

CITY OF LINDSAY

WATER UPDATE

9.14.2023

AGENDA

REGULATIONS-MANDATES

Completed

- Sustainable Groundwater Management Act
- State Water Resources Control Board- Division of Drinking Water;
 - Deadlines/Mandates
 - Permit to Operate

Working on

- Urban Water Management Plan
... Adoption in November 2023

INFRASTRUCTURE NEEDS

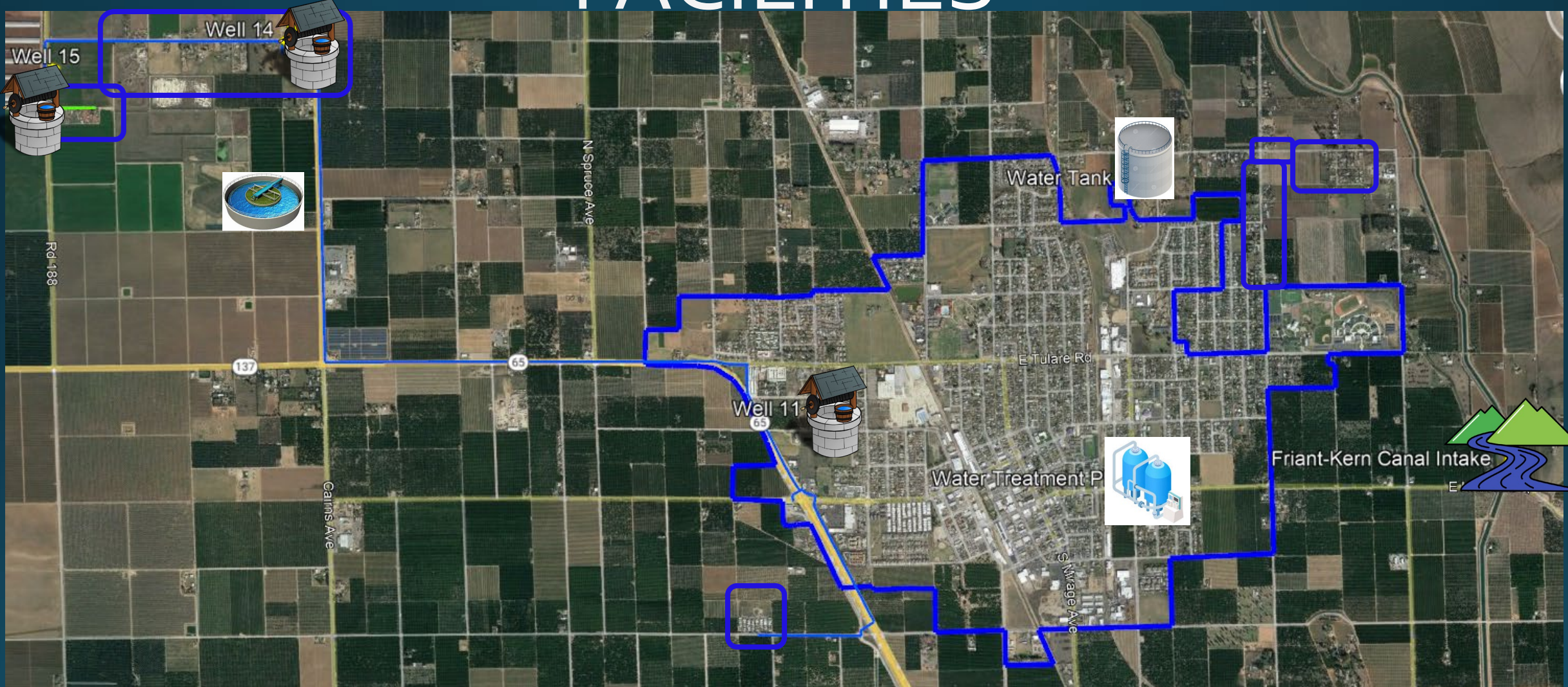
Completed

- Water Feasibility Study-Adopted
- Well 11 Feasibility Study-Adopted

Working on

- Corrosion Control Study DRAFT-
Lead & Copper Rule
- Cryptosporidium-Monitoring Plan
- Well 15 Secondary Maximum
Contaminant Levels

LINDSAY'S WATER SOURCES & FACILITIES



SUSTAINABLE GROUNDWATER MANAGEMENT ACT



MARIPOSA
GROUNDWATER RECHARGE BASIN

DEADLINES/MANDATES

DISTRICT 24 - TULARE Outstanding Deadlines

System Number: CAS410006	SystemName: LINDSAY, CITY OF
Assigned Staff: YOUNG, TRAVIS	
Document Number: 03-12-09PA-007	Document Type: Perm
Document Description: 2009 Domestic Water Supply Permit Amendment	
Date Due: Monthly	Provision No.: 3a Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Document Number: 03-24-16R-034	Document Type: Com
Document Description: Stage 2 DBP MCL Violation (TTHM)	
Date Due: Quarterly	Provision No.: 2 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 3 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 5 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 8 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: 11/1/2019	Provision No.: 11 Recurring: <input type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	

Friday, December 17, 2021

DISTRICT 24 - TULARE Outstanding Deadlines

Document Number: 03-24-17R-001	Document Type:
Document Description: Stage 2 DBP MCL Violation (HAA5s)	
Date Due: Quarterly	Provision No.: 2 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 4 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 3 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: Quarterly	Provision No.: 7 Recurring: <input checked="" type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Date Due: 1/5/2020	Provision No.: 10 Recurring: <input type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	
Document Number: 08/05/2020-SS-5410006	Document Type:
Document Description: Sanitary Survey Associated with Permit 03-	
Date Due: 9/30/2020	Provision No.: 2 Recurring: <input type="checkbox"/> Description:
Date Received:	Processed By:
Corrective Action:	

Friday, December 17, 2021

DISTRICT 24 - TULARE Outstanding Deadlines

Date Due: 12/31/2020	Provision No.: 1 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	
Date Due: 12/31/2020	Provision No.: 3 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	
Document Number: 12/12/2017-SS-5410006	Document Type: Sanitary S
Document Description: 2017 Sanitary Survey	
Date Due: 3/1/2019	Provision No.: 1 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	
Date Due: 3/1/2019	Provision No.: 10 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	
Date Due: 3/1/2019	Provision No.: 14 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	
Date Due: 3/1/2019	Provision No.: 4 Recurring: <input type="checkbox"/> Description: T
Date Received:	Processed By:
Corrective Action:	

Friday, December 17, 2021

DISTRICT 24 - TULARE Outstanding Deadlines

Date Due: 3/1/2019	Provision No.: 7 Recurring: <input type="checkbox"/> Description: The Water System must submit a revised Bacteriological Sample Siting Plan (BSSP) to the Division for review and approval.
Date Received:	Processed By:
Corrective Action:	
Date Due: 12/31/2019	Provision No.: 9 Recurring: <input type="checkbox"/> Description: The Water System must have all backflow prevention devices tested by a certified backflow tester and provide evidence to the Division.
Date Received:	Processed By:
Corrective Action:	
Date Due: 7/1/2020	Provision No.: 11 Recurring: <input type="checkbox"/> Description: The Water System must identify the material of the 900 fittings and update the Lead Service Line Inventory.
Date Received:	Processed By:
Corrective Action:	

Friday, December 17, 2021

December 2021

21 total Outstanding Deadlines

DEADLINES/MANDATES

DISTRICT 24 - TULARE Past Due Deadlines

System Number: CA5410006 SystemName: LINDSAY, CITY OF

Assigned Staff: ROMERO-MARACCI

Document Number: 03-24-16R-034 Document Type: Compliance Order Date Issued: 10/21/2016

Document Description: Stage 2 DBP MCL Violation (TTHM)

Date Due: 11/1/2019 Provision No.: 11 Recurring: Description: Water System must return and remain in compliance with maximum contaminant level

ACHIEVE DBP COMPLIANCE

Date Received: Processed By:

Corrective Action:

Document Number: 03-24-17R-001 Document Type: Compliance Order Date Issued: 1/5/2017

Document Description: Stage 2 DBP MCL Violation (HAA5s)

Date Due: 1/5/2020 Provision No.: 10 Recurring: Description: Water System must achieve compliance with the haloacetic acids (HAA5) maximum contaminant level (MCL).

Date Received: Processed By:

Corrective Action:

Document Number: 08/05/2020-SS-5410006 Document Type: Sanitary Survey Date Issued: 8/5/2020

Document Description: Sanitary Survey Associated with Permit 03-24-16R-034

Date Due: 12/31/2020 Provision No.: 1 Recurring: Description: The WS must submit a proposal to the Division indicating a plan to achieve a timeline for implementation of an additional 1-log Cryptosporidium removal for review and approval.

**IMPLEMENTATION OF
CRYPTOSPORIDIUM REMOVAL**

Date Received: Processed By:

Corrective Action:

Document Number: 12/12/2017-SS-5410006 Document Type: Sanitary Survey Date Issued: 2/1/2019

Document Description: 2017 Sanitary Survey

Date Due: 1/1/2021 Provision No.: 1 Recurring: Description: The Water System must log individual filter effluent turbidity readings in the monthly surface water treatment report submitted to the Division.

WTP FILTER TURBIDITY READINGS

Date Received: Processed By:

Corrective Action:

Wednesday, May 10, 2023

DISTRICT 24 - TULARE Past Due Deadlines

Date Due: 3/1/2019 Provision No.: 7 Recurring: Description: The Water System must submit a revised Bacteriological Sample Siting Plan (BSSP) to the Division for review and approval.

Date Received: Processed By:

Corrective Action:

COMPLETED JUNE 2023

May 2023

~~5~~
4

total Outstanding Deadlines

Wednesday, May 10, 2023



State Water Resources Control Board
Division of Drinking Water

August 28, 2023

Ms. Neyba Amezcua, City Services Director
City of Lindsay – CA5410006
P.O. Box 369
Lindsay, CA 93247

2023 REVISED DOMESTIC WATER SUPPLY PERMIT NO. 03-24-23P-023 TO
UPDATE PERMIT CONDITIONS

Dear Ms. Amezcua:

On June 12, 2023, the State Water Resources Control Board, Division of Drinking Water (Division) staff conducted an inspection of the City of Lindsay water system (Water System). Attached to this letter is a revised Domestic Water Supply Permit No. 03-24-23P-023, which includes specific conditions. Please review the revised permit and let us know if there are any comments.

After evaluation of the Water System and completion of the enclosed sanitary survey report, the Division finds that the items below are required to be addressed by the Water System.

The Water System has several directives that were included in the 2019 Sanitary Survey Report that are past due. The Division does not establish new deadlines for the directives and the Water System is required to address these directives immediately to avoid enforceable actions:

1. Due immediately, the Water System must begin including individual filter effluent turbidity readings in the monthly surface water treatment report submitted to the Division.

2. Due immediately, the Water System must provide the Division with a plan for addressing the secondary maximum contaminant level (MCL) exceedances at Well 15.

The Water System must also address the following issues that were noted during the inspection and subsequent file review:

E. JOAQUIN ESQUIVEL, CHAIR | EILEEN SOBECK, EXECUTIVE DIRECTOR

285 West Bullard Avenue, Suite 101, Fresno, CA 93704 | www.waterboards.ca.gov

Ms. Amezcua
City of Lindsay

- 2 -

August 28, 2023

3. By September 10, 2023 and every month thereafter, the Water System must include a copy of the chart recording of the finished water free chlorine residual readings in the monthly SWT reports submitted to the Division. **COMPLETED**

5. By December 31, 2023, the Water System must install a functional online pH analyzer and corresponding chart recorder for the SWTP finished water. **TO BE COMPLETED BY 9-30-2023**

6. By October 16, 2024, the Water System must identify the material of the 910 fittings and update the Lead Service Line Inventory Form and complete and submit their lead service line inventory compliant with the 2021 Lead & Copper Rule Revisions.

7. By December 31, 2023, the Water System must provide a status update for completing the cross-connection control survey recommendations. **WORKING IN PROGRESS**

8. By September 30, 2023, the Water System must submit to the Division the LT2ESWTR Monitoring Plan to include the monitoring schedule and timeline, sampling location, and laboratory name and analytical method for *Cryptosporidium*. The LT2ESWTR Monitoring Plan must be approved by the Division prior to initiating sampling. **COMPLETED**

The Water System is required to collect *Cryptosporidium*, *E. coli* and turbidity grab samples from the untreated FKC water twice per month for 12 months while the SWTP is operating. At least 24 samples sets must be available to calculate the bin classification as the initial round of sampling was incomplete (only 12 sample sets were collected).

If you have any questions regarding the information contained in the permit amendment or sanitary survey report, please contact the Tulare District office at (559) 447-3300 or by email at DWPDIST24@waterboards.ca.gov.

Sincerely,

Kristin Willet 
Digitally signed by Kristin Willet
Date: 2023.08.28 10:18:36 -07'00'
Water Boards

Kristin Willet, P.E.
Senior Water Resource Control Engineer, Tulare District
Division of Drinking Water
Southern California Field Operations Branch

INFRASTRUCTURE NEEDS

CITY OF LINDSAY WATER FEASIBILITY STUDY

JANUARY 2023

Prepared for:

City of Lindsay

Prepared by:

Provost & Pritchard Consulting Group
Chico, California

Adopted on:

May 23, 2023

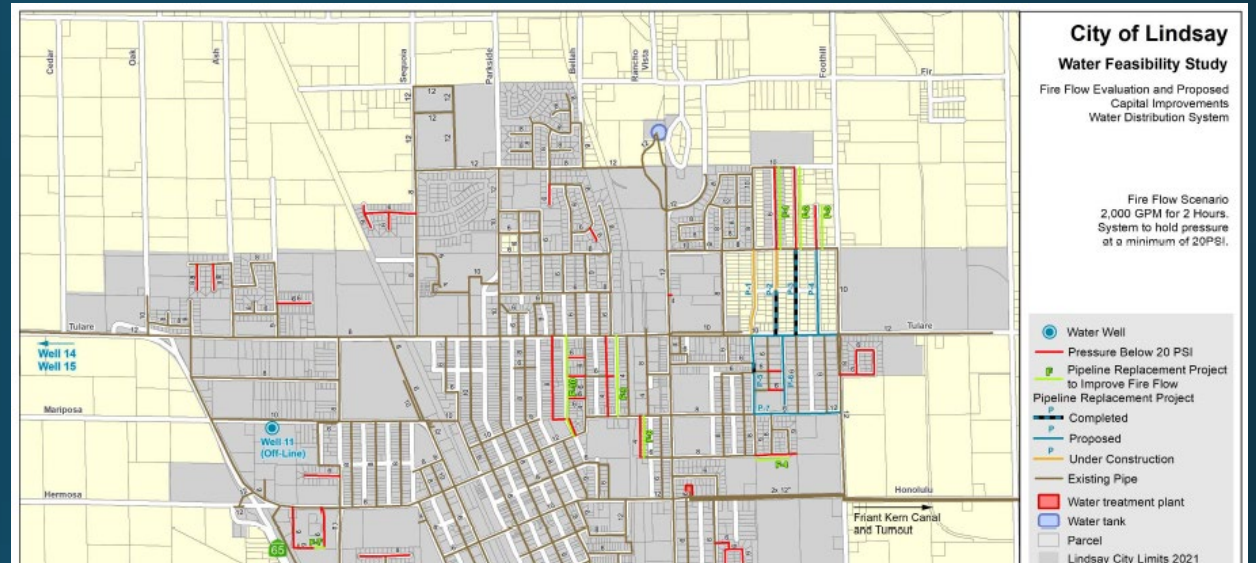


Table 3-10: CIP Matrix

Project No.	Project Type	Project Description	Notes	Project Limits	Project Specifics				Project Timing							Estimated Grand Total	Possible Funding Source	
					Ex. Size/ Diam.	New Size/ Diam.	Replace/ New	Length	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030			
Pipeline																		
Varies (See Table 3-11)	C	Main Line Replacement/ Dead End Elimination	1, 2	TBD	8 in	8 in	Replace	1,300 ft	\$988,000	\$988,000	\$988,000	\$988,000	\$988,000	\$988,000	\$988,000	\$988,000	\$6,916,000	Enterprise
Groundwater Wells																		
GW-1	C	Drinking Water Test Well #1	1	TBD			New		\$300,000								\$300,000	Enterprise
GW-2	C	New Well #1 (Winter Demand)	2, 4	TBD		850 gpm	New			\$2,220,000							\$2,220,000	Enterprise
GW-3	C	New Well #1 Infrastructure	2	TBD			New			\$2,700,000							\$2,700,000	Enterprise
GW-4	C	Drinking Water Test Well #2	1	TBD			New				\$300,000						\$300,000	Enterprise
GW-5	C	New Well #2 (Winter Demand)	2, 4	TBD		1,000 gpm	New				\$2,220,000						\$2,220,000	Enterprise
GW-6	C	New Well #2 Infrastructure	2	TBD			New				\$2,700,000						\$2,700,000	Enterprise
GW-7	C	Drinking Water Test Well	1	TBD			New					\$300,000					\$300,000	Enterprise
GW-8	C	Replacement Well	2, 3	TBD		750 gpm	Replace							\$2,220,000			\$2,220,000	Enterprise
GW-9	C	New Well #3 (Winter Demand)	2, 3, 5	TBD		750 gpm	New									\$2,220,000	\$2,220,000	Enterprise
GW-10	C	New Well #3 Infrastructure														\$2,700,000	\$2,700,000	Enterprise
GW-11	C	Harvard Park Infiltration														\$1,500,000	\$1,500,000	Enterprise
GW-12	C	City Park Infiltration														\$1,500,000	\$1,500,000	Enterprise
Ground Water Well Treatment																		
WT-1	P	Well 11 - Treatment Aids	1, 2	Well 11			New		\$25,000								\$25,000	Enterprise
WT-2	P	Well 11 - Treatment PG&E	1, 2	Well 11			New		\$150,000								\$150,000	GRF*
WT-3	C	Well 11 - Water Treatment	1, 2	Well 11			New			\$5,943,000							\$5,943,000	GRF*
WT-4	C	Well 14 - Upgrades	1	Well 14			New		\$150,000								\$150,000	Enterprise
Surface Water Projects																		
SW-1	C	DBP Mitigation	1, 2	SWTP			New		\$500,000								\$500,000	Enterprise
SW-2	C	Filter Bank D Renovations	1	SWTP			Replace		\$400,000								\$400,000	Enterprise
SW-3	C	Water Plant Upgrades	1, 2	SWTP			Replace			\$100,000							\$100,000	Enterprise
SW-4	C	Clarifier Renovations	1, 2	SWTP			Replace			\$10,000							\$10,000	Enterprise
SW-5	C	Turnout Upgrades	1	Canal Turnout			Replace				\$100,000		\$100,000				\$200,000	Enterprise
SW-6	C	Appurtenances (Approved CIP)	1	TBD			Replace		\$120,000	\$766,800	\$472,000	\$570,000	\$20,000				\$1,948,800	Enterprise
SW-7	C	Water Meters Digital Upgrade	1	TBD			Replace									\$2,000,000	\$2,000,000	Enterprise
Tank Improvements																		
T-1	C	Storage Tank Improvements	1	TBD			Replace				\$450,000						\$450,000	Enterprise
Totals									\$2,433,000	\$12,727,800	\$2,310,000	\$6,578,000	\$1,308,000	\$3,208,000	\$10,508,000	\$33,672,800		

\$40 Million Capital Improvement Plan

* P = Planning Project; C = Construction Project
 † Project Listed in Draft Capital Improvement Plan Provided by the City
 ‡ Project Proposed for Inclusion in CIP; additional details in Water Feasibility Study
 § Supply Projects are potentially interchangeable based on timing and demand needs
 ¶ GRF refers to the California State Revolving Fund
 †† Planned well replacement by the year 2030, as a result of reaching useful life expectancy.
 ††† Additional well will be needed sometime after 2030 to address supply needs, as illustrated in Figure 3-1.

INFRASTRUCTURE NEEDS

City of Lindsay Well 11 Feasibility Study

January 12, 2023



DATE SIGNED 1/12/2023

Prepared for:
City of Lindsay
Lindsay, California

Prepared by:
Provost & Pritchard Consulting Group
455 West Fir, Clovis, California 93611

Adopted on:

May 23, 2023



MCL's Exceedances

Nitrate

Perchlorate

Capital Cost

\$6,000,000 (Evaporation Ponds)

WORKING ON...

November 14, 2023 tentative
public hearing date

Urban Water Management Plan

- Long-term resource planning
 - ✓ Available water supplies for existing and future water needs
 - ✓ Assess the reliability of water sources over a 20-year planning time frame
 - ✓ Demand management measures
 - ✓ Water Shortage Contingency Plan
 - ✓ Report progress toward meeting a targeted 20 percent reduction in per-capita (per-person)
- Compliance with California Water Code
 - ✓ Requirement in 2020
- Eligible for State Water Grants
- Plan to be updated every 5 years



WORKING ON...

Corrosion Control Study-Draft

- EPA Lead and Copper Rule
- Testing Every 3 years
 - ✓ 30 Samples
 - ❖ September 2021; 3 exceeded Lead levels
- November 2021 Mandate
 - ✓ Prepare a Desktop Corrosion Control Plan by June 1, 2023
 - ✓ 2022 Req to sample 60 sites every 6 months.
All samples were compliant
- State granted an extension to implement the recommendation of the study
 - ✓ Additional 60 samples by September 30, 2023

City of Lindsay Desktop Corrosion Control Study

August 18, 2023



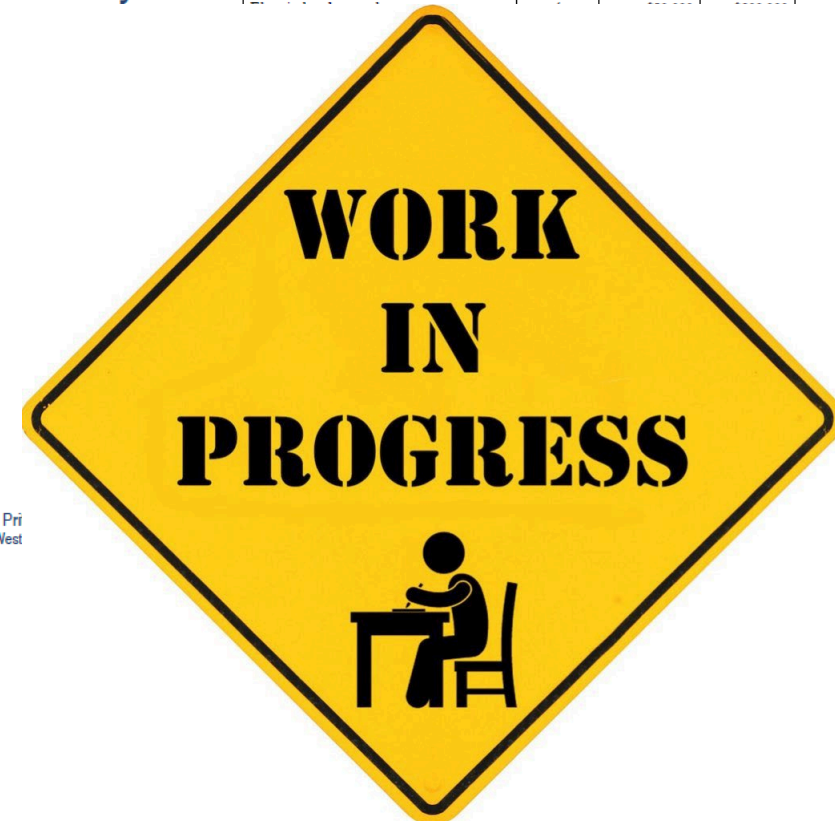
DATE SIGNED 8/18/2023

Provost & Pri
455 West

City of Lindsay
Corrosion Control Study

Table 6-2: Capital Cost Estimate

Bid Item	Quantity	Cost Per Site	Subtotal Cost
Site demolition, clearing and grubbing	4	\$5,000	\$20,000
Chemical enclosure	4	\$75,000	\$300,000
Metering pump, spill pallet, eyewash	4	\$7,500	\$30,000



WORKING ON..

Cryptosporidium

- 2007 EPA Surface Water Treatment Rule
- 2017-2019 Testing Cycle
 - ✓ 24 Samples
 - ❖ 5 Samples with Presence of Crypto
- 2019 Mandate
 - ✓ Prepare a Proposal of Treatment strategy & timeline for implementation by December 31, 2020
- State granted an extension (New permit)
 - ✓ Additional 24 samples by January 2025
 - ❖ 2 Samples per Month



WORKING ON...

Submittal to the State
September 20, 2023

Well 15 Secondary MCL's Mitigation Plan

- Chloride
- Conductivity
- Total Dissolved Solids (TDS)

Constituent	Well 15 MCL
Chloride	8 mg/L
Conductivity	2,500 µmhos/cm
Total Dissolved Solids (TDS)	1,000 mg/L

¹ Assumes well flow rate of 100 gpm

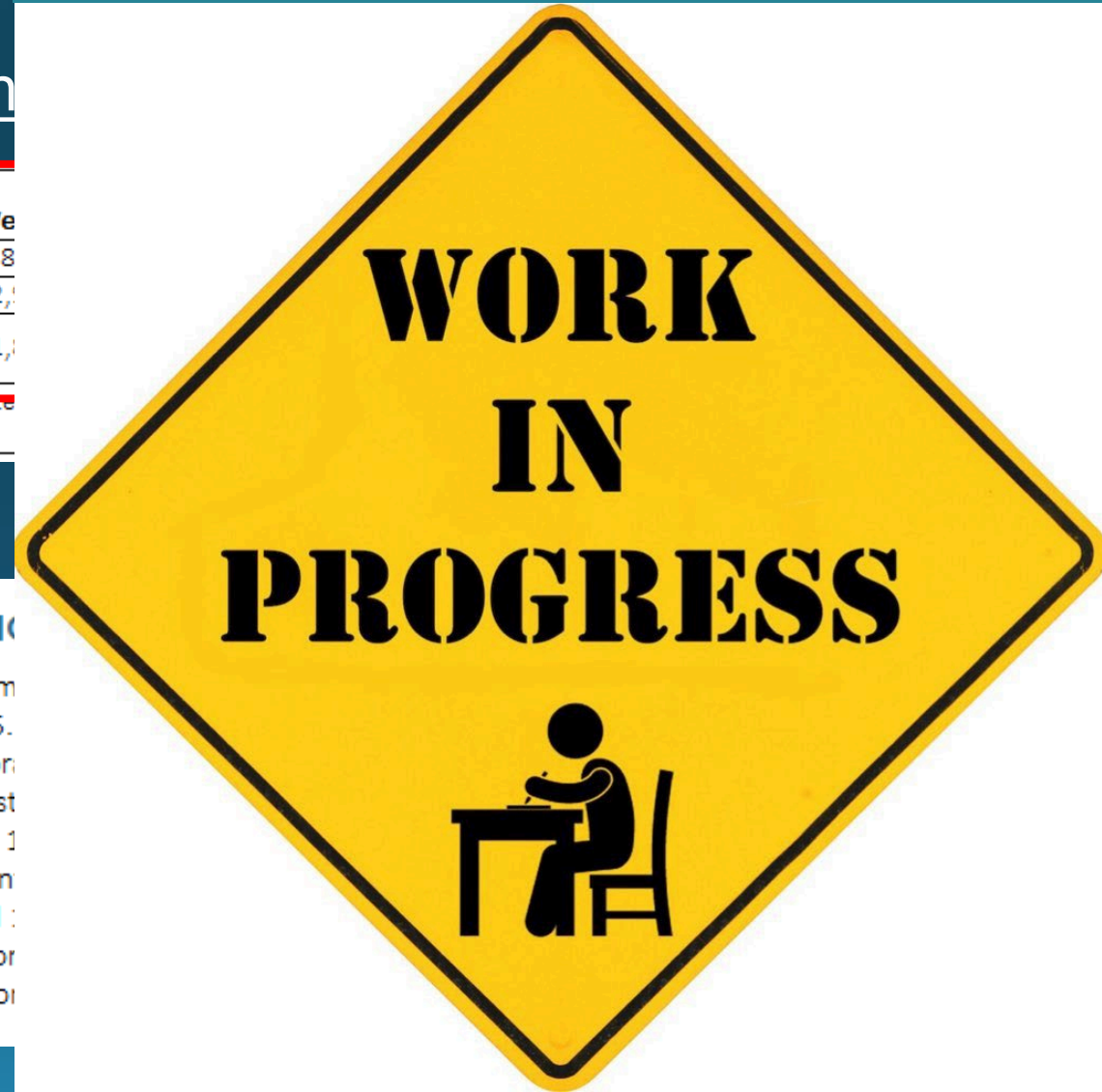
Explored Options to Mitigate

- Removing the well from service
- Blending the Well 15 with another source
- Modifying the well
- Replacing the well
- Treating the well

WELL 15 TDS MITIGATION

Following is the recommended mitigation for TDS exceedances at Well 15.

1. To the extent possible, the City will use the last on / first off principle whenever Well 15 is used.
2. The City will continue to use Well 15 to service, Well 15.
3. The City will work on the mitigation and construction of a new well.



WATER AD-HOC COMMITTEE

Table 1: Committee Composition (As Approved by Lindsay City Council)

	Group	Name	Email
1	Lindsay City Council	Yolanda Flores, Mayor Pro Tem	yflores@lindsay.ca.us
2	Lindsay City Council	Rosaena Sanchez, Council Member	rsanchez@lindsay.ca.us
3	Lindsay Community Member	Mayra Magallanes	m.magallanes016@gmail.com
4	Lindsay Community Member	Jose Soria	jososoriair@gmail.com
5	Lindsay Community Organization	Brenda Gonzalez	gonzalez.brenda2003@gmail.com
6	Lindsay Unified School District	Grant Schimelpfening	gschimelpfening@lindsay.k12.ca.us

Table 2: Advisory City Staff

	Title	Name	Email	Phone
1	City Manager	Joseph M. Tanner	jtanner@lindsay.ca.us	559-562-7102 x 8010
2	Director of City Services & Planning	Neyba Amezcua	namezcua@lindsay.ca.us	559-562-7102 x 8040
3	Director of Finance	Salvador Guzman	sguzman@lindsay.ca.us	559-562-7102 x 8020
4	City Clerk	Francesca Quintana	fquintana@lindsay.ca.us	559-562-7102 x 8034

City Water Ad-Hoc Committee Meeting Schedule Year 2023

Meeting Date	Tentative Topics
Thursday, September 14, 2023	<ul style="list-style-type: none"> • Introductions of Committee Members • Goals of Committee • Overview of Studies
Saturday, October 7, 2023 (morning)	<ul style="list-style-type: none"> • Water & Sewer Facilities Tour
Wednesday, October 18, 2023	<ul style="list-style-type: none"> • Review and discuss Well 11 Feasibility Study Report and identified findings and recommendations. • Review and discuss submitted funding requests.
Wednesday, November 8, 2023	<ul style="list-style-type: none"> • Review and discuss Water Feasibility Study Report and identified findings and recommendations.
Wednesday, December 6, 2023	<ul style="list-style-type: none"> • Review and discuss City infrastructure, supply, and financials. • Discuss and identify potential funding sources to address Well 11 and Water Feasibility Studies recommendations. • Follow-up

- How to ensure reliable supply of safe and clean drinking water?
- How to ensure the quality of drinking water to meet federal and state health & safety standards?
- How to achieve the infrastructure needs to clean the contaminated Well 11?
- How to fund/prioritize the upgrading and replacement of aging/deteriorating infrastructure?
- How to close the current financial gap in the water fund?
 - Operating Budget -\$1.3M



