Subcontractor Reference No: \_\_\_\_\_

Kleinfelder Contact Name: \_\_\_\_\_

1. SCOPE OF WORK: \_\_\_\_\_

(Continue on additional page, if needed)

2. LOCATION/CLIENT FACILITY INVOLVED: \_\_\_\_\_

3. PERIOD OF PERFORMANCE: FROM: \_\_\_\_\_ TO: \_\_\_\_\_

4. AUTHORIZED FUNDING: \_\_\_\_\_

5. SPECIAL PROVISIONS: \_\_\_\_\_

NOTICE TO PROCEED IS GIVEN ON (DATE): \_\_\_\_\_

**CLIENT:**

**KLEINFELDER:**

**By:** \_\_\_\_\_

**By:** \_\_\_\_\_

Printed Name: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_



## WORK ORDER SAC19W101788

Issued Pursuant to The Client Master Services Agreement SAC19C101787 effective as of September 27, 2019 by and between Alliance Manufactured Homes, Inc. (**Client**) and Kleinfelder, Inc. (**Kleinfelder**).

Client Name: Alliance Manufactured Homes, Inc.

Kleinfelder Project No: MP200607.001P

Project Name: Riverview Mobile Home Estates

Work Order Type: (Check One)

☒ Time-and-Materials

☐ Fixed-Price

Kleinfelder Office: Sacramento

Kleinfelder Contact Name: Joe Zilles

1. SCOPE OF WORK: Engineering services as outlined in our proposal dated September 27, 2019.
2. LOCATION/CLIENT FACILITY INVOLVED: 8200 Jantzen Road, Stanislaus County, CA
3. PERIOD OF PERFORMANCE: FROM: September 27, 2019 TO: December 27, 2019
4. AUTHORIZED FUNDING: \$77,865.00
5. SPECIAL PROVISIONS:

<b>NOTICE TO PROCEED IS GIVEN ON (DATE):</b> _____
--

### CLIENT:

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

### KLEINFELDER:

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Address: 2882 Prospect Park Drive, Suite 200,  
Rancho Cordova, CA 95670





# Quality Service, Inc.

2996 McHenry Ave. Escalon, CA 95320 | (209) 838-7842

1

August 2<sup>nd</sup>, 2019

Riverview Mobile Home Estates, LLC  
871 38<sup>th</sup> Ave.,  
Santa Cruz, CA 95062  
Attn: Bill Ebert

RE: **Proposal for Modular Radium, Uranium, and (future) Nitrate Water Treatment System**  
**JOBSITE: Riverview Mobile Home Park**  
**ADDRESS: 8200 Jantzen Rd., Modesto, CA 95357**  
**PSID: CA5000090**

Quality Service, Inc. is pleased to submit this proposal and budgetary pricing for a new water filtration system for radium and uranium treatment, which is intended to address immediate concerns regarding radionuclide MCL compliance at the site. The equipment will be modular to allow for integration of nitrate ion exchange media given that levels are rising over time. Our proposed scope of work includes the design, engineering, permitting, installation (including site work), and pilot testing of a full-scale ion exchange water filtration system for radium and uranium removal.

**Task 1.0 System Design and Permitting: \$120,800.00**

- 1.1 Structural engineering, civil design & tie-in details for water treatment facility.
- 1.2 Permitting according to Stanislaus County Department of Environmental Resources expectation (County fees, IE. plan check fees, are not included in this pricing).
  - 1.2.1 Permit Amendment Application
  - 1.2.2 Technical Report (this does not include a full TMF analysis)
  - 1.2.3 Plans & Specifications
  - 1.2.4 Environmental Checklist (CEQA)
  - 1.2.5 Up to two (2) meetings and one (1) revision to submittal

**Task 2.0 Water Treatment Plant Construction: \$720,168.00**

- 2.1 Preparing for site for construction: USA markings, security fencing, portable restroom, site grading, etc. Rental/provision of equipment for site prep.
  - 2.2 Well Modification
    - 2.2.1 North PVC Well permitting finalization to tie-in with system.
    - 2.2.2 Plumbing modifications at North PVC and Southwest wells (includes bypass).
- (NOTE: Demolition or repurposing of South Well is not included in this work.)





# Quality Service, Inc.

2996 McHenry Ave. Escalon, CA 95320 | (209) 838-7842

- 2.3 Foundation Work
- 2.4 Storage Tank & Booster Pump System
- 2.5 Filtration System
- 2.6 Electrical
  - 2.6.1 Includes full control system for alarming loss of pressure, low chlorine, high chlorine, low tank level, and overflow condition. Control system to monitor chlorine concentration, system pressure, storage tank level, and meter readings (raw, treated, and distributed). Controls to automate backwashing, booster pump operation, chlorine injection, and well operation. Radio transmission to main office for broadcast to internet-based HMI for remote monitoring.
  - 2.6.2 A second sodium hypochlorite injection system, per 02/09/2019 email correspondence.
- 2.7 Construction finalization & cleanup
- Task 3.0 Water Treatment System Initiation: **\$45,325.00**
  - 3.1 System Startup & Pressure Testing
  - 3.2 Water Treatment Plant Pilot Study
    - 3.2 Preparation and provision of Pilot Study report for county submittal.
  - 3.3 Operations & Maintenance Plan Revision

## Total Estimated Cost for Tasks 1-3:

**\$886,293.00**

*By signing below, you acknowledge that you have read the information provided in this proposal and agree to the terms outlined therein and in the attached terms and conditions. Your signature below indicates that you have chosen to have Quality Service, Inc. proceed with the proposed scope of work outlined here.*

Provided by: \_\_\_\_\_

Tom McCoy/ QSI

Accepted by: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_



## **Appendix F**

### **Detailed Cost Estimates**



**Option 1 Consolidation with City of Hughson**

Item	Unit	Unit Price	Quantity	Cost
Mobilization/Demobilization	LS	\$ 120,000.00	1	\$ 120,000.00
Demolition and Removal of Existing Equipment	LS	\$ 8,000.00	1	\$ 8,000.00
Well Abandonment	LS	\$ 6,000.00	1	\$ 6,000.00
Traffic Control	LS	\$ 125,000.00	1	\$ 125,000.00
Sheeting and Shoring	LS	\$ 38,000.00	1	\$ 38,000.00
12" Water Line	LF	\$ 160.00	10243	\$ 1,638,880.00
Tapping Sleeve and Valve	EA	\$ 6,000.00	1	\$ 6,000.00
Connect to Existing Piping	EA	\$ 5,000.00	2	\$ 10,000.00
12" Gate Valve	EA	\$ 2,650.00	2	\$ 5,300.00
Backflow Preventer	EA	\$ 10,000.00	1	\$ 10,000.00
Trench Resurfacing	LF	\$ 44.00	10243	\$ 450,692.00
6" Diameter Water Master Meter	EA	\$ 6,000.00	1	\$ 6,000.00
Disinfection and Testing	LS	\$ 10,000.00	1	\$ 10,000.00
Bore and Jack	LF	\$ 1,000.00	75	\$ 75,000.00
Easement Acquisition and Permits	LS	\$ 25,000.00	1	\$ 25,000.00
Construction Subtotal				\$ 2,533,872.00
Contingency (25%)				\$ 633,468.00
Construction Total				\$ 3,167,340.00
Engineering, Environmental, Field Investigation (15% construction cost)				\$ 475,101.00
Construction Management & Administration (15% construction cost)				\$ 475,101.00
<b>Estimated Total Project Cost</b>				<b>\$ 4,117,542.00</b>

**Option2 Consolidation with City of Modesto**

Item	Unit	Unit Price	Quantity	Cost
Mobilization/Demobilization	LS	\$ 200,000.00	1	\$ 200,000.00
Demolition and Removal of Existing Equipment	LS	\$ 8,000.00	1	\$ 8,000.00
Well Abandonment	LS	\$ 6,000.00	1	\$ 6,000.00
Traffic Control	LS	\$ 150,000.00	1	\$ 150,000.00
Sheeting and Shoring	LS	\$ 60,000.00	1	\$ 60,000.00
12" Water Line	LF	\$ 160.00	20539	\$ 3,286,240.00
Tapping Sleeve and Valve	EA	\$ 6,000.00	1	\$ 6,000.00
Connect to Existing Piping	EA	\$ 5,000.00	2	\$ 10,000.00
12" Gate Valve	EA	\$ 2,650.00	2	\$ 5,300.00
Backflow Preventer	EA	\$ 10,000.00	1	\$ 10,000.00
Trench Resurfacing	LF	\$ 44.00	20539	\$ 903,716.00
6" Diameter Water Master Meter	EA	\$ 6,000.00	1	\$ 6,000.00
Disinfection and Testing	LS	\$ 10,000.00	1	\$ 10,000.00
Bore and Jack	LF	\$ 1,000.00	100	\$ 100,000.00
Easement Acquisition and Permits	LS	\$ 25,000.00	1	\$ 25,000.00
Construction Subtotal				\$ 4,786,256.00
Contingency (25%)				\$ 1,196,564.00
Construction Total				\$ 5,982,820.00
Engineering, Environmental, Field Investigation (15% construction cost)				\$ 897,423.00
Construction Management & Administration (15% construction cost)				\$ 897,423.00
<b>Estimated Total Project Cost</b>				<b>\$ 7,777,666.00</b>



**Option 3 Consolidation with SRWA**

Item	Unit	Unit Price	Quantity	Cost
Mobilization/Demobilization	LS	\$ 78,000.00	1	\$ 78,000.00
Demolition and Removal of Existing Equipment	LS	\$ 8,000.00	1	\$ 8,000.00
Well Abandonment	LS	\$ 6,000.00	1	\$ 6,000.00
Traffic Control	LS	\$ 110,000.00	1	\$ 110,000.00
Sheeting and Shoring	LS	\$ 24,000.00	1	\$ 24,000.00
12" Water Line	LF	\$ 160.00	6652	\$ 1,064,320.00
Tapping Sleeve and Valve	EA	\$ 6,000.00	1	\$ 6,000.00
Connect to Existing Piping	EA	\$ 5,000.00	2	\$ 10,000.00
12" Gate Valve	EA	\$ 2,650.00	2	\$ 5,300.00
Backflow Preventer	EA	\$ 10,000.00	1	\$ 10,000.00
Trench Resurfacing	LF	\$ 44.00	6652	\$ 292,688.00
6" Diameter Water Master Meter	EA	\$ 6,000.00	1	\$ 6,000.00
Disinfection and Testing	LS	\$ 10,000.00	1	\$ 10,000.00
Easement Acquisition and Permits	LS	\$ 20,000.00	1	\$ 20,000.00
Construction Subtotal				\$ 1,650,308.00
Contingency (25%)				\$ 412,577.00
Construction Total				\$ 2,062,885.00
Engineering, Environmental, Field Investigation (15% construction cost)				\$ 309,432.75
Construction Management & Administration (15% construction cost)				\$ 309,432.75
<b>Estimated Total Project Cost</b>				<b>\$ 2,681,750.50</b>



# Riverview Mobile Home Estates Water System

**Affordability Study**

**FINAL**

JANUARY 2023

Prepared for:

RIVERVIEW MOBILE HOME ESTATES OWNERS  
8200 Jantzen Road  
Modesto, CA 95357

Prepared by:

BLACK WATER CONSULTING ENGINEERS, INC.  
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## **APPENDICES**

Appendix A	Riverview Mobile Home Estates Cost/Revenue Evaluation Technical Memo
Appendix B	Domestic Water Supply Permit
Appendix C	Water Consolidation Outreach
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Appendix E	Self-Help Enterprises RMHE MHI Survey DFA Approval
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## 1 Introduction

### 1.1 Purpose

This Riverview Mobile Home Estates (RMHE) Water System Affordability Study (Study) was prepared for RMHE by Black Water Consulting Engineers, Inc. (Black Water) with the following major objectives:

1. Evaluate and estimate the financial impacts to RMHE customers for water service costs as a result of water service consolidation with the City of Hughson (City).
2. Evaluate water rate structures for the recommended project.

The water rates discussed herein were developed using the City's existing rate schedule and the recommendations proposed in the Riverview Mobile Home Estates Cost/Revenue Evaluation Technical Memo (Cost/Revenue Evaluation), prepared by the City of Hughson's Water Engineer (Water Engineer) in December 2022. The future operation and maintenance costs are based on the proposed infrastructure improvements required to serve RMHE customers, as outlined in the Cost/Revenue Evaluation. The Cost/Revenue Evaluation is provided in **Appendix A**.

### 1.2 Existing Water System

The RMHE Water System (Water System) is a community water system that is privately owned and located approximately 1 mile south of State Route 132 in Modesto, California. Refer to **Figure 1-1** for the RMHE Water System and project location. The Water System provides potable water to approximately 540 residents and consists of 173 active service connections that supply potable water to 170 mobile home spaces, a manager's office/clubhouse, one office restroom, and the laundry facility.

RMHE was issued a Domestic Water Supply Permit (Permit) for Public Water System No. 5000090 by Stanislaus County Department of Environmental Resources (County DER) on March 17, 2016, under permit number 2016-03-005. A copy of the Permit is provided in **Appendix B**.

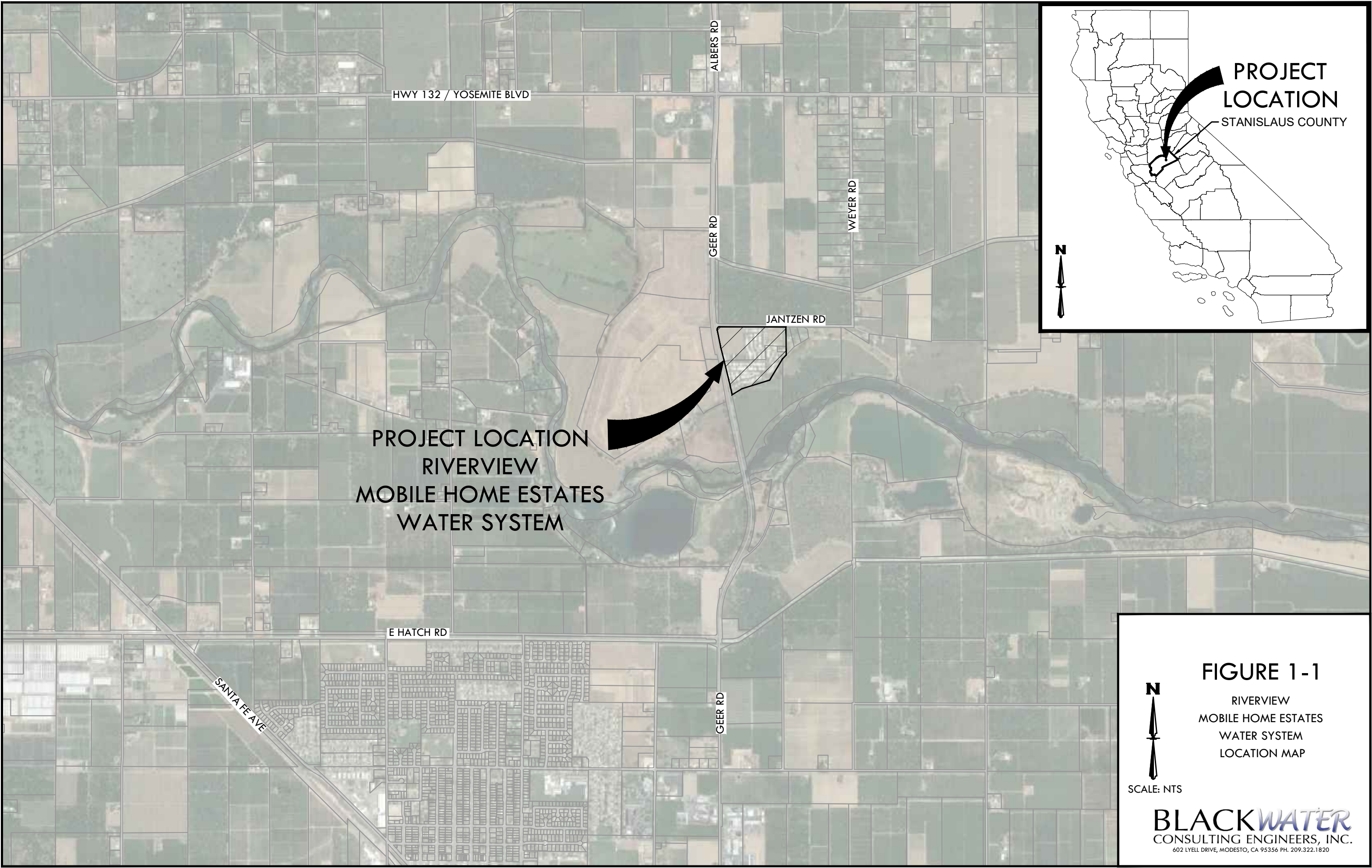
### 1.3 Scope

The following tasks were completed as part of this Project:

1. A review of financial documents and existing water rates for the Water System and all feasible consolidation options.
2. Review the consolidation proposals of each water agency.
3. Determine revenues from existing City of Hughson customer rates and information provided in the Cost/Revenue Evaluation.
4. Team coordination, conference calls, and meetings with consolidating agencies and project stakeholders.



I:\20291 RIVERVIEW MOBILE ESTATES\CAD\TASK-02 RIVERVIEW WATER SYSTEM\REPORTS\ENGINEERING REPORT\FIGURES\FIGURE 1-PROJECT LOCATION.DWG PLOT: 2/9/2021 9:13:24 AM BY GUSTAVO MANCILLA



SCALE: NTS

# FIGURE 1-1

RIVERVIEW  
MOBILE HOME ESTATES  
WATER SYSTEM  
LOCATION MAP

**BLACKWATER**  
CONSULTING ENGINEERS, INC.  
602 LYELL DRIVE, MODESTO, CA 95356 PH. 209.322.1820



## 2 Background

This Study evaluates the financial affordability and costs/revenues of the feasible consolidation alternatives evaluated in the Riverview Mobile Home Estates Water System Feasibility Study Report (Project Report) [1], prepared by Black Water in April 2021. The Project Report was funded as part of the California State Water Resources Control Board (SWRCB) and Self-Help Enterprises (SHE) Proposition 1 Technical Assistance (TA) Work Plan through the Community Development and Technical Assistance Program Agreement No. D-16-12802, TA Work Plan No. 6202-A. Various consolidation alternatives were evaluated along with other project alternatives to determine strategies for future improvements to the existing Water System to address identified deficiencies.

Background information regarding the Water System deficiencies and recommended consolidation alternatives are discussed in further detail in this section.

### 2.1 Problem Description

The Water System was issued County Compliance Order No. DER-16CO-006 for uranium concentrations exceeding the maximum contaminant level (MCL) of 20 pCi/L in the groundwater supply on May 10, 2016. The original sample was collected in June 2015 from groundwater produced by the South Well.

The County DER determined that the Water System violated the California Health and Safety Code, Section 116555 and Section 64442, Title 22, CCR, since the water produced by the South Well during the monitoring period exceeded the uranium MCL on average. More recent samples taken from each active well in 2018 show both the South Well and South West Well exceeded the uranium MCL. The RMHE Owners post a Public Health Notice each quarter for exceedance of the 20 pCi/L MCL established for uranium, the first having been issued in September 2016.

### 2.2 Consolidation Alternatives

Three consolidation options were evaluated in the Project Report to connect to a community water system near the Riverview Mobile Home Estates. The three water systems within four miles, which were evaluated in the Project Report, include the following:

- City of Hughson
- City of Modesto-owned water system in the unincorporated County island town of Empire (Empire)
- Stanislaus Regional Water Authority (SRWA)

Since the completion of the Project Report, a fourth consolidation option was contacted and considered as part of this Study. The fourth consolidation option considered in this Study is the City of Waterford. The State has requested this Study be prepared to develop costs and benefits for each consolidation agency that is willing to provide potable water to RMHE. The distance from the RMHE water system to the estimated nearest connection point (force main) of each consolidating agency is provided in **Table 2-1**. In addition, the responses from the four consolidation options are documented in **Table 2-1**. A record of outreach conducted for each water agency is included in **Appendix C**.



**Table 2-1 - Consolidation Responses Summary**

Consolidating Agency	Distance to nearest connection point (miles)	Response to Initial Consolidation Public Outreach
Hughson	1.94	The City of Hughson has expressed interest and willingness to consolidate with RMHE. Consolidation is feasible if water system capacity is increased with the improvements detailed in the Cost/Revenue Evaluation.
Empire	3.89	Consolidation is not feasible because of the distance between Empire and RMHE and insufficient water capacity.
SRWA	1.26	Consolidation is not feasible because RMHE is outside of the Turlock Irrigation District (TID) service area. All water deliveries by the SRWA must be within the TID service area per water rights agreement.
Waterford	3.70	Consolidation is not feasible because of the distance between Waterford and RMHE and insufficient water capacity.

Per the Project Report, the selected project was the consolidation of the RMHE water system with SRWA. However, based on additional correspondence with the individual consolidation agencies, the selected project has changed, and a new consolidation alternative has been selected as a part of this Study.

Following the conduction of outreach to each consolidation agency, it was determined that only the City of Hughson is willing and capable, with the implementation of the specified improvements, of providing potable water to RMHE. Although the City of Hughson is willing to consolidate with the RMHE Water System, the City has requested justification and assurances that the consolidation will not negatively impact the City financially or over-burden the existing operation and maintenance staff and budget. Ongoing correspondence has been conducted with the City of Hughson Staff for this purpose and the City of Hughson prepared the Cost/Revenue Evaluation to outline anticipated budgetary impacts and revenues from RMHE customers. A primary goal of this Study is to provide the City with assurances regarding the affordability of the consolidation for both RMHE and the City of Hughson.

### 3 Funding Assistance Eligibility

**Table 3-1** and **Table 3-2** show the criteria that will dictate if the RMHE is eligible for the PF/grant funding as defined in the State of California Drinking Water State Revolving Fund (DWSRF) Intended Use Plan State Fiscal Year 2022-23 (2022-23 IUP) [3]. The Division of Financial Assistance (DFA) intends to commit funds to Category A-C projects or consolidation projects.



**Table 3-1 - Construction Project Financial Limitations (Part 1) [3]**

Maximum PF, Grant or Combination Thereof Per Construction Project <sup>38, 39</sup>			
Type of Community <sup>40</sup>	Residential Water Rates as a Percentage of MHI <sup>41</sup>	Percentage of Total Eligible Project Cost	Maximum Amount Per Connection <sup>42,43, 44</sup>
Category A – C and/or Consolidation Projects <sup>45</sup>			
Small DAC/SDAC; Eligible NTNC <sup>46</sup> That Serves a Small DAC/SDAC; Expanded Small DAC/SDAC; Medium DAC/SDAC; <sup>47</sup> or Small Non-DAC with MHI < 150% of Statewide MHI	N/A	up to 100%	\$60,000 <sup>48</sup>
Expanded Small DAC/SDAC or Small Non-DAC		up to 75% <sup>37</sup>	
Category D – F Projects			
Small DAC/SDAC or Eligible NTNC That Serves a Small DAC/SDAC	N/A	up to 100%	\$45,000
Expanded Small DAC/SDAC	>=1.5%		
	<1.5%	Not Eligible for PF, Grant or Combination Thereof	

<sup>38</sup> The Deputy Director of DFA has the discretion to apply grant and PF limitations from the 2021-22 DWSRF IUP, adopted June 15, 2021, to projects with complete applications submitted to DFA before March 15, 2022.

<sup>39</sup> Not applicable to ASADRA funding, EC/PFAS funding, or LSLR funding.

<sup>40</sup> See Section I.D. of this IUP for the specific definitions of each type of community. Eligibility for PF or grant may be based on the community that will be served by the project rather than the funding recipient, if consistent with the requirements of the funding source. If eligibility depends on rates, then adopted rates that will apply upon completion of construction may be considered. Eligibility is subject to limitations depending on the funding source. For example, at the time of adoption of this IUP, PF may be provided to DACs. PF may only be provided to a CPUC-regulated water corporation that serves DACs with fewer than 3,300 service connections, with consideration of such system's rate of return for three fiscal years (Health & Saf. Code, section 116761.20(b).).

<sup>41</sup> For the purposes of a consolidation project, the residential water rate of the Receiving Water System may be considered. For systems that do not charge monthly water rates, including, but not limited to, migratory labor camps, mobile home parks, or tribes, residential water rates as a percentage of MHI is considered not applicable and DFA may approve State Grant/PF funding per other limitations specified above.

<sup>42</sup> The Deputy Director of DFA may approve financing for construction projects with a total eligible project cost up to \$6,000,000 regardless of the amount per connection.

<sup>43</sup> The maximum grant/PF is based on all funding the community receives in a five-year period. This includes planning, TA, and construction funding for all DWSRF projects for the community, but not GWGP funds.

<sup>44</sup> Construction projects that receive only Prop 1 and Prop 68 grant funds shall be limited to \$5,000,000 per project (\$20,000,000 limit for projects that provide regional benefits or are shared among multiple entities).

<sup>45</sup> Funding priority will be given to Category A-C Projects and consolidation projects. For consolidation projects, grant/PF eligibility may be determined based on the Subsumed Water System, although the recipient must be eligible under the applicable funding source. Throughout this document, Category A-C Projects may include projects that will address DAC/SDAC state small water systems or domestic wells with water quality or quantity issues deemed equivalent to Category A-C to the extent eligible under the applicable funding source. To be eligible for funding for a consolidation of a state small water system or individual residences, the Receiving Water System need not be one of the specified types of communities, but must be eligible under the funding source.



<sup>46</sup> For NTNC requirements, see section III.A.3.c

<sup>47</sup> Funding priority will be given to projects that serve Small DACs/SDACs and Expanded Small DACs /SDACs. Projects for Medium DACs/SDACs and eligible Small Non-DACs may receive a maximum grant of \$20 million per project, unless the Deputy Director of DFA approves a case-by-case exception for good cause.

<sup>48</sup> The Deputy Director of DFA may approve up to \$80,000 per connection for good cause.

**Table 3-2 - Construction Project Financial Limitations (Part 2) [3]**

Repayable Construction Financing Terms				
Type of Community	Residential Water Rates as a Percentage of MHI	Interest Rate	Maximum Financing Term <sup>49</sup>	Local Cost Share <sup>50</sup>
Small SDAC or Eligible NTNC That Serves a Small DAC	N/A	0%	40 Years	Waived
Small DAC or Expanded Small DAC/SDAC	≥1.5%			
	<1.5%	½ General Obligation Bond Rate		

<sup>49</sup> Financing Term shall not exceed the useful life of the facilities being financed.

<sup>50</sup> The applicant may choose to fund the remainder of the total project cost (Local Cost Share) from other sources (e.g., repayable DWSRF/Prop 1/Prop 68 financing; grant funding from sources other than the State Water Board; or other sources).

## 4 RMHE - Revenues and Projected Growth

This section describes the current financial revenue sources for RMHE. Financial statements were not provided by RMHE, so the projected revenue was estimated by using water usage from July 2021.

### 4.1 Existing Water Rates and Revenues

The RMHE has a metered water system and charges customers for water based on monthly usage. Every customer is billed a service charge of \$5.80 per month. Per recent billing rate statements from the RMHE, customers are charged \$0.70 per 1,000 gallons in addition to the flat-rate service charge. Based on common area water usage data provided by RMHE for July 2021, the average monthly water usage per customer is 5,800 gallons. The monthly water usage data is based on billing data for the mobile home residents and does not include irrigation water usage. The billing and water usage data is included in **Appendix D**.

Based on email correspondence with the RMHE Owner, Bill Ebert, the mobile home park has historically mandated an annual increase to the base rent for a mobile home space at or below the consumer price index. While the RMHE has increased annual space rental prices, the RMHE has not mandated an annual increase to the customer water rates. Over the past four years, the average annual rent increase was approximately \$19/mobile home rental space. The base rent is currently set at \$635/month.

The RMHE owner is planning to raise the base water rate by \$30 in 2023 rather than increasing the base rent per space and increase the excess water usage from \$0.70 to \$2.21 per 1,000 gallons of use. By doing



this, the flat service charge would increase to \$35.80 and the average water rate to the RMHE residents would be approximately \$48.62 per month. The new water rate for RMHE customers of \$48.62 per month will be implemented in March 2023. A summary of connections, average water usage, and associated water rates for RMHE are shown in **Table 4-1**.

**Table 4-1 - Summary of Connections, Water Usage, and Water Rates**

Description	Value	Unit
Flat Service Charge	35.80	\$/month
Water Usage Billing Rate	2.21	\$/1,000 gallons
Average Water Usage for one customer	5,800	gallons/month
Average Monthly Water Bill for one customer	48.62	\$/month
RMHE Water Service Lines	173	service connections
Total Projected Monthly Revenue from Water Rates	\$8,410.91	
Total Projected Yearly Revenue from Water Rates	\$100,930.97	

## 4.2 Customer Growth

As a mobile home park with a set footprint and number of rentable spaces available, RMHE is not anticipated to experience customer growth. There is an open space of land owned by RMHE on the northwest side of the property. However, based on conversations with the owner, there are no plans to expand the mobile home park footprint at this time.

## 5 Affordability/Funding Evaluation

A Median Household Income (MHI) survey and final report documenting the median household income was completed by SHE in August 2020. According to the final report, a survey was conducted on July 20, 2020, and based on the results, the annual MHI for the community of RMHE was determined to be \$35,000. The RMHE MHI survey, final report, and DFA approval are provided in **Appendix E**. As stated in the 2021 Drinking Water Affordability Assessment, a severely disadvantaged community (SDAC) is defined as a community water system in which the MHI is less than 60% of the statewide median household income. The 2020 United States Census Bureau lists the statewide MHI as \$78,672. Therefore, RMHE is considered a SDAC.

The maximum affordable water rate for RMHE is based on information presented in the 2021 Drinking Water Affordability Assessment. Based on the 2021 Drinking Water Affordability Assessment published by the California Water Boards, the minimum affordability threshold is 1.5% of a community's MHI and the maximum affordability threshold is set at 2.5% MHI. For the RMHE, this correlates to a minimum affordable water rate of \$43.75 and a maximum affordable water rate of \$72.92 per month. While exceeding these thresholds alone does not mean that water charges are unaffordable for a community, the 1.5% and 2.5% MHI affordability thresholds allow for a preliminary evaluation of systems that may have challenges with affordable customer charges. See **Table 5-1** for a breakdown of the affordable water rates for RMHE.



**Table 5-1 - Maximum Affordable Water Rate**

Item	Quantity
Median Household Income (MHI)	\$35,000/year <sup>1</sup>
Affordability Threshold	1.5% - 2.5% of MHI <sup>2</sup>
Minimum Affordable Water Rate	\$43.75/month
Maximum Affordable Water Rate	\$72.92/month

<sup>1</sup>Based on email correspondence with Himali Rodrigo, Water Resource Control Engineer at State Water Resources Control Board.

<sup>2</sup>2021 Drinking Water Affordability Assessment, California Water Boards, April 2021.

This Study evaluates consolidation of the RMHE water system with the City water system. Based on the 2022-23 IUP, consolidation projects are eligible for grant funding, regardless of the project category. No income survey is required for this alternative. In addition, for consolidation projects, there is no requirement for the residential water rates to meet a percentage criterion based on the MHI. According to **Table 3-1**, DFA may approve \$60,000 per connection, or up to \$80,000 per connection for good cause of the construction project (see Note 48). In addition, the project is eligible for 100% grant funding of the total project eligible cost, since RMHE is classified as a SDAC. At 173 service connections, RMHE would be eligible for up to \$10.56 million with \$60,000 per connection in grant funding. If granted the higher funding amount per connection for good cause, RMHE would be eligible for up to \$14.08 million with \$80,000 per connection in grant funding. These two consolidation scenarios are evaluated further in **Section 5.1** and **Section 5.2**.

### 5.1 Scenario 1 Funding Evaluation (\$60,000 per connection)

For Scenario 1, the RMHE may be eligible for 100% of the total project cost up to a maximum of \$60,000 per connection. The RMHE would be eligible for a maximum grant amount of \$10,380,000 based on the 173 service connections. The remaining cost of the project would be paid for by a 0% interest loan over a 40-year period. Scenario 1 evaluates the consolidation with the City if the estimated construction costs exceed the eligible grant amount allocated by \$60,000 per connection for a total of \$10.38 million. In this instance, RMHE would be eligible for a 0% interest loan over a 40-year period to cover the remaining construction cost of \$1.76 million. With the 0% interest loan over a 40-year period, the monthly RMHE water rates would increase by \$21 per connection. See **Table 5-2** for a breakdown of the construction costs and funding outcomes.

### 5.2 Scenario 2 Funding Evaluation (\$80,000 per connection)

Per the 2022-23 IUP, the Deputy Director of DFA may approve up to \$80,000 per connection for good cause. If this is the case, for Scenario 2, the RMHE may be eligible for 100% of the total project cost up to a maximum of \$80,000 per connection. In Scenario 2, the RMHE would be eligible for a maximum grant amount of \$13,840,000 based on the 173 service connections. Since the eligible grant amount would be higher than the estimated construction cost estimate, RMHE would not need to use a loan to cover the remaining costs in this scenario. See **Table 5-2** for a breakdown of the construction costs and funding outcomes.



**Table 5-2 - Monthly Cost per Connection for Scenario 1 and Scenario 2**

	Consolidation (Scenario 1)	Consolidation (Scenario 2)
<b><u>Funding</u></b>		
Total Capital Cost <sup>1</sup>	\$12,350,261	\$12,350,261
Number of Connections	173	173
Amount Per Connection	\$60,000	\$80,000
Maximum Grant Available <sup>2,3</sup>	\$10,380,000	\$13,840,000
<b><u>Loan Payment</u></b>		
Total Loan Amount <sup>4</sup>	\$1,970,261	\$0
Interest Rate	0.0%	N/A
Number of Years	40	N/A
<i>Annual Amount</i>	\$49,257	\$0
<i>Monthly Amount</i>	\$4,105	\$0

<sup>1</sup>Refer to Section 5.3 and Table 5-3 for an explanation of the construction costs.

<sup>2</sup>Eligible for 100% of the total project cost up to a maximum amount of \$60,000 per connection.  
At 173 service connections, RMHE would be eligible up to \$10.38 million.

<sup>3</sup>Eligible for 100% of the total project cost up to a maximum amount of \$80,000 per connection.  
At 173 service connections, RMHE would be eligible up to \$13.84 million.

<sup>4</sup>The total loan amount is equal to total capital cost minus the grant available.

### 5.3 Construction Costs

The estimated cost for connecting to the City water system was calculated as \$4,117,542 in the April 2021 Project Report. These costs include the extension of water service from the Hughson water system to connect to the RMHE system and disconnection and destruction of the existing groundwater wells. Based on the Engineering News-Record Construction Cost Index, construction prices have increased by 18% since April 2021. The adjusted estimated cost is \$4,850,261.

In addition to the improvements to extend water service to RMHE, the City has stated that the water system does not have the required capacity to serve RMHE and needs to expand its facilities to supply potable water to the RMHE. The estimated cost for expanding the facilities is \$7,500,000, as detailed in the Riverview Mobile Estates Sewer & Water Consolidation Project Technical Memo (Technical Memo), prepared by the Water Engineer in May 2022 and included in **Appendix F**. The \$7,500,000 improvements would be for Phase 1 of the North Facility improvements, which will include the construction of a storage tank and booster pumps. The Affordability Study assumes that the anticipated and necessary \$7.5M city improvements are eligible project costs as required for consolidation, but this has yet to be reviewed by DFA. The total estimated cost for the design and construction of the infrastructure to consolidate water service with the City and RMHE and increase capacity of the City water system is \$12,350,261 as summarized in **Table 5-3**. Since it is unknown if RMHE will receive \$60,000 per connection or \$80,000 per connection in grant funding at this time, both alternatives were evaluated and represented in this Study. The eligibility of the City Water System Improvements will be reviewed by DFA.



**Table 5-3 - Estimated Construction Cost**

Item	Amount (\$)
Demolition of Existing System and Connection to Hughson Water System	4,850,261
Hughson Water System Improvements	7,500,000
<b>Total Project Cost</b>	<b>12,350,261</b>

As stated in the Cost/Revenue Evaluation, the necessary Hughson water system improvements will not result in a surcharge to RMHE customers, as it benefits both the City and RMHE. Similarly, since the \$7.5M improvements will result in the need for a loan repayment component under Scenario 1 funding, we are assuming that the loan repayment will not result in a loan repayment surcharge to RMHE customers, as it benefits both the City and RMHE. In the event of consolidation between the two water systems, the City of Hughson can determine how the loan repayment will impact existing water rates and how it is divided amongst customers, which will include RMHE.

#### 5.4 Consolidation Incentives

Per the 2022-23 IUP and separate from this project, the City of Hughson is eligible for State Water Board funds offered as incentives to Receiving Water Systems (City of Hughson) in exchange for completing consolidation (Consolidation Incentives). If a public water system (PWS) completes a physical consolidation of an existing PWS(s) or a community (at least 15 year-round residential service connections or a year-round population of at least 25 people) not currently served by a PWS, the Consolidation Incentives DFA is authorized to offer a Receiving Water System the following, but not limited to:

- Up to \$10 million in zero percent (0%) interest rate financing per consolidated community/water system from available sources for planning or construction of an Incentive Project; and
- Grant/PF funding for an Incentive Project of up to \$3,000 per connection when consolidating a community water system that does not qualify as a Small DAC, \$5,000 per connection when consolidating a community/water system that qualifies as a small DAC, or up to \$10,000 per connection when consolidating a community/water system that qualifies as a Small SDAC. Maximum of \$5 million grant/PF per consolidated community/water system.

The Consolidation Incentives are subject to DFA approval. As stated in the previous section, the Affordability Study assumes that the \$7.5M city improvements are eligible project costs as required for consolidation but have yet to be reviewed by DFA.

#### 5.5 Operations and Maintenance Costs

The 2022-2023 water operations budget for the City is \$1,528,624. The City of Hughson conducted a Cost/Revenue Evaluation in December 2022 that includes a cost analysis of operating and maintaining the proposed facilities necessary to provide potable water to RMHE, recommendations for RMHE water rates to ensure all costs are recovered through RMHE revenues, and an overall quantification of replacement costs dedicated to RMHE. As part of the Cost/Revenue Evaluation, the City was able to determine the additional costs applicable to RMHE only, in addition to the City-wide water rate based on RMHE's proportional share of these costs.

Of the necessary improvements needed to improve the City water system to connect to the RMHE and City water systems, the proposed transmission pipeline will be constructed for the sole benefit of RMHE.



Therefore, the operation and maintenance costs associated with the pipeline will be the responsibility of RMHE. The Cost/Revenue Evaluation provides a breakdown of the estimated operation and maintenance, repair, and replacement costs associated with the proposed pipeline, which resulted in an annual cost of \$14,775. The estimated annual cost translates to a monthly surcharge of \$7.18 per connection.

## 5.6 City of Hughson - Monthly Cost Per Connection

The City monthly utility billing charges for water are included in **Appendix G**. However, the RMHE revenue projections and estimated monthly water rate is based on the assumptions presented above and in the Cost/Rate Evaluation. Although City of Hughson residents pay a fixed rate of \$38.20 per month, the Cost/Revenue Evaluation states that a monthly fixed fee of \$30.00 per connection will be assumed for the RMHE, with no change to the existing City volume rate of \$2.21 per 1,000 gallons of water used. As presented in the previous section, the operation and maintenance surcharge of \$7.81 was added per month per customer. Since the existing RMHE well will be demolished, a landscaping fee was assumed and applied to the RMHE project revenues. The landscaping water rate will incur a monthly fixed fee of \$127.34, assuming a 1.5-inch diameter connection and servicing a 0.7 acre turf area, with the same City volume rate of \$2.21 per 1,000 gallons of water used. The total estimated RMHE revenue projections and monthly water rate are given in the Cost/Revenue Evaluation and expanded upon in **Table 5-4**.

**Table 5-4 - Estimated RMHE Projected Revenues and Monthly Water Rate**

Description	Value	Unit
Residential Flat Service Charge	30.00	\$/month
Water Usage Billing Rate	2.21	\$/1,000 gallons
Average Water Usage for one customer	5.80	1,000 gallons/month
Operation and Maintenance Surcharge per customer	7.18	\$/month
Average Water Bill for one customer (Scenario 1)	50.00	\$/month
Average Water Bill for one customer (Scenario 2)	50.00	\$/month
RMHE Residential Water Service Lines	173	service connections
<b>Total Monthly Residential Water Rate Revenues</b>	<b>8,649.65</b>	<b>\$/month</b>
Landscaping Flat Service Charge	127.34	\$/month
Average Water Usage for Landscaping	76.00	1,000 gallons/month
<b>Total Monthly Landscaping Water Rate Revenues</b>	<b>295.30</b>	<b>\$/month</b>
<b>Landscaping Water Rate for one customer (if applied)</b>	<b>1.71</b>	<b>\$/month</b>
<b>Total Projected Monthly Revenue from All Water Rates</b>	<b>8,944.95</b>	<b>\$/month</b>
<b>Total Projected Yearly Revenue from All Water Rates</b>	<b>\$107,339.45</b>	<b>\$/year</b>

Based on the unit rates defined in the table, the monthly cost of water service per mobile home unit connection under Scenario 1 and Scenario 2 is \$42.82, plus the operation and maintenance surcharge of \$7.18, for a total monthly water rate of \$50.00 per RMHE customer. RMHE owners would also be responsible for the projected monthly landscaping water rate of \$295.30. If the monthly landscaping water rate was applied to the customers, it would result in an increase of \$1.71 per customer.

## 5.7 Water Rate Affordability

**Table 5-5** shows a comparison of the RMHE water rates, the anticipated water rates after consolidation with the City of Hughson under Scenario 1, the anticipated water rates after consolidation with the City



of Hughson under Scenario 2, and the minimum and maximum affordable water rate for RMHE. It is likely the Scenario 1 will result in an increased water rate due to the loan repayment component, but this will be determined by the City of Hughson. For the purposes of this Study, no loan repayment surcharge was applied to the water rates under Scenario 1 funding. As shown in **Table 5-5**, if the RMHE consolidates with the City, the average monthly water bill for RMHE customers will exceed the minimum affordable water rate for the community but will be below the maximum affordable water rate for both funding scenarios.

**Table 5-5 - Comparison of Water Rates**

Description	Value	Unit
RMHE Average Monthly Water Bill (as of March 2023)	48.62	\$/customer/month
RMHE Average Monthly Water Bill w/ City of Hughson (Scenario 1)	50.00	\$/customer/month
RMHE Average Monthly Water Bill w/ City of Hughson (Scenario 2)	50.00	\$/customer/month
Minimum Affordable Water Rate for RMHE	43.75	\$/month
Maximum Affordable Water Rate for RMHE	72.92	\$/month

## 6 References

- [1] Riverview Mobile Home Estates Water System Feasibility Study Report, Black Water Consulting Engineers, Inc., April 1, 2021.
- [2] 2021 Drinking Water Affordability Assessment, California Water Boards, April 2021.
- [3] State of California Drinking Water State Revolving Fund - Intended Use Plan State Fiscal Year 2022-23, Division of Financial Assistance – State Water Resources Control Board, October 2022



## **Appendix A**

### **Riverview Mobile Home Estates Cost/Revenue Evaluation Technical Memo**



# TECHNICAL MEMORANDUM

**December 29, 2022**

**To:** Merry Mayhew, City Manager

**From:** Cort Abney, City Water Engineer

**Subject: Riverview Mobile Home Estates Cost/Revenue Evaluation**

The Riverview Mobile Home Estates (RMHE) is a privately owned development located approximately one mile northeast of the City of Hughson. The development currently consists of 174 mobile homes, a management building, and a soccer/playfield. RMHE owns and operates its own water and sewer systems, and water for the development is supplied by a single RMHE well.

In 2016, RMHE was issued a compliance order to address uranium contamination in the water supply. Uranium is a naturally occurring mineral found in groundwater. Uranium can be removed, but the treatment process is normally expensive to install and operate.

Rather than build a treatment facility, State regulators prefer RMHE find a local water purveyor willing to provide water ("*consolidate*") to RMHE to avoid the complexities associated with groundwater treatment. Four consolidation options were evaluated to determine which local water systems, if any, would be candidates to serve water to RMHE, including:

- City of Hughson
- City of Modesto owned water system in the unincorporated County island town of Empire
- Stanislaus Regional Water Authority
- City of Waterford

The State's evaluation concluded that the City of Hughson is the only feasible water system available to provide RMHE potable water. Subsequently, the City of Hughson began discussions with representatives from the State of California WaterBoard, County of Stanislaus Environmental Health, and RMHE to develop a conceptual consolidation project involving Hughson serving RMHE. Currently, discussions are focused on the financial impacts to both parties.

The purpose of this technical memorandum is to identify budgetary expenses, rates, and revenues associated with the proposed consolidation project, whereby Hughson provides a potable water supply to RMHE.

## **Background**

One of the challenges associated with consolidating RHME with Hughson is the current lack of surplus water in the Hughson water system. With completion of current water supply projects (Well 7 Replacement, Well 8 GAC Treatment), Hughson will have sufficient water for existing customers and approved developments, but no surplus supply. As part of a consolidation project, the City has asked



that grant funding be provided to Hughson for construction of a new water tank and associated improvements (“North Storage Tank”), thereby increasing water supply capacity and allowing service to RMHE. Construction of the North Storage Tank will leave the City with additional water capacity after RMHE demands are met. However, the City will be responsible to incur the full cost of operating and maintaining the facility in perpetuity.

Consolidation of RMHE will require construction of approximately 7,000 lineal feet of pipeline from the proposed North Storage Tank to RMHE, of which approximately 5,800 lineal feet will be used for the sole purpose of serving RMHE (“RMHE pipeline”). Although the cost of operating and maintaining a new RMHE pipeline are relatively minor, Hughson will be responsible for these costs in perpetuity as well.

Cost impacts to both Hughson (construction, operating, and replacing infrastructure) and RMHE (affordability) are being assessed. All stakeholders currently agree that all construction costs for the North Storage Tank and RMHE pipeline, including planning, engineering, inspection, environmental, etc., will be provided through grant funding by the State Waterboard.

The following provides a cost analysis including operating and maintaining the proposed North Storage Tank and RMHE pipeline, and recommendations for RMHE water rates to ensure all costs are fully recovered through RMHE revenues.

### **Operation and Maintenance Costs**

The cost to own, operate, and maintain the proposed North Storage Tank and RMHE pipeline were estimated based, in part, on the following assumptions:

- The North Storage Tank will require 1.5 operator hour daily x 5 days per week, on average; <sup>1</sup>
- The RMHE pipeline (dedicated section) will require 1 operator hour per week, on average; <sup>2</sup>
- The cost to employ a City operator is \$51.44 per hour;
- Hughson will not be required to maintain existing RMHE water distribution system; <sup>3</sup>
- Current RMHE water demand is 40 acre-feet per year; <sup>4</sup>
- RMHE will require a single 3” compound master meter;
- Completion of infrastructure for RMHE will occur in June, 2026; <sup>5</sup>

The conceptual consolidation project includes a single (master) water meter to serve RMHE (located on Geer Road), allowing Hughson to send one water bill to the RMHE development in accordance with the Hughson water rate schedule. Additionally, a surcharge may be appropriate to itemize any costs for operating and maintaining infrastructure constructed for the sole purpose of providing water to RMHE. Since the North Storage Tank facility will benefit both Hughson residents as well as RMHE, a surcharge is not be proposed. The cost of maintaining this facility would be included in the RMHE water rate.

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<sup>1</sup> Operators visit facility once per day during the week (1 hour) to check for proper operation (no leaks, no vandalism, instruments working properly, etc.), with more extensive maintenance performed periodically (weed control, cleaning, routine repairs and maintenance, etc.), requiring 2-8 hours labor.

<sup>2</sup> Operator time for USA marking, checking/maintaining ARV's, testing for disinfection levels at meter, read meter, valve exercising, etc.

<sup>3</sup> Including, but not limited to, water quality testing for copper, lead, or routine coliform testing, leak repair, etc.

<sup>4</sup> 5,800 gpm per month/unit x 174 units, plus 0.7 acres x 4.0 acre-feet/acre. Increases in demand due to future growth will be limited as established in water supply service agreements.

<sup>5</sup> Grant approval 1/24; engineering design 10/24; project award 3/25; construction completion 6/26.



However, a surcharge is appropriate for operation and maintenance of the dedicated RHME pipeline in Geer Road, located between Hatch Road and RHME.

### North Storage Tank

At completion (June, 2026), it is assumed the North Storage Tank will primarily benefit RMHE. Based on the assumptions listed above, the labor cost to operate and maintain the proposed North Storage Tank facility is \$20,062 per year.<sup>6</sup> Future City development projects will utilize the facility's surplus capacity within 5-10 years following completion. Hence, no surcharge is recommended for the North Storage Tank, as it benefits both City and RMHE.

### RMHE Pipeline

Since the RMHE pipeline will be constructed for the sole benefit of RMHE, the costs associated with the pipeline should be the responsibility of RMHE. Costs include regular and scheduled maintenance, unscheduled maintenance and repairs, and future replacement. The cost of normal operation and maintenance were estimated as \$2,675 per year.<sup>7</sup> Costs associated with unscheduled maintenance and repairs were assumed as \$25,000 every 20 years.<sup>8</sup>

The cost of replacing the pipeline and appurtenances was developed based on unit prices developed in the "Riverview Mobile Home Estates Water System, Feasibility Study Report", dated April, 2021. The following table includes a cost estimate for the dedicated RMHE section of pipe and appurtenances. Lump sum prices shown are proportional to the pipeline quantity associated with the RMHE pipeline.

**RMHE Pipeline Cost Estimate**

Item	Unit	Unit Price	Quantity	Cost
Mobilization/Demobilization	L.S.	68,400	1	\$68,400
Sheeting and Shoring	L.S.	71,250	1	71,250
Traffic Control	L.S.	21,660	1	21,600
12" C900 Pipeline	L.F.	160	5,800	928,000
12" Gate Valves	Ea.	2,650	5	13,250
Pavement Restoration	L.F.	44.00	4,800 <sup>a</sup>	211,200
Disinfection and Testing	L.S.	10,000	1	5,700
<b>Construction Cost</b>				<b>\$1,319,400</b>
Engineering, Inspection, etc.	30% of construction cost			395,820
<b>Total Project Cost</b>				<b>\$1,715,220</b>

a. Approximately 600 l.f. of pipeline assumed to be located in a conductor casing within the Tuolumne Bridge crossing.

Based on the estimated cost of construction, an annual replacement contribution of \$11,230 is needed to fund replacement of the pipeline at the end of its useful life.<sup>9</sup>

<sup>6</sup> 390 labor hours per year x \$51.44 per hour. Add \$2,050 electrical and \$1,300 chemical for RHME water delivery.

<sup>7</sup> 1 hour per week x 52 x \$51.44 per hour

<sup>8</sup> "Unscheduled maintenance" includes leak repairs, replacing damaged appurtenances (i.e. fire hydrant, air release valve, gate valves, etc.). Annual cost of \$1,081, assuming 3.5% rate of return and 2% inflation.

<sup>9</sup> Annual cost of \$11,230, assuming 80 year life cycle, 3.5% rate of return and 2% inflation.



Total estimated costs for RMHE pipeline operation, maintenance, repair, and replacement is \$14,775 per year, resulting in a monthly surcharge of \$7.18 per month per connection, as shown in the following table.

#### RMHE Pipeline Surcharge Cost Estimate

Description	Estimated Cost	Annual Cost	Monthly Cost per Unit <sup>10</sup>
Regular and scheduled Maintenance	\$2,675 per year	\$2,675	\$1.28
Unscheduled maintenance and repairs	\$25,000 every 20 years	\$1,081	\$0.52
Replacement Cost	\$1,715,220 @ 80 years	\$11,230	\$5.38
<b>Total Surcharge</b>		<b>\$14,795</b>	<b>\$7.18</b>

#### RMHE Rates and Revenues

Water rates should be set to allow full cost recovery by City for water service. It will be equally important to maintain rates that are affordable for RMHE residents. In general, RMHE residents should expect to pay water rates that are similar to City residents, and be subject to all future City rate adjustments, conservation requirements, and other City water program codes and conditions.

In 2018, the State of California approved SB7 requiring individual water meters (“submeters”) be installed on all new multi-family residential units or mixed commercial and multifamily units, even if water is being provided to the development through a single “master” meter. The City recently approved the first multi-family project that requires submetering, in accordance with SB7. The City has yet to determine how submeters and associated data will factor into water rates. However, a new multi-family water rate that more closely reflects existing City residential water rates is being explored. Although a mobile home park is classified as “manufactured homes” rather than “multi-family”, both are considered residential housing. To ensure that water rates paid by all residents of Hughson be fair and equitable, regardless of the type of housing, an additional rate tier may be necessary.

Using the current master meter rate structure (single large meter) to bill RMHE would result in a fixed water rate significantly less than what current Hughson residents incur. Consolidation agreements should set RMHE water rates to be consistent with City residential rates. Apartments and mobile homes are expected to use less water than a single family residence, consequently can use smaller water meters (e.g. 5/8” vs ¾” or 1”). A new metered connection category could be established for residents of multi-family and mobile homes, including a proportionally adjusted fixed rate component. For developments with a master meter, including RMHE, each unit would pay the fixed monthly fee, but water use would be billed based on the master meter reading. Currently, City residents pay a fixed rate of \$38.20, plus \$2.21 per 1,000 gallons of water used. For purposes of this analysis, a monthly fixed fee of \$30.00 per connection for apartments/mobile homes was assumed, and no change to the existing volume rate.

RMHE revenue projections using assumptions described above are shown in the following table.

<sup>10</sup> Based on 174 (current) RMHE units. Unit cost will decrease should additional units be built in the future.



### RMHE Projected Revenues

Rate	Unit	Unit Rate	Units	Total Monthly Revenue
Residential				
Fixed	Per Connection	\$30.00	175 <sup>a</sup>	\$5,250
Volumetric	Per 1,000 gallons	\$2.21	5.8 <sup>b</sup>	\$2,243
Landscaping				
Fixed	Per Connection	\$127.34 <sup>c</sup>	1	\$127.34
Volumetric	Per 1,000 gallons	\$2.21	76 <sup>d</sup>	\$167.96
<b>Total</b>				<b>\$7,788</b>

a. Includes 174 mobile homes and one management office

b. Based on 5,800 gallons per month per unit x 175 units

c. Assuming 1.5" connection for 0.7 acre turf area

d. Assuming 4 acre-feet per year for turf irrigation

Total projected annual revenues from RMHE are \$93,456, plus replacement surcharge of \$14,795. Based on the unit rates defined in the table, the monthly cost of water service per mobile home unit is \$42.82, plus surcharge of \$7.18, totaling \$50.00. <sup>11</sup>

### Recommendations

Providing water service to RMHE represents a significant commitment by the City of Hughson, as the terms of the agreement will be perpetual. The City is evaluating all impacts to its water program should consolidation occur, including costs and revenues associated with providing water service. Consolidation agreements should ensure City residents do not support or subsidize the cost of providing RMHE water service, establish an affordable water program for RMHE residents, and propose a RMHE rate structure that is consistent with rates paid by City residents.

Construction of water infrastructure to provide service to RMHE include a new storage and pumping facility, and a dedicated pipeline on Geer Road to connect the systems. Hughson water rates account for the operation and maintenance of the water system, including wells, storage tanks, and pipelines. It can be assumed that those costs are built into the water rate schedule, and RMHE water bills will pay its fair proportion to operate and maintain the water system, including the proposed North Storage Facility. However, since the RMHE pipeline solely benefits those residents, costs associated with maintenance, operation, repair, and replacement should be borne by RMHE. It is recommended this cost be added as a surcharge to the water service rate.

Based on the analysis described in this technical memorandum, it is recommended that should the City propose consolidation with RMHE, agreements include a fixed water rate of approximately \$30.00 per unit (or as established with a new rate category in the future), volumetric billing based on a single master meter using the City's metered rate schedule, and a surcharge of \$14,795 per year to recover dedicated pipeline costs.

<sup>11</sup> For comparison, City single family residents pay approximately \$70 per month for water service.



## **Appendix B**

### **Domestic Water Supply Permit**





**DEPARTMENT OF ENVIRONMENTAL RESOURCES**

3800 Cornucopia Way, Suite C, Modesto, CA 95358-9494  
Phone: 209.525.6700 Fax: 209.525.6774

March 17, 2016

Bill Ebert  
2967 Daylight Way  
San Jose, CA 95111

**RE: TRANSMITTAL OF WATER SUPPLY PERMIT 2016-03-005**

In response to the application for water supply permit dated April 20, 2014, along with additional required documents, Stanislaus County Department of Environmental Resources has prepared Water Supply Permit 2016-03-005. The permit is being transmitted to the Riverview Mobile Estates Water System under cover of this letter.

Please review each item of the Conditions and ensure the Riverview Mobile Estates Water System complies with each of the requirements. If you have any questions regarding this matter, please contact Rachel Riess at (209) 525-6720.

Sincerely,

Rachel Riess, REHS  
Registered Environmental Health Specialist

Enclosure (1)



**STATE OF CALIFORNIA**  
**DOMESTIC WATER SUPPLY PERMIT**

**Issued To**

**Riverview Mobile Home Estates Water System**

**Public Water System No. 5000090**

**By**

**STANISLAUS COUNTY**  
**DEPARTMENT OF ENVIRONMENTAL RESOURCES**



**PERMIT NUMBER: 2016 – 03 – 005**

**DATE: March 17, 2016**

**WHEREAS:**

1. **Riverview Mobile Home Estates, LLC**, submitted an application dated **April 20, 2014**, to **Stanislaus County Department of Environmental Resources** to operate a public water system. The application was submitted in accordance with California Health and Safety Code, Section 116525.
2. This public water system is known as the **Riverview Mobile Home Estates Water System** located at **8200 Jantzen Road, Modesto, CA 95357** whose headquarters is located at **2967 Daylight Way, San Jose, CA 95111**.
3. The legal owner of the **Riverview Mobile Home Estates Water System** is **Riverview Mobile Home Estates, LLC**. **Riverview Mobile Home Estates, LLC**, therefore, is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.
4. The **Riverview Mobile Home Estates Water System** for which the permit application has been submitted is as described briefly below; a more detailed description of the permitted system is described in the TMF Capacity Assessment Form (February 2015) and supplemental documents:

The **Riverview Mobile Home Estates Water System** is by definition a community water system located in the unincorporated area of Stanislaus County adjacent to the city of Modesto. **Riverview Mobile Home Estates Water System** provides potable water to approximately 250 residents of a mobile home park. The parcel is approximately 17.13 acres in size and provides domestic water by means of 175 service connections that



serves approximately 174 mobile home spaces and one manager's office. The water system is served by two active wells; South Well (5000090-002) and South West New Well (5000090-013).

South Well that is 220-feet deep is believed to have been constructed in 1978, with an estimated 50-foot unknown annular seal and a 10-inch steel casing. The South Well is equipped with a 240-gallon per minute (GPM) 20-HP submersible pump.

South West New Well that is 140-feet deep constructed on May 20, 2004, with a 95-foot bentonite annular seal and a 10-inch PVC casing. The South West New Well is equipped with a 300-gallon per minute (GPM) 20-HP submersible pump.

Both wells discharge to a 10,000-gallon pressure tank, prior to entering the domestic water system. Irrigation demands are not provided by this well. Additional details of this water system can be found in the technical report titled "*Public Water System Description Report*".

5. The service area of the **Riverview Mobile Home Estates Water System** shall be shown on the service area map on page 5 of the Permit Report.

### ***And WHEREAS:***

1. **Riverview Mobile Home Estates, LLC**, has submitted all of the required information relating to the proposed operation of the **Riverview Mobile Home Estates Water System**.
2. The **Stanislaus County Department of Environmental Resources** has evaluated all of the information submitted by **Riverview Mobile Home Estates, LLC**, and has conducted a physical investigation of the proposed **Riverview Mobile Home Estates Water System**.
3. The **Stanislaus County Department of Environmental Resources** has been delegated authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

***THEREFORE:*** The **Stanislaus County Department of Environmental Resources** has determined the following:

1. The **Riverview Mobile Home Estates Water System** meets the criteria for and is hereby classified as a **community** water system.
2. The applicant has demonstrated that the proposed **Riverview Mobile Home Estates Water System** has sufficient source capacity to serve the anticipated maximum day demand.
3. The design of the proposed water system complies with the Water Works Standards and all applicable regulations.
4. The applicant has demonstrated adequate technical, managerial, and financial capacity to operate reliably the proposed water system.



5. Provided the following conditions are complied with, the **Riverview Mobile Home Estates Water System** should be capable of providing water to consumers that is pure, wholesome, and potable and in compliance with statutory and regulatory drinking water requirements at all times.

**RIVERVIEW MOBILE HOME ESTATES, LLC, IS HEREBY ISSUED THIS DOMESTIC WATER SUPPLY PERMIT TO OPERATE THE RIVERVIEW MOBILE HOME ESTATES WATER SYSTEM.**

The **Riverview Mobile Home Estates Water System** shall comply with the following permit conditions:

1. The **Riverview Mobile Home Estates Water System** shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted hereunder.
2. The only sources approved for potable water supply are as follows:

Source	PS Code	Status	Estimated Capacity	Comments
South Well	5000090-002	Active	240 GPM	Untreated
South West New Well	5000090-013	Active	300 GPM	Untreated

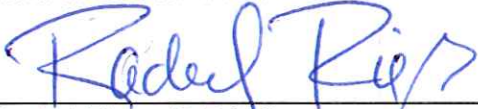
3. No changes, additions, or modifications shall be made to the sources or treatment mentioned in Conditions unless an amended water permit has first been obtained from the County. No changes to the distribution system shall be made unless written approval for the changes has been provided from the County.
4. All water supplied by **Riverview Mobile Home Estates Water System** for domestic purposes shall meet all Maximum Contaminant Levels (MCLs) and Action Levels (ALs) established by the California Department of Public Health. If the water quality does not comply with the California Drinking Water Standards, treatment shall be provided to meet standards.
5. The **Riverview Mobile Home Estates Water System** shall comply with Title 17 of the California Code of Regulations (CCR), to prevent the water system from being contaminated from possible cross-connections. The **Riverview Mobile Home Estates Water System** shall maintain a program for the protection of the domestic water system against backflow from premises having dual or unsafe water systems in accordance with Title 17. All backflow prevention devices shall be tested annually.
6. **Riverview Mobile Home Estates Water System's** distribution system must be overseen by a California Certified Water Distribution System Operator, Grade D1 or higher. The name and a copy of the operator's certification shall be provided to the County.



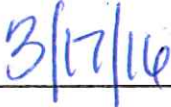
This permit supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the **Stanislaus County Department of Environmental Resources**. This permit is non-transferable. Should the **Riverview Mobile Home Estates Water System** undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

Any change in the source of water for the water system, any modification of the method of treatment as described in the Permit Report, or any addition of distribution system storage reservoirs shall not be made unless an application for such change is submitted to the Department.

**Stanislaus County Department of Environmental Resources**  
**Environmental Health Division**



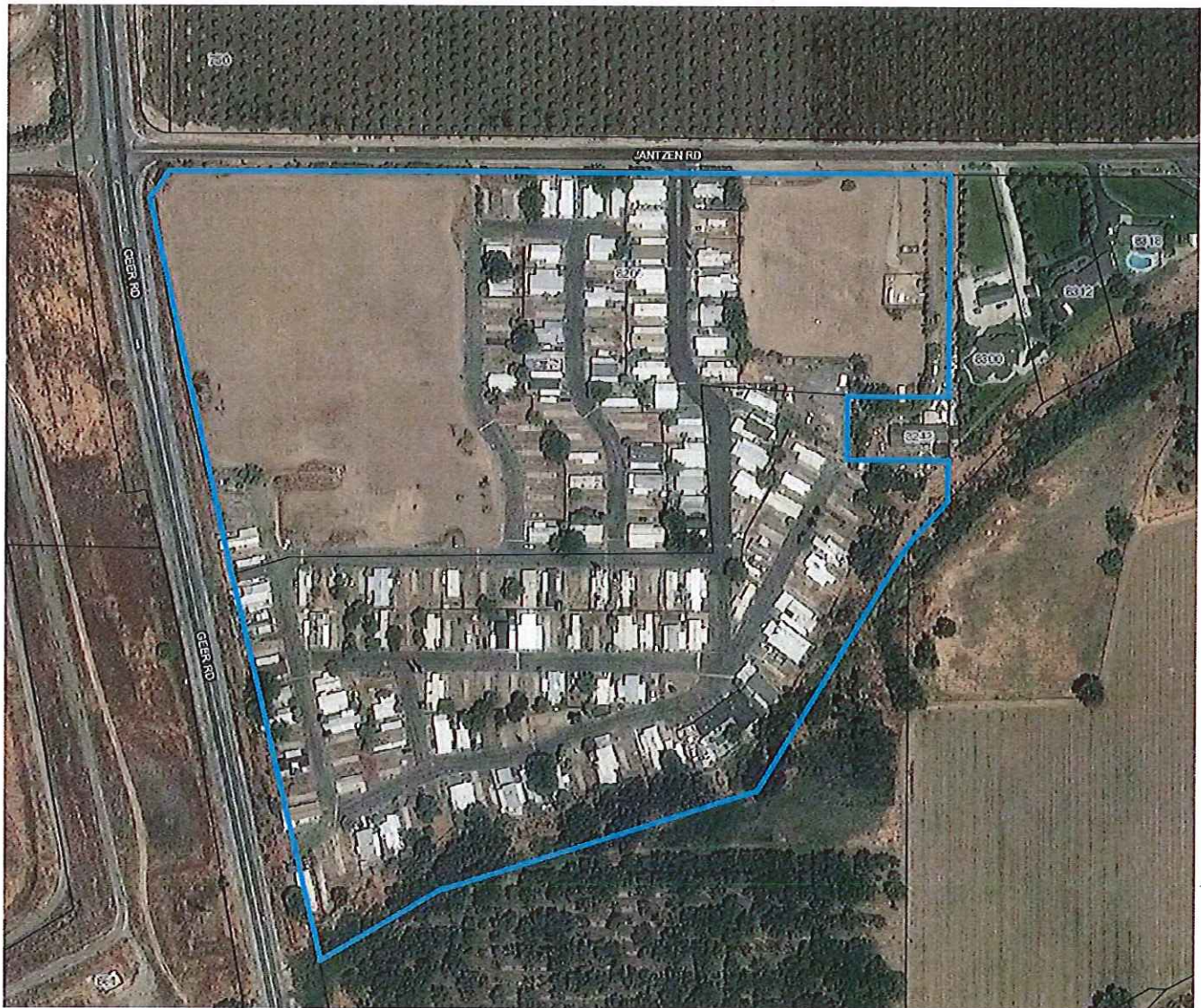
Rachel Riess, R.E.H.S.



Date



**Riverview Mobile Home Estates – 8200 Jantzen Road, Modesto, CA 95357**  
**APN: 018-068-001 and APN: 018-069-001**





## **Appendix C**

### **Water Consolidation Outreach**



**From:** [Merry Mayhew](#)  
**To:** [Jimmerson, Dania@Waterboards](#); [Thania Bejarano](#)  
**Cc:** [Juan Cano](#); [Aja Verburg](#); [Patrick Scott](#); [cort@h2oengr.com](#); [Rachel Wyse](#); [Jaime Velazquez](#)  
**Subject:** RE: City of Hughson - Consolidation Project w/ Riverview MHE- Follow-up  
**Date:** Thursday, May 26, 2022 1:59:12 PM  
**Attachments:** [image001.png](#)  
[RiverView MHP Consolidation TM 9May22.pdf](#)

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Good afternoon Dania and Thania,

Dania had stated in a previous email dated Feb 24<sup>th</sup> that DFA cannot issue a letter stating that they agree to specific construction items/tasks, until an application is submitted, but that you could follow up with DFA to gain a better understanding of what could be included as part of the construction package if we had justification with the list of potential upgrades and capacity increase. In addition, you mentioned you could provide a more formal email detailing that those components are in fact commonly covered by the construction grant funding.

Attached please find a memo by Cort Abney, the City of Hughson's contracted Water Engineer. This memo explains why an increase in water capacity would be required before we could take on a consolidation project such as Riverview and it lists a solution as proposed by Mr. Abney. Hopefully this will suffice for DFA to indicate if these items could be covered under construction costs, before we move forward in taking a project of this magnitude to our City Council.

I do not have a consultant that can do the same for the wastewater side of things. The issues previously listed for waste water are what our Wastewater Treatment Plant Operator has stated is needed.

You also mentioned in the Feb 24<sup>th</sup> email that there is an "entire planning application package" that the "applicant" must submit. As I have mentioned previously the City of Hughson does not have adequate staff to handle a project of this magnitude. If you need additional wastewater information or a planning application package, the City of Hughson would need someone to complete those tasks.

Sincerely,

Merry Mayhew  
City Manager  
City of Hughson  
O: 209-883-4054

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**From:** Jimmerson, Dania@Waterboards <Dania.Jimmerson@waterboards.ca.gov>  
**Sent:** Tuesday, May 10, 2022 2:14 PM  
**To:** Merry Mayhew <mmayhew@hughson.org>; Thania Bejarano <thaniab@selfhelpenterprises.org>



**Cc:** Juan Cano <juanc@selfhelpenterprises.org>; Aja Verburg <aja@blackwater-eng.com>; Patrick Scott <patrick@blackwater-eng.com>; cort@h2oengr.com; Rachel Wyse <rwyse@hughson.org>; Jaime Velazquez <jvelazquez@hughson.org>; Jimmerson, Dania@Waterboards <Dania.Jimmerson@waterboards.ca.gov>

**Subject:** RE: City of Hughson - Consolidation Project w/ Riverview MHE- Follow-up

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon, Merry

Regarding the list of potential WWT upgrades and capacity increase to City's WWTF, as a result of the provision of sewer services, yes, if the City provides me with a specific WWT tasks list, I could consult with DFA and get their opinion on whether those items could potentially qualify for grant funding as part of the overall WWC Project. Would be similar to what I did before (see attached MS Excel File, "WasteWater" Worksheet). Except this time the list would need to be more specific and add a brief rationale/link as to how this task would relate to the provision of sewer services (see attached MS Excel File, "WWT\_Upgrades" Worksheet).

I understand to obtain City Council's approval to move forward with these projects the Council's members not only want to know how the provision is not going to be a burden on the City and the current residents, but often they want to see how the City will benefit from the provision of sewer services. With that said...this can be approached by providing them with an idea of what are the City's current needs for expansion and WWT Upgrades and a brief description of how these items could potentially be covered, in part, by the grant funding of the WWC Project. As Thania described below, is our experience working on these projects, for about 2 +years now, that usually when these items are brought up to the City Council, is more of an informative item to let the members know and receive support to continue collaboration with the Regional Board and the non-profit organization. However, the outcome of the engineering and feasibility study as well as sewer rates study will ultimately dictate on whether this is an economically feasible alternative for the Riverview residents.

I would be glad to present the WWC side as an item to the City Council members and answer funding or other WWC project related questions. I am going to be out of the office the first two weeks in June though, but I will be available starting on June 21<sup>st</sup>.

Sincerely,

Dania

**Dania Jimmerson, M.S., P.E.**

WRCE, Wastewater Consolidation Program  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive Suite 200  
Rancho Cordova, CA 95670-6114  
[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)



---

**From:** Merry Mayhew <[mmayhew@hughson.org](mailto:mmayhew@hughson.org)>  
**Sent:** Tuesday, May 10, 2022 2:05 PM  
**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>  
**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Juan Cano <[juanc@selfhelpenterprises.org](mailto:juanc@selfhelpenterprises.org)>; Aja Verburg <[aja@blackwater-eng.com](mailto:aja@blackwater-eng.com)>; Patrick Scott <[patrick@blackwater-eng.com](mailto:patrick@blackwater-eng.com)>; cort@h2oengr.com; Rachel Wyse <[rwyse@hughson.org](mailto:rwyse@hughson.org)>; Jaime Velazquez <[jvelazquez@hughson.org](mailto:jvelazquez@hughson.org)>  
**Subject:** Re: City of Hughson - Consolidation Project w/ Riverview MHE- Follow-up

EXTERNAL:

Thank you Thania, that's very helpful.

Stay tuned,  
Merry

On May 10, 2022, at 1:05 PM, Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)> wrote:

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon Merry,

Thank you for your response. I understand you need more information to make a decision.

I am not sure if I understood your question in regards to the Councils approval. On previous projects the Council typically votes to continue discussions about a project with a phrase as simple as "Direct staff to proceed with formal consolidation and report back project progress" on the agenda. We are not in the planning application phase yet so we do not need a resolution. Dania, please let me know if I am missing anything.

Feel free to reach out to us at any point to discuss the potential upgrades list.

Best,  
Thania



**THANIA BEJARANO**

COMMUNITY DEVELOPMENT SPECIALIST

Self-Help Enterprises



8445 W. Elowin Court  
P.O. Box 6520  
Visalia, CA 93290

559-802-1781 Office  
559-651-3634 Fax  
[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)  
[Http://www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)

---

**From:** Merry Mayhew <[mmayhew@hughson.org](mailto:mmayhew@hughson.org)>

**Sent:** Tuesday, May 10, 2022 8:53 AM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Juan Cano <[juanc@selfhelpenterprises.org](mailto:juanc@selfhelpenterprises.org)>; Aja Verburg <[aja@blackwater-eng.com](mailto:aja@blackwater-eng.com)>; Patrick Scott <[patrick@blackwater-eng.com](mailto:patrick@blackwater-eng.com)>; [cort@h2oengr.com](mailto:cort@h2oengr.com); Rachel Wyse <[rwyse@hughson.org](mailto:rwyse@hughson.org)>; Jaime Velazquez <[jvelazquez@hughson.org](mailto:jvelazquez@hughson.org)>

**Subject:** RE: City of Hughson - Consolidation Project w/ Riverview MHE- Follow-up

Good morning Thania,

In an email from Dania on 2/24, she stated that with additional information (potential upgrades and capacity increase to City's WTF and WWTF), she could follow up with DFA to get a response if the particular items listed by the City can be covered under the construction costs for drinking water and wastewater consolidation projects. I have asked Cort Abney, our contracted water engineer, to put that information together on the water side. As soon as I have his memo I will send it out to the team. I don't believe it will take much longer as he recently provided some information for another purpose.

As soon as we have a good understanding of the incentives that the State could provide should we move forward, I believe the next step would be to take an item to Council for approval to continue discussions. I do have one question on this step, does the State need Council's approval in a resolution or is the approval of a staff report sufficient?

Sincerely,

Merry Mayhew  
City Manager  
City of Hughson  
Office: 209-883-4054

---

**From:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Sent:** Friday, May 6, 2022 9:25 AM



**To:** Merry Mayhew <[mmayhew@hughson.org](mailto:mmayhew@hughson.org)>; Rachel Wyse <[rwyse@hughson.org](mailto:rwyse@hughson.org)>; Jaime Velazquez <[jvelazquez@hughson.org](mailto:jvelazquez@hughson.org)>

**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Juan Cano <[juanc@selfhelpenterprises.org](mailto:juanc@selfhelpenterprises.org)>; Aja Verburg <[aja@blackwater-eng.com](mailto:aja@blackwater-eng.com)>; Patrick Scott <[patrick@blackwater-eng.com](mailto:patrick@blackwater-eng.com)>

**Subject:** RE: City of Hughson - Consolidation Project w/ Riverview MHE- Follow-up

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Merry, Jaime and Rachel,

My previous email contained a lot of information. I understand the City of Hughson Staff Group is a small team, so I wanted to reach out and ask if you would like to meet sometime this month to discuss the Riverview MHE Consolidation Project? I would be happy to set-up a Zoom meeting.

If you need more time to discuss internally, I understand. Please let me know.

Best,  
Thania

**THANIA BEJARANO**

COMMUNITY DEVELOPMENT SPECIALIST

Self-Help Enterprises



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P.O. Box 6520  
Visalia, CA 93290

[559-802-1781](tel:559-802-1781) Office  
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[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)  
[Http://www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)

---

**From:** Thania Bejarano

**Sent:** Monday, April 18, 2022 9:54 AM

**To:** [mmayhew@hughson.org](mailto:mmayhew@hughson.org); [rwyse@hughson.org](mailto:rwyse@hughson.org); [jvelazquez@hughson.org](mailto:jvelazquez@hughson.org)

**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Juan Cano <[juanc@selfhelpenterprises.org](mailto:juanc@selfhelpenterprises.org)>

**Subject:** City of Hughson - Water Consolidation Project w/ Riverview Mobile Estates - Follow-up

Good afternoon Merry, Jaime, and Rachel

I hope you are all doing well. It has been some time since we last spoke about the



**Riverview Mobile Home Estates Water Consolidation Project.** I simply wanted to provide some new updates.

Dania, Riverview's Consultants, and I are wrapping up Riverview's water consolidation and septic-to-sewer outreach to nearby entities this month. I have provided our preliminary findings below.

-

#### **Consolidation Outreach Findings**

1. **City of Hughson (COH)**– Several meetings were held from January – February 2022. A list of questions and concerns was sent to the Division of Drinking Water (DDW) and the Division of Financial Assistance (DFA) to provide responses and feedback. The COH will meet internally and follow-up with SHE and the Regional Board to discuss next steps and their decision about being included in the Riverview Affordability Study.
2. **SRWA** – A meeting was held on March 2022. The SRWA is interested in providing drinking water to Riverview MHE. However, the SRWA's Wholesale Water Agreement that will outline the costs and conditions for this service has not been finalized and Black Water does not have enough information to develop a cost estimate. SHE and Black Water will follow-up with the SRWA staff about sharing information to include in the Affordability Study. The SRWA can only provide drinking water services.
3. **City of Modesto (COM)** – A meeting was held on April 2022. The COM is not interested in a septic-to-sewer consolidation project with Riverview. Some concerns include the length of the pipeline, O&M, and billing. The COM believes Riverview has other water consolidation options that are much more feasible than Empire.
4. **City of Waterford (Waterford)** – A meeting was held on April 2022. At this time Waterford is not interested in a septic-to-sewer consolidation project with Riverview. The Waterford staff believes Riverview has other water consolidation options that are much more feasible than their small water system. However, they will meet internally with their team and discuss the project details. The staff will send SHE a response by the end of the month.

In addition to these updates, I wanted to communicate with the City of Hughson team that we do not expect the City to agree to both services if this is not something your staff can take on. If the City would only like to provide drinking water services or only provide sewer services to Riverview Mobile Estates, we can discuss this further. We understand that this project must be an economical and manageable option for the City to work with us. During our outreach meetings with the entities listed above an on-site wastewater treatment package plant was suggested as a manageable and cost-effective option for Riverview's sewage issues. Once the Riverview Sewer Project work plan is approved, the consultants will explore this option further. I wanted to inform you about on-site wastewater treatment package plants because I want to ensure COH team that we are looking at various options for Riverview, in addition to septic-to-sewer consolidation. The project stakeholders for the Riverview Project have not made



any final decisions but we would like to gather as much information from the entities we spoke to, to condense the project options available.

Apologies for the lengthy email but we appreciate your attention and consideration. We hope to hear back from you soon.

Feel free to contact me if you have any questions.

Best,  
Thania

---

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		Low (90): <b>Pass</b>
<a href="#">Block</a> this sender		
<a href="#">Block selfhelpenterprises.org</a>		

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**From:** [Thania Bejarano](#)  
**To:** [William Wong](#); [Ben Koehler](#)  
**Cc:** [Christiana Giedd](#); [Jeff Daniels](#)  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates  
**Date:** Wednesday, August 17, 2022 4:45:22 PM  
**Attachments:** [image002.png](#)  
[image908485.png](#)

---

Thank you, Will

This information is helpful. I appreciate the quick response.

Best,  
Thania

**THANIA BEJARANO**

COMMUNITY DEVELOPMENT SPECIALIST

Self-Help Enterprises



8445 W. Elwin Court  
P.O. Box 6520  
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559-802-1781 Office  
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[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)  
[Http://www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)

---

**From:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Sent:** Wednesday, August 17, 2022 4:37 PM  
**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>; Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>  
**Cc:** Christiana Giedd <[Christiana@blackwater-eng.com](mailto:Christiana@blackwater-eng.com)>; Jeff Daniels <[jdaniels@modestogov.com](mailto:jdaniels@modestogov.com)>  
**Subject:** Re: Wastewater Consolidation - Riverview Mobile Home Estates

Hi Thania,

Pretty much the same reason. They would likely need a pump station and a tank to ensure adequate water pressures to meet fire code. On top of high capital costs, I estimate that average water bill could be up to around \$35-\$45 per month, at the smallest meter size and assuming 10 units of water used per MH per month.

<https://www.modestogov.com/2397/Metered-Water-Rates>

Also I recall Riverview MHP is closer to the City of Hughson than Modesto.

Get [Outlook for iOS](#)

---

**From:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>  
**Sent:** Wednesday, August 17, 2022 6:23 PM  
**To:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Cc:** Christiana Giedd <[Christiana@blackwater-eng.com](mailto:Christiana@blackwater-eng.com)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

**External Email:** Please use caution when clicking links and/or opening attachments.

Good afternoon Will and Ben,

Back in April, Dania Jimmerson and I presented the Riverview Mobile Home Estates (RVMHE) Water & Sewer Consolidation Project to both of you (email chain below). I have attached the water consolidation presentation to this email.

Based on my notes you made it clear that a sewer consolidation was not possible between RVMHE and the City of Modesto (Empire)



because of the following reasons.

1. Billing and management difficulties
2. High O&M costs
3. Expensive pump stations
4. Sewer rates would approximately be \$60 which is unaffordable for a DAC community

However, I did not capture your reasoning for not wanting to do a water consolidation with the community of Riverview. Can you provide your reasoning so that we can include these findings in our Engineering Report? Feel free to contact me if you have any questions or need more information in regards to this project.

Thank you,  
Thania

**THANIA BEJARANO**

COMMUNITY DEVELOPMENT SPECIALIST

Self-Help Enterprises



8445 W. Elwin Court  
P.O. Box 6520  
Visalia, CA 93290

559-802-1781 Office  
559-651-3634 Fax  
[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)  
<http://www.selfhelpenterprises.org>

---

**From:** Thania Bejarano

**Sent:** Monday, March 28, 2022 2:02 PM

**To:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>

**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

Good afternoon Ben,

Congratulations and thank you for letting us know. I look forward to meeting you on Tuesday.

Thank you,  
Thania

---

**From:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>

**Sent:** Monday, March 28, 2022 9:57 AM

**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>

**Cc:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

I am so sorry for my delay. I have been planning a wedding for my fiancé and I and completely forget to set an out of office memo. My apologies. I have accepted the invite and will be there for the meeting on Tuesday.

Ben Koehler

---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Sent:** Friday, March 25, 2022 3:11 PM

**To:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>

**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

Thanks, Will. I just sent you and Ben an appointment Via MS Teams for **Tuesday, April 5<sup>th</sup> from 1330 to 1430**



Thania Bejarano from Self Help Enterprises will be joining us as well. Thania will be covering the Drinking Water Consolidation aspects of the project. Please see agenda below, which I also included it to the MS Teams appointment.

Sincerely,

Dania

#### AGENDA

#### COORDINATION AMONG WASTEWATER CONSOLIDATION (SB 1215) – REGION 5

AND

#### CITY OF MODESTO WQCF

RIVERVIEW MOBILE HOME ESTATES (RIVERVIEW MHE)

05 April 2022

1330 to 1430

Zoom Meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

[+1 916-562-0861, 355124019#](#) United States, Sacramento

Phone Conference ID: 355 124 019#

**Purpose:** Provide a brief overview of the Drinking and Wastewater Consolidation (WWC) Programs in terms of the funding available and clarify concerns/questions regarding the potential Riverview MHE WWC Project (septic-to-sewer).

**Potential Attendees:** William Wong (Director of Utilities – City of Modesto), Ben Koehler (WQCF Manager– City of Modesto), Thania Bejarano – Community Development Specialist (Self Help Enterprises - SHE), and Dania Jimmerson - Wastewater Consolidation Program Coordinator/Project Lead (Central Valley Regional Water Quality Control Board).

DRINKING WATER CONSOLIDATION (10 min - Thania Bejarano)

Background

Funding & Incentives

WWC PROGRAM - WHAT IS NEW? (2 min - Dania Jimmerson)

FUNDING (10 min- Dania Jimmerson)

- a. What is new in terms of funding sources?
- b. How are the funds distributed?
- c. How much funding could potentially be any given project?

RIVERVIEW MHE WWC PROJECT (10 min- Dania Jimmerson)

Project Background

WWC Qualification Criteria

CVRWQCB Involvement & Current Status

Next Steps

---

**From:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>

**Sent:** Friday, March 25, 2022 2:48 PM

**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>

**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

EXTERNAL:



Hi Dania,

Ben has been out of the office the past few days. 4/4/22 is out for me. Go ahead and send an invite for 4/5/22 at 1:30-2:30 to hold the meeting for now.

---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Sent:** Friday, March 25, 2022 10:57 AM  
**To:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates  
**Importance:** High

Good morning, Will

Is there a possibility that you reach out to Ben and see what time is more convenient for him? I am off next week, and I would like to send the appointment for this mtg, today, and block our calendars. Additionally, I am trying to schedule mtgs for other projects, during that week, and I would like to know my availability before I send appointments.

2-3PM on 4/4/22  
1:30-3PM on 4/5/22  
10-11AM on 4/7/22

Thanks in advance

Dania

---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Sent:** Thursday, March 24, 2022 8:47 AM  
**To:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>  
**Cc:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates  
**Importance:** High

Good morning, Ben

Could you please let me know which one(s) of Will's proposed dates work for you, so I can send an appointment?

I will be out of the office next week, so it will be wonderful if I can schedule the appointment this week and block our calendars.

2-3PM on 4/4/22  
1:30-3PM on 4/5/22  
10-11AM on 4/7/22

Thanks Ben

Dania

**Dania Jimmerson, M.S., P.E.**  
WRCE, Wastewater Consolidation Program  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive Suite 200  
Rancho Cordova, CA 95670-6114  
[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)

---

**From:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Sent:** Tuesday, March 22, 2022 4:36 PM  
**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>  
**Subject:** Re: Wastewater Consolidation - Riverview Mobile Home Estates



EXTERNAL:

Yes it would be good to have Ben in the meeting

Sent from my iPhone

On Mar 22, 2022, at 4:34 PM, Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)> wrote:

Great! I assume you want Ben to be at the mtg as well. Correct? So... I should wait to see if he is available on those days as well. Correct?

---

**From:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Sent:** Tuesday, March 22, 2022 4:32 PM  
**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

EXTERNAL:

I can do:

2-3PM on 4/4/22  
1:30-3PM on 4/5/22  
10-11AM on 4/7/22

---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Sent:** Tuesday, March 22, 2022 4:25 PM  
**To:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

Hello, Will, I understand...Next week I am not available but the following week will be great

Please find my availability below and let me know what work best for you and Ben

1. Monday, April 4<sup>th</sup> anytime from 1300 to 1500
2. Tuesday, April 5<sup>th</sup> anytime from 1100 to 1530
3. Thursday, April 7<sup>th</sup> anytime from 0900 to 1530
4. Friday, April 8<sup>th</sup> anytime from 0900 to 1500

Sincerely,

Dania

---

**From:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Sent:** Tuesday, March 22, 2022 3:51 PM  
**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

EXTERNAL:

Sorry Dania, I was out of the office from March 11-18<sup>th</sup> and missed your email.

Is there a time you can meet next week?



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**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Sent:** Friday, March 11, 2022 8:16 AM  
**To:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Cc:** Ben Koehler <[bkoehler@modestogov.com](mailto:bkoehler@modestogov.com)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Subject:** RE: Wastewater Consolidation - Riverview Mobile Home Estates

Good morning, Will

I would like to meet you and discuss the possibility of providing sewer services to Riverview Mobile Home Estates.

1. Monday, March 14<sup>th</sup> 1pm-5pm
2. Tuesday, March 15<sup>th</sup> 9am-10am and 1pm-2:30pm
3. Thursday, March 17<sup>th</sup> 9am-12pm

Please let me know at your earliest convenience what time is better for you and Ben

Sincerely,  
Dania

**Dania Jimmerson, M.S., P.E.**  
WRCE, Wastewater Consolidation Program  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive Suite 200  
Rancho Cordova, CA 95670-6114  
[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)

---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Sent:** Monday, February 7, 2022 5:45 PM  
**To:** William Wong <[WWong@modestogov.com](mailto:WWong@modestogov.com)>  
**Cc:** [bkoehler@modestogov.com](mailto:bkoehler@modestogov.com); Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>  
**Subject:** Wastewater Consolidation - Riverview Mobile Home Estates

Good afternoon, Will

I am the program coordinator, for the Wastewater Consolidation (WWC) Program within the Central Valley Regional Water Quality Control Board (Region 5). We met before (November 2020) and discussed the possibility of sewer service provision to Monterey Park Tract CSD. As you may remember, the WWC Program is currently evaluating small, disadvantaged community wastewater systems that could receive grant funding through the Division of Financial Assistance (DFA) to connect to local sewer systems. At the same time, a connecting municipal system such as the City of Modesto WQCF (Facility) may also be eligible for grant funding to upgrade or maintain WQCF permit compliance after connecting these communities.

This time, I am coordinating the WWC effort on behalf of the Riverview Mobile Home Estates (Riverview MHE), which is a severely disadvantaged community, and it is located approximately 10 miles North-East of the City of Modesto Primary WWTP (see figure below). We are looking into the possibility of connecting the Community of Riverview MHE to the City of Modesto WQCF. I would like to have a conversation with you to determine if this might be a viable project, and to provide you with more details about the WWC Program and the funding available. Potentially, there might be funding available for both, Riverview MHE and the City of Modesto WQCF in terms of any necessary treatment upgrades as part of the provision of sewer services to Riverview MHE.

Please contact me to discuss more details about this program and potential wastewater consolidation project. I am available at the following times below:

1. Wednesday, February 9<sup>th</sup> anytime from 0900 to 1330
2. Thursday, February 10<sup>th</sup> anytime from 11am-3pm
3. Friday, February 11<sup>th</sup> anytime from 0900 to 1500
4. Monday, February 14<sup>th</sup> anytime from 11am-3pm
5. Tuesday, February 15<sup>th</sup> anytime from 0900 to 1530



Sincerely,  
Dania

**Dania Jimmerson, M.S., P.E.**

WRCE, Wastewater Consolidation Program  
Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive Suite 200  
Rancho Cordova, CA 95670-6114  
[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)





**From:** [Aja Verburg](#)  
**To:** [Patrick Scott](#)  
**Subject:** Fwd: Riverview/SRWA Water Consolidation Meeting Follow-Up  
**Date:** Wednesday, June 15, 2022 11:41:07 AM  
**Attachments:** [image001.png](#)  
[image205715.png](#)

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FYI

Get [Outlook for iOS](#)

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**From:** Thania Bejarano <thaniab@selfhelpenterprises.org>  
**Sent:** Wednesday, June 15, 2022 11:18:09 AM  
**To:** Aja Verburg <aja@blackwater-eng.com>  
**Subject:** FW: Riverview/SRWA Water Consolidation Meeting Follow-Up

Hi Aja,

Bob from the SRWA emailed me this morning with some new information about the SRWA and Riverview Water Purchase Project option outlined in the Feasibility Study.

"At a recent SRWA Technical Advisory Committee meeting, the topic of the Riverview MHP came up (as a standing agenda item) and a representative of the Turlock Irrigation District raised a point that I had overlooked and that has to do with any SRWA-produced water being used outside of the TID service area (north of the Tuolumne River). Our Water Services Agreement precludes the SRWA from delivering water outside of the TID service area.

So it seems that Riverview is located outside the TID service area which means a Water Service Agreement cannot be executed to Riverview to utilize the SRWA's services unless the SRWA Advisory Committee makes an exception. Bob is going to ask the Committee if they need a resolution or more information from us to include Riverview as a customer.

I wanted to share this with you so that you're aware.

Please review the email chain below for more information and feel free to contact me if you have any questions.

Best,  
Thania

## THANIA BEJARANO

COMMUNITY DEVELOPMENT SPECIALIST

Self-Help Enterprises



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559-651-3634 Fax

thaniab@selfhelpenterprises.org  
[Http://www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)

---

**From:** Robert Granberg <granbergassociates@gmail.com>



**Sent:** Wednesday, June 15, 2022 11:01 AM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** Re: Riverview/SRWA Water Consolidation Meeting Follow-Up

Thania,

You are correct and the resolution would be between SRWA and TID, with your input as well as support from the State Water Board, I believe.

Let me discuss further with TID and get back to you on their official position and what a resolution might be.

Bob

On Wed, Jun 15, 2022 at 10:51 AM Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)> wrote:

Hello Bob,

Thank you for bringing this to my attention. If I am understanding correctly, it seems that Riverview is located outside the TID service area which means a Water Service Agreement cannot be executed to Riverview to utilize this service. Is there a process to appeal to the SRWA Advisory Committee to consider Riverview becoming a customer?

Best,  
Thania

**THANIA BEJARANO**

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<http://www.selfhelpenterprises.org>

---

**From:** Robert Granberg <[granbergassociates@gmail.com](mailto:granbergassociates@gmail.com)>

**Sent:** Wednesday, June 15, 2022 9:41 AM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** Re: Riverview/SRWA Water Consolidation Meeting Follow-Up



Thania,

At a recent SRWA Technical Advisory Committee meeting, the topic of the Riverview MHP came up (as a standing agenda item) and a representative of the Turlock Irrigation District raised a point that I had overlooked and that has to do with any SRWA-produced water being used outside of the TID service area (north of the Tuolumne River). Our Water Services Agreement precludes the SRWA from delivering water outside of the TID service area.

Not sure if this was discussed in the Feasibility Study, but I thought the issue should be raised now, rather than later. Not to say there can't be a solution, but it is an issue that must be addressed if we go further with this supply concept for the MHP.

Bob

On Mon, Mar 14, 2022 at 9:01 AM Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)> wrote:

Good morning Bob,

I will schedule the meeting for March 17<sup>th</sup> from 10am-11am.

I will send the meeting invite, shortly.

Thank you,  
Thania

**THANIA BEJARANO**  
COMMUNITY DEVELOPMENT SPECIALIST  
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[Http://www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)

---

**From:** Robert Granberg <[granbergassociates@gmail.com](mailto:granbergassociates@gmail.com)>

**Sent:** Friday, March 11, 2022 3:43 PM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** Re: Riverview/SRWA Water Consolidation Meeting Follow-Up



Hi Thania,

I am only available on the 17th from 9-11a, or 3-5p.

Bob

On Fri, Mar 11, 2022 at 8:58 AM Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)> wrote:

Good morning Bob,

Please let me know your availability within the following dates, so I can schedule the **SRWA & Riverview MHE Technical Meeting**.

- March 16<sup>th</sup> 9am-11am and 3pm-4pm
- March 17<sup>th</sup> 9am-11am and 1pm-5pm

If possible, please share a list of questions for our consultants to answer during the meeting, if you have any pending questions about the project.

Thank you,  
Thania

**THANIA BEJARANO**  
COMMUNITY DEVELOPMENT SPECIALIST  
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---

**From:** Robert Granberg <[granbergassociates@gmail.com](mailto:granbergassociates@gmail.com)>

**Sent:** Thursday, March 10, 2022 11:54 AM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Subject:** Re: Riverview/SRWA Water Consolidation Meeting Follow-Up

Thania,



Thank you for the information. Nice talking to you today!

Bob

On Thu, Mar 10, 2022 at 11:41 AM Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)> wrote:

Hello Bob,

Thank you for meeting with me to discuss the Riverview Mobile Home Estates Water Consolidation Project. I have attached the following documents to this email.

1. 2021 Feasibility Study (The SRWA consolidation analysis can be found on page 17 and 21-23)
2. Water Usage Data
3. SRWA & RVMHE Presentation
4. Address: 8200 Jantzen Road Modesto CA 95357 ([Riverview Mobile Home Estates Cal Water Watch Data](#))

I will follow-up with meeting time/date options next week.

Thank you,  
Thania

**THANIA BEJARANO**  
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**From:** [Thania Bejarano](#)  
**To:** [Patrick Scott](#); [Aja Verburg](#)  
**Subject:** FW: Riverview MHE - Water-WWC Presentations  
**Date:** Wednesday, August 3, 2022 4:05:35 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image041197.png](#)

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Hello Patrick and Aja,

Below you will find email correspondence between SHE, Regional Board and the City of Waterford confirming that the City of Waterford cannot support Riverview MHE in their water consolidation project.

Let me know if you need more information.

Thank you,  
Thania

**THANIA BEJARANO**

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---

**From:** Michael Pitcock <[mpitcock@cityofwaterford.org](mailto:mpitcock@cityofwaterford.org)>

**Sent:** Wednesday, August 3, 2022 4:01 PM

**To:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Lonnie Statzer <[lstatzer@cityofwaterford.org](mailto:lstatzer@cityofwaterford.org)>; Stephanie Brown <[SBrown@cityofwaterford.org](mailto:SBrown@cityofwaterford.org)>

**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Subject:** RE: Riverview MHE - Water-WWC Presentations

That is correct. We cannot support another water system so far away.

Michael Pitcock, P.E.  
City Manager  
101 E Street  
Waterford, Ca 95386  
(209)874-2328 Ext 103





---

**From:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>

**Sent:** Wednesday, August 3, 2022 3:36 PM

**To:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>; Lonnie Statzer <[lstatzer@cityofwaterford.org](mailto:lstatzer@cityofwaterford.org)>; Michael Pitcock <[mpitcock@cityofwaterford.org](mailto:mpitcock@cityofwaterford.org)>; Stephanie Brown <[SBrown@cityofwaterford.org](mailto:SBrown@cityofwaterford.org)>

**Cc:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Subject:** RE: Riverview MHE - Water-WWC Presentations

Good afternoon everyone,

It has been some time since we last spoke about the Riverview Mobile Home Estates Water & Sewer Consolidation project.

Back in April, a virtual meeting was held to discuss the city's potential involvement with the Riverview water and sewer consolidation project. After the meeting, the City of Waterford team was given some time to discuss internally and provide a final response to Self-Help Enterprises and the Regional Board. Based on my notes, there were several concerns about the project like the distance between Waterford and Riverview MHE (3.7 miles), sewer rates (\$51.36) and sewer and water flow size. I believe we concluded the City of Waterford is not interested in this project but I wanted to confirm with you. Please let me know if any new information has come to light that has changed the outcome of our last meeting.

I have attached the PowerPoint Presentation to this email for your review.

Please contact me if you need any additional information or have any questions.

Best,  
Thania

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---

**From:** Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Sent:** Wednesday, April 13, 2022 2:23 PM

**To:** [lstatzer@cityofwaterford.org](mailto:lstatzer@cityofwaterford.org); [mpitcock@cityofwaterford.org](mailto:mpitcock@cityofwaterford.org); [SBrown@cityofwaterford.org](mailto:SBrown@cityofwaterford.org)

**Cc:** Thania Bejarano <[thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)>; Jimmerson, Dania@Waterboards <[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)>

**Subject:** Riverview MHE - Water-WWC Presentations

Lonnie,

Thank you for meeting with us today. Attached are our presentations. We look forward to hearing you

Sincerely,

Dania

**Dania Jimmerson, M.S., P.E.**

WRCE, Wastewater Consolidation Program

Central Valley Regional Water Quality Control Board

11020 Sun Center Drive Suite 200

Rancho Cordova, CA 95670-6114

[Dania.Jimmerson@waterboards.ca.gov](mailto:Dania.Jimmerson@waterboards.ca.gov)



## **Appendix D**

### **July 2021 Water and Billing Data**



**Billing - High/Low Report****Riverview Mobile Estates**

#	Utility	Site	Resident Name	Site Status	Last Read	This Read	Read Diff	Bill Amount	Billing Units	Meter Units
1	Water	118	Lawrence Pena	Resident Occupied	91947	95412	3465	\$23.94	Gallons	CF
2	Water	45	Robert O Kelley	Resident Occupied	121808	124802	2994	\$21.48	Gallons	CF
3	Water	17	Jesus David Abarca-Radilla	Resident Occupied	98996	101717	2721	\$20.05	Gallons	CF
4	Water	192	Juan Miguel Arreola	Resident Occupied	99308	102011	2703	\$19.95	Gallons	CF
5	Water	161	Alonzo R. Johnston, Sabria E. Jimenez	Resident Occupied	56340	58886	2546	\$19.13	Gallons	CF
6	Water	48	Henry, Ermalinda Rodriquez	Resident Occupied	39133	41486	2353	\$18.12	Gallons	CF
7	Water	31	James Grider	Resident Occupied	34999	37253	2254	\$17.60	Gallons	CF
8	Water	4	Karina Dominguez	Resident Occupied	88094	90251	2157	\$17.09	Gallons	CF
9	Water	29	Walter Tyler	Resident Occupied	11233	13351	2118	\$16.89	Gallons	CF
10	Water	39	Gybran Valdivia	Resident Occupied	135395	137396	2001	\$16.28	Gallons	CF
11	Water	183	Robert and Susan, Labit	Resident Occupied	42972	44914	1942	\$15.97	Gallons	CF
12	Water	169	Lilia ana Solorzano	Resident Occupied	8442	10374	1932	\$15.92	Gallons	CF
13	Water	222	David W. Walker	Resident Occupied	38668	40579	1911	\$15.81	Gallons	CF
14	Water	175	Antonio Olvera	Resident Occupied	81450	83248	1798	\$15.21	Gallons	CF
15	Water	227	Jose Canela	Resident Occupied	60053	61850	1797	\$15.21	Gallons	CF
16	Water	181	Cindy Rivas, Marisol Rivas	Resident Occupied	126015	127800	1785	\$15.15	Gallons	CF
17	Water	120	Shannon Amos Jared, Joan Parker	Resident Occupied	26022	27786	1764	\$15.04	Gallons	CF
18	Water	19	Florentino Martinez	Resident Occupied	159699	161366	1667	\$14.53	Gallons	CF
19	Water	130	Vianey Ortiz Marcos Garcia	Resident Occupied	61715	63360	1645	\$14.41	Gallons	CF
20	Water	226	Carrie Grimes	Resident Occupied	40052	41697	1645	\$14.41	Gallons	CF
21	Water	198	Laureano Madrigal	Resident Occupied	24461	26103	1642	\$14.40	Gallons	CF
22	Water	117	Jose Vasquez	Resident Occupied	115318	116951	1633	\$14.35	Gallons	CF
23	Water	3	Fernando Alcantara	Resident Occupied	102667	104219	1552	\$13.93	Gallons	CF
24	Water	166	Efrain Rosales Rodrigues	Resident Occupied	98609	100140	1531	\$13.82	Gallons	CF
25	Water	46	Javier Maldonado	Resident Occupied	59233	60613	1380	\$13.03	Gallons	CF
26	Water	190	Pantaleon Real	Resident Occupied	133598	134973	1375	\$13.00	Gallons	CF
27	Water	12	Zoilo Angeles	Resident Occupied	68105	69477	1372	\$12.98	Gallons	CF
28	Water	147	Oscar Espinoza	Resident Occupied	58061	59429	1368	\$12.96	Gallons	CF
29	Water	223	Renee Warnock	Resident Occupied	99241	100609	1368	\$12.96	Gallons	CF
30	Water	221	Jorge Chavez, Rosa Soltero	Resident Occupied	47321	48586	1265	\$12.42	Gallons	CF
31	Water	105	Susan Molloy	Resident Occupied	43084	44301	1217	\$12.17	Gallons	CF
32	Water	179	Ramiro Sandoval	Resident Occupied	114831	116041	1210	\$12.14	Gallons	CF
33	Water	172	Oscar, Agueda Chavez	Community Owned - R	63769	64967	1198	\$12.07	Gallons	CF
34	Water	21	Martin G., Elmira Solis	Resident Occupied	50575	51756	1181	\$11.98	Gallons	CF
35	Water	40	Abel Lugo, Ana Larios	Resident Occupied	26792	27951	1159	\$11.87	Gallons	CF
36	Water	159	Maria J. Monroy Jose G. Miranda	Resident Occupied	45129	46266	1137	\$11.75	Gallons	CF
37	Water	42	Savone Saruen, Rommel Munoz	Resident Occupied	31393	32522	1129	\$11.71	Gallons	CF
38	Water	168	Rosendo and Marisol Vargas	Resident Occupied	82993	84122	1129	\$11.71	Gallons	CF



#	Utility	Site	Resident Name	Site Status	Last Read	This Read	Read Diff	Bill Amount	Billing Units	Meter Units
39	Water	102	Efren Martinez Rodriguez	Resident Occupied	73602	74713	1111	\$11.62	Gallons	CF
40	Water	9	Rico Juan Manuel and Marisol	Resident Occupied	50865	51973	1108	\$11.60	Gallons	CF
41	Water	146	Van Tham Vu	Resident Occupied	52275	53337	1062	\$11.36	Gallons	CF
42	Water	189	Darren Harris	Resident Occupied	31712	32768	1056	\$11.33	Gallons	CF
43	Water	203	Doyle David Jr. Snow	Resident Occupied	48415	49466	1051	\$11.30	Gallons	CF
44	Water	217	Amparo Sandoval	Resident Occupied	129901	130921	1020	\$11.14	Gallons	CF
45	Water	111	Norma E. Melendez	Resident Occupied	26800	27816	1016	\$11.12	Gallons	CF
46	Water	232	Jose Tagle	Resident Occupied	75170	76181	1011	\$11.09	Gallons	CF
47	Water	236	Joseph and Vincent Porter	Resident Occupied	51923	52932	1009	\$11.08	Gallons	CF
48	Water	36	Raymond Perea	Resident Occupied	86649	87612	963	\$10.84	Gallons	CF
49	Water	149	Ana Zavalza	Resident Occupied	71883	72844	961	\$10.83	Gallons	CF
50	Water	49	Ernest and Deborah Henderson	Resident Occupied	31542	32499	957	\$10.81	Gallons	CF
51	Water	182	Reyes Valerio Bautista	Resident Occupied	22249	23200	951	\$10.78	Gallons	CF
52	Water	219	Jose L. Venegas Melissa Creps	Resident Occupied	43191	44138	947	\$10.76	Gallons	CF
53	Water	156	Elida Retana	Resident Occupied	31336	32271	935	\$10.70	Gallons	CF
54	Water	108	Alan Yates	Resident Occupied	89527	90445	918	\$10.61	Gallons	CF
55	Water	104	Raul Larios	Resident Occupied	110408	111325	917	\$10.60	Gallons	CF
56	Water	176	Ralph and Patricia Arbizu	Resident Occupied	44733	45643	910	\$10.56	Gallons	CF
57	Water	218	Victor Mezquita	Resident Occupied	64731	65633	902	\$10.52	Gallons	CF
58	Water	116	Rosaura Vallejo	Resident Occupied	50874	51761	887	\$10.44	Gallons	CF
59	Water	112	Felicia Martinez	Resident Occupied	42501	43355	854	\$10.27	Gallons	CF
60	Water	25	Martin Moreno, Estela Moreno	Resident Occupied	1614	2432	818	\$10.08	Gallons	CF
61	Water	230	Janet Dominguez	Resident Occupied	71135	71950	815	\$10.07	Gallons	CF
62	Water	194	Jack Kessler	Resident Occupied	217454	218268	814	\$10.06	Gallons	CF
63	Water	20	Bertha Hernandez	Resident Occupied	31251	32049	798	\$9.98	Gallons	CF
64	Water	126	Valerie Cook	Resident Occupied	37808	38604	796	\$9.97	Gallons	CF
65	Water	191	Pedro Munoz	Resident Occupied	191114	191896	782	\$9.89	Gallons	CF
66	Water	234	Barbara Bowers	Resident Occupied	102388	103170	782	\$9.89	Gallons	CF
67	Water	47	Juan Lopez, Guadalupe Garcia-Lopez	Resident Occupied	24336	25103	767	\$9.82	Gallons	CF
68	Water	155	Albert and Carol Meere	Resident Occupied	49119	49884	765	\$9.81	Gallons	CF
69	Water	128	Jose M, Concepcion D. Aguinaga	Resident Occupied	30019	30778	759	\$9.77	Gallons	CF
70	Water	33	Jodie M./Charlotte A. Ferguson/ Gail	Resident Occupied	55261	56009	748	\$9.72	Gallons	CF
71	Water	171	Arturo Marquez	Resident Occupied	75974	76720	746	\$9.71	Gallons	CF
72	Water	220	Tomas Illescas	Resident Occupied	37316	38052	736	\$9.65	Gallons	CF
73	Water	239	Coleen McDonough	Resident Occupied	32265	32986	721	\$9.58	Gallons	CF
74	Water	127	Concepcion Soriano, Christine Mahiy	Resident Occupied	30530	31249	719	\$9.56	Gallons	CF
75	Water	188	Larry Allen Beals	Resident Occupied	35380	36091	711	\$9.52	Gallons	CF
76	Water	110	Francisco, Margarita, David Luna	Resident Occupied	34870	35577	707	\$9.50	Gallons	CF
77	Water	202	Oscar O. Martinez, Ciara M. Carder	Resident Occupied	32891	33577	686	\$9.39	Gallons	CF
78	Water	106	Frank, Leona Oliveira	Resident Occupied	55629	56310	681	\$9.37	Gallons	CF



#	Utility	Site	Resident Name	Site Status	Last Read	This Read	Read Diff	Bill Amount	Billing Units	Meter Units
79	Water	240	Caree and Anthony Rochelle, Helen F	Resident Occupied	58526	59196	670	\$9.31	Gallons	CF
80	Water	228	Charlotte Ann Geil	Resident Occupied	42194	42860	666	\$9.29	Gallons	CF
81	Water	151	Gumercendo Garcia	Resident Occupied	38168	38832	664	\$9.28	Gallons	CF
82	Water	13	Juan Lopez, Jonataly Martinez	Resident Occupied	38703	39360	657	\$9.24	Gallons	CF
83	Water	50	Mervin and Gloria, Gray	Resident Occupied	15301	15946	645	\$9.18	Gallons	CF
84	Water	154	Ricardo Rodriguez	Resident Occupied	35308	35952	644	\$9.17	Gallons	CF
85	Water	180	Stacie L. Fjellstrom	Resident Occupied	78852	79494	642	\$9.16	Gallons	CF
86	Water	187	Theresa Griffen Smith	Resident Occupied	40161	40785	624	\$9.07	Gallons	CF
87	Water	103	Jose Arevalo, Elisa Gonzalez	Resident Occupied	24811	25427	616	\$9.03	Gallons	CF
88	Water	157	Marianne Pietrzyk, Brooke Pietrzyk	Resident Occupied	40797	41385	588	\$8.88	Gallons	CF
89	Water	30	Rebecca Sullivan	Resident Occupied	9839	10422	583	\$8.85	Gallons	CF
90	Water	44	Douglas, Amanda Gilbert	Resident Occupied	15613	16180	567	\$8.77	Gallons	CF
91	Water	119	Jose Jimenez, Maria De Jesus Rivas	Resident Occupied	63358	63913	555	\$8.71	Gallons	CF
92	Water	26	Cesar, Oralia Gomez	Resident Occupied	47750	48299	549	\$8.67	Gallons	CF
93	Water	38	Robert J. Roach	Resident Occupied	21872	22414	542	\$8.64	Gallons	CF
94	Water	34	Braden Neal Rambo	Resident Occupied	13324	13863	539	\$8.62	Gallons	CF
95	Water	113	Rogelio Fuentes, Alberto T. Reynaga	Resident Occupied	21888	22408	520	\$8.52	Gallons	CF
96	Water	173	Jean Mesa	Resident Occupied	34496	35009	513	\$8.49	Gallons	CF
97	Water	186	Chris and Amber Jepsen	Resident Occupied	110579	111083	504	\$8.44	Gallons	CF
98	Water	143	Megan A. Vance	Resident Occupied	8811	9305	494	\$8.39	Gallons	CF
99	Water	185	Alan Lucas	Resident Occupied	56410	56895	485	\$8.34	Gallons	CF
100	Water	152	Gabriel, Licet Pelayo	Resident Occupied	1978	2457	479	\$8.31	Gallons	CF
101	Water	225	Olen Wise	Resident Occupied	53361	53836	475	\$8.29	Gallons	CF
102	Water	195	Robert Castillo	Resident Occupied	32596	33068	472	\$8.27	Gallons	CF
103	Water	170	Romello D. Parker	Resident Occupied	44938	45405	467	\$8.25	Gallons	CF
104	Water	150	Ana E. Lizarraga	Resident Occupied	42720	43176	456	\$8.19	Gallons	CF
105	Water	23	Michelle Quintong	Resident Occupied	101441	101893	452	\$8.17	Gallons	CF
106	Water	199	Daryl D. Rebero	Resident Occupied	22823	23275	452	\$8.17	Gallons	CF
107	Water	167	Jose Pastrana	Resident Occupied	69385	69836	451	\$8.16	Gallons	CF
108	Water	11	Jesus Oregel-Montanez	Resident Occupied	21824	22274	450	\$8.16	Gallons	CF
109	Water	196	Abel Silva Jr., Aidee J. Silva	Resident Occupied	43574	44022	448	\$8.15	Gallons	CF
110	Water	158	Ismael Iniguez	Resident Occupied	3889	4326	437	\$8.09	Gallons	CF
111	Water	229	Martin Mendoza	Resident Occupied	44442	44865	423	\$8.01	Gallons	CF
112	Water	123	Hector L.,Celeste L. Gutierrez Rodrig	Resident Occupied	28813	29231	418	\$7.99	Gallons	CF
113	Water	107	Andre, Sonya and Andre Jr., Morton	Resident Occupied	13512	13927	415	\$7.97	Gallons	CF
114	Water	200B	Alyccia Vigil	Resident Occupied	42902	43315	413	\$7.96	Gallons	CF
115	Water	35	Jimmie Frazel	Resident Occupied	88590	89001	411	\$7.95	Gallons	CF
116	Water	160	Emily M. Cummins	Resident Occupied	37150	37557	407	\$7.93	Gallons	CF
117	Water	197	Sandra Pierson, Bruce Boyd	Resident Occupied	9610	10009	399	\$7.89	Gallons	CF
118	Water	98	Jarel and Joan Parker	Resident Occupied	13786	14169	383	\$7.81	Gallons	CF



#	Utility	Site	Resident Name	Site Status	Last Read	This Read	Read Diff	Bill Amount	Billing Units	Meter Units
119	Water	148	Jaime and Margarita Rodriguez	Resident Occupied	20094	20475	381	\$7.79	Gallons	CF
120	Water	174	Enrique A. Olvera	Resident Occupied	75214	75579	365	\$7.71	Gallons	CF
121	Water	224	Twila I Chaffee	Resident Occupied	30703	31067	364	\$7.71	Gallons	CF
122	Water	51	Arlene Harnden	Resident Occupied	19457	19818	361	\$7.69	Gallons	CF
123	Water	200A	Luisa A. Cortez, Guadalupe J. Garzor	Resident Occupied	22118	22477	359	\$7.68	Gallons	CF
124	Water	32	Lydia Evans	Resident Occupied	9258	9607	349	\$7.63	Gallons	CF
125	Water	94	Michael G., Charlotte A. Lyman	Resident Occupied	23230	23571	341	\$7.59	Gallons	CF
126	Water	6	Monica L. Booker	Resident Occupied	14964	15302	338	\$7.57	Gallons	CF
127	Water	177	Kimberly Quillen	Resident Occupied	10037	10351	314	\$7.44	Gallons	CF
128	Water	95	James S. Umstetter, Dawn E. Umstet	Resident Occupied	21002	21313	311	\$7.43	Gallons	CF
129	Water	28	Lea Anne Lamarre Smith	Resident Occupied	17568	17866	298	\$7.36	Gallons	CF
130	Water	37	Karen Kent	Resident Occupied	53155	53444	289	\$7.31	Gallons	CF
131	Water	237	Leslie/Frances Vaughn/Eckoldt	Resident Occupied	34698	34986	288	\$7.31	Gallons	CF
132	Water	178	Doris N. Thompson	Resident Occupied	31160	31428	268	\$7.20	Gallons	CF
133	Water	99	Bonnie Haarstad	Resident Occupied	29465	29722	257	\$7.15	Gallons	CF
134	Water	145	Robert Rodriguez	Resident Occupied	36301	36554	253	\$7.12	Gallons	CF
135	Water	235	Medina Holguin Abel	Resident Occupied	23612	23863	251	\$7.11	Gallons	CF
136	Water	10	Karen Olsen	Resident Occupied	56541	56780	239	\$7.05	Gallons	CF
137	Water	27	Matthew J. Koval	Resident Occupied	19258	19488	230	\$7.00	Gallons	CF
138	Water	121	Sharisse L. Atkins	Resident Occupied	21867	22088	221	\$6.96	Gallons	CF
139	Water	125	Donna Peterson	Resident Occupied	8952	9163	211	\$6.90	Gallons	CF
140	Water	16	Magali E. Eligio, Jesse Alejandre	Resident Occupied	17507	17711	204	\$6.87	Gallons	CF
141	Water	5	Eloy Valenzuela	Resident Occupied	7314	7515	201	\$6.85	Gallons	CF
142	Water	15	Patricia Stephens	Resident Occupied	8955	9153	198	\$6.84	Gallons	CF
143	Water	7	Aron/Carrie Hunstable/Grimes	Resident Occupied	17756	17944	188	\$6.78	Gallons	CF
144	Water	201	Steven Nall	Resident Occupied	34388	34568	180	\$6.74	Gallons	CF
145	Water	204	John Adams	Resident Occupied	19389	19560	171	\$6.70	Gallons	CF
146	Water	193	Gayla Sandoval	Resident Occupied	28907	29077	170	\$6.69	Gallons	CF
147	Water	144	Jasmine M. Ledesma Huerta	Resident Occupied	8519	8685	166	\$6.67	Gallons	CF
148	Water	231	Susan Williams	Resident Occupied	15104	15259	155	\$6.61	Gallons	CF
149	Water	153	Carmelo Ramirez	Resident Occupied	12886	13037	151	\$6.59	Gallons	CF
150	Water	233	Connie L. Rotering	Resident Occupied	9648	9782	134	\$6.50	Gallons	CF
151	Water	97	Eunice Stevenson, Denis A. Stevens	Resident Occupied	14497	14598	101	\$6.33	Gallons	CF
152	Water	164	Nathan Conley	Resident Occupied	56717	56812	95	\$6.30	Gallons	CF
153	Water	165	Michael, Mary Eaton	Resident Occupied	42651	42744	93	\$6.29	Gallons	CF
154	Water	115	Eduardo Cabrera	Resident Occupied	6760	6834	74	\$6.19	Gallons	CF
155	Water	238	John Boehm	Resident Occupied	10327	10397	70	\$6.17	Gallons	CF
156	Water	184	David Harrah	Resident Occupied	78986	79018	32	\$5.97	Gallons	CF
157	Water	41	Joyce Wilson	Resident Occupied	15105	15107	2	\$5.81	Gallons	CF
158	Water	18	Juan Mendoza	Resident Occupied	19492	19492	0	\$5.80	Gallons	CF



#	Utility	Site	Resident Name	Site Status	Last Read	This Read	Read Diff	Bill Amount	Billing Units	Meter Units
159	Water	43	Frances A./Steve A. Hassapakis	Resident Occupied	6334	6334	0	\$5.80	Gallons	CF
160	Water	96	Susan Nava	Resident Occupied	20354	20354	0	\$5.80	Gallons	CF
161	Water	162	David Guadalupe Partida	Resident Occupied	839	839	0	\$5.80	Gallons	CF
162	Water	114	Juan M. Ramos	Resident Occupied	39276	40351	1075	\$6.55	Gallons	Gallons
163	Water	101	Sue Kane	Resident Occupied	87026	87694	668	\$6.27	Gallons	Gallons
164	Water	129	Jose Martinez	Resident Occupied	56979	57578	599	\$6.22	Gallons	Gallons
165	Water	8	Maria Luisa Vaca, Erik Vaca	Resident Occupied	31418	31832	414	\$6.09	Gallons	Gallons
166	Water	109	Nancy Petersen, Jeniffer A. Perry	Resident Occupied	68682	69095	413	\$6.09	Gallons	Gallons
167	Water	124	Amanda Parker Amy Martin	Resident Occupied	11141	11549	408	\$6.09	Gallons	Gallons
168	Water	22	Eric Richardson, Jeanette Vierra	Resident Occupied	16648	17027	379	\$6.07	Gallons	Gallons
169	Water	24	Rashida Turner	Resident Occupied	16762	17082	320	\$6.02	Gallons	Gallons
170	Water	122	Cristian and Mariana, Rivas	Resident Occupied	34883	35202	319	\$6.02	Gallons	Gallons

**TOTAL BILL AMOUNT FOR JULY 2021:** \$1,676.14

**TOTAL MONTHLY WATER USAGE (RESIDENTIAL):** 985,889 Gallons

**TOTAL MONTHLY WATER USAGE (COMMON AREA):** 854,709 Gallons

**AVERAGE MONTHLY WATER USAGE PER CUSTOMER:** 5,799 Gallons



## **Appendix E**

### **Self-Help Enterprises RMHE Survey and DFA Approval**



# Median Household Income Survey

# RIVERVIEW MOBILE ESTATES

March 2020 - July 2020

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Presented by Self-Help Enterprises

Funded by the State Water Resource Control Board

Stanislaus County Department

ID Number: 349053058053

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*A Nonprofit Housing and Community Development Organization*



# **Income Survey Final Report**

Prepared by Self-Help Enterprises for Riverview Mobile Estates

## **- Introduction -**

Riverview Mobile Estates (RV), is located near Jantzen Road and Geer Road in Stanislaus County northeast of Hughson. This community water system (CWS) currently provides water service to 169 dwellings. The information from this survey will assist the water system in obtaining funding from various federal or state funding programs. The funding will be used to conduct a feasibility study and cover the design of water system improvements to address the water system's uranium contamination. The potential improvements consist of rehabilitation of existing sources, and/or consolidation with surrounding large water systems.

## **- Purpose -**

Riverview Mobile Estates is located within Block Group 3, Census Tract 28.02 in Stanislaus County. The District accounts for a very small portion of the Block Group. According to the 2014-2018 American Community Survey (ACS) 5-Year Estimate, Block Group 3, Census Tract 28.02, has a Median Household Income (MHI) of \$58,452 with a margin of error of  $\pm \$24,564$ . Upon inspection of the District's boundaries, it was suspected that the reported MHI of this District was uncharacteristic of the Block Group's actual MHI. To more accurately determine the District's MHI, a Median Household Income Survey was deemed necessary.

## **- Methodology -**

The survey was conducted from March 1, 2020 to July 20, 2020. Self-Help Enterprises (SHE) conducted the survey in accordance with the June 2014 State and Federal multi-agency guidelines established for the California Department of Public Health, State Water Resources Control Board, and US Department of Agriculture. SHE mailed surveys and conducted over-the-phone survey submissions. Per agency survey requirements, a letter was distributed to the residents of the community from the Stanislaus County Public Works Department on March 23, 2020. This correspondence was followed by the first survey letters and forms from SHE on April 1st, 2020. On April 15, 2020 a second mailing of the survey letters and forms



were sent to the residents that had not completed their surveys. Due to Governor Gavin Newsom stay-at-home executive order, door-to-door outreach was not carried out to protect the health and well-being of Riverview residents and SHE staff. Phone calls were conducted between June 2020 - July 10, 2020 (over 120 residents). Every resident was contacted at least twice in a span of two months. By the conclusion of the survey four residents opted out of the survey. The survey was concluded on July 20, 2020 after reaching out to residents twice by mailers and twice by phone, and providing sufficient time to respond. The guidelines require a minimum response rate of 69% for a community of this size. Once concluded, the survey data was collected and analyzed in the attached Tally of Survey Results (Exhibit E).

## **- Results -**

The following count of community's households has been developed based on information provided by the Riverview Mobile Estates Owners and Property Owners County Public Works Department and SHE's acquired knowledge of residential dwellings in the District:

Occupied Dwellings	169
Vacation Homes	0
Vacant Homes	0
Total Dwellings	169
Average Occupants per Household	3

Riverview Mobile Estates has 169 occupied dwellings, and require 117 responses to meet the minimum 69% response rate. After two rounds of survey mailers and two rounds of phone surveys, 106 responses were received. The State Water Resources Control Board approved defaulting eleven surveys to the highest income value of \$150,000 (Exhibit E). Based on survey results, the annual Median Household Income for the community of Riverview Mobile Estates is **\$35,000**.



# Table of Contents

Per MHI Guidelines, the following exhibits have been included:

<b>Exhibit A –</b> Riverview Mobile Estates – Boundary Map	<b>Page 4</b>
<b>Exhibit B –</b> County letter to Riverview Mobile Estates residents regarding necessity of survey	<b>Page 5</b>
<b>Exhibit C –</b> Letters from Self-Help Enterprises for two rounds of mailings.	<b>Page 6</b>
<b>Exhibit D –</b> Survey Form	<b>Page 7-8</b>
<b>Exhibit E –</b> MHI Survey Results Data Table	<b>Page 9-12</b>
<b>Exhibit F –</b> Address List and Response Information	<b>Page 13-16</b>



# Exhibit A

## Riverview Mobile Estates - Boundary Map





# Exhibit B

## County letter to Riverview Mobile Estates residents regarding necessity of survey

April 1, 2020

Dear Customer,

Riverview Mobile Estates has plans to apply to federal or state funding programs for water system improvements and upgrades. These improvements will help the system operate reliably, and address uranium exceeded MCL levels in the water system. Riverview Mobile Estates has been actively investigating resolutions such as treatment options and consolidation opportunities to improve the water system.

In order to fund this project, Riverview Mobile Estates will be applying for funding from State and Federal sources. To apply for funds for this project and future projects, it is necessary to have a more accurate estimate of the community's income. We hope to optimize future funding opportunities by having a more accurate figure for the community

**As part of the application process Riverview Mobile Estates will have an impartial third party contractor perform a focused household income survey of their customers.** This income survey will be used by funding agencies to determine Riverview Mobile Estates eligibility for low interest loans and grants.

Self-Help Enterprises (SHE) will perform this survey. An income survey will be mailed to you in the next few days. Please complete the survey and return it to SHE in the postage-paid envelope that will be included. Income surveys require a high percentage of residents to respond for the survey to be considered valid under current guidelines. It is therefore critical that you provide the information requested on the survey form. Your responses to this survey are strictly confidential. **No personal identifying information will be reported in the survey results.**

You can help your community and water system obtain the best possible funding from federal and state funding agencies, so that needed improvements can be made. Thank you for your assistance. For more information, please feel free to contact:

Thania Bejarano, Community Development Specialist, Self-Help Enterprises,  
8445 W. Elowin Court, Visalia, CA 93290, Phone # (559) 802-1781,  
Email: [thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)

Rachel Reiss, Senior Environmental Health Specialist, Department of Environmental Resources, Stanislaus County, 3800 Cornucopia Way Suite C Modesto CA 95358,  
Phone # (209) 525-6774, Email: [rariess@envres.org](mailto:rariess@envres.org)

Thank you for your help,



Christy Bax  
Property Manager of Riverview Estates



# Exhibit C

## County letter to Riverview Mobile Estates residents regarding necessity of survey



*A Nonprofit Housing and Community Development Organization*

April 1, 2020

### ATTENTION: RESIDENTS OF RIVERVIEW MOBILE ESTATES

The County of Stanislaus has authorized Self-Help Enterprises to conduct a confidential income survey of the residents in Riverview Mobile Estates. Attached is the survey form that will be utilized to obtain the needed information. Please complete the survey to the best of your ability.

The information on this survey is necessary to help the water system obtain funding from various federal or state funding programs. The funding will be used to conduct a feasibility study to determine treatment options or consolidation opportunities. This survey is being conducted to establish an accurate Median Household Income (MHI) of the water service area.

**This information will not be made public. It is important that the information you provide is an accurate representation of the questions asked. Please take the time to complete the survey now.** Enclosed is a self-addressed postage-paid envelope for you to return the completed survey form. Please return the completed survey form to the following address (2425 W Cleveland Suite 103 Madera CA 93637). If you request it, assistance can be arranged to help you fill it out. **If a response is not received within 15 days, you will receive an additional notice with a second copy of the form for your response.** A high response rate is needed for the water system to be considered for optimal funding alternatives. No personal identifying information will be kept with the questioners.

Once the completed surveys have been received, Self-Help Enterprises will analyze the responses, determine the MHI for your community, and report the results to the funding agencies that disburse the loans and grants. **Responses to this survey form are confidential.**

If you would like more information about the survey and how the information will be utilized to assist the residents of Riverview Mobile Estates, please feel free to contact:

Thania Bejarano, Community Development Specialist, Self-Help Enterprises  
Phone # (559) 802-1781, Email: [thaniab@selfhelpenterprises.org](mailto:thaniab@selfhelpenterprises.org)



8445 W. Bowin Court • P.O. Box 6520 • Visalia, CA 93290

Phone (559) 651-1000 • Fax (559) 651-3634 • [info@selfhelpenterprises.org](mailto:info@selfhelpenterprises.org) • [www.selfhelpenterprises.org](http://www.selfhelpenterprises.org)



# Exhibit D

## Survey Form

### RIVERVIEW MOBILE ESTATES

#### Median Household Income (MHI) Survey for Special Funding Eligibility Verifiable Income from 2019 Federal Income Tax Filing

Residential Address \_\_\_\_\_ Survey Number \_\_\_\_\_

1. Was this survey sent to a commercial business?

- Yes ☐ Stop and return this form in the envelope provided.  
No ☐ Complete the survey.

2. Did you live at this residence within the water or sewer district boundary more than six months of the year?

- Yes ☐ Please complete Questions 3 to 6 and return this form in the envelope provided.  
No ☐ This is a vacation home (stop and return this form in the envelope provided).  
No ☐ This is a vacant home (stop and return this form in the envelope provided).  
No ☐ This home is currently rented, and I am the owner (please complete the information on the back of this form and return in the envelope provided).

3. How many people reside at this household, including children and adults? \_\_\_\_\_

4. Provide the total household annual gross earnings in 2019 from:  
Wages, salary, commissions, & bonuses from all jobs of residents 15 or older \$ \_\_\_\_\_

5. Provide the total household net annual earnings in 2019 from:  
Farm or non-farm business, professional practice, or partnership income. \$ \_\_\_\_\_

6. Provide any other household annual earnings in 2019 from:  
Social Security or supplemental security income, public assistance,  
retirement plans, veteran's payments, child support, alimony,  
unemployment benefits, interest income, survivor or disability pensions,  
or any other source of income received regularly. \$ \_\_\_\_\_

TOTAL INCOME 2019 \$ \_\_\_\_\_

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Property Address

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



2a. (Continued from front page) If property is a rental, please complete the information below:

**Property Rental Information**

Renter's Name:	<hr/>
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Mailing Address:	<hr/>
	<hr/>
	<hr/>

Service Address:	<hr/>
	<hr/>
	<hr/>

Please return this survey in the enclosed postage-paid envelope.



# Exhibit E

## Riverview Mobile Estates Resident Median Household Income

### Survey Results – March 2020 –July 2020

Count	Survey Number	Number of People in Residence	Annual Gross Income Reported	Outreach Method
1	RV102	2	\$0.00	PHONE
2	RV112	2	\$0.00	MAIL
3	RV59	3	\$1,214.00	MAIL
4	RV47	1	\$2,199.00	MAIL
5	RV7	1	\$7,800.00	MAIL
6	RV113	2	\$10,560.00	MAIL
7	RV86	1	\$10,800.00	PHONE
8	RV33	1	\$11,220.00	MAIL
9	RV110	1	\$11,400.00	PHONE
10	RV105	6	\$12,000.00	MAIL
11	RV127	4	\$12,000.00	PHONE
12	RV50	1	\$13,896.00	MAIL
13	RV133	1	\$14,200.00	MAIL
14	RV87	4	\$14,400.00	PHONE
15	RV27	1	\$14,988.00	MAIL
16	RV4138	2	\$16,250.00	MAIL
17	RV156	1	\$16,577.43	MAIL
18	RV35	2	\$16,800.00	PHONE
19	RV3	1	\$17,000.00	MAIL
20	RV118	4	\$17,880.00	MAIL
21	RV40	3	\$18,000.00	PHONE
22	RV12	2	\$18,150.00	MAIL
23	RV82	1	\$19,000.00	PHONE
24	RV84	5	\$19,200.00	PHONE



25	RV52	2	\$21,000.00	MAIL
26	RV13	3	\$21,600.00	MAIL
27	RV137	2	\$21,836.00	MAIL
28	RV142	3	\$22,000.00	PHONE
29	RV104	5	\$24,000.00	MAIL
30	RV160	1	\$24,000.00	PHONE
31	RV155	2	\$24,352.11	MAIL
32	RV18	2	\$25,410.38	MAIL
33	RV117	2	\$25,410.38	PHONE
34	RV157	5	\$25,700.00	MAIL
35	RV123	3	\$26,000.00	PHONE
36	RV89	3	\$27,515.00	MAIL
37	RV11	3	\$28,000.00	MAIL
38	RV76	2	\$28,000.00	MAIL
39	RV162	2	\$28,800.00	MAIL
40	RV122	4	\$29,400.00	MAIL
41	RV1	2	\$29,540.00	PHONE
42	RV81	4	\$29,853.00	MAIL
43	RV158	1	\$29,906.00	MAIL
44	RV29	2	\$29,956.00	MAIL
45	RV71	2	\$30,000.00	PHONE
46	RV99	6	\$30,000.00	MAIL
47	RV136	4	\$30,000.00	PHONE
48	RV141	1	\$30,000.00	MAIL
49	RV30	2	\$31,000.00	MAIL
50	RV83	2	\$31,800.00	MAIL
51	RV73	4	\$32,000.00	PHONE
52	RV85	6	\$32,600.00	MAIL
53	RV20	1	\$33,000.00	MAIL
54	RV63	7	\$33,000.00	MAIL
55	RV4	1	\$34,428.00	MAIL
56	RV149	1	\$34,600.00	MAIL



57	RV160-1	4	\$34,695.00	MAIL
58	RV38	5	\$35,000.00	PHONE
59	RV111	8	\$35,000.00	PHONE
60	RV36	2	\$38,000.00	PHONE
61	RV53	5	\$38,000.00	PHONE
62	RV151	6	\$38,000.00	PHONE
63	RV116-1	3	\$38,322.00	PHONE
64	RV19	2	\$39,000.00	MAIL
65	RV74	1	\$39,000.00	MAIL
66	RV150	3	\$40,122.00	MAIL
67	RV146	3	\$43,000.00	MAIL
68	RV54	2	\$43,940.00	MAIL
69	RV23	2	\$44,250.00	MAIL
70	RV145	4	\$45,000.00	PHONE
71	RV60	2	\$46,000.00	MAIL
72	RV14	2	\$46,092.00	MAIL
73	RV276	1	\$47,000.00	MAIL
74	RV140	2	\$48,000.00	MAIL
75	RV64	1	\$49,000.00	MAIL
76	RV132	3	\$49,000.00	PHONE
77	RV51	6	\$50,000.00	MAIL
78	RV91	5	\$50,000.00	MAIL
79	RV159	4	\$50,000.00	PHONE
80	RV16	2	\$50,196.00	MAIL
81	RV125	2	\$50,580.00	MAIL
82	RV42	2	\$51,744.00	MAIL
83	RV6	3	\$52,000.00	MAIL
84	RV32	5	\$54,119.00	MAIL
85	RV108	7	\$55,000.00	MAIL
86	RV37	3	\$59,000.00	MAIL
87	RV95	2	\$60,000.00	MAIL
88	RV116	1	\$60,000.00	MAIL



89	RV88	4	\$64,700.00	MAIL
90	RV44	2	\$66,900.00	MAIL
91	RV121	2	\$67,800.00	MAIL
92	RV45	3	\$70,000.00	PHONE
93	RV147	1	\$72,000.00	MAIL
94	RV56	2	\$72,913.00	MAIL
95	RV49	1	\$75,139.00	MAIL
96	RV65	4	\$80,000.00	MAIL
97	RV41	2	\$80,520.00	MAIL
98	RV39	3	\$84,788.00	MAIL
99	RV72	2	\$90,393.31	MAIL
100	RV34	3	\$93,000.00	MAIL
101	RV9	10	\$95,000.00	MAIL
102	RV31	4	\$99,117.58	MAIL
103	RV143	5	\$109,000.00	MAIL
104	RV134	2	\$116,000.00	PHONE
105	RV119	3	\$130,000.00	PHONE
106	RV48	2	\$150,000.00	MAIL
107	RV2		\$150,000.00	DEFAULTED
108	RV5		\$150,000.00	DEFAULTED
109	RV8		\$150,000.00	DEFAULTED
110	RV10		\$150,000.00	DEFAULTED
111	RV15		\$150,000.00	DEFAULTED
112	RV17		\$150,000.00	DEFAULTED
113	RV21		\$150,000.00	DEFAULTED
114	RV22		\$150,000.00	DEFAULTED
115	RV24		\$150,000.00	DEFAULTED
116	RV25		\$150,000.00	DEFAULTED
117	RV26		\$150,000.00	DEFAULTED
	Median Household Income		\$ 35,000	
	Average Household Size		3	



# Exhibit F

1. Response List (RV) Mailed Survey Data Table
2. Response List (RV) – Over-the-Phone Data Table
3. No Response List (RV) Data Table



## Data Table 1 - Response List (RV) Mailed Survey

Count	Address	Space	Count	Address	Space
1	8200 Jantzen Rd, Modesto CA 95357	3	41	8200 Jantzen Rd, Modesto CA 95357	110
2	8200 Jantzen Rd, Modesto CA 95357	4	42	8200 Jantzen Rd, Modesto CA 95357	111
3	8200 Jantzen Rd, Modesto CA 95357	5	43	8200 Jantzen Rd, Modesto CA 95357	114
4	8200 Jantzen Rd, Modesto CA 95357	8	44	8200 Jantzen Rd, Modesto CA 95357	115
5	8200 Jantzen Rd, Modesto CA 95357	10	45	8200 Jantzen Rd, Modesto CA 95357	116
6	8200 Jantzen Rd, Modesto CA 95357	11	46	8200 Jantzen Rd, Modesto CA 95357	123
7	8200 Jantzen Rd, Modesto CA 95357	13	47	8200 Jantzen Rd, Modesto CA 95357	125
8	8200 Jantzen Rd, Modesto CA 95357	15	48	8200 Jantzen Rd, Modesto CA 95357	144
9	8200 Jantzen Rd, Modesto CA 95357	17	49	8200 Jantzen Rd, Modesto CA 95357	146
10	8200 Jantzen Rd, Modesto CA 95357	19	50	8200 Jantzen Rd, Modesto CA 95357	148
11	8200 Jantzen Rd, Modesto CA 95357	20	51	8200 Jantzen Rd, Modesto CA 95357	151
12	8200 Jantzen Rd, Modesto CA 95357	21	52	8200 Jantzen Rd, Modesto CA 95357	152
13	8200 Jantzen Rd, Modesto CA 95357	22	53	8200 Jantzen Rd, Modesto CA 95357	154
14	8200 Jantzen Rd, Modesto CA 95357	24	54	8200 Jantzen Rd, Modesto CA 95357	158
15	8200 Jantzen Rd, Modesto CA 95357	25	55	8200 Jantzen Rd, Modesto CA 95357	162
16	8200 Jantzen Rd, Modesto CA 95357	26	56	4951 San Antonio Place Santa Clara CA 95051	165
17	8200 Jantzen Rd, Modesto CA 95357	27	57	8200 Jantzen Rd, Modesto CA 95357	168
18	8200 Jantzen Rd, Modesto CA 95357	28	58	8200 Jantzen Rd, Modesto CA 95357	169
19	8200 Jantzen Rd, Modesto CA 95357	30	59	8200 Jantzen Rd, Modesto CA 95357	172
20	8200 Jantzen Rd, Modesto CA 95357	31	60	8200 Jantzen Rd, Modesto CA 95357	176
21	8200 Jantzen Rd, Modesto CA 95357	35	61	8200 Jantzen Rd, Modesto CA 95357	177
22	8200 Jantzen Rd, Modesto CA 95357	37	62	8200 Jantzen Rd, Modesto CA 95357	180
23	8200 Jantzen Rd, Modesto CA 95357	38	63	8200 Jantzen Rd, Modesto CA 95357	182
24	8200 Jantzen Rd, Modesto CA 95357	39	64	8200 Jantzen Rd, Modesto CA 95357	185
25	8200 Jantzen Rd, Modesto CA 95357	40	65	8200 Jantzen Rd, Modesto CA 95357	186
26	8200 Jantzen Rd, Modesto CA 95357	41	66	8200 Jantzen Rd, Modesto CA 95357	189
27	8200 Jantzen Rd, Modesto CA 95357	42	67	8200 Jantzen Rd, Modesto CA 95357	197
28	8200 Jantzen Rd, Modesto CA 95357	45	68	8200 Jantzen Rd, Modesto CA 95357	200B
29	8200 Jantzen Rd, Modesto CA 95357	47	69	8200 Jantzen Rd, Modesto CA 95357	203
30	8200 Jantzen Rd, Modesto CA 95357	49	70	8200 Jantzen Rd, Modesto CA 95357	204
31	8200 Jantzen Rd, Modesto CA 95357	50	71	8200 Jantzen Rd, Modesto CA 95357	218
32	8200 Jantzen Rd, Modesto CA 95357	94	72	8200 Jantzen Rd, Modesto CA 95357	221
33	8200 Jantzen Rd, Modesto CA 95357	97	73	8200 Jantzen Rd, Modesto CA 95357	224
34	8200 Jantzen Rd, Modesto CA 95357	98	74	8200 Jantzen Rd, Modesto CA 95357	225
35	8200 Jantzen Rd, Modesto CA 95357	99	75	8200 Jantzen Rd, Modesto CA 95357	230
36	8200 Jantzen Rd, Modesto CA 95357	101	76	8200 Jantzen Rd, Modesto CA 95357	231
37	8200 Jantzen Rd, Modesto CA 95357	102	77	8200 Jantzen Rd, Modesto CA 95357	232
38	8200 Jantzen Rd, Modesto CA 95357	103	78	8200 Jantzen Rd, Modesto CA 95357	233
39	3370 Brookestone Drive Turlock CA 95382	105	79	8200 Jantzen Rd, Modesto CA 95357	235
40	8200 Jantzen Rd, Modesto CA 95357	107	80	8200 Jantzen Rd, Modesto CA 95357	237



Data Table 2 - Response List (RV) Over-the-Phone Survey

Count	Address	Space
81	8200 Jantzen Rd, Modesto CA 95357	6
82	8200 Jantzen Rd, Modesto CA 95357	16
83	8200 Jantzen Rd, Modesto CA 95357	43
84	8200 Jantzen Rd, Modesto CA 95357	44
85	8200 Jantzen Rd, Modesto CA 95357	46
86	8200 Jantzen Rd, Modesto CA 95357	48
87	8200 Jantzen Rd, Modesto CA 95357	95
88	8200 Jantzen Rd, Modesto CA 95357	122
89	8200 Jantzen Rd, Modesto CA 95357	124
90	8200 Jantzen Rd, Modesto CA 95357	127
91	8200 Jantzen Rd, Modesto CA 95357	145
92	8200 Jantzen Rd, Modesto CA 95357	147
93	8200 Jantzen Rd, Modesto CA 95357	149
94	8200 Jantzen Rd, Modesto CA 95357	150
95	8200 Jantzen Rd, Modesto CA 95357	174
96	8200 Jantzen Rd, Modesto CA 95357	175
97	8200 Jantzen Rd, Modesto CA 95357	183
98	8200 Jantzen Rd, Modesto CA 95357	187
99	8200 Jantzen Rd, Modesto CA 95357	191
100	8200 Jantzen Rd, Modesto CA 95357	196
101	8200 Jantzen Rd, Modesto CA 95357	198
102	8200 Jantzen Rd, Modesto CA 95357	217
103	8200 Jantzen Rd, Modesto CA 95357	220
104	8200 Jantzen Rd, Modesto CA 95357	222
105	8200 Jantzen Rd, Modesto CA 95357	226
106	8200 Jantzen Rd, Modesto CA 95357	234



### Data Table 3 - No Response List (RV)

Count	Address	Space	Count	Address	Space
1	PO Box #695 Hughson CA 953226	7	33	8200 Jantzen Rd, Modesto CA 95357	159
2	8200 Jantzen Rd, Modesto CA 95357	9	34	8200 Jantzen Rd, Modesto CA 95357	160
3	8200 Jantzen Rd, Modesto CA 95357	12	35	8200 Jantzen Rd, Modesto CA 95357	161
4	8200 Jantzen Rd, Modesto CA 95357	18	36	8200 Jantzen Rd, Modesto CA 95357	164
5	8200 Jantzen Rd, Modesto CA 95357	23	37	8200 Jantzen Rd, Modesto CA 95357	166
6	8200 Jantzen Rd, Modesto CA 95357	29	38	8200 Jantzen Rd, Modesto CA 95357	167
7	11336 E. Service Rd. Denair CA 95316	3030	39	8200 Jantzen Rd, Modesto CA 95357	170
8	8200 Jantzen Rd, Modesto CA 95357	32	40	8200 Jantzen Rd, Modesto CA 95357	171
9	8200 Jantzen Rd, Modesto CA 95357	33	41	8200 Jantzen Rd, Modesto CA 95357	173
10	8200 Jantzen Rd, Modesto CA 95357	34	42	8200 Jantzen Rd, Modesto CA 95357	178
11	8200 Jantzen Rd, Modesto CA 95357	36	43	8200 Jantzen Rd, Modesto CA 95357	179
12	8200 Jantzen Rd, Modesto CA 95357	51	44	8200 Jantzen Rd, Modesto CA 95357	181
13	8200 Jantzen Rd, Modesto CA 95357	96	45	8200 Jantzen Rd, Modesto CA 95357	184
14	8200 Jantzen Rd, Modesto CA 95357	106	46	8200 Jantzen Rd, Modesto CA 95357	188
15	8200 Jantzen Rd, Modesto CA 95357	108	47	8200 Jantzen Rd, Modesto CA 95357	190
16	8200 Jantzen Rd, Modesto CA 95357	109	48	8200 Jantzen Rd, Modesto CA 95357	192
17	PO BOX 265 Hughson CA 95326	112	49	8200 Jantzen Rd, Modesto CA 95357	193
18	8200 Jantzen Rd, Modesto CA 95357	113	50	8200 Jantzen Rd, Modesto CA 95357	194
19	8200 Jantzen Rd, Modesto CA 95357	117	51	8200 Jantzen Rd, Modesto CA 95357	195
20	8200 Jantzen Rd, Modesto CA 95357	118	52	8200 Jantzen Rd, Modesto CA 95357	199
21	8200 Jantzen Rd, Modesto CA 95357	119	53	8200 Jantzen Rd, Modesto CA 95357	201
22	8200 Jantzen Rd, Modesto CA 95357	120	54	8200 Jantzen Rd, Modesto CA 95357	202
23	8200 Jantzen Rd, Modesto CA 95357	121	55	8200 Jantzen Rd, Modesto CA 95357	219
24	8200 Jantzen Rd, Modesto CA 95357	126	56	8200 Jantzen Rd, Modesto CA 95357	223
25	8200 Jantzen Rd, Modesto CA 95357	128	57	8200 Jantzen Rd, Modesto CA 95357	227
26	8200 Jantzen Rd, Modesto CA 95357	129	58	8200 Jantzen Rd, Modesto CA 95357	228
27	8200 Jantzen Rd, Modesto CA 95357	130	59	8200 Jantzen Rd, Modesto CA 95357	229
28	8200 Jantzen Rd, Modesto CA 95357	143	60	8200 Jantzen Rd, Modesto CA 95357	236
29	2145 San Antonio Place Santa Clara CA 95051	153	61	8200 Jantzen Rd, Modesto CA 95357	238
30	8200 Jantzen Rd, Modesto CA 95357	155	62	8200 Jantzen Rd, Modesto CA 95357	239
31	8200 Jantzen Rd, Modesto CA 95357	156	63	8200 Jantzen Rd, Modesto CA 95357	240
32	8200 Jantzen Rd, Modesto CA 95357	157			



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**From:** Chan, David@Waterboards <[David.Chan@Waterboards.ca.gov](mailto:David.Chan@Waterboards.ca.gov)>

**Sent:** Monday, August 10, 2020 9:52 AM

**To:** Thania Bejarano

**Cc:** Gudino, Magdalena@Waterboards

**Subject:** RE: Riverview Mobile Estates MHI Final Report\_Draft

Thank you Thania,

I concur with this MHI Report stating the Riverview Mobile Estates has an MHI of \$35,000 with a 69% response based on 106 responses and 11 responses defaulted to the highest income. You may provide this to the community for their records. I will put this into our system and forward to some of my State contacts, but this report may need to be provided to others as the system applies for funding.

Best regards,

**David Chan, PE**

Water Resource Control Engineer

Phone: (916) 341-5441

Small Community Technical Assistance



## **Appendix F**

### **City of Hughson - May 9, 2022 Technical Memorandum**



# TECHNICAL MEMORANDUM

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SHORELINE  
ENVIRONMENTAL ENGINEERING

**Date:** May 9, 2022

**To:** Merry Mayhew, General Manager

**From:** Cort Abney, City Water Engineer

**Subject:** Riverview Mobile Estates Sewer & Water Consolidation Project

## Introduction

Riverview Mobile Estates ("Riverview") is a small residential development located approximately 2,000 l.f. north of the Tuolumne River on Geer Road. The development is working with the State of California ("State") to identify solutions to address water and wastewater system deficiencies at Riverview. The State has contacted local communities to discuss the possibility of extending water and wastewater services to Riverview, a practice referred to as *consolidation*. Consolidation of Riverview with the City of Hughson ("City") may be a feasible alternative, and the City has commenced discussions with the State to determine if such an arrangement is mutually beneficial.

There are several challenges associated with a Riverview consolidation effort, including the City's available water capacity. The City has effectively reached the limit of its drinking water production, so additional water supplies will need to be developed to serve any additional customers. The City has identified future water supply projects, but none are under construction at this time.

The following provides a summary of the City's current water supply capacity, future water supply projects, and associated costs.

## Background

The City relies solely upon local groundwater for its water source, using high-production wells for water production. The City has experienced challenges with source water quality, beginning in 2006, with the adoption of a new and more stringent arsenic regulation. The local groundwater in the Hughson area commonly has arsenic at, or slightly above, the state and federal limit for arsenic in drinking water. As a result, most wells in the Hughson system are either in violation of the arsenic standard, or equipped with water treatment systems to remove arsenic. In 2017, the State of California adopted a new standard for a man-made contaminant called 1,2,3-TCP. As of this date, all of the City's wells are in violation of this new standard. The City is constructing treatment for 1,2,3-TCP at one well site.



In addition to arsenic and 1,2,3-TCP, other man-made contaminants have been found in the local groundwater, including DBCP (soil fumigant) and nitrate (fertilizer). Two (2) of the City's production wells were forced out-of-service due to these contaminants in the past few years. Water production lost from these two wells is being replaced with the *Well 7 Replacement Project*, scheduled to be completed in 2022. This project includes construction of two new wells, treatment for arsenic, and additional water storage for fire suppression and peak demands.

## Hughson Water Demands and Well Capacity

California water code (Title 22, Section 64554) requires public water systems maintain source capacity equal to or greater than the highest recorded demand in the past 10-years. Source capacity is determined assuming the system's largest producer is out of service (Title 22 CCR 64554 (c)). As a result, the City must maintain production capacity of 3.54 million gallons per day (MGD) per State Water Code. Approved developments will increase the system demands, as shown in the following Table.

### City of Hughson Current Existing and Projected Water Demands

<b>Water Demands</b>	<b>ADD,<sup>(1)</sup> mgd</b>	<b>MDD,<sup>(2)</sup> mgd</b>
Existing	1.58	3.54
Development Projects <sup>(3)</sup>	0.09	0.275
Parkwood Project	0.16	0.36
<b>Total</b>	<b>1.83</b>	<b>4.12</b>

(1) ADD = AVERAGE DAILY DEMAND; (2) MDD = MAXIMUM DAILY DEMAND ; (3) TOTAL OF 215 UNITS PER EUCLID SOUTH, PROVENCE PLACE, EUCLID NORTH, AND PRIVATE SYSTEM CONSOLIDATION DEVELOPMENTS.

To meet the California water code requirements, City must maintain a firm well production of at least 4.12 MGD at all times. Well capacity is shown in the following table.

### City of Hughson Water Production Capacity

<b>Scenario</b>	<b>Description</b>	<b>Wells Online</b>	<b>Totally Supply, mgd</b>
Total Existing Production (in full compliance with water regulations)	All existing and active wells	3, 4, 8	0
Total Existing Production of Active Wells	All existing and active wells	3,4, 8	5.56
Existing Firm Capacity	Existing wells w/o largest well	3, 4	3.46
Total 2020 Capacity <sup>(1)</sup>	All existing wells and future wells	8, 9, 10	6.30
2022 Firm Capacity	Existing and future treated wells w/largest producer out-of-service	8, 9, 10	<b>4.20</b>

(1) WELLS 3 AND 4, WILL BE DEACTIVATED DUE TO CONTAMINATION ONCE WELLS 9 AND 10 ARE PLACED IN SERVICE (ESTIMATED SEPTEMBER, 2022). WELL PRODUCTION BASED ON 23.3 HOURS PER DAY OPERATION ALLOWING FOR DAILY FILTER BACKWASH CYCLE.



Based on the demand and capacity values shown, City water demand is equal to its firm capacity. Thus, additional water supplies will need to be identified and implemented to serve more customers. Possible “new” sources of water identified to date include:

- Construct new well and treatment (“North Facility”)
- Regional Surface Water program

#### **A. North Facility**

This alternative includes construction of a water storage and treatment facility similar to the Well 7 Replacement Project currently under construction. The facility would be located near existing Well 8, in the northeast area, south of Hatch Road, west of Geer Road. The design would include a central treatment plant for Well 8 and a new well, storage, and booster pumps. The total cost of the facility is estimated at \$17,500,000, and provide an additional 2,000 equivalent units of new water. The facility could be constructed in phases, whereby a storage tank and booster pumps are constructed as a “Phase I” project, and new well and treatment constructed as Phase II. The cost of the first phase is estimated at approximately \$7,500,000, and provide an additional 500 units of water.

#### **B. Regional Surface Water**

This alternative includes purchase or “Buy In” to the Regional Surface Water Supply Project being constructed by the Stanislaus Regional Water Authority (SRWA). The City would buy treatment plant capacity from SRWA Authority and build facilities to receive the water near Hatch Road and Euclid Avenue (e.g. turn-out/metering structure, equalization storage, booster pump station). Additional water transmission pipelines would be required to move the water throughout the City as the capacities of existing water distribution mains are insufficient. The total cost of this project is estimated at \$28,600,000, and provide an additional 2,000 equivalent units of new water.

### **Discussion**

Since the City currently has no water supply surplus, additional water supplies will need to be constructed as part of a Riverview consolidation project. The least expensive and most expedient option is to construct Phase I of the planned North Facility. This option would increase the City’s water capacity by approximately 500 equivalent residential units. Since Riverview currently has approximately 176 connections, the Phase I project would provide sufficient capacity for Riverview, with allowance for some future expansion.



## **Appendix G**

### **City of Hughson - Utility Billing Charges**



Monthly Utility Billing Charges  
As of January , 2022

	Daily	Monthly		Water usage per 1,000 gallons
Water	\$1.27	\$38.20		\$2.21
Sewer	\$2.53	\$75.94		
Garbage	\$1.17	\$35.02		
Total Charges		<b>\$149.16</b>		

<b>Garbage rates:</b>	
	Basic rate includes 1 black container and 1 green waste container.
	Additional containers can be ordered for \$15.42 per container