



TUOLUMNE UTILITIES DISTRICT

18885 NUGGET BLVD • SONORA, CA 95370
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Committee Chair: D. Boatright

Member: G. Jacobs

Wastewater Committee Agenda Thursday, November 9, 2023 - 9:00 a.m. 18885 Nugget Blvd., Sonora, California

Public Participation Procedures:

During the committee meeting, members of the public who wish to provide public comment will be invited to do so by the Committee Chair. Members of the public who are physically present will be called first. Members of the public who are not present and wish to provide remote public comment via Zoom may use the 'Raise Hand' feature on their computer or press *9 if participating by phone. Committee meetings are not required to be broadcast over Zoom; the District is providing this option as a convenience to the public. If the District experiences technical difficulties and the transmission goes down the meeting will continue in person as scheduled.

Information to join meeting via Zoom:

- Via video conferencing at:
<https://us02web.zoom.us/j/89756208139?pwd=ZDFhNktiQ2JCYWNFSTU0ZE1NaVI3QT09>
- Via teleconference by calling (253) 215-8782 or (301) 715-8592
- US Meeting ID: 897 5620 8139
- Password: 501020
- Public may observe and listen to this meeting on TUD's YouTube Channel at [Tuolumne Utilities District - YouTube](#)

1. Review of Wastewater Connection and Capital Facilities Fees

Note: Committee Agenda Material can be inspected at the District Office located at 18885 Nugget Blvd., Sonora, CA and on our website at www.tudwater.com.

In accordance with the Americans with Disabilities Act, if you need special assistance (i.e. auxiliary aids or services) in order to participate in this public meeting, please contact the Clerk of the Board, Melissa McMullen, and (209) 532-5536 ext. 510. Notifications 48 hours prior to the start of the meeting will enable the Clerk to make reasonable accommodations to ensure accessibility to this public meeting.

Wastewater Committee

Meeting of November 9, 2023

Item #1

Title of Item: 1. Review of Wastewater Connection and Capital Facilities Fees

Recommendation:

Review of current District policies and background information on wastewater capacity charges and connection fees.

Background:

State Law (Govt. Code Section 66013) and the District's Water Ordinance require the District to collect wastewater capacity charges (capital facilities fees) and connections fees from developers and new applicants prior to service. Wastewater capacity charges and connection fees apply to all new projects requiring service from the District. Capacity charges ensure an equitable recovery of the District's cost of providing the essential components of water and sewer infrastructure. These charges and fees are established as a one-time charge levied against new businesses, developments, and residences to recover a part, or all, of the cost of additional system capacity, or the purchase of capacity existing within the system. Utility billing commences once service is applied for and capacity charges and connection fees are paid. Capacity remains with the property.

The District's current Wastewater connection fees and capacity charges per Equivalent Single-Family Residence is: \$6,462 plus a \$303 lift station adder.

Discussion:

Staff will provide a presentation covering various aspects of Wastewater capacity charges and connection fees including State and District rules, current and historical District capacity charges and connection fees, current calculation methodology and the average annual revenue and how it is used.

Attachments:

1. Wastewater Connection Fees and Capacity Charges
2. Wastewater Connection Fee and Capacity Charge Historical Annual Increases
3. California Government Code – Section 66013
4. TUD Wastewater Ordinance – Exhibit B Connection and Capital Facilities Fees
5. TUD Wastewater Ordinance – Exhibit C Connection and Capital Facilities Fees Mi Wuk
6. TUD Wastewater Ordinance – Exhibit E-H Connection and Capital Facilities Fees Basis
7. TUD Wastewater Ordinance – Exhibit A Demand Factor Table
8. Water/Sewer Service Application Fee Determination Sheet

Attachment 1
Wastewater Connection Fees and Capacity Charges

Wastewater Connection Fees and Capacity Charges Per Equivalent Single Family Residence (160gpd) ³

Connection Fees

| | |
|--------------------|-------|
| Administrative Fee | \$320 |
|--------------------|-------|

| | |
|----------------------------|---------------|
| Reimbursement ¹ | If Applicable |
|----------------------------|---------------|

| | |
|-----------------------------------|---------------|
| Construction Deposit ² | If Applicable |
|-----------------------------------|---------------|

Capacity Charges

| | |
|------------|---------|
| Collection | \$2,313 |
|------------|---------|

| | |
|-----------|---------|
| Treatment | \$2,634 |
|-----------|---------|

| | |
|----------|---------|
| Disposal | \$1,195 |
|----------|---------|

| | |
|---------------------------------|-------|
| Lift Station Adder ⁵ | \$303 |
|---------------------------------|-------|

\$6,765 ← Total Connection Fees and Capacity Charges per ESFR ^{3 4}

¹ Reimbursements exist in certain areas to cover the costs of improvements constructed by a developer or the District. Developer reimbursements expire after ten years. Most new connections do not include a reimbursement.

² The average construction deposit for a new sewer service lateral is \$6,500. The District bills time and material toward the construction deposit.

³ ESFR = Equivalent Single Family Residence (160gpd)

⁴ Capacity Charges and Connection fees are indexed to a 3-year running average of the Engineering News and Record 20-cities construction cost index and adjusted each fiscal year with an annual cap of 3.5%. The General Manager will implement the fee increase on July 1st annually.

⁵ For any sewer service that passes through a District sewer lift station prior to reaching the Regional Wastewater Treatment Plant, the lift station adder charge is collected.

Attachment 2
Wastewater Connection Fee and Capacity Charge
Historical Annual Increases

Annual Wastewater Construction Cost Index (CCI) Connection Fee and Capacity Charge Increase History

| | CCI Increase | Sewer ² | |
|---------------------|--------------|---------------------------------|--------------|
| | | Total Fee Amount ^{3 4} | Fee Increase |
| FY2024 ¹ | 3.50% | \$6,462 | \$207 |
| FY2023 | 3.10% | \$6,255 | \$179 |
| FY2022 | 2.20% | \$6,076 | \$124 |
| FY2021 | 3.00% | \$5,952 | \$164 |
| FY2020 | 3.30% | \$5,788 | \$175 |
| FY2019 | 3.10% | \$5,613 | \$159 |
| FY2018 | 2.70% | \$5,454 | \$135 |
| FY2017 | 2.40% | \$5,319 | \$117 |
| FY2016 | 2.80% | \$5,202 | na |

\$1,260

24%

Total Increase over 8 years

¹ CCI Increase for FY 2024 was 4.46%; however, increases are capped at 3.5%

² Fee Increase applies only to capacity charge elements. Administrative Fee is not subject to annual CCI Increases

³ Total per Equivalent Single Family Residence

⁴ Total fee amount includes sewer collection, treatment, disposal and administrative fee. A sewer lift station adder fee is also collected and but excluded from this table.

Attachment 3
California Government Code – Section 66013

California Government Code Section 66013 - Fees for Water or Sewer Connections, Capacity Charges

(a) Notwithstanding any other provision of law, when a local agency imposes fees for water connections or sewer connections, or imposes capacity charges, those fees or charges shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed, unless a question regarding the amount of the fee or charge imposed in excess of the estimated reasonable cost of providing the services or materials is submitted to, and approved by, a popular vote of two-thirds of those electors voting on the issue.

(b) As used in this section:

(1) "Sewer connection" means the connection of a structure or project to a public sewer system.

(2) "Water connection" means the connection of a structure or project to a public water system, as defined in subdivision (h) of Section 116275 of the Health and Safety Code.

(3) "Capacity charge" means a charge for public facilities in existence at the time a charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the local agency involving capital expense relating to its use of existing or new public facilities. A "capacity charge" does not include a commodity charge.

(4) "Local agency" means a local agency as defined in Section 66000.

(5) "Fee" means a fee for the physical facilities necessary to make a water connection or sewer connection, including, but not limited to, meters, meter boxes, and pipelines from the structure or project to a water distribution line or sewer main, and the estimated reasonable cost of labor and materials for installation of those facilities bears a fair or reasonable relationship to the payor's burdens on, or benefits received from, the water connection or sewer connection.

(6) "Public facilities" means public facilities as defined in Section 66000.

(c) A local agency receiving payment of a charge as specified in paragraph (3) of subdivision (b) shall deposit it in a separate capital facilities fund with other charges received, and account for the charges in a manner to avoid any commingling with other moneys of the local agency, except for investments, and shall expend those charges solely for the purposes for which the charges were collected. Any interest income earned from the investment of moneys in the capital facilities fund shall be deposited in that fund.

(d) For a fund established pursuant to subdivision (c), a local agency shall make available to the public, within 180 days after the last day of each fiscal year, the following information for that fiscal year:

(1) A description of the charges deposited in the fund.

(2) The beginning and ending balance of the fund and the interest earned from investment of moneys in the fund.

(3) The amount of charges collected in that fiscal year.

(4) An identification of all of the following:

(A) Each public improvement on which charges were expended and the amount of the expenditure for each improvement, including the percentage of the total cost of the public improvement that was funded with those charges if more than one source of funding was used.

(B) Each public improvement on which charges were expended that was completed during that fiscal year.

(C) Each public improvement that is anticipated to be undertaken in the following fiscal year.

(5) A description of each interfund transfer or loan made from the capital facilities fund. The information provided, in the case of an interfund transfer, shall identify the public improvements on which the transferred moneys are, or will be, expended. The information, in the case of an interfund loan, shall include the date on which the loan will be repaid, and the rate of interest that the fund will receive on the loan.

(e) The information required pursuant to subdivision (d) may be included in the local agency's annual financial report.

(f) The provisions of subdivisions (c) and (d) shall not apply to any of the following:

(1) Moneys received to construct public facilities pursuant to a contract between a local agency and a person or entity, including, but not limited to, a reimbursement agreement pursuant to Section 66003.

(2) Charges that are used to pay existing debt service or which are subject to a contract with a trustee for bondholders that requires a different accounting of the charges, or charges that are used to reimburse the local agency or to reimburse a person or entity who advanced funds under a reimbursement agreement or contract for facilities in existence at the time the charges are collected.

(3) Charges collected on or before December 31, 1998.

(g) Any judicial action or proceeding to attack, review, set aside, void, or annul the ordinance, resolution, or motion imposing a fee or capacity charge subject to this section shall be brought pursuant to Section 66022.

(h) Fees and charges subject to this section are not subject to the provisions of Chapter 5 (commencing with Section 66000), but are subject to the provisions of Sections 66016, 66022, and 66023.

(i) Subdivisions (c) and (d) only apply to capacity charges levied pursuant to this section.

Ca. Gov. Code § 66013

Amended by Stats 2020 ch 370 (SB 1371), s 180, eff. 1/1/2021.

Amended by Stats 2019 ch 78 (SB 646), s 1, eff. 1/1/2020.

Amended by Stats 2007 ch 94 (SB 699), s 1, eff. 1/1/2008.

Attachment 4
TUD Wastewater Ordinance
Exhibit B Connection and Capital Facilities Fees

EXHIBIT B

SEWER SERVICE CHARGES, CONNECTION AND CAPITAL FACILITIES FEES, AND OTHER RATE SCHEDULES

B.1 Charges for Sewer Service

The following rates and changes shall be effective as indicated below:

B.1.1. Monthly Fixed Charges

| Monthly Sewer Charge Based on 1 Single Family Residence | | | | |
|---|----------|----------|----------|----------|
| 1/1/2016 | 1/1/2017 | 1/1/2018 | 1/1/2019 | 1/1/2020 |
| \$40.00 | \$43.00 | \$46.00 | \$49.00 | \$51.00 |

A Monthly Fixed Charge will be collected on each *Single Family Residence*, regardless of size or *Equivalent Single Family Residence* (ESFR) classification under "Exhibit A" of this Wastewater Ordinance. For purposes of assigning *Sewer Service Charges* each Single Family Residence shall be classified as one (1) Monthly Fixed Charge. For all Non-Single Family Residences the ESFR allocation in "Exhibit A" shall be used as the basis of assigning Monthly Fixed Charges for sewer services.

B.1.2 Subscribers Monthly User Charges

The Monthly User Charges below are per Equivalent Single Family Residence (ESFR).

| District | Effective 1/1/2016 | Effective 1/1/2017 | Effective 1/1/2018 | Effective 1/1/2019 | Effective 1/1/2020 |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| THCSD | \$ 19.00 | \$ 21.00 | \$ 22.00 | \$ 23.00 | \$ 24.00 |
| Jamestown SD | \$ 4.20 | \$ 4.40 | \$ 4.60 | \$ 4.80 | \$ 5.00 |

B.2 Grease Trap and Interceptor Monitoring Charge

(Applied to Commercial Users with Grease Traps or Grease Interceptors) \$5.00 per month

B.3 Apple Valley Septic Tank Maintenance Charge \$4.00/ESFR per month

B.4 Mi Wuk Septic Tank Maintenance Charge \$4.00/ESFR per month

B.5 Gibbs Purchase Repayment Surcharge \$2.02/ESFR per month

B.6 Septic Dump Charge (See Exhibit I)

Minimum Charge per load: \$113.00
Usage over 1500 gallons per gallon: \$ 0.08

Septage Dump Charges to be indexed to a 3-year running average of the Engineering News and Record 20-cities construction cost index and adjusted each fiscal year with an annual cap of 3.5%. The General Manager will implement the fee increase on July 1st annually.

B.7 Wastewater Discharge Permittees Per Agreement

B.8 Reclaimed Water Charge (annual charge, requires contract)

Firm Supply Per Agreement
Interruptible Supply (when available) Per Agreement

B.9 Security Deposit Amount \$ 60.00

B.10 Connection and Capital Facilities Fees (Payable Prior to Connection)

Fee per Equivalent Single
Family Residence (ESFR) *

B.10.1 Wastewater Connection and Capital Facilities Charge Components**

| | TUD | JSD¹ | THCSD² |
|---|--------------------|------------------------|--------------------------|
| Collection & Transmission (See Exhibit E) | \$ 1,882.00 | - | \$ 888.00 |
| Treatment (See Exhibit F) | \$ 2,144.00 | - | \$ 2,144.00 |
| Disposal (See Exhibit G) | \$ 973.00 | \$ 1,218.00 | \$ 973.00 |
| Total Connection and Capital Facilities Fee (Base Year 2015) | \$ 4,999.00 | \$ 1,218.00 | \$ 4,005.00 |
| Administration Fee | \$ 320.00 | | |
| TOTAL ³ | \$ 5,319.00 | \$ 1,218.00 | \$ 4,005.00 |
| Lift Station Capacity Adder⁴ (See Exhibit H) (per Lift Station per ESFR) | \$ 246.00 | - | - |

Notes:

1. The Jamestown Sanitary District pays an additional \$240/ESFR on their disposal component for capacity used in the Jamestown Effluent Pump Station.
2. The Twain Harte Community Services District pays a reduced collection component of the connection fee because the capacity they use is strictly related to the Twain Harte and East Sonora Sewer Interceptors.
3. Connection fees to be indexed to a 3-year running average of the Engineering News and Record 20-cities construction cost index and adjusted each fiscal year with an annual cap of 3.5%. The General Manager will implement the fee increase on July 1st annually.
4. For any sewer service that must pass through a sewer lift station prior to reaching the Regional Wastewater Treatment Plant, there shall be a lift station adder charge per ESFR per lift station that the service flows through.
5. Service for developments larger than one single family equivalent connection may require, at the sole discretion of the District, an agreement that specifies conditions for service, including improvements or fees other than those addressed in this Ordinance necessary to address mitigation for capacity demands placed upon the wastewater system by the proposed development. All fee components addressed above, unless otherwise stipulated by an agreement, may be paid for at the time that service is ready to commence.

B.10.2 Construction of Service Lateral

Actual Cost

| | | |
|--------|---|-------------------|
| B.10.3 | Tenant Deposit Amount | \$ 60.00 |
| B.10.4 | Crystal Falls Sewer Facilities Design Charge | \$ 215.00/Lot/*** |
| B.10.5 | Clean Waters Assessment District #2 Equity Charge | \$ 1,000.00/ESFR |

This charge shall apply to any applicants for sewer service from facilities constructed and financed under the 1982 Clean Waters Assessment District #2 program for the Willow Springs, Ranchos Poquitos, Mono Vista areas, and who were assessed for a lesser sewer allocation than the requested service. This charge will apply to parcels within the assessment district that were under assessed and for parcels outside of the assessment district that are adjacent to the facilities. Equity charges collected under this ordinance shall be placed in a separate fund solely for the purpose of debt repayment on the outstanding principal balance of the Clean Waters Assessment District #2 bonds.

| | | |
|--------|---------------------------------|-----------------|
| B.10.6 | Rogue River Court Reimbursement | \$ 4,452.00/Lot |
|--------|---------------------------------|-----------------|

*** Calculations.** Sewer Service Charges and Connection and Capital Facilities fees for all users shall be determined by multiplying the "Wastewater Volume Discharge Demand Factor" set forth in Exhibit A times the rate or amount shown above for each user, subscriber or applicant, except for connection fee cost element number B.10.1, administration and inspection, which shall be payable for each physical connection.

**** Wastewater Connection and Capital Facilities Charge.** The Wastewater Capital Facilities Charge is collected to construct improvements to any of the sewer facilities described in B.10.1 for the purpose of increasing or replacing collection, treatment, or disposal system capacity used up by new connections to the sewer system.

***** Crystal Falls Sewer Facilities Design Charge.** The Crystal Falls Sewer Facilities Design Charge is applied to each new connection to the sewer collection system in the Crystal Falls area as shown on the plans designed by the District's consultant, Psomas and Associates, for that area for the purpose of recovering funds previously expended by the District for the design costs and to facilitate the orderly progression of future pipeline extensions by private parties on as needed basis.

Description of Sewer Systems

Regional Sewer System

The Regional Sewer System, sometimes known or referred to as the "North Tuolumne Basin Wastewater Management Program", was initiated and constructed in the 1970's. This Regional Sewer System consists of a Regional Wastewater Treatment Plant located at 1400 Southgate Avenue in Sonora, several Regional Interceptor pipelines including the Twain Harte Interceptor, Standard-Mono Village Interceptor, Ranchos Poquitos Interceptor, East Sonora Interceptor, Columbia Interceptor, Gibbs Interceptor, and CJC Interceptor, and the reclamation effluent disposal system for reuse of treated wastewater. The interceptor pipelines and connected District and subscriber collection systems serve the communities and adjacent areas of Sonora, Columbia, East Sonora, Cuesta Center, Standard, Mono Village, Ranchos Poquitos, Mono Vista, Willow Springs, Bellevue Oaks, portions of Crystal Falls, and Twain Harte. The community of Jamestown operates and maintains its own collection and treatment system with discharge into TUD's reclamation effluent disposal system. The interceptor system consists of pipelines from the various communities along with certain pump stations and related facilities and conveys the sewage to the Sonora Regional Wastewater Treatment Plant southeast of the community of Sonora. The Sonora Regional Wastewater Treatment Plant consists of various

equipment and processes to treat the wastewater to a disinfected secondary level before the reclaimed wastewater is conveyed by pipeline to Quartz reservoir and various properties south and west of Sonora and Jamestown for use for agricultural purposes.

Subscribers

Subscribers consist of various entities that maintain their own sewer collection system (and treatment facilities in the case of Jamestown) but who otherwise discharge into TUD facilities for transmission through the interceptors, treatment, and disposal via reclamation. Those entities include Twain Harte Community Services District, and Jamestown Sanitary District.

Various Sewer Collection Systems

Numerous communities are served through the Regional Sewer system, most of which are referenced above. The sewer collection systems are operated and maintained by TUD other than those exceptions described herein.

Mi Wuk Sewer System

The Mi Wuk Sewer System is operated and maintained by TUD. It was established as County Service Area No. 1 (C.S.A. #1) in 1967 by the Tuolumne County Board of Supervisors to provide sewer service to 52 assessed parcels "Assessment District No. 17" and several additional commercial parcels. The system is isolated from other Regional Sewer facilities and primarily consists of a collection system, pumping facilities, and a subsurface septic treatment and disposal system serving the majority of the commercial properties along State Highway 108 in the Mi Wuk area and a limited residential area in the same vicinity. The Connection and Capital Facilities Charges applicable to Mi Wuk area are set forth in Exhibit C.

Attachment 5
TUD Wastewater Ordinance Exhibit C
Connection and Capital Facilities Fees Mi Wuk

EXHIBIT C

CONNECTION AND CAPITAL FACILITIES FEES APPLICABLE TO MI WUK WASTEWATER SERVICE AREA

C.1 Connection and Capital Facilities Fees (payable prior to connection). Fee per Equivalent Single Family Residence (ESFR)*

| | Mi Wuk (TUD) |
|---|---------------------|
| Collection (Mi Wuk Only) | \$590.00 |
| Treatment and Disposal (Mi Wuk Only) | \$831.00 |
| Total Connection and Capital Facilities Fee (Base Year 2015) | \$1,421.00 |
| Administration Fee | \$320.00 |
| TOTAL¹ | \$1,741.00 |
| Lift Station Capacity Adder² (See Exhibit H) (per Lift Station per ESFR) | \$246.00 |

Notes:

Connection fees to be indexed to a 3-year running average of the Engineering News and Record 20-cities construction cost index and adjusted each fiscal year with an annual cap of 3.5%. The General Manager will implement the fee increase on the first of July, annually.

SCHEDULED INCREASES IN CONNECTION AND CAPITAL FACILITIES FEES:

| <u>Effective Date</u> | <u>Maximum % Increase to Each Fee Component</u> |
|-----------------------|---|
| July 1, 2016 | 3.5% |
| July 1, 2017 | 3.5% |
| July 1, 2018 | 3.5% |
| July 1, 2019 | 3.5% |
| July 1, 2020 | 3.5% |
| July 1, 2021 | 3.5% |

For any sewer service that must pass through a sewer lift station prior to reaching the Mi Wuk Septic Tank and Leach Field, there shall be a lift station adder charge per ESFR per lift station that the service flows through.

| | |
|---|------------|
| Mi Wuk Pines Subdivision Reimbursement Area | \$1,529.00 |
|---|------------|

*Connection and Capital Facilities fees for all other Mi Wuk users shall be determined by multiplying the "single family equivalent unit" set forth in Exhibit A times the rate for a single family equivalent, except for connection fee cost element number C.1.2, Administration and Inspection, which shall be payable per physical connection.

C.2 Connection Fee Application

| | | |
|----|--|--|
| | | Total |
| 1. | Parcels Within Original CSA #1 | \$320.00** |
| 2. | Parcels Annexed to CSA #1 | \$1,670.00 |
| 3. | Annexed Parcels in Mi Wuk Pines Reimbursement Area | $\$1,670.00 + \$1,529.00 = \$3,199.00$ |
| 4. | A.D. #17*** Parcels 1-12 | $\$320.00 + \$1,529.00 = \$1,849.00$ |

**For the first ESFR only. Improvements over and above one ESFR are subject to full Connection and Capital Facilities Fees per ESFR.

***Special Assessment District in CSA #1 as established in 1967 by the County of Tuolumne.

Attachment 6
TUD Wastewater Ordinance Exhibit E-H
Connection and Capital Facilities Fees Basis



EXHIBIT E
COLLECTION SYSTEM COMPONENT
Wastewater Connection and Capital Facilities Fee

TUD Sewer Collection System

| Collection System Pipeline Inventory | | Weighting | Size Distribution | Installation Cost (\$ per dia-inch per lf) | |
|--------------------------------------|---------|-----------|-------------------|---|------------|
| Dia | LF | Factor | % | \$ | 12.00 |
| 2 | 18,115 | 36,230 | 3% | \$ | 434,760 |
| 3 | 12,200 | 36,600 | 2% | \$ | 439,200 |
| 4 | 53,700 | 214,800 | 8% | \$ | 2,577,600 |
| 5 | 38,345 | 191,725 | 6% | \$ | 2,300,700 |
| 6 | 349,015 | 2,094,090 | 50% | \$ | 25,129,080 |
| 8 | 98,152 | 785,216 | 14% | \$ | 9,422,592 |
| 10 | 51,671 | 516,710 | 7% | \$ | 6,200,520 |
| 12 | 53,139 | 637,668 | 8% | \$ | 7,652,016 |
| 14 | 2,903 | 40,642 | 0% | \$ | 487,704 |
| 15 | 10,778 | 161,670 | 2% | \$ | 1,940,040 |
| 16 | 3,183 | 50,928 | 0% | \$ | 611,136 |
| 18 | 4,041 | 72,738 | 1% | \$ | 872,856 |
| Totals | 695,242 | 4,839,017 | 100% | \$ | 58,068,204 |

Total System Replacement Value

* Does not include sewer manholes or financing costs

| | | | |
|------------------------------|------|--------|----------------------------------|
| Weighted Average Diameter = | 6.96 | inches | Characteristic Diameter |
| Collection System Capacity = | 5.20 | mgd | Matches RWWTP Hydraulic Capacity |
| | 3609 | gpm | |

Flow Capacity of a 7-inch Gravity Sewer

| | | |
|-----------------------|-------|---|
| Depth/Diameter = | 0.7 | Industry standard is 0.7-0.8 for design capacity of gravity sewers |
| Slope= | 0.5% | Pipeline capacity governed by the individual segment with the flattest slope. |
| Mannings Coefficient= | 0.013 | Industry standard for pipe roughness. |
| Capacity = | 225 | gpm |

Flow Contribution from 1 ESFR

| | | |
|----------------------------|--------|-----------------------------|
| Base Flow = | 160 | gpd |
| Diurnal Peaking Factor = | 1 | TUD Peaking Factor at RWWTP |
| Daily Peak Flow = | 0.11 | gpm |
| ESFR % of 7 inch Capacity= | 0.049% | |

| | | |
|--|-----------------|--|
| # ESFRs (current) | 8,813 | esfr |
| System Capacity in ESFRs = | 32,479 | esfr (Based on base flow entering the plant) |
| Cost to provide total system capacity in 2015 (\$) | 58,068,204 | |
| ESFR Cost Share= | \$ 1,788 | Value of collection system capacity dedicated to 1 ESFR. |
| ESFR Cost Share (THCSD only)= | \$ 843 | Value of capacity consumed in the interceptors conveying flow from Twain Harte to the RWWTP. |



EXHIBIT F
TREATMENT COMPONENT
Wastewater Connection and Capital Facilities Fee

ESFRs Treated

Existing and Future Equivalent Single Family Residential Units

| | Existing ESFRs¹ | Future ESFRs² | Total³ |
|----------------------------|-----------------------------------|---------------------------------|--------------------------|
| ESFRs | 9488 | 7916 | 17404 |
| MGD (Avg Dry Weather Flow) | 1.41 | 1.19 | 2.60 |
| Percentage | 55% | 45% | 100% |

¹Includes 8,813 directly connected ESFRs + 675 ESFRs (flow and strength based) associated with septage.

²Remaining ESFR capacity. For purposes of analysis we will continue to assume that approximately 7.1% of all future ESFRs will be associated with septage.

³Sets the total capacity of the plant on a flow basis (2.6MGD / 160 gpd) + an additional 7.1% of ESFRs associated with septage.

Small Community Wastewater Grant TUD Regional WWTP and Disposal System Feasibility Report

| Improvement | Cost | Financing Cost (Interest)* | Total Cost | Existing ESFRs | Future ESFRs |
|--|---------------|---------------------------------------|-------------------|-----------------------|---------------------|
| | | | | 55% | 45% |
| Replace RWWTP and add Nitrogen Removal (2.6 MGD) | \$ 20,617,885 | \$ 6,949,961 | \$ 27,567,846 | \$ 15,028,367 | \$ 12,539,479 |

*3% typical 20 yr term based on semi-annual payments using the "fixed payment" method of amortization.

Treatment Plant Impact Fee

| | Total Future ESFRs | Future Direct Connections | Future Septage |
|--|---------------------------|--------------------------------------|-----------------------|
| | 100.0% | 92.9% | 7.1% |
| Treatment Cost Allocated to Future Customers | \$ 12,539,479 | \$ 11,646,942 | \$ 892,537.25 |
| Future Treatment ESFRs | 7916 | 7353 | 563 |
| Cost/ESFR | \$ 1,584 | \$ 1,584 | \$ 1,584 |

Biosolids Digestion Capacity

| | Existing | | Future ESFRs | | |
|-------------------------------|------------------------------------|----------------------|---------------------------|----------------|--------------|
| | Direct Connection ESFRs | Septage ESFRs | Direct Connections | Septage | Total |
| ESFRs | 8812 | 675 | 7353 | 563 | 7916 |
| Cubic Feet Digestion Capacity | 60300 | | 46732 | 3581 | 50314 |
| Percentage | 92.9% | 7.1% | 92.9% | 7.1% | 100% |



EXHIBIT F
TREATMENT COMPONENT
Wastewater Connection and Capital Facilities Fee

| Small Community Wastewater Grant TUD Regional WWTP and Disposal System Feasibility Report | | | | | Future ESFRs | |
|---|--------------|-------------------------------|--------------|----------------|--------------------|------------|
| Improvement | Cost | Financing Cost (Interest)* | Total Cost | Existing ESFRs | Direct Connections | Septage |
| | | | | 0% | 92.9% | 7.1% |
| 3rd Anaerobic Digester | \$ 2,682,500 | \$ 904,228 | \$ 3,586,728 | \$ - | \$ 3,331,431 | \$ 255,297 |

*3% typical 20 yr term based on semi-annual payments using the "fixed payment" method of amortization.

Digestion Impact Fee

| | Total Future ESFRs | Future Direct Connections | Future Septage |
|--|--------------------|------------------------------|----------------|
| | 100.0% | 92.9% | 7.1% |
| Digestion Cost Allocated to Future Customers | \$ 3,586,728 | \$ 3,331,431 | \$ 255,296.75 |
| Future Treatment ESFRs | 7916 | 7353 | 563 |
| Cost/ESFR | \$ 453 | \$ 453 | \$ 453 |

Summary

| | |
|--|-----------------|
| Treatment Plant Capital Facilities Fee | \$ 1,584 |
| Digestion Capital Facilities Fee | \$ 453 |
| Total Treatment Capital Facilities Fee/ESFR | \$ 2,037 |



EXHIBIT G
DISPOSAL FEE COMPONENT
Wastewater Connection and Capital Facilities Fee

Reclamation Storage Capacity of Disposal System
Existing and Future Equivalent Single Family Residential Units

| | Existing | Future ESFRs | Total |
|-----------|----------|--------------|--------|
| ESFRs | 10,418 | 2,072 | 12,490 |
| Acre-Feet | 1,367 | 249 | 1,616 |
| | 83% | 17% | |

Note: Based on TUD (7,177 ESFR) THCS (1,605) JSD (1,636 ESFR)

Reclamation Storage Cost Allocation

| Improvement | Cost | Financing Cost | Total Cost | Existing ESFRs | Future ESFRs |
|--------------------------------------|--------------|----------------|--------------|----------------|----------------|
| | | | | 83% (See note) | 17% (See note) |
| Reserve Pool Project (150 Acre-Feet) | \$ 1,580,000 | \$ - | \$ 1,580,000 | \$ 1,311,400 | \$ 268,600 |
| | | | | 0% | 100% |
| Betty West Ranch Land Purchase | \$ 1,242,364 | \$ - | \$ 1,242,364 | \$ - | \$ 1,242,364 |

Note: Approximately 83% of Quartz Reservoir's storage is allocated to existing ESFRs; whereas, 17% is unused capacity reserved for future ESFRs.

Betty West Ranch is 140 acres suitable for siting a new 650 acre-foot storage reservoir. Using the same ratio as currently exists for Quartz, 650 af could serve an additional 5,023 esfrs.

Reclamation Storage Capital Facilities Fee

| | |
|--|---------------|
| Cost Allocated to Future Customers | \$ 1,510,964 |
| Future ESFRs | 7,095 |
| Reclamation Storage Capital Facilities Fee/ESFR | \$ 213 |

Land Disposal (Irrigation) Capacity of Reclamation System

| | Existing | Future ESFRs | Total |
|-------|----------|--------------|--------|
| ESFRs | 10,418 | 2,072 | 12,490 |
| Acres | 672 | 143 | 815 |

Note: From Water Balance and additional 133 acres will be needed to land dispose of the full active volume of Quartz Reservoir in one irrigation season.

Land Disposal (Irrigation) Cost Allocation

| Improvement | Unit Cost | Unit | Quantity | Total Cost | Existing ESFRs | Future ESFRs |
|-----------------------------|-----------|------|----------|--------------|----------------|------------------|
| | | | | | 0% (See note) | 100% (See note) |
| Irrigation System | \$ 7,500 | acre | 143 | \$ 1,072,500 | | \$ 1,072,500 |
| Dry Year Land Bank Purchase | \$ 10,000 | acre | 40 | \$ 400,000 | | \$ 400,000 |
| Total | | | | | \$ | 1,472,500 |

Note: System is at capacity right now. New land disposal areas will be needed for any new development. 100% of the cost of new capacity is allocated to future ESFRs.



EXHIBIT G
DISPOSAL FEE COMPONENT
Wastewater Connection and Capital Facilities Fee

Land Disposal (Irrigation) Capital Facilities Fee

| | |
|--|---------------|
| Cost Allocated to Future Customers | \$ 1,472,500 |
| Future ESFRs | 2,072 |
| Land Disposal Capital Facilities Fee/ESFR | \$ 711 |

Summary

| | |
|--|---------------|
| Reclamation Storage Capital Facilities Fee | \$ 213 |
| Land Disposal (Irrigation) Capital Facilities Fee | \$ 711 |
| Total Disposal Capital Facilities Fee/ESFR | \$ 924 |

| | |
|---|-----------------|
| Total JSD Disposal Capital Facilities Fee/ESFR | \$ 1,157 |
|---|-----------------|

Note: JSD pays an additional \$233/ESFR for capacity consumed at the effluent pump station.



EXHIBIT H
LIFT STATION COMPONENT
Wastewater Connection and Capital Facilities Fee

| Item | Qty | Units | Unit Cost | Total Cost | |
|---|----------------|-------|-----------------------|----------------------|---|
| Land Acquisition | 0.1 | acre | \$ 100,000 | \$ 10,000 | Assumes this is granted by the developer. |
| Site Work | 1 | ls | \$ 18,000 | \$ 18,000 | Grading, access road, drainage, underground work. |
| Control Building | 256 | sf | \$ 125 | \$ 32,000 | Assumes 16'x16' CMU Bldg with metal roof. |
| Sumps, Pumps, and Valving | 1 | ls | \$ 80,000 | \$ 80,000 | Assumes 1 primary sump and 1 overflow sump. |
| Electrical & Controls | 1 | ls | \$ 25,000 | \$ 25,000 | Includes electrical service and SCADA |
| Standby Generator & Propane Tank | 1 | ls | \$ 30,000 | \$ 30,000 | Propane gas standby generator w/ transfer switch. |
| Fencing | 260 | lf | \$ 40 | \$ 10,400 | Chainlink with 3-strand barbed wire. |
| Paving | 2400 | sf | \$ 6.00 | \$ 14,400 | |
| Total | | | | \$ 209,800 | |
| | | | | | |
| Capacity for standard lift station to produce 2.5 fps in 4" forcemain = | | | 100 | gpm | |
| ESFR Capacity per lift station = | | | 900 | esfr | Does not account for peak flows. |
| Capital Facilities Fee/Esfr per Lift Station= | | | \$ 233 | per esfr | Pay based on how many lift stations you flow through. |

Attachment 7
TUD Wastewater Ordinance Exhibit A
Demand Factor Table

EXHIBIT A

CLASSIFICATION OF USERS AND BASIS FOR DETERMINATION OF WASTEWATER VOLUME DISCHARGE DEMAND

| ESFR Classification | Unit | ESFR Capacity Factor |
|---|-----------------------------|----------------------|
| Residential | | |
| Single Family Residences (including MH not in park) | | |
| 1 Bedroom Home, Accessory Dwelling, Studio | 1 Bedroom Home | 0.7 |
| 2 Bedrooms | 2 Bedroom Home | 0.7 |
| 3 Bedrooms | 3 Bedroom Home | 1.0 |
| 4 Bedrooms or more | 4 or More Bedroom Home | 1.5 |
| Apartment | | |
| | 2 or Less Bedroom Apartment | 0.7 |
| | 3 Bedroom Apartment | 1.0 |
| Senior Only Apartment or MH in Park (2 bed) | | |
| Each unit with laundry washer | Apartments/MH | 0.4 |
| Each unit without laundry washer | Apartments/MH | 0.4 |
| Apartment or MHP Centralized Laundry Facility | Units (Served by Machines) | 0.04 |
| Temporary Occupancy | | |
| Bed and Breakfast | Rooms | 0.3 |
| Campground or RV Park with Central Facilities | By Calculation | |
| RV with Individual Hookup | By Calculation | |
| Motels and Hotels | Rooms | 0.5 |
| Retail and Commercial | | |
| Automobile Repair Shop | Bays | 0.2 |
| Bakeries, Catering, Cottage Food | Employee | 0.7 |
| Beauty Salons | Stations | 0.1 |
| Bars, Card Rooms, Saloons | Seats | 0.1 |
| Car Wash Drive Thru | By Calculation | |
| Car Wash Self-Serve | Stall | 1.5 |
| Continued on next page | | |

| ESFR Classification | Unit | ESFR Capacity Factor |
|--|-------------------------------|----------------------|
| Gas Station | | |
| Without food prep | Pumps | 0.2 |
| With food prep | Pumps | 0.6 |
| Grocery Store | By Calculation | |
| Gyms and Health Clubs | By Calculation | |
| Laundry Self-Serve | Machine | 0.6 |
| Laundry, Commercial | By Calculation | |
| Live Performance Theater, Indoor | Max Seats | 0.01 |
| Movie Theater | Max Seats | 0.01 |
| Professional Offices | Employees | 0.2 |
| Restaurants | | |
| Fast Food with disposable service ware | Seats | 0.09 |
| Dine-in | Seats | 0.09 |
| Coffee Shops | Seats | 0.09 |
| Coffee Kiosks | By Calculation | |
| Retail | | |
| Small (SF<10,000) | Flat Fee | 0.8 |
| Medium (10,000<SF<18,000) | Flat Fee | 1.8 |
| Large (SF<18,000) | Flat Fee | 4.0 |
| Note: Subject to review after 2 years. | | |
| Institutional and Medical | | |
| Daycare | Students/Staff | 0.01 |
| Dentist Office | Stations | 0.2 |
| Hospitals | By Calculation | |
| Long Term Care Facilities | Beds | 0.2 |
| Meeting Halls and Churches | Max Seats | 0.01 |
| Medical Clinic and Offices | Doctors/PA/Nurse Practitioner | 0.5 |
| Public Swimming Pools | By Calculation | |
| Public Restroom Facilities | Toilets/Stalls | 1.4 |
| Schools | | |
| K-8 | Students/Staff | 0.03 |
| High Schools and Colleges | Students/Staff | 0.05 |
| | | |

Minimum ESFR Demand Factor for determination of Capacity Fees: 0.7 ESFR

Minimum ESFR Demand Factor for purposes of Monthly Billing: 1.0 ESFR

Attachment 8
Water/Sewer Service Application Fee Determination Sheet

Owner / Applicant Name: Owner Account #: _____Site Address: Street APN: 123-123-123**SECTION D: WATER CONNECTION FEE DETERMINATION**

ESFR = Equivalent Single Family Residence, 1 ESFR = 264 GPD

1. System: Sonora/Jamestown - SON Residential Fire: NO2. Basis: 1 Residence (Units) X 1.00 (ESFR/Unit) = 1.00 ESFR. GPD: 264

ESFR Determination: _____

| 3. | Fee Elements: | Fee Code | Account | Rate | X | ESFR Factor | Amount |
|----|---------------------------------|----------|---------|----------------------------|-------------|-------------|------------------------|
| a. | Administrative Fee ¹ | 150-F | 01-4880 | \$ <u>240</u> ¹ | | | \$ <u>240</u> |
| b. | Meter Charge | 150-F | 01-4880 | 1-inch meter | | | \$ <u>510</u> |
| c. | Water Capital Reserve Fund | 154-F | 01-4870 | \$ <u>1,210</u> | <u>1.00</u> | | \$ <u>1,210</u> |
| d. | Supply | 151-F | 01-4800 | \$ <u>1,040</u> | <u>1.00</u> | | \$ <u>1,040</u> |
| e. | Treatment | 152-F | 01-4820 | \$ <u>1,962</u> | <u>1.00</u> | | \$ <u>1,962</u> |
| f. | Storage | 153-F | 01-4830 | \$ <u>3,729</u> | <u>1.00</u> | | \$ <u>3,729</u> |
| g. | Lateral Construction Deposit | 150-F | 01-4880 | | | | \$ _____ |
| h. | Other: _____ | | | | | | \$ _____ |
| i. | Other: _____ | | | | | | \$ _____ |
| | ¹ Per connection | | | | | | |
| | | | | | | | \$ <u>8,691</u> |

SECTION E: SEWER CONNECTION FEE DETERMINATION ²

1 ESFR = 160 GPD

1. Basis: 1 Residence (Units) X 1.00 (ESFR/Unit) = 1.00 ESFR. GPD: 160

ESFR Determination: _____

| 2. | Fee Elements: | Fee Code | Account | Rate | X | ESFR Factor | Amount |
|----|---|----------|---------|----------------------------|-------------|-------------|------------------------|
| a. | Administrative & Inspection Fee ¹ | 450-F | 02-4880 | \$ <u>320</u> ¹ | | | \$ <u>320</u> |
| b. | Collection & Transmission | 451-F | 02-4810 | \$ <u>2,313</u> | <u>1.00</u> | | \$ <u>2,313</u> |
| c. | Treatment | 452-F | 02-4820 | \$ <u>2,634</u> | <u>1.00</u> | | \$ <u>2,634</u> |
| d. | Disposal | 453-F | 02-4850 | \$ <u>1,195</u> | <u>1.00</u> | | \$ <u>1,195</u> |
| e. | Lift Station Adder | 454-F | 02-4860 | \$ <u>303</u> | <u>0.00</u> | | \$ <u>0</u> |
| f. | Mi Wuk Collection ² | | | \$ _____ | | | \$ _____ |
| g. | Mi Wuk Treatment & Disposal ² | | | \$ _____ | | | \$ _____ |
| h. | Lateral Construction Deposit | 450-F | 02-4880 | \$ _____ | | | \$ _____ |
| i. | Other: _____ | | | | | | \$ _____ |
| j. | Other: _____ | | | | | | \$ _____ |
| | ¹ Per connection | | | | | | |
| | ² In Mi Wuk, fee elements a., e., f., & g. may apply | | | | | | |
| | | | | | | | \$ <u>6,462</u> |

By: Antonio J. RamirezDate: 10/11/2023