

**AGENDA FOR THE REGULAR MEETING OF THE
BOARD OF DIRECTORS OF THE
TEMESCAL VALLEY WATER DISTRICT
DECEMBER 17, 2019, 8:30 A.M. AT
THE DISTRICT'S ADMINISTRATIVE OFFICE
22646 TEMESCAL CANYON ROAD,
TEMESCAL VALLEY, CALIFORNIA 92883**

The following is a summary of the rules of order governing meetings of the Temescal Valley Water District Board of Directors:

AGENDA ITEMS

In case of an emergency, items may be added to the Agenda by a majority vote of the Board of Directors. An emergency is defined as a work stoppage; a crippling disaster; or other activity, which severely imperils public health, safety or both. Also, items, which arise after the posting of Agenda, may be added by a two-thirds vote of the Board of Directors.

PUBLIC COMMENT

Persons wishing to address a matter not on the Agenda may be heard at this time; however, no action will be taken until placed on a future agenda in accordance with Board policy.

NOTICE TO PUBLIC

All matters listed under the Consent Calendar will be voted upon by one motion. There will be no separate discussion of these items, unless a Board Member or member of the public requests that a particular item(s) be removed from the Consent Calendar, in which case, they will be considered separately under New Business.

**IF ANYONE WISHES TO SPEAK WITH THE BOARD
ABOUT ANY CONSENT CALENDAR MATTER(S),
PLEASE STATE YOUR NAME, ADDRESS,
AND APPROPRIATE ITEM NUMBER(S).**

AFFIDAVIT OF POSTING

I, Allison Harnden, Office Manager of the Temescal Valley Water District, hereby certify that I caused the posting of the Agenda at the District office at 22646 Temescal Canyon Road, Temescal Valley, California 92883 before December 14, 2019.

Allison Harnden, Office Manager

**AGENDA FOR REGULAR MEETING
December 17, 2019**

Page No.

1. **Roll Call and Call to Order.**
2. **Presentations and Acknowledgments.**
3. **Public Comment.**

BOARD ITEMS:

4. **Minutes of the November 26, 2019 Regular Meeting.** **6-8**
RECOMMENDATION: Approve Minutes as written.
5. **Payment Authorization Report.** **9-11**
RECOMMENDATION: Approve Report and authorize payment
of the November 26-December 17, 2019
invoices.
6. **Revenue & Expenditure Reports. (Unaudited).** **12 &**
a. Revenue & Expenditure Reports. **(to be distr.)**
RECOMMENDATION: Note and file.
7. **Trilogy Development.**
a. Homeowners Association update. **(-)**
b. Golf Course update. **(-)**
8. **Sycamore Creek Development.**
a. Project Update. **(-)**
b. 1738 homes to be built. 1698 houses occupied to date. 98% complete.

	<u>Page No.</u>
9. Retreat Development.	(-)
a. Project Update.	
10. Terramor Development (Forestar Toscana).	
a. Project Update.	(-)
b. 1443 homes to be built. 385 houses released to date.	
11. Harmony Grove (Griffin Homes).	(-)
a. Project Update.	
b. 50 homes to be built. 15 houses released to date.	
12. Water Utilization Reports.	13-25
RECOMMENDATION: Note and file.	
13. Sustainable Groundwater Management Act.	(-)
a. Project Update.	
14. Committee Reports.	
a. Finance/Legislation (Director Rodriguez).	(-)
b. Engineering/Operations (Director Myers).	(-)
c. Public Relations (Allison Harnden).	(-)
15. General Manager's Report.	
a. General Manager's Report.	26-27
b. Pacific Hydrotech Corporation Payment Request.	28-43
RECOMMENDATION: Authorize the payment of \$606,812.50 to Pacific Hydrotech as well as a retention payment of \$31,937.50 to be deposited into an Escrow Account for a total of \$638,750.00.	

	<u>Page No.</u>
16. Operations Report. a. Water and Sewer Operations.	44-46
17. District Engineer's Report. a. Status of Projects.	47-48
18. District Counsel's Report.	(-)
19. Seminars/Workshops.	(-)
20. Consideration of Correspondence. An informational package containing copies of all pertinent correspondence for the Month of November will be distributed to each Director along with the Agenda.	49
21. Adjournment.	(-)

**MINUTES OF THE
REGULAR MEETING OF THE
TEMESCAL VALLEY WATER DISTRICT**

November 26, 2019

PRESENT

C. Colladay
P. Rodriguez
D. Harich
J. Butler
F. Myers

ABSENT

GUESTS

J. Watson
T. Davis
J. Sincich

STAFF

J. Pape
A. Harnden
M. McCullough
D. Saunders
J. Scheidel
P. Bishop

1. Roll Call and Call to Order.

The regular meeting of the Temescal Valley Water District was called to order by President Colladay at 8:30 a.m.

2. Presentations and Acknowledgments.

3. Public Comment.

BOARD ITEMS:

4. Minutes of the October 22, 2019 Regular Meeting.

ACTION: Director Myers moved to approve the minutes as presented. Director Butler seconded. Motion carried unanimously.

5. Payment Authorization Report.

ACTION: Director Rodriguez moved to approve the October 22-November 26, 2019 invoices. Director Harich seconded. Motion carried unanimously.

6. Revenue & Expenditure Reports. (Unaudited).

a. Revenue & Expenditure Reports.

ACTION: Note and file.

b. Lien update.

ACTION: Note and file.

7. **Trilogy Development.**
 - a. Homeowners Association update.
 - b. Golf Course update.

8. **Sycamore Creek Development.**
 - a. Project Update.
 - b. 1738 homes to be built. 1682 houses occupied to date. 97% complete.

9. **Retreat Development.**
 - a. Project Update.

10. **Terramor Development (Forestar Toscana).**
 - a. Project Update.
 - b. 1443 homes to be built. 342 houses released to date.

11. **Harmony Grove (Griffin Homes).**
 - a. Project Update.
 - b. 50 estimated homes to be built. 15 houses released to date.

12. **Water Utilization Reports.**

ACTION: Note and file.

13. **Sustainable Groundwater Management Act.**
 - a. Project Update – Director Rodriguez reported on their quarterly meeting.

14. **Committee Reports.**
 - a. Finance/Legislative (Director Rodriguez) – Director Rodriguez asked staff to schedule a meeting in January.
 - b. Engineering/Operations (Director Myers) – Director Myers reported on the committees modifications to the Capital Improvement Spreadsheet.
 - c. Public Relations (Allison Harnden) – Allison reminded the Board that the December meeting date was changed from the 24th to the 17th.

15. General Manager’s Report.

a. General Manager’s Report – The General Manager reported on current projects.

b. Purchase of District Backhoe.

ACTION: Director Harich moved to approve the additional \$14,935.34 in funds for the purchase of the backhoe. Director Rodriguez seconded. Motion carried unanimously.

16. Operations Report.

a. Water and sewer operations.

17. District Engineer’s Report.

a. Status of Projects.

18. District Counsel’s Report – Counsel reported that he is working with Go Co. Glen Ivy on their Sewer Capacity Agreement. He reminded the Board that he will not be in attendance at the December 17th meeting due to prior commitment.

19. Seminars/Workshops.

20. Consideration of Correspondence.

An informational package containing copies of all pertinent correspondence for the Month of October will be distributed to each Director along with the Agenda.

21. Adjournment.

There being no further business, the November 26, 2019 Regular Meeting of the Temescal Valley Water District Board of Directors was adjourned at 10:47 a.m. by President Colladay.

ATTEST:

APPROVED:

Paul Rodriguez, Secretary

Charles Colladay, President

Date: _____

Date: _____

TEMESCAL VALLEY WATER DISTRICT
Payment Authorization Report
December 17, 2019

Check #	Date	Payee ID	Payee	Amount	
23344	11/25/19	CO	CHARLES W. COLLADAY	301.07	
23345	11/25/19	DH	DAVID HARICH	243.87	
23346	11/25/19	FM	FRED H. MYERS	243.87	
23347	11/25/19	JB	JOHN B. BUTLER	246.37	
23348	11/25/19	RO	PAUL RODRIGUEZ	246.37	
23349	11/29/19	AD	PAYROLL	-	
23350	11/29/19	BE	PAYROLL	-	
23351	11/29/19	CG	PAYROLL	-	
23352	11/29/19	CL	PAYROLL	-	
23353	11/29/19	DB	PAYROLL	-	
23354	11/29/19	JH	PAYROLL	-	
23355	11/29/19	KN	PAYROLL	-	
23356	11/29/19	LK	PAYROLL	-	
23357	11/29/19	MM	PAYROLL	-	
23358	11/29/19	PB	PAYROLL	-	
23359	11/29/19	LK	PAYROLL	-	
23360	12/2/19	EL	EDUARDO LOPEZ-TRK MAINT	60.00	
23361	12/5/19	ACSI	ALEXANDER'S CONTRACT SERVICES, INC	5,475.80	
23362	12/5/19	BI01	BILL'S SWEEPING SERVICE, INC.	520.00	
23363	12/5/19	BT	BT PIPELINE INC.	15,475.00	FRWY AG LINE BREAK
23364	12/5/19	DHWS	D&H WATER SYSTEMS	6,357.25	
23365	12/5/19	DSC	DATABASE SYSTEMS CORP.	321.75	
23366	12/5/19	DU02	DUDEK & ASSOCIATES-SPECIAL PJTS	54,074.00	CAP-DAWSON RES DESIGN/GIS/SMP
23367	12/5/19	DU03	DUDEK & ASSOCIATES-PASS THRU	350.00	
23368	12/5/19	DU04	DUDEK & ASSOCIATES-ENGINEERING	34,285.11	CAP-TRI TANK/AG LINE REPAIR
23369	12/5/19	EASI	ENGINEERED AIR SERVICES, INC.	643.49	
23370	12/5/19	MCCO	MUROW CM	21,138.75	CAP-PLT EXPANSION
23371	12/5/19	MITI	MORR-IS TESTED IN	2,600.00	
23372	12/5/19	NC	NORTHSTAR CHEMICAL	4,708.43	
23373	12/5/19	PLM01	PARRA LANDSCAPE MAINTENANCE	2,198.75	
23374	12/5/19	PO07	POLYDYNE, INC.	11,799.44	
23375	12/5/19	QC	QUINN COMPANY	104,935.34	CAP-BACK HOE
23376	12/5/19	RE03	REGAN PAVING	2,500.00	

TEMESCAL VALLEY WATER DISTRICT
Payment Authorization Report
December 17, 2019

Check #	Date	Payee ID	Payee	Amount	
23377	12/5/19	SAQMDHB	SOUTH COAST AIR QUALITY MGT DIST	1,114.84	
23378	12/5/19	SBDI	STEHLY BROTHERS DRILLING, INC	61,067.00	CAP-WELL REHAB
23379	12/5/19	SEMA	SEMA INC.	716.54	
23380	12/5/19	SO03	SOUTHERN CALIF EDISON CO.	39,626.56	
23381	12/5/19	UN01	UNDERGROUND SERVICE ALERT	92.50	
23382	12/5/19	VA01	VALLEY CITIES/GONZALES FENCE	1,700.00	
23383	12/5/19	WA01	WASTE MANAGEMENT - INLAND EMPIRE	341.13	
23384	12/6/19		STATE OF CALIFORNIA	984.00	
23385	12/13/19	AD	PAYROLL	-	
23386	12/13/19	BE	PAYROLL	-	
23387	12/13/19	CG	PAYROLL	-	
23388	12/13/19	CL	PAYROLL	-	
23389	12/13/19	DB	PAYROLL	-	
23390	12/13/19	JH	PAYROLL	-	
23391	12/13/19	KN	PAYROLL	-	
23392	12/13/19	LK	PAYROLL	-	
23393	12/13/19	MM	PAYROLL	-	
23394	12/13/19	PB	PAYROLL	-	
23395	12/11/19	FI01	FIDELITY INVESTMENTS	700.00	
23396	12/13/19	FI01	FIDELITY INVESTMENTS	960.80	
23397	12/13/19	FI01	FIDELITY INVESTMENTS	747.00	
23398	12/13/19	FI01	FIDELITY INVESTMENTS	700.00	
23399	12/13/19	FI01	FIDELITY INVESTMENTS	236.23	
23400	12/13/19	CS01	CSDA - CAL.SPECIAL DISTR.ASSN	7,615.00	MEMBERSHIP FEE
23401	12/13/19	DU02	DUDEK & ASSOCIATES	2,574.00	
23402	12/13/19	GMDM	GUTIRREZ MAINTENANCE	350.00	
23403	12/13/19	MCCO	MUROW CM	15,163.75	CAP-PLT EXPANSION
23404	12/13/19	NC	NORTHSTAR CHEMICAL	7,124.45	
23405	12/13/19	ST01	STAPLES CREDIT PLAN	998.06	
23406	12/13/19	TR012	TRAN CONTROLS SCADA SOLUTIONS, LL	22,783.02	CAP-PLT EXPANSION
23407	12/13/19	VA01	VALLEY CITIES/GONZALES FENCE	400.00	
Total				<u>\$ 434,719.54</u>	

TEMESCAL VALLEY WATER DISTRICT
Payment Authorization Report
December 17, 2019

Check #	Date	Payee ID	Payee	Amount
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THESE INVOICES ARE SUBMITTED TO THE
TEMESCAL VALLEY BOARD OF DIRECTORS FOR
APPROVAL AND AUTHORIZATION FOR PAYMENT

Mel McCullough - Finance Manager

Mel McCullough - Finance Manager

12/17/19

Date



**CALIFORNIA STATE TREASURER
FIONA MA, CPA**



PMIA Performance Report

Date	Daily Yield*	Quarter to Date Yield	Average Maturity (in days)
11/11/19	2.12	2.18	214
11/12/19	2.12	2.17	212
11/13/19	2.11	2.17	212
11/14/19	2.10	2.17	213
11/15/19	2.10	2.17	216
11/16/19	2.10	2.17	216
11/17/19	2.10	2.17	216
11/18/19	2.10	2.16	215
11/19/19	2.10	2.16	214
11/20/19	2.09	2.16	212
11/21/19	2.08	2.16	213
11/22/19	2.08	2.16	212
11/23/19	2.08	2.16	212
11/24/19	2.08	2.16	212
11/25/19	2.08	2.15	212
11/26/19	2.08	2.15	211
11/27/19	2.07	2.15	220
11/28/19	2.07	2.15	220
11/29/19	2.07	2.15	220
11/30/19	2.07	2.15	218
12/01/19	2.07	2.15	217
12/02/19	2.07	2.15	219
12/03/19	2.07	2.14	218
12/04/19	2.07	2.14	218
12/05/19	2.06	2.14	219
12/06/19	2.06	2.14	221
12/07/19	2.06	2.14	221
12/08/19	2.06	2.14	221
12/09/19	2.06	2.14	223
12/10/19	2.06	2.14	224
12/11/19	2.05	2.13	225

*Daily yield does not reflect capital gains or losses

[View Prior Month Daily Rates](#)

LAIF Performance Report

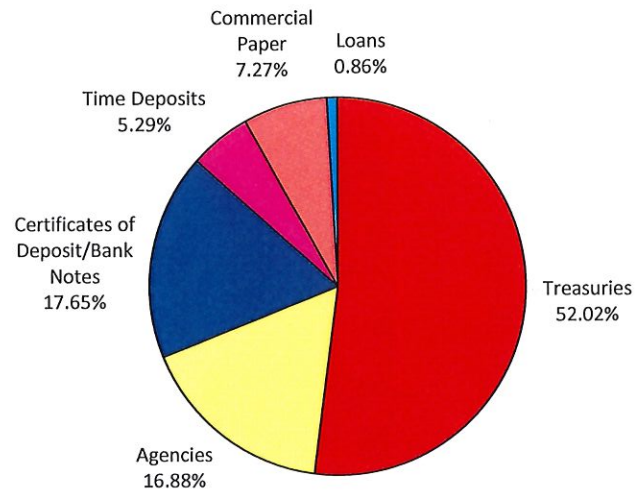
Quarter Ending 09/30/19

Apportionment Rate: 2.45
 Earnings Ratio: .00006701807521016
 Fair Value Factor: 1.001642817
 Daily: 2.25%
 Quarter to Date: 2.34%
 Average Life: 185

PMIA Average Monthly Effective Yields

Nov 2019 2.103
 Oct 2019 2.190
 Sep 2019 2.280

**Pooled Money Investment Account
Portfolio Composition
10/31/19
\$91.4 billion**

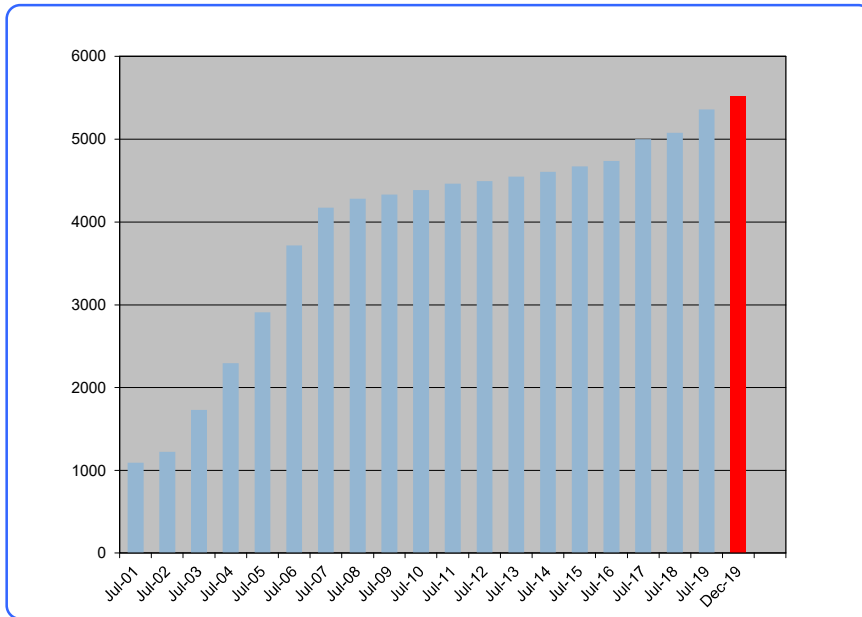


Percentages may not total 100% due to rounding

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).
 Based on data available as of 12/11/2019

**TEMESCAL VALLEY WATER DISTRICT
CUSTOMER COUNT PER YEAR(RESIDENTIAL)**
(Excludes SID#1 and SID#2 sewer customers)

DATE	Jul-01	Jul-02	Jul-03	Jul-04	Jul-05	Jul-06	Jul-07	Jul-08	Jul-09	Jul-10	Jul-11	Jul-12	Jul-13	Jul-14	Jul-15	Jul-16	Jul-17	Jul-18	Jul-19	Dec-19
CUSTOMERS	1090	1223	1729	2295	2910	3718	4173	4279	4332	4386	4463	4492	4547	4605	4670	4736	5000	5076	5358	5519



RESIDENTIAL	Total Homes	Completed Homes	
Wildrose Ranch	1043	1043	100%
Trilogy at Glen Ivy	1317	1317	100%
Painted Hills	204	204	100%
Canyon Oaks	26	26	100%
Montecito Ranch	306	306	100%
Sycamore Creek	1738	1698	98%
The Retreat	525	525	100%
Terramor	1443	385	27% 15 MODELS
Harmony Grove	50	15	30%
	<u>6652</u>	<u>5519</u>	83%

TOTAL CUSTOMER COUNT REPORT
November 30, 2019

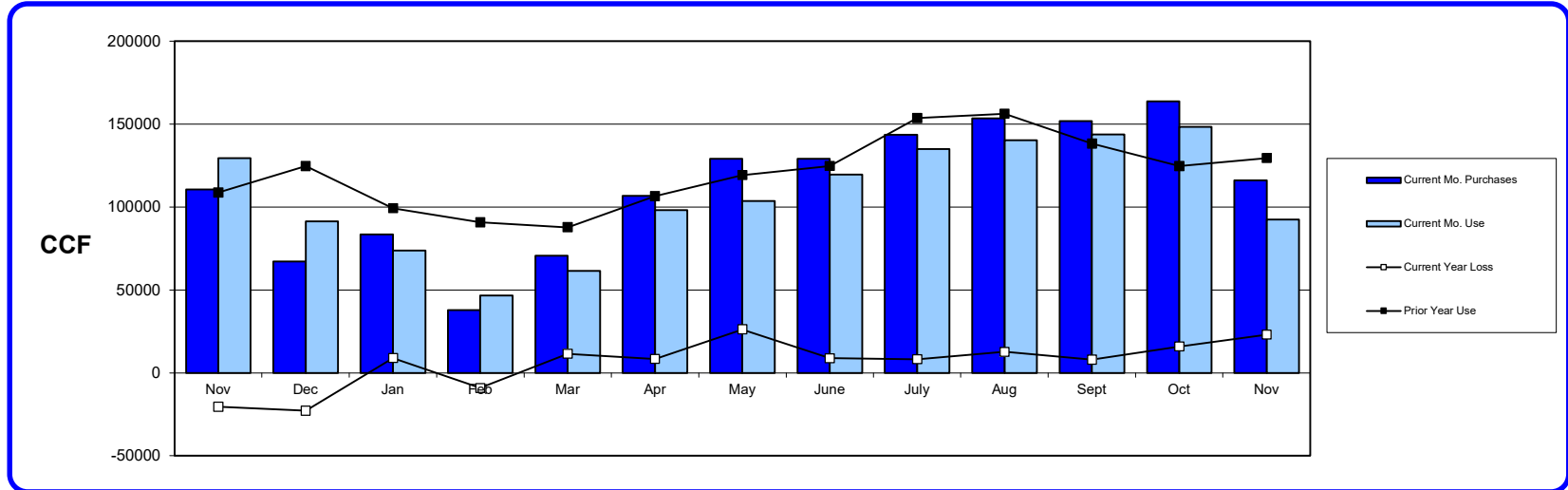
	Water & Sewer	Water Only	Sewer Only	Count
New homes added 42 Accts closed/transf 44 Empty Homes 10			Butterfield (305) Calif. Meadows (345)	
Residential	5440	2	650	6092
Commercial	90	0	2	92
Commercial-fireheld inactive	41			41
Public Govt	4	1	0	5
Irrigation-Industrial	0	70	0	70
Non-Potable Water other	0	155	0	155
Construction-Bulk Sales	0	22	0	22
Total Active Customers	5575	250	652	6477

DELINQUENT REPORT

Meters Read - Customers Billed	5784	
Received Delinquent Notice on current bill	400	6.92%
Turned Off for lack of payment	13	0.22%
Customers turned back on, amount paid	10	0.17%

WATER USAGE REPORT FOR THIRTEEN MONTHS

	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	TOTAL
Beg Water Levels	10154	11560	10429	11083	11571	9302	9628	9628	9628	9628	9628	9628	9628	
Ending Water Levels	11560	10429	11083	11571	9302	9628	8895	9746	10279	10771	10908	10430	11025	
Cur Yearly Purchases	110566	67220	83505	37941	70688	106748	129147	129147	143604	153486	151898	163770	116068	1463788
Cur Yr Monthly Use	129569	91254	73902	46657	61401	98045	103672	119497	134958	140366	143820	148423	92435	1383999
Prior Yr Monthly Use	108702	124709	99305	90737	87771	106589	119302	124735	153700	156286	138302	124684	129569	1564391

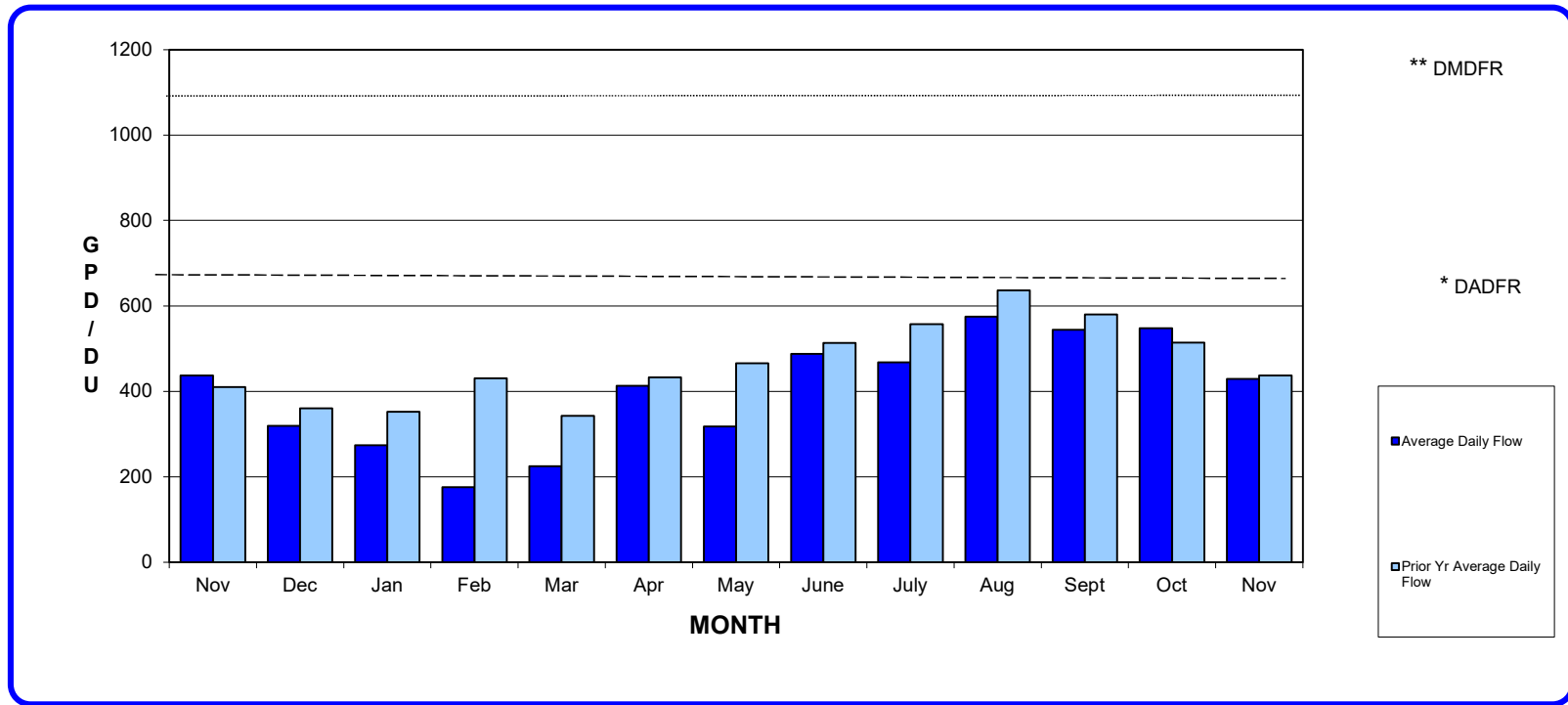


KEY
2017-2018
2018-2019
2019-2020

SUMMARY	CCF
Beginning Water in System	10154 CCF
Water Purchased in last 13 months	1463788 CCF
Water Used in last 13 months	1383999 CCF
Water Remaining in System	11025 CCF
(Loss)/Gain over last 13 months	(78918) CCF
	-5.39%

RESIDENTIAL WATER USAGE AVERAGE DAILY FLOW (GALLONS per DAY per RESIDENTIAL DWELLING UNIT CONNECTED)

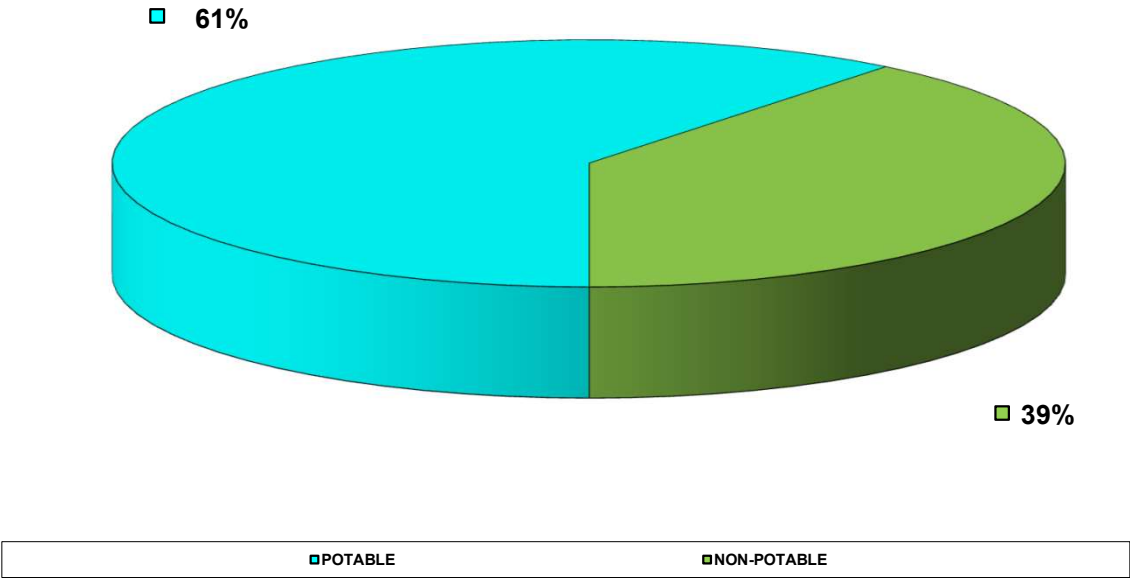
	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	YEARLY AVERAGE
Average Daily Flow	437	319	274	176	225	413	318	488	468	575	544	547	429	398
Prior Yr Average Daily Flow	410	360	352	430	343	433	466	513	557	636	580	514	437	468



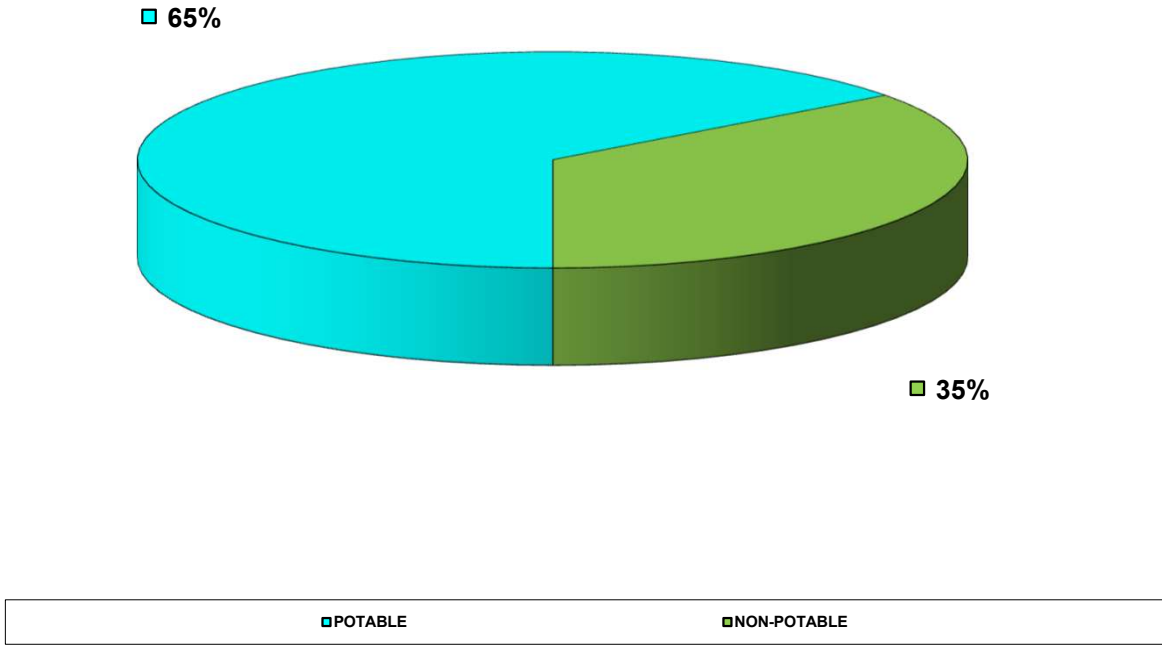
Key
2016-2017
2017-2018
2018-2019
2019-2020

* DESIGN AVERAGE DAILY FLOW RATE IN GPD (650)
 ** DESIGN MAXIMUM DAILY FLOW RATE IN GPD (1140)

**Temescal Valley Water District
Volume of Water Sold
For Five Months Ending November 30, 2019
F/Y 2019-2020**

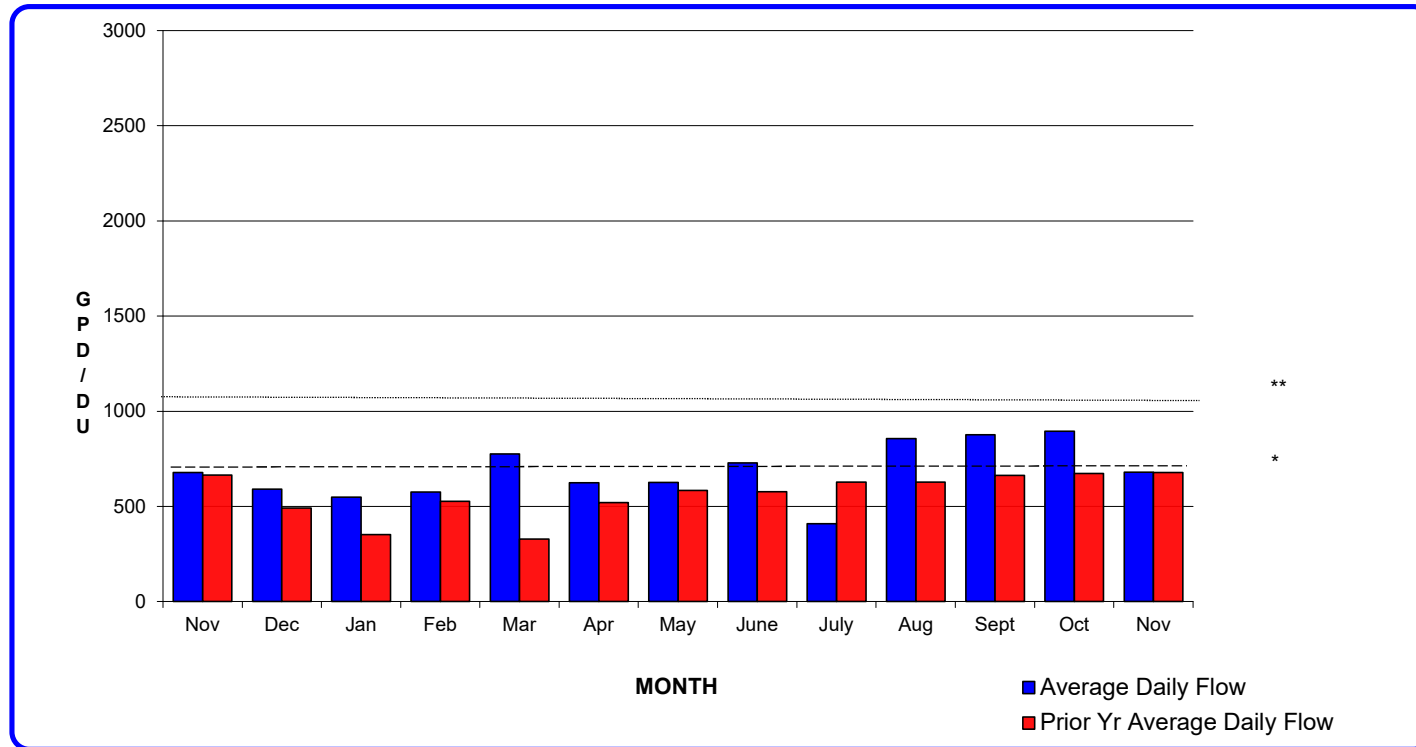


**Temescal Valley Water District
Water Volume Sold
For F/Y 2018-2019
Twelve Months**



**COMMERCIAL WATER USAGE
AVERAGE DAILY FLOW
(GALLONS per DAY per COMMERCIAL DWELLING UNIT CONNECTED)**

	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	YEARLY AVERAGE
Average Daily Flow	678	591	548	576	776	624	626	729	408	856	877	896	679	682
Prior Yr Average Daily Flow	664	491	352	527	329	521	583	577	627	627	663	673	678	950

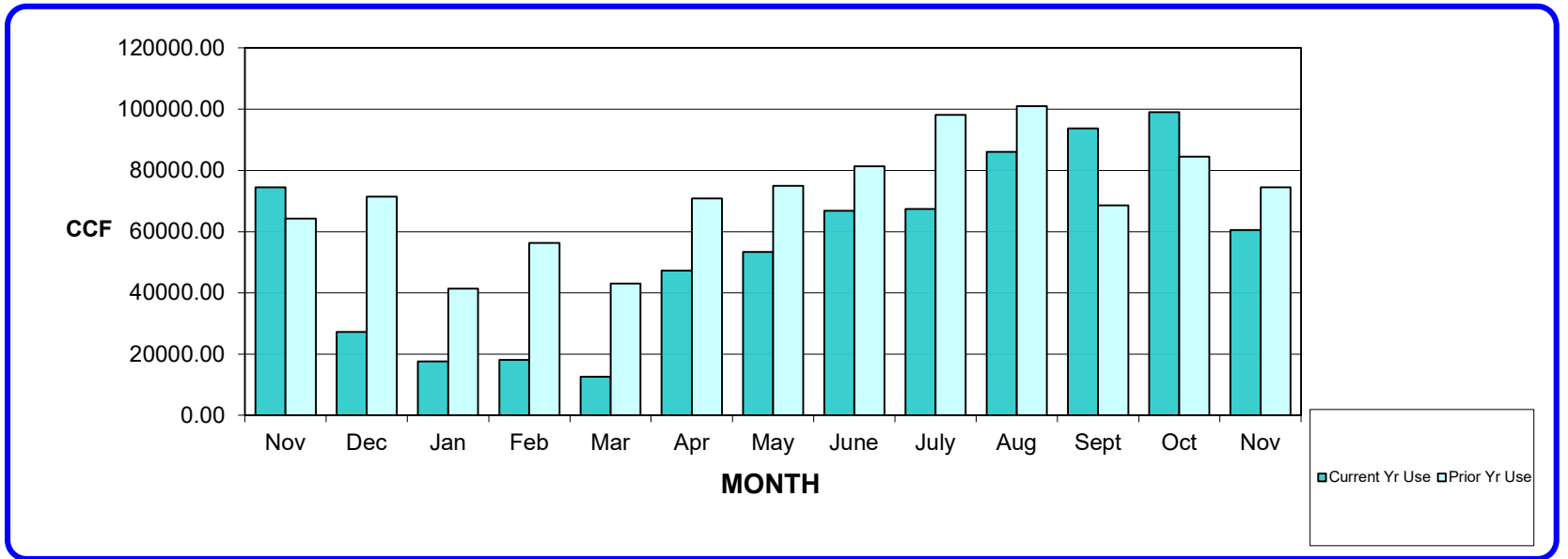


Key
2016-2017
2017-2018
2018-2019
2019-2020

- * DESIGN AVERAGE DAILY FLOW RATE IN GPD (650)
- ** DESIGN MAXIMUM DAILY FLOW RATE IN GPD (1140)

RECYCLED AND NON-POTABLE WELL WATER MONTHLY FLOW (ccf)

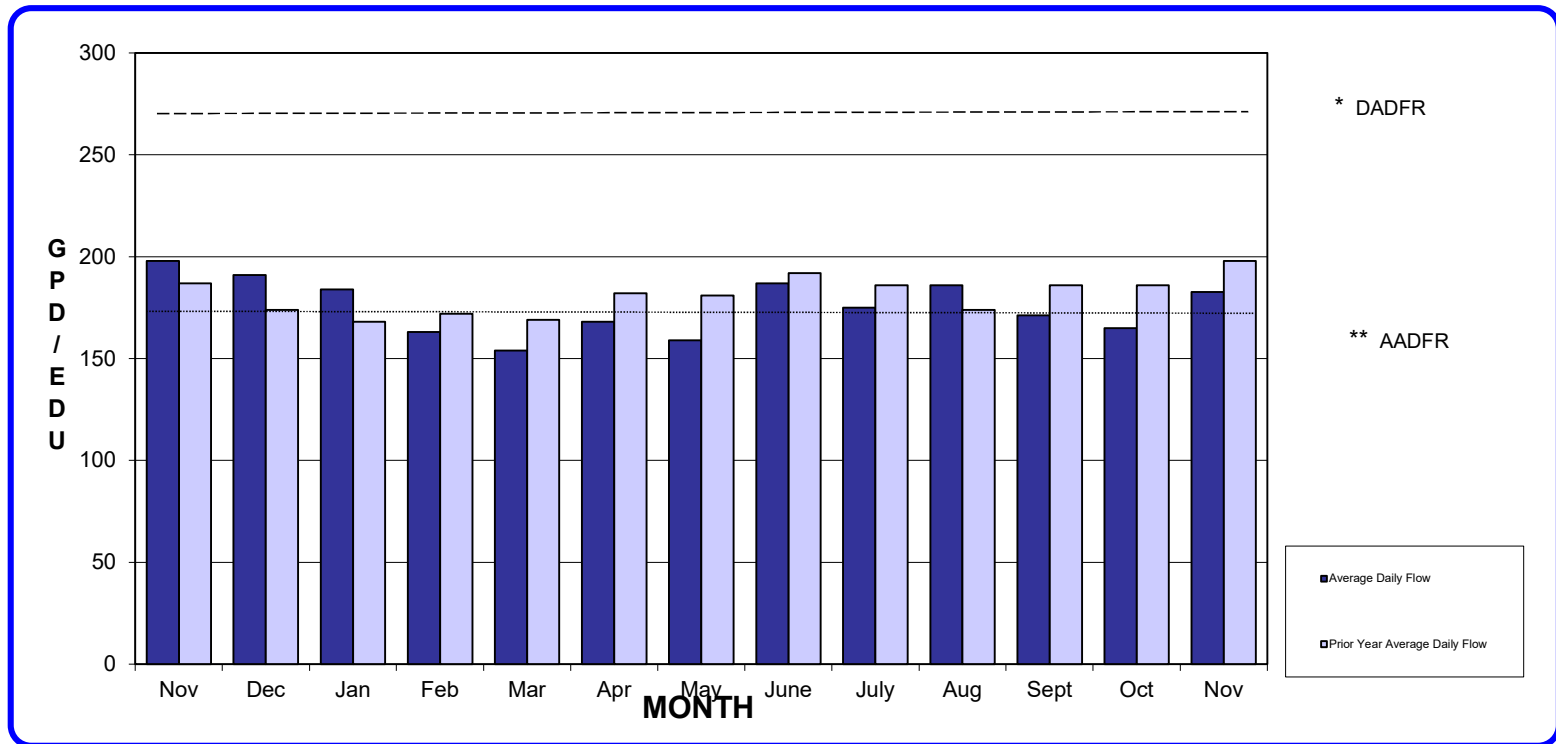
	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
Current Yr Use	74461.87	27296.00	17558.51	18076.74	12612.78	47287.45	53401.21	66847.21	67458.40	86056.00	93701.87	99015.59	60473.74
Prior Yr Use	64288.64	71437.89	41374.89	56321.00	43054.20	70816.32	74999.30	81380.55	98207.89	101012.78	68554.80	84552.12	74461.87
Revenue	\$2,422	\$94,379	\$58,997	\$60,614	\$48,432	\$135,906	\$143,871	\$179,818	\$181,463	\$186,783	\$234,758	\$256,161	\$185,101



Key
2017-2018
2018-2019
2019-2020

RESIDENTIAL & COMMERCIAL SEWER USAGE AVERAGE DAILY FLOW (GALLONS per DAY per DWELLING UNIT)

	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	12-Month Average
Average Daily Flow	198	191	184	163	154	168	159	187	175	186	171	165	183	190
Prior Year Average Daily Flow	187	174	168	172	169	182	181	192	186	174	186	186	198	181



Key
2017-2018
2018-2019
2019-2020

** ACTUAL AVERAGE DAILY FLOW RATE IN GPD

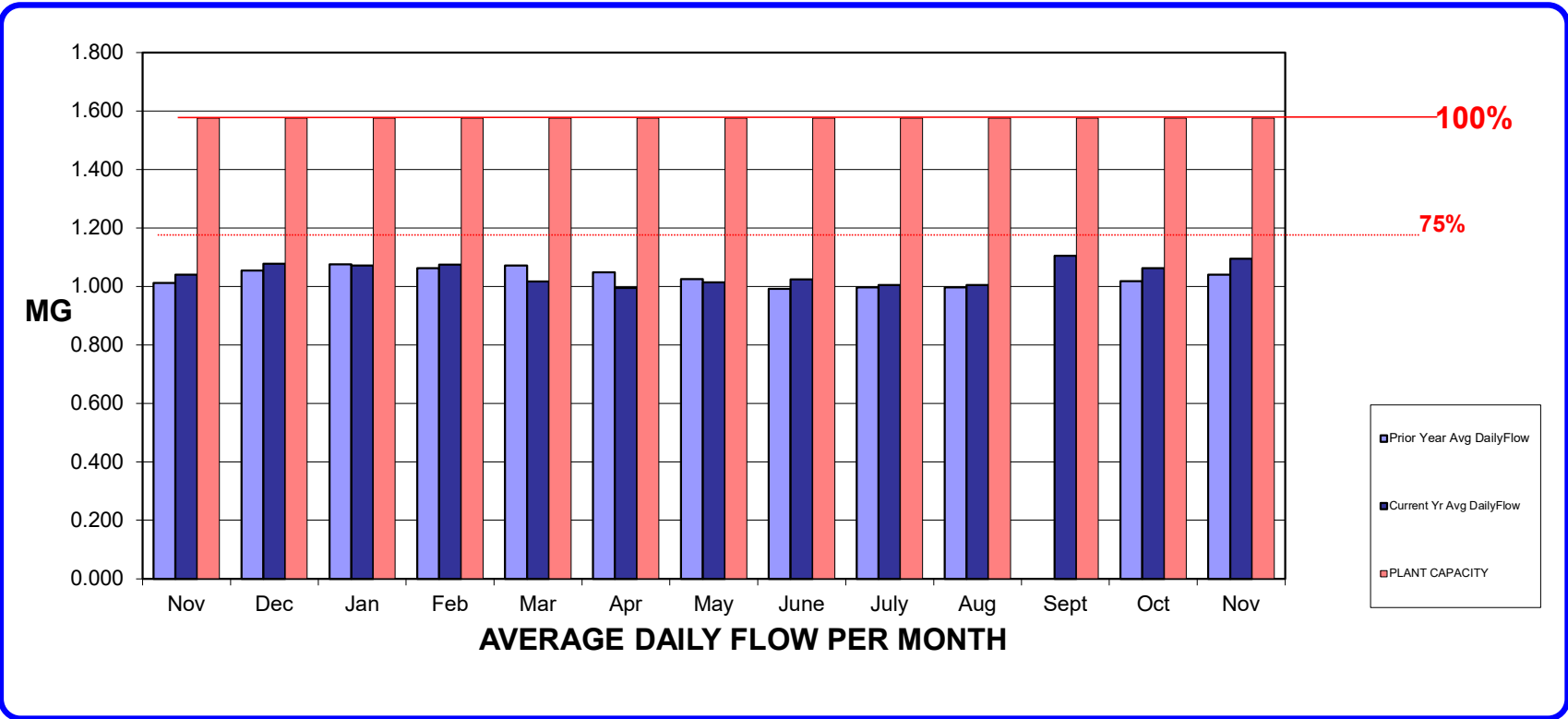
RECLAMATION PLANT FLOW REPORT

AVERAGE DAILY FLOW (Million Gallons)

Key
2017-2018
2018-2019
2019-2020

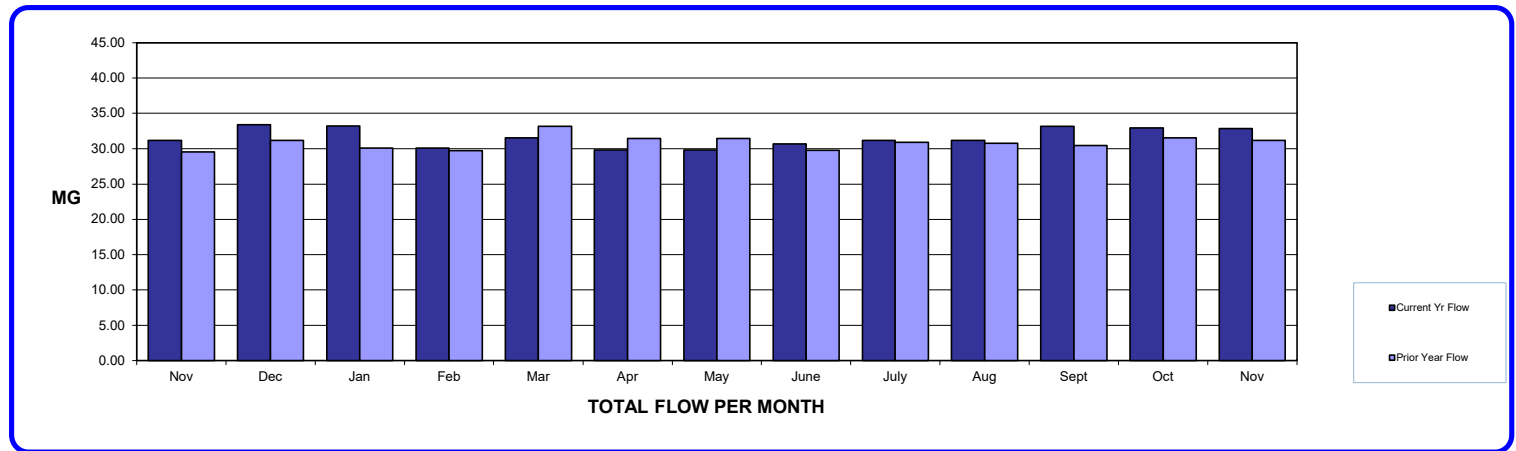
	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov
Current Yr Avg DailyFlow	1.0400	1.0770	1.0720	1.0750	1.0170	0.9940	1.0140	1.0240	1.0050	1.0050	1.1050	1.0620	1.0950
Prior Year Avg DailyFlow	1.0120	1.0540	1.0760	1.0620	1.0710	1.0490	1.0250	0.9920	0.9970	0.9970	Current Y	1.0180	1.0400

PLANT CAPACITY 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575 1.575



RECLAMATION PLANT DISCHARGE REPORT MONTHLY FLOW (Million Gallons)

	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Total/yr
Current Yr Flow	31.19	33.38	33.21	30.11	31.53	29.82	29.82	30.71	31.17	31.16	33.15	32.92	32.84	379.82
Prior Year Flow	29.55	31.15	30.07	29.73	33.19	31.46	31.46	29.75	30.90	30.75	30.46	31.55	31.19	371.66
Potential Revenue	\$139,906	\$138,187	\$147,820	\$142,984	\$88,961	\$93,156	\$88,104	\$119,190	\$122,747	\$124,586	\$132,500	\$131,581	\$131,581	\$1,461,397

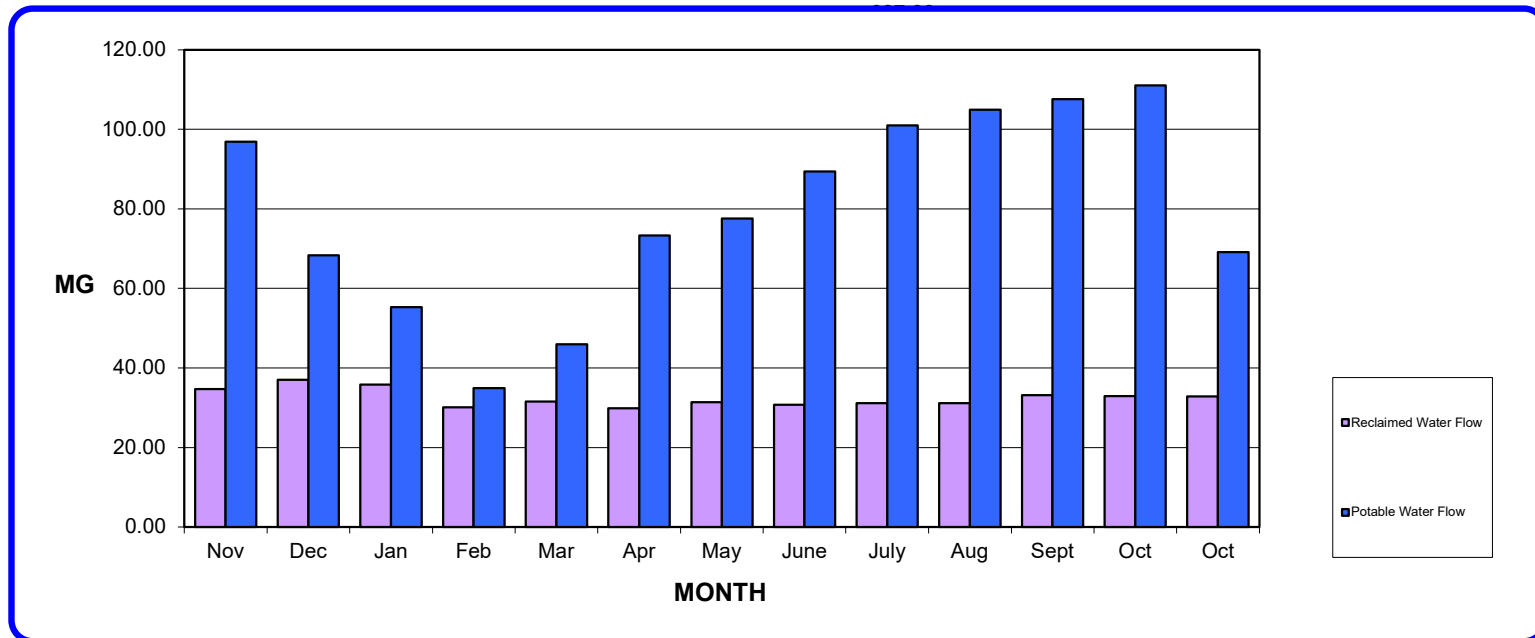


Key
2017-2018
2018-2019
2019-2020

Note - recycled water only

RECLAIMED WATER VERSUS POTABLE WATER MONTHLY FLOW (Million Gallons) FOR THE MONTH OF JULY 2019

	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Oct
No. of Sewer Dwelling Units Connected	6088	6230	6268	6265	6247	6253	6298	6456	6456	6366	6371	6413	6423
Reclaimed Water Flow	34.67	36.98	35.77	30.11	31.54	29.83	31.43	30.71	31.17	31.16	33.15	32.92	32.84
Potable Water Flow	96.92	68.26	55.28	34.90	45.93	73.34	77.55	89.38	100.94	104.99	107.58	111.02	69.14



Month	Wildrose(2)	Montecito(3)	Trilogy(4)	Painted Hills(5)	Syc Crk(6)	Retreat(7)	Terramor(8)	Harmony Gr	Avg All Resid	AVG	TOTAL		
										IND-BK / IRR (1)	RECYCLED	NONPOT-Other	NONPOT-Trilogy Golf
AVG '07-'08	18.1	32.7	15.9	32.2	21.7	37.1	0.03	-	25.9	106.6			
AVG '08-'09	24.6	33.8	17.0	33.3	32.6	40.8	-	-	25.4	53.3			
AVG '09-'10	21.9	30.0	15.8	30.2	26.3	38.0	-	-	23.0	51.7			
AVG '10-'11	20.6	27.6	15.5	25.8	25.1	35.2	-	-	22.3	36.0			
AVG '11-'12	21.0	27.9	15.9	27.3	24.7	34.0	-	-	22.5	82.3			
AVG '12-'13	21.9	31.3	15.6	27.5	23.6	30.5	-	-	22.9	190.0			
AVG '13-'14	22.5	33.8	16.5	28.2	24.5	30.6	-	-	23.0	9.8			
AVG '14-'15	20.7	28.4	15.4	26.8	21.9	28.2	-	-	21.2	62.8			
AVG '15-'16	17.4	21.3	10.6	22.4	16.9	24.3	-	-	16.5	105.4	38,401.9	4,639.1	18,977.2
AVG '16-'17	18.4	26.4	16.7	24.8	18.5	27.1	26.4	-	19.4	211.0	46,977.4	8,442.6	16,068.4
AVG '17-'18	18.2	22.9	14.0	25.4	18.4	27.1	16.0	-	18.8	378.4	48,106.6	4,904.8	16,348.5
AVG '18-'19	20.3	26.4	15.7	27.1	19.2	27.3	12.9	0.3	19.5	145.9	39,101.6	4,511.4	12,445.3

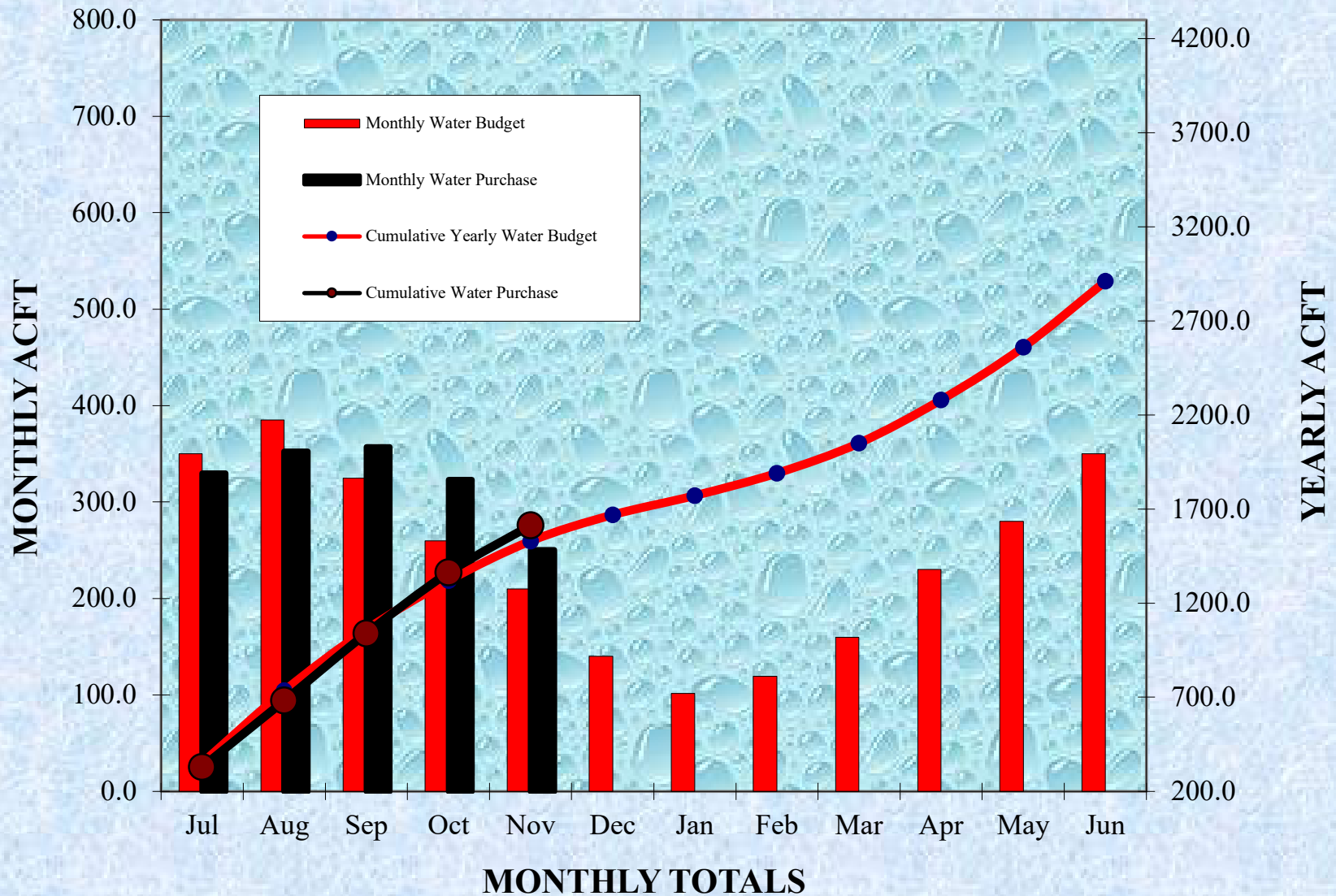
AMOUNTS IN UNITS (CCF) (ONE UNIT = 748 GALS.)

Jul-19	24.9	31.6	20.5	40.9	22.3	29.4	13.9	4.1	23.9	2,709.2	50,645.8	5,744.2	20,891.3
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WHOLESALE BUDGET vs PURCHASE

Water Year July 2019 through June 2020

2900 ACFT PROJECTION)





December 17, 2019

Board of Directors
Temescal Valley Water District

RE: General Manager's Report

Dear Board:

The following is a brief status report on a number of issues that I have been involved in since the last meeting.

- Working on non-potable water supply improvements
 - Park Canyon Drive RW line – The property has been sold and I am working with the new owners to get the necessary easements.
- Working on Conservation opportunities and RW/NP conversion locations
 - New District programs for turf and nozzles
- Working with Land Developers on water and sewer fees for multiple infill projects.
 - Deleo adjacent to Tom's Farms – no news
 - Forest Boundary –home building continues
 - Retreat Infill – Kiley Court – Plans signed
 - Temescal Canyon Road at Campbell Ranch Road – JCFA completed
 - Kiley Family Trust Property – Tract Map Stage
- Terramor CFD – CFD 4 annexation of Phase 2 completed
- Terramor Review:
 - RW and Potable Tank –In Construction –Punch list work continues
- Terramor Onsite Water, Sewer and RW improvements
 - Work continues Improvement Area 2 – Richmond America
- Sycamore Creek:
 - TM 36317 Water Sewer and RW improvement plans – TVWD infrastructure is 90% complete – Booster SP complete, accepted by the District and in operation.
- WRF 225K GPD upgrade
 - Submittal review continues and contractor on site – working on new electrical feed, Bypass Vault and Digester.
- 10 " Pipe line break in Caltrans ROW
 - Isolated, Cut the ends off and TV'd to find hole – Seeking Caltrans permission to fix.
 - Received Temporary and 3-week Caltrans Encroachment 10/14
 - Pulled Carrier on 10/16, cleaned Casing 10/117, Video inspect 10/17.
 - Submitted new application to Insitu sleeve existing Casing 11-18-19
 - Fixed steel casing extension 11-21-19
 - Final Caltrans encroachment permit received 12-11-19
 - Epoxy liner scheduled for Dec 18th



- Carrier pipe scheduled for Jan 6th 2020

MEMORANDUM

DATE: December 17, 2019

TO: Board of Directors
Temescal Valley Water District

FROM: General Manager

SUBJECT: Project: Phase IV Water Reclamation Facility Expansion Project –Payment Request
Contractor: PACIFIC HYDROTECH CORPORATION
TVWD CAP Project No.:S-1-2015

BACKGROUND

The District approved the bid with Pacific Hydrotech Corporation in the amount of \$16,444,500.00

Project Summary

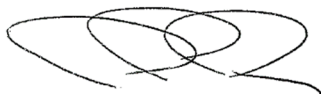
Contract -	\$16,444,500.00
Earned to Date -	\$638,750.00
5% retention -	\$ 31,937.50
Earned less retention -	\$606,812.50
Paid to date -	<u>\$0</u>
DUE -	\$ 638,750.00

RECOMMENDATION

It is recommended that the Board of Directors:

1. Authorize the payment of \$638,750.00 which is a current payment of \$606,812.50 to the Contractor and a retention payment of \$31,937.50 to be deposited in an Escrow Account.

Respectfully submitted,



Jeff Pape
General Manager

**EXHIBIT B
TVWD SEWER TREATMENT PLANT EXPANSION**

	Actual		Paid/responsibility	
			TVWD	Forestar
Generator Replacement				
Generator Replacement	\$ 415,400.00	ACS Engineering Contract	\$ 415,400.00	
Contingency 10%	\$ -			
Design Engineering 9%	\$ 46,150.00	By Dexter Wilson/Forestar		\$ 46,150.00
Plan Check	\$ 5,470.00	Estimated TVWD Inspection		\$ 5,470.00
CM and Inspection	\$ 26,250.00	Estimated Dudek Bidding	\$ 26,250.00	
	\$ 493,270.00			
SBR Controls And Equipment				
SBR Controls And Equipment	\$ 1,110,117.00	Parkson Corporation Contract	\$ 1,110,117.00	
Contingency 10%	\$ 111,011.70		\$ 111,011.70	
Design Engineering	\$ -	By Dexter Wilson/Forestar		
Plan Check & Inspection 4%	\$ 12,000.00	Estimated TVWD Inspection	\$ 12,000.00	
Construction Management 5%	\$ 15,000.00	Estimated Dudek Bidding	\$ 15,000.00	
	\$ 1,248,128.70			
Phase VI Treatment Plant Expansion				
Phase VI Treatment Plant Expansion	\$ 16,400,000.00			
10% Contingency	\$ 1,640,000.00			
Design Engineering	\$ 998,538.00	By Dexter Wilson/Forestar		\$ 998,538.00
Plan Check & Inspection				
Plan Check - TVWD	\$ 43,973.09	Paid By Forestar		\$ 43,973.09
Inspection - TVWD	\$ 60,000.00	Estimate - Non Process Equip.	\$ 60,000.00	
Construction Management				
Bidding	\$ 23,600.00	Bid Package - Murow	\$ 23,600.00	
Labor Compliance/Contract Admin	\$ 502,280.00	Murow-Sr CM, Assist CM, Snr PM	\$ 502,280.00	
Dexter Wilson	\$ 75,000.00	Bid RFI's, Constr. RCO, RFI's	\$ 75,000.00	
TVWD	\$ 50,000.00	Estimate - SCADA/Integrator	\$ 50,000.00	
	\$ 19,793,391.09			
Total	\$ 21,534,789.79		\$ 2,400,658.70	\$ 1,094,131.09
	\$ 31.90			
	\$ 8,294.88			

Paific Hydrotech Contract Summary

Contract Amount
Sum of Change Orders
Current contract Amount

EDUs	Cost Responsibility per Agreement	%	Splits	Paid or Responsibility	Due During Const	Funds on Hand	Delta
865.38	TVWD %	0.33333	\$ 7,178,263.26	\$ 2,400,658.70	\$ 4,777,604.56	\$ 4,777,604.56	\$ -
1,730.77	Forestar %	0.66667	\$ 14,356,526.53				
1,482.75	CFD Bond funding = 85.67%		\$ 12,299,236.28		\$ 12,299,236.28	\$ 9,847,409.00	\$ (2,451,827.28)
248.02	Developer =14.33%		\$ 2,057,290.25	\$ 1,094,131.09	\$ 963,159.16	0	\$ (963,159.16)
					\$ 18,040,000.00		\$ (3,414,986.44)

PAYMENT APPLICATION

TO: TEMESCAL VALLEY WATER DISTRICT
22646 TEMESCAL CANYON RD
CORONA CA 92883

PROJECT NAME AND LOCATION: C1916-WATER RECLAMATION PLANT
PHASE IV
22646 TEMESCAL CANYON RD
CORONA CA 92883

APPLICATION # 1
PERIOD THRU: 11/30/2019
Owner Project #:

Distribution to:
___ OWNER
___ ARCHITECT
___ CONTRACTOR

FROM: PACIFIC HYDROTECH CORPORATION
314 E. 3rd STREET
PERRIS CA 92570

OWNER: TEMESCAL VALLEY WATER DISTRICT
22646 TEMESCAL CANYON RD
CORONA CA 92883

DATE OF CONTRACT: 5/18/2019

CONTRACTOR'S SUMMARY OF WORK

Application is made for payment as shown below.
Continuation Page is attached

1. CONTRACT AMOUNT	16,444,500.00
2. SUM OF ALL CHANGE ORDERS	0.00
3. CURRENT CONTRACT AMOUNT (Line 1 + 2)	16,444,500.00
4. TOTAL COMPLETED AND STORED (Column G on Continuation Page)	638,750.00
5. RETAINAGE:	
A. 0% Of Completed Work (Columns D+ E on Continuation Page)	31,937.50
B. 0% of Material Stored (Column F on Continuation Page)	0.00
Total Retainage (Line 5a + 5b or Column I on Continuation Page)	31,937.50
6. TOTAL COMPLETED AND STORED LESS RETAINAGE: (Line 4 minus Line 5 Total)	606,812.50
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT:	0.00
8. CURRENT PAYMENT DUE:	606,812.50
9. BALANCE HELD BY OWNER: Line 3 - Line 6	15,837,687.50

SUMMARY OF CHANGE ORDERS	ADDITIONS	DEDUCTIONS
Total changes approved in previous months	0.00	0.00
Total approved this month	0.00	0.00
TOTALS	0.00	0.00
NET CHANGES	0.00	

Contractor's signature below: PACIFIC HYDROTECH CORPORATION

CONTRACTOR:

By: *Jonathan Hilber* Date: 12/9/19

State of:

County of:

Subscribed and sworn to before me this _____ day of _____

Notary Public:

My Commission Expires:

OWNER'S CERTIFICATION -

Owner's signature below:

Approved / MORROW DC - [Signature] 12/10/19

CERTIFIED AMOUNT:606,812.50

Owner: TEMESCAL VALLEY WATER DISTRICT

By: [Signature] Date: _____

Payment shall be made only to Contractor

PAYMENT APPLICATION DETAILS

Customer: TEMESCAL VALLEY WATER DISTRICT
Project: C1916-WATER RECLAMATION PLANT PHASE IV

Application Number: 1
For Period Ending: 11/30/2019

A	B	C	Work Completed			F	G		H	I
			From Previous Application	This Period Value	Total Percent this Period		Materials Presently Stored	Completed and Stored To Date		
Item Number - Description	Scheduled Value	From Previous Application	This Period Value	Total Percent this Period	Materials Presently Stored	Completed and Stored To Date	Total %	Balance To Finish	Retainage Value	
01	MOB, BONDS, SOV, PROJECT SCHEDULE	820,000.00	0.00	446,250.00	54.42%	0.00	446,250.00	54.42	373,750.00	22,312.50
01.01	BONDS AND INSURANCE	350,000.00	0.00	350,000.00	100.00%	0.00	350,000.00	100.00	0.00	17,500.00
01.02	MOBILIZE EQUIPMENT AND TEMP FACILITIES	325,000.00	0.00	81,250.00	25.00%	0.00	81,250.00	25.00	243,750.00	4,062.50
01.03	DEMOB EQUIPMENT AND TEMP FACILITIES	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
01.04	BASELINE SCHEDULE SUBMITTAL	20,000.00	0.00	10,000.00	50.00%	0.00	10,000.00	50.00	10,000.00	500.00
01.05	CONSTRUCTION SCHEDULING	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
01.06	PRECONSTRUCTION VIDEO	5,000.00	0.00	5,000.00	100.00%	0.00	5,000.00	100.00	0.00	250.00
01.07	MAINTAIN TEMP FACILITIES	60,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	60,000.00	0.00
02	SHEETING, SHORING, AND BRACING	6,100.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,100.00	0.00
02.01	TRENCH SHORING	6,100.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,100.00	0.00
03	EROSION CONTROL	55,700.00	0.00	8,000.00	14.36%	0.00	8,000.00	14.36	47,700.00	400.00
03.01	BMP INSTALLATION	20,000.00	0.00	8,000.00	40.00%	0.00	8,000.00	40.00	12,000.00	400.00
03.02	BMP MAINTENANCE	35,700.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,700.00	0.00
04	SURVEY	24,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	24,200.00	0.00
04.01	SURVEY	24,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	24,200.00	0.00
05	MAINTENANCE OF PLANT OPERATIONS	41,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	41,900.00	0.00
05.01	MAINTAIN PLANT FACILITY OPERATIONS	41,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	41,900.00	0.00
06	SCE CONDUIT AND PULL BOX INSTALLATION	231,100.00	0.00	157,750.00	68.26%	0.00	157,750.00	68.26	73,350.00	7,887.50
06.01	EXCAVATE AND BACKFILL FOR ELECTRICAL	95,000.00	0.00	90,250.00	95.00%	0.00	90,250.00	95.00	4,750.00	4,512.50
06.02	ELECT. DISCONNECT & REMOVAL OF WIRING	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
06.03	FURNISH & INSTALL PULL BOX PER DE0.0	12,500.00	0.00	12,500.00	100.00%	0.00	12,500.00	100.00	0.00	625.00
06.04	FURNISH & INSTALL SCE CONDUIT PER DE0.0	55,000.00	0.00	55,000.00	100.00%	0.00	55,000.00	100.00	0.00	2,750.00
06.05	INTERCEPT LIGHTING CONDUIT DE0.0 NOTE 13	3,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,500.00	0.00

06.06	REROUTE SBR ELECTRICAL DE0.0 NOTE 14	20,100.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,100.00	0.00
07	DEMO, REMOVAL, ABANDONMENT IN PLACE, ETC	142,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	142,600.00	0.00
07.01	DEMO SUB MOBILIZATION	4,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,000.00	0.00
07.02	DEMOLISH & REMOVE GRIT CHAMBER STRUCTURE	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
07.03	DEMO & REMOVE GRIT CHAMBER PUMPS & PADS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
07.04	DEMO & REMOVE GRIT CHAMBER ACCESS STAIRS	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
07.05	DEMO & REMOVE RETAINING WALL AT STAIRS	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
07.06	OTHER MISC DEMOLITION	23,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	23,600.00	0.00
08	YARD PIPING, VALVES, AND APPURTENANCES	1,453,900.00	0.00	4,000.00	0.28%	0.00	4,000.00	0.28	1,449,900.00	200.00
08.01	POTHOLE	40,000.00	0.00	4,000.00	10.00%	0.00	4,000.00	10.00	36,000.00	200.00
08.02	UNLOAD PIPE MATERIALS	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
08.03	16" SEDIMENTATION TANK BYPASS LINE	125,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	125,000.00	0.00
08.04	10" PEF - PS TO EX 16" GE (11 thru 18)	175,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	175,000.00	0.00
08.05	10" PEF - PS TO EX 16" GE (19 thru 25)	175,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	175,000.00	0.00
08.06	4" WHP PLANT WATER LINE @SED. BASIN	45,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,900.00	0.00
08.07	8" TD LINE @ SEDIMENTATION FILTER	62,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	62,000.00	0.00
08.08	4" SC LINE @ SEDIMENTATION BASIN	32,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	32,000.00	0.00
08.09	CLEANOUTS	18,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,000.00	0.00
08.10	4" PS/SC SCUM LINE TO DIGESTERS	85,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	85,000.00	0.00
08.11	INSTALL 12" OF PIPE FROM SBR TO PS	95,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	95,000.00	0.00
08.12	CORE EXISTING WETWELL	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00
08.13	12"/16"24" SE PIPING @ SBR's	145,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	145,000.00	0.00
08.14	12" WAS TO EXISTING PIPE	75,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	75,000.00	0.00
08.15	2" WATERLINE @ SBR's	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00
08.16	16" BP PIPE @ TERTIARY FILTERS	38,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	38,000.00	0.00
08.17	6" TD PIPE @ TERTIARY FILTERS	32,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	32,000.00	0.00
08.18	8" DIGESTED SLUDGE TO EX. PIPE @ DIG'S	78,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	78,000.00	0.00
08.19	4" BIOFILTER DRAIN TO PS	53,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	53,000.00	0.00
08.20	2" WHP LINE @ DIGESTERS	14,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	14,000.00	0.00
08.21	12" DRAIN LINE @ DRYING BEDS	42,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	42,000.00	0.00
08.22	EXC/SET/BACKFILL CATCH BASIN	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
08.23	TEST PIPES	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00

09	GRADING	454,900.00	0.00	22,750.00	5.00%	0.00	22,750.00	5.00	432,150.00	1,137.50
09.01	EXCAVATE INFLUENT VAULTS	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
09.02	FINE GRADE BOTTOM	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
09.03	BACKFILL INFLUENT VALVE VAULTS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
09.04	EXC. SEDIMENTATION BASIN & BIOFILTER	32,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	32,000.00	0.00
09.05	FINE GRADE BOTTOM (SBR)	8,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,000.00	0.00
09.06	BACKFILL SEDIMENTATION BASIN & BIOFILTER	32,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	32,000.00	0.00
09.07	EXCAVATE SEQUENCING REACTORS	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
09.08	FINE GRADE BOTTOM	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
09.09	BACKFILL REACTORS	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
09.10	EXCAVATE TERTIARY FILTERS	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
09.11	FINE GRADE BOTTOM	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
09.12	BACKFILL TERTIARY FILTERS	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
09.13	EXCAVATE DIGESTERS & BIOFILTER	65,000.00	0.00	22,750.00	35.00%	0.00	22,750.00	35.00	42,250.00	1,137.50
09.14	FINE GRADE BOTTOM	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
09.15	BACKFILL DIGESTERS & BIOFILTER	62,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	62,000.00	0.00
09.16	LOAD EXPORT TRUCKS	31,400.00	0.00	0.00	0.00%	0.00	0.00	0.00	31,400.00	0.00
09.17	EXPORT SPOILS	125,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	125,000.00	0.00
09.18	ROAD CLEAN UP	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
09.19	FINE GRADE	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
10	ASPHALT FINE GRADING, ETC.	219,100.00	0.00	0.00	0.00%	0.00	0.00	0.00	219,100.00	0.00
10.01	BASE MATERIALS	40,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	40,000.00	0.00
10.02	FINE GRADING FOR PAVEMENT	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
10.03	AC MATERIALS	60,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	60,000.00	0.00
10.04	AC PAVING	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
10.05	REDWOOD HEADER MATERIALS	2,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,600.00	0.00
10.06	REDWOOD HEADER INSTALLATION	9,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,500.00	0.00
10.07	COLD MILL	11,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	11,000.00	0.00
10.08	FOG SEAL	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
11	CONSTRUCTION SEQUENCING	48,700.00	0.00	0.00	0.00%	0.00	0.00	0.00	48,700.00	0.00
11.01	TEMPORARY BYPASS PIPING SYSTEM	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
11.02	INSTALL/REMOVE PIPING @ INFL PS	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
11.03	PATCH PRECAST WALL PENETRATION	3,700.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,700.00	0.00
11.04	TIE INS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
12	EQ BYPASS VAULT INCLUDING PIPING	153,700.00	0.00	0.00	0.00%	0.00	0.00	0.00	153,700.00	0.00
12.01	PROCURE PRECAST VAULT	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
12.02	PROCURE DIP AND VALVES @ VAULT	55,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	55,000.00	0.00
12.03	PURCHASE HANDRAIL	4,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,000.00	0.00
12.04	INSTALL HANDRAIL	3,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,000.00	0.00
12.05	EXCAVATE VAULT	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00

12.06	PREP SUBGRADE	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
12.07	SET VAULT	12,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,200.00	0.00
12.08	BACKFILL VAULT	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
12.09	PIPE AND APPURTENANCES INSIDE VAULT	17,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	17,000.00	0.00
12.10	PAINTING	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
13	INFLUENT PUMP STATION	339,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	339,300.00	0.00
13.01	PURCHASE PIPING @ INFLUENT PS	71,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	71,300.00	0.00
13.02	PURCHASE & INSTALL PUMPS @ INFLUENT PS	110,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	110,000.00	0.00
13.03	PURCHASE & INSTL HANDRAIL @ INFLUENT PS	9,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,000.00	0.00
13.04	MECHANICAL WORK @ INFLUENT PS	72,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	72,000.00	0.00
13.05	PAINTING	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
13.06	CONCRETE WORK @ INFLUENT PS	70,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	70,000.00	0.00
14	HEADWORKS WASHER/COMPACTOR, ETC.	263,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	263,800.00	0.00
14.01	PURCHASE AUGER	181,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	181,300.00	0.00
14.02	INSTALL AUGER	8,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,500.00	0.00
14.03	INSTALL TROUGH	10,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,500.00	0.00
14.04	PURCHASE AND INSTALL STEEL PIPE	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
14.05	PURCHASE AND INSTALL LADDER	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
14.06	MISC. MECHANICAL	28,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	28,000.00	0.00
14.07	REPAIR WALL	8,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,000.00	0.00
15	PRIMARY SEDIMENTATION TANK	3,190,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,190,200.00	0.00
15.01	LAYOUT AND FORM FOR FLOOR	150,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	150,000.00	0.00
15.02	POUR TANK FLOOR	550,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	550,000.00	0.00
15.03	ASSEMBLE/DISASSEMBLE WALL FORMS	120,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	120,000.00	0.00
15.04	FORM/POUR/STRIP WALLS	560,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	560,000.00	0.00
15.05	WALL CURING	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
15.06	POUR MASS FILL	31,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	31,000.00	0.00
15.07	PROCURE AND LAYOUT MECHANICAL EQUIPMENT	1,250,700.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,250,700.00	0.00
15.08	INSTALL DI ABOVE GRADE PIPING	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
15.09	INSTALL SLIDE GATES	17,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	17,500.00	0.00
15.10	INSTALL FLUMES	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
15.11	INSTALL CHAIN FLIGHTS AND MOTORS	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
15.12	INSTALL FRP TROUGHS	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
15.13	INSTALL SCUM COLLECTORS	13,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	13,000.00	0.00
15.14	INSTALL SLUDGE PUMPS	9,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,000.00	0.00
15.15	INSTALL PIPING IN SLUDGE GALLERY	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00

15.16	INSTALL PIPE SUPPORTS	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
15.17	SET STAIRCASE	18,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,000.00	0.00
15.18	SET RAILINGS	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00
15.19	DECK SHORING	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
15.20	INSTALL DOORS	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
15.21	HVAC	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
15.22	PAINTING AND COATING	250,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	250,000.00	0.00
15.23	WATERPROOFING	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
16	SED TANK & DIGESTERS BIOFILTER SYSTEMS	695,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	695,800.00	0.00
16.01	PROCURE BIOFILTER EQUIPMENT	250,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	250,000.00	0.00
16.02	EXCAVATE FOR BIOFILTERS	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
16.03	PREP SUBRADE	4,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,500.00	0.00
16.04	LAYOUT AND FORM FOR FLOOR	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
16.05	POUR FLOOR	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
16.06	STRIP FLOOR	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
16.07	FORM WALLS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
16.08	POUR WALLS	75,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	75,000.00	0.00
16.09	STRIP WALLS	14,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	14,800.00	0.00
16.10	CONCRETE CURING	2,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,000.00	0.00
16.11	PURCHASE AND INSTALL PIPING	65,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	65,000.00	0.00
16.12	PURCHASE AND INSTALL PIPE SUPPORTS	75,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	75,000.00	0.00
16.13	INSTALL EQUIPMENT AND MEDIA	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
16.14	INSTALL SS DUCTING	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
16.15	INSTALL WATERLINE AND SPRINKLERS	13,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	13,500.00	0.00
16.16	INSTALL PUMP	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
17	EQUALIZATION BASIN PUMP STATION	336,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	336,200.00	0.00
17.01	PLUG 16" LINE	2,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,000.00	0.00
17.02	PURCHASE AND INSTALL PUMPS	180,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	180,000.00	0.00
17.03	INSTALL GUIDE RAILS AND SUPPORTS	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
17.04	PURCHASE PIPING	115,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	115,000.00	0.00
17.05	INSTALL PIPE IN WETWELL	4,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,800.00	0.00
17.06	INSTALL ABOVE GRADE PIPE	11,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	11,800.00	0.00
17.07	CORE DRILL 12" SBR OVERFLOW	1,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,200.00	0.00
17.08	CONCRETE PAD	4,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,000.00	0.00
17.09	PAINTING AND COATING	9,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,900.00	0.00
18	SBR TANKS AND EQUIPMENT PADS	1,907,100.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,907,100.00	0.00
18.01	LAYOUT FLOOR	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
18.02	FORM FLOOR	115,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	115,000.00	0.00
18.03	INSTALL REBAR	250,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	250,000.00	0.00

18.04	POUR FLOOR	365,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	365,000.00	0.00
18.05	STRIP FLOOR	95,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	95,900.00	0.00
18.06	CURE FLOOR	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
18.07	ASSEMBLE/DISASSEMBLE WALL FORMS	125,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	125,000.00	0.00
18.08	FORM STRAIGHT WALLS	150,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	150,000.00	0.00
18.09	POUR STRAIGHT WALLS	238,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	238,000.00	0.00
18.10	STRIP STRAIGHT WALLS	90,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	90,000.00	0.00
18.11	CURE STRAIGHT WALLS	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
18.12	PATCH STRAIGHT WALLS	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
18.13	FORM THICKENED WALL	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
18.14	POUR THICKENED WALL	75,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	75,000.00	0.00
18.15	STRIP THICKENED WALL	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
18.16	CURE THICKENED WALL	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
18.17	PATCH THICKENED WALL	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
18.18	FORM WALKWAYS	18,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,500.00	0.00
18.19	POUR WALKWAYS	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
18.20	STRIP WALKWAYS	8,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,500.00	0.00
18.21	EQUIPMENT PADS	7,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,800.00	0.00
18.22	SET RAILINGS	35,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,900.00	0.00
18.23	LAYOUT PIPING	3,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,500.00	0.00
18.24	INSTALL 8" SLUDGE DRAIN LINE	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
18.25	INSTALL MUD VALVES	3,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,500.00	0.00
18.26	CONCRETE PADS @ BLOWERS	3,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,000.00	0.00
18.27	INSTALL ABOVE GRADE PIPING @ PUMPS	32,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	32,000.00	0.00
18.28	INSTALL ABOVE GRADE PIPING @ BLOWERS	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
18.29	INSTL ABOVE GRADE AIR PIPING @ SBR TANK	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
18.30	INSTALL ABOVE GRADE OVERFLOW PIPING	40,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	40,000.00	0.00
18.31	INSTALL PIPE SUPPORTS @ SBR TANKS	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
18.32	PAINTING	60,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	60,000.00	0.00
19	INSTALL OF OWNER FURNISHED SBR EQUIPMENT	164,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	164,200.00	0.00
19.01	ACQUIRE ANCHORAGE	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
19.02	UNLOAD OWNER FURNISHED EQUIPMENT	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
19.03	LAYOUT EQUIPMENT	8,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,000.00	0.00
19.04	INSTALL DECANTER SUPPORTS	10,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,500.00	0.00
19.05	INSTALL DECANTERS	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00

19.06	INSTALL INFL. SLUDGE COLL. PIPES (FRP)	28,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	28,000.00	0.00
19.07	INSTALL JET AERATION PIPE ASSEMBLY	18,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,200.00	0.00
19.08	INSTALL PIPE SUPPORTS	7,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,500.00	0.00
19.09	INSTALL 12" FILL LINE (FRP)	22,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	22,000.00	0.00
19.10	INSTALL JET MOTIVE PUMPS	8,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,500.00	0.00
19.11	INSTALL BLOWERS	14,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	14,000.00	0.00
20	TERTIARY FILTERS	585,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	585,300.00	0.00
20.01	LAYOUT FLOOR	3,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,500.00	0.00
20.02	FORM FLOOR	5,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,500.00	0.00
20.03	INSTALL REBAR	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
20.04	POUR FLOOR	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
20.05	STRIP FORMS	4,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,500.00	0.00
20.06	FORM WALLS	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
20.07	INSTALL REBAR	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
20.08	DRILL/SET DOWELS @ WALLS	10,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,300.00	0.00
20.09	FORM CHANNEL WALLS	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
20.10	GRATES AND RAILS	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
20.11	PAINTING AND COATING	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
20.12	MECHANICAL WORK @ TERTIARY FILTERS	425,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	425,000.00	0.00
21	TERTIARY FILTER AIR COMPRESSORS	33,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	33,900.00	0.00
21.01	ACQUIRE NEW AIR COMPRESSORS	29,400.00	0.00	0.00	0.00%	0.00	0.00	0.00	29,400.00	0.00
21.02	REMOVE OLD AIR COMPRESSORS	2,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,000.00	0.00
21.03	INSTALL NEW AIR COMPRESSORS	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
22	AEROBIC DIGESTERS	1,983,300.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,983,300.00	0.00
22.01	DRILL/SET DOWELS	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
22.02	LAYOUT SLAB	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
22.03	FORM FLOOR	130,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	130,000.00	0.00
22.04	INSTALL REBAR	215,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	215,000.00	0.00
22.05	POUR SLAB	250,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	250,000.00	0.00
22.06	STRIP SLAB	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
22.07	CURE SLAB	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
22.08	ASSEMBLE/DISASSEMBLE WALL FORMS	85,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	85,000.00	0.00
22.09	FORM WALLS	140,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	140,000.00	0.00
22.10	INSTALL REBAR	175,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	175,000.00	0.00
22.11	POUR WALLS	285,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	285,000.00	0.00
22.12	STRIP WALLS	80,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	80,000.00	0.00
22.13	CURE WALLS	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
22.14	SET RAILINGS	65,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	65,000.00	0.00

22.15	SET STAIRCASE	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
22.16	PAINTING AND COATING	351,800.00	0.00	0.00	0.00%	0.00	0.00	0.00	351,800.00	0.00
22.17	WATERPROOFING	55,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	55,000.00	0.00
23	AEROBIC DIGESTER MECHANICAL EQUIPMENT	1,598,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,598,900.00	0.00
23.01	LAYOUT EQUIPMENT	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
23.02	INSTALL DECANT SUPPORTS	2,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	2,500.00	0.00
23.03	PURCHASE & INSTALL DECANT PIPES AND ARM	75,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	75,000.00	0.00
23.04	INSTALL DIGESTER FOAM CONTROL PIPE	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
23.05	INSTALL FOAM CONTROL PIPE (4" DIP)	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
23.06	INSTALL FOAM SPRAY NOZZLES	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
23.07	PURCHASE AND INSTALL AIR PIPING (SST)	120,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	120,000.00	0.00
23.08	BUBBLER DIFFUSERS (5%)	3,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,500.00	0.00
23.09	BUBBLER DIFFUSERS (75%)	52,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	52,000.00	0.00
23.10	BUBBLER DIFFUSERS (10%)	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
23.11	BUBBLER DIFFUSERS (10%)	7,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	7,000.00	0.00
23.12	INSTALL COARSE BUBBLER DIFFUSERS	6,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,500.00	0.00
23.13	INSTALL PIPE SUPPORTS	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
23.14	INSTALL SLIDE GATES	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
23.15	PURCHASE AND INSTALL COVERS	125,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	125,000.00	0.00
23.16	PURCHASE AND INSTALL BLOWERS	220,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	220,000.00	0.00
23.17	INSTALL UNDERGROUND AIR PIPING	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00
23.18	INSTALL PIPING @ BLOWERS	12,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,500.00	0.00
23.19	INSTALL PUMPS	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
23.20	INSTALL DIGESTER PIPING @ PUMPS	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
23.21	INSTALL UNDERGROUND 6" WAS PIPE	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
23.22	INSTALL UNDERGROUND DI PIPING	5,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,000.00	0.00
23.23	PURCHASE AND INSTALL POLYMER SYSTEM	29,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	29,900.00	0.00
23.24	INSTALL WATER PIPE	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
23.25	INSTALL/REPL PIPING @ EXISTING DIGESTERS	12,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,500.00	0.00
23.26	PURCHASE SLUDGE PUMPS (6P-01 - 04)	80,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	80,000.00	0.00
23.27	PURCHASE PIPING @ DIGESTERS	200,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	200,000.00	0.00
23.28	PURCHASE SLUDGE EFFLUENT PUMP (6P-05)	15,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	15,000.00	0.00
23.29	CORE WALLS	3,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,000.00	0.00
23.30	INSTALL PIPING INSIDE TANKS	90,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	90,000.00	0.00
23.31	SET STAIRCASE	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00

23.32	SET RAILINGS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
23.33	TESTING AND STARTUP	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
23.34	PURCHASE AND INSTALL CANOPY	25,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	25,000.00	0.00
23.35	PAINTING AND COATING	290,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	290,000.00	0.00
24	INFLUENT PUMP STATION ELECTRICAL	18,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,900.00	0.00
24.01	ELECTRICAL MODIFICATIONS - INFLUENT PS	18,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,900.00	0.00
25	HEADWORKS ELECTRICAL	9,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,900.00	0.00
25.01	ELECTRICAL MODIFICATIONS - HEADWORKS	9,900.00	0.00	0.00	0.00%	0.00	0.00	0.00	9,900.00	0.00
26	PRIMARY SEDIMENTATION ELECTRICAL	308,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	308,000.00	0.00
26.01	F&I COND. & PLBOX PRIMARY SED. TANK	120,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	120,000.00	0.00
26.02	F&I CONDUIT PRIMARY SED. GALLERY	135,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	135,000.00	0.00
26.03	FURN. LIGHT FIX. PRIM. SED. TANK/GALLERY	18,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	18,000.00	0.00
26.04	IN STL LIGHT FIX. PRIM. SED. TANK/GALLERY	5,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	5,500.00	0.00
26.05	FURNISH ELECTRICAL SWGR - SED. TANK	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
26.06	IN STL ELECT. SWGR - SED. TANK/GALLERY	1,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	1,500.00	0.00
26.07	WIRING & TERMINATIONS - SED. TANK	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
26.08	WIRING & TERMINATIONS - SED. GALLERY	12,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	12,000.00	0.00
27	EQ BASIN ELECTRICAL	116,400.00	0.00	0.00	0.00%	0.00	0.00	0.00	116,400.00	0.00
27.01	FURNISH & INSTALL CONDUIT - EQ. BASIN	40,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	40,000.00	0.00
27.02	INST. NEW BREAKERS EX. PANELS - EQ BASIN	3,400.00	0.00	0.00	0.00%	0.00	0.00	0.00	3,400.00	0.00
27.03	F&I NEW TOSHIBA VFD - EQ BASIN	67,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	67,000.00	0.00
27.04	WIRING & TERMINATIONS - EQ BASIN	6,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	6,000.00	0.00
28	SBR ELECTRICAL WORK	234,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	234,500.00	0.00
28.01	F&I CONDUIT & PULL BOXES - SBR	154,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	154,000.00	0.00
28.02	FURNISH ELECTRICAL SWGR - SBR	4,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,500.00	0.00
28.03	INSTALL ELECTRICAL SWGR - SBR	68,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	68,000.00	0.00
28.04	WIRING & TERMINATIONS - SBR	8,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	8,000.00	0.00
29	TERT. FILTER & AIR COMPRESSOR ELECTRICAL	13,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	13,600.00	0.00
29.01	CONDUIT & WIRE - TERT FILTER & AIR COMP	13,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	13,600.00	0.00

30	AEROBIC DIGESTER AND ASSC. EQUIP ELECT	54,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	54,200.00	0.00
30.01	CONDUIT & WIRE - AEROBIC DIGESTER	54,200.00	0.00	0.00	0.00%	0.00	0.00	0.00	54,200.00	0.00
31	SITE ELECTRICAL, SCE SERVICE, AND INSTR	899,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	899,500.00	0.00
31.01	CONTROL SYSTEM ENGINEERING & DRAWINGS	20,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	20,000.00	0.00
31.02	FURNISH FIELD INSTRUMENTS	120,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	120,000.00	0.00
31.03	FURNISH MCC-1, MCC-2, VFD AND BUCKETS	160,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	160,000.00	0.00
31.04	FURNISH & INSTALL PRECAST PULL BOXES	114,500.00	0.00	0.00	0.00%	0.00	0.00	0.00	114,500.00	0.00
31.05	ELECTRICAL DUCTBANK TERTIARY FILTER	50,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	50,000.00	0.00
31.06	ELECTRICAL DUCTBANK AEROBIC DIGESTOR	60,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	60,000.00	0.00
31.07	ELECTRICAL DUCTBANK CHEMICAL HANDLING	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
31.08	ELECTRICAL DUCTBANK PRIMARY SED	55,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	55,000.00	0.00
31.09	ELECTRICAL DUCTBANK SBR'S	55,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	55,000.00	0.00
31.10	INSTALL WIRE DUCTBANKS TERTIARY FILTER	40,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	40,000.00	0.00
31.11	INSTALL WIRE DUCTBANKS AEROBIC DIGESTOR	40,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	40,000.00	0.00
31.12	INSTALL WIRE DUCTBANKS CHEMICAL HANDLING	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
31.13	INSTALL WIRE DUCTBANK PRIMARY SED	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
31.14	INSTALL WIRE DUCTBANK SBR'S	45,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	45,000.00	0.00
31.15	TESTING AND STARTUP ASSISTANCE	30,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	30,000.00	0.00
31.16	AS-BUILT, O&M, AND CLOSEOUT	10,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	10,000.00	0.00
32	OVERALL PROJECT TESTING, CLEANUP, ETC	39,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	39,600.00	0.00
32.01	STARTUP AND TESTING	35,000.00	0.00	0.00	0.00%	0.00	0.00	0.00	35,000.00	0.00
32.02	FINAL CLEANUP AND PUNCH LIST	4,600.00	0.00	0.00	0.00%	0.00	0.00	0.00	4,600.00	0.00
TOTAL:		16,444,500.00	0.00	638,750.00	3.88%	0.00	638750.00	3.88	15,805,750.00	31,937.50

Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Start	Finish	Total Float	06-Dec-19 14:28																			
								Qtr 4, 2019	Qtr 1, 2020	Qtr 2, 2020	Qtr 3, 2020	Qtr 4, 2020	Qtr 1, 2021	Qtr 2, 2021													
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Temescal Valley Water District Water Reclamation Plant Phase IV Expansion								19-Apr-20, Temescal Valley Water District Water Reclamation Plant Phase IV Expansion																			
Preconstruction								19-Apr-20, Preconstruction																			
General Requirements																											
Submittal Development								23-Feb-20, Submittal Development																			
SUBMD1040	Submittals - 03315 - Grout	30	30	0%	02-Dec-19	31-Dec-19	350	Submittals - 03315 - Grout																			
SUBMD1060	Submittals - 05120 - Structural Steel	45	45	0%	02-Dec-19	15-Jan-20	411	Submittals - 05120 - Structural Steel																			
SUBMD1070	Submittals - 05500 - Misc. Metals	45	45	0%	02-Dec-19	15-Jan-20	380	Submittals - 05500 - Misc. Metals																			
SUBMD1080	Submittals - 05521 - Aluminum Railings	45	45	0%	02-Dec-19	15-Jan-20	411	Submittals - 05521 - Aluminum Railings																			
SUBMD1110	Submittals - 09900 - Painting	30	30	0%	02-Dec-19	31-Dec-19	471	Submittals - 09900 - Painting																			
SUBMD1120	Submittals - 09902 - Protective Coatings	30	30	0%	02-Dec-19	31-Dec-19	471	Submittals - 09902 - Protective Coatings																			
SUBMD1130	Submittals - 09903 - Interior Concrete Coating	30	30	0%	02-Dec-19	31-Dec-19	83	Submittals - 09903 - Interior Concrete Coating																			
SUBMD1160	Submittals - 11300 - Chain & Scraper / Flight Sludge Connectors	84	84	0%	02-Dec-19	23-Feb-20	215	Submittals - 11300 - Chain & Scraper / Flight Sludge Connectors																			
SUBMD1170	Submittals - 11305 - Revolving Skimmer Pipes	84	84	0%	02-Dec-19	23-Feb-20	261	Submittals - 11305 - Revolving Skimmer Pipes																			
SUBMD1220	Submittals - 11330 - Progressing Cavity Sludge/Scum Pumps	21	11	47.62%	19-Sep-19	12-Dec-19	404	Submittals - 11330 - Progressing Cavity Sludge/Scum Pumps																			
SUBMD1240	Submittals - 11340 - In-Line Polymer Injection System	42	22	47.62%	30-Oct-19A	23-Dec-19	388	Submittals - 11340 - In-Line Polymer Injection System																			
SUBMD1280	Submittals - 11370 - Soil Bed Biofilter Odor Control System	14	14	0%	02-Dec-19	15-Dec-19	393	Submittals - 11370 - Soil Bed Biofilter Odor Control System																			
SUBMD1350	Submittals - 16123 - Wire and Cable	30	30	0%	02-Dec-19	31-Dec-19	-4	Submittals - 16123 - Wire and Cable																			
SUBMD1370	Submittals - 16141 - Wiring Devices	30	30	0%	02-Dec-19	31-Dec-19	-4	Submittals - 16141 - Wiring Devices																			
SUBMD1380	Submittals - 16170 - Grounding and Bonding	30	30	0%	02-Dec-19	31-Dec-19	-4	Submittals - 16170 - Grounding and Bonding																			
SUBMD1390	Submittals - 16195 - Electrical Identification	30	30	0%	02-Dec-19	31-Dec-19	-4	Submittals - 16195 - Electrical Identification																			
SUBMD1410	Submittals - 16500 - Exterior Lighting	30	30	0%	02-Dec-19	31-Dec-19	429	Submittals - 16500 - Exterior Lighting																			
SUBMD1420	Submittals - 16920 - Motor Control Center	56	56	0%	02-Dec-19	26-Jan-20	438	Submittals - 16920 - Motor Control Center																			
SUBMD1430	Submittals - 16950 - Electrical Testing	30	30	0%	02-Dec-19	31-Dec-19	436	Submittals - 16950 - Electrical Testing																			
SUBMD1440	Submittals - 17000 - Instrumentation and Controls	56	56	0%	02-Dec-19	26-Jan-20	410	Submittals - 17000 - Instrumentation and Controls																			
SUBMD1450	Submittals - 17100 - Control Panels	56	56	0%	02-Dec-19	26-Jan-20	438	Submittals - 17100 - Control Panels																			
SUBMD1460	Submittals - 17301 - Level Measurement	56	56	0%	02-Dec-19	26-Jan-20	410	Submittals - 17301 - Level Measurement																			
SUBMD1470	Submittals - 17302 - Magnetic Flow Meters	56	56	0%	02-Dec-19	26-Jan-20	410	Submittals - 17302 - Magnetic Flow Meters																			
SUBMD1480	Submittals - 17303 - Pressure Measuring System	56	56	0%	02-Dec-19	26-Jan-20	410	Submittals - 17303 - Pressure Measuring System																			
SUBMD1490	Submittals - 17310 - Analyzers	56	56	0%	02-Dec-19	26-Jan-20	410	Submittals - 17310 - Analyzers																			
Critical Submittal Development								06-Jan-20, Submittal Review																			
Submittal Review								06-Jan-20, Submittal Review																			
SUBMRA1010	Submittals - 03200 - Reinforcing Steel	14	6	57.14%	30-Sep-19	07-Dec-19	121	Submittals - 03200 - Reinforcing Steel																			
SUBMRA1020	Submittals - 03290 - Joints in Concrete Structures	14	10	28.57%	09-Oct-19A	11-Dec-19	117	Submittals - 03290 - Joints in Concrete Structures																			
SUBMRA1220	Submittals - 11330 - Progressing Cavity Sludge/Scum Pumps	14	14	0%	13-Dec-19	26-Dec-19	404	Submittals - 11330 - Progressing Cavity Sludge/Scum Pumps																			
SUBMRA1230	Submittals - 11335 - Screenings Washing and Compacting Equipment	14	7	50%	01-Nov-19	08-Dec-19	379	Submittals - 11335 - Screenings Washing and Compacting Equipment																			
SUBMRA1240	Submittals - 11340 - In-Line Polymer Injection System	14	14	0%	24-Dec-19	06-Jan-20	388	Submittals - 11340 - In-Line Polymer Injection System																			
SUBMRA1270	Submittals - 11365 - Air Compressors (Filter Air Supply)	14	7	50%	11-Oct-19A	08-Dec-19	430	Submittals - 11365 - Air Compressors (Filter Air Supply)																			
SUBMRA1280	Submittals - 11370 - Soil Bed Biofilter Odor Control System	14	14	0%	16-Dec-19	29-Dec-19	393	Submittals - 11370 - Soil Bed Biofilter Odor Control System																			
SUBMRA1300	Submittals - 11385 - Aerobic Digester Coarse Bubble Diffusers	14	7	50%	27-Nov-19	08-Dec-19	348	Submittals - 11385 - Aerobic Digester Coarse Bubble Diffusers																			
SUBMRA1310	Submittals - 11390 - Surface Mounted Aluminum Covers	14	7	50%	24-Oct-19A	08-Dec-19	400	Submittals - 11390 - Surface Mounted Aluminum Covers																			
SUBMRA1320	Submittals - 15100 - Valves	14	6	57.14%	01-Oct-19A	07-Dec-19	180	Submittals - 15100 - Valves																			
SUBMRA1330	Submittals - 15834 - HVAC	14	7	50%	13-Nov-19	08-Dec-19	411	Submittals - 15834 - HVAC																			
Critical Submittal Review								19-Apr-20, Long Lead Procurement Items																			
Long Lead Procurement Items								19-Apr-20, Long Lead Procurement Items																			
LL1000	11286 - Slide Gates	98	98	0%	02-Dec-19	08-Mar-20	382	11286 - Slide Gates																			
LL1020	11287 - FRP Primary Effluent Weir Systems	140	140	0%	02-Dec-19	19-Apr-20	309	11287 - FRP Primary Effluent Weir Systems																			
LL1060	11310 - Sump Pumps	42	42	0%	02-Dec-19	12-Jan-20	397	11310 - Sump Pumps																			

Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Start	Finish	Total Float	Timeline																							
								Qtr 4, 2019	Qtr 1, 2020	Qtr 2, 2020	Qtr 3, 2020	Qtr 4, 2020	Qtr 1, 2021	Qtr 2, 2021																	
								Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr				
LL1070	11315 -Aerobic Digester Decanting Arms	126	126	0%	02-Dec-19	05-Apr-20	313																								
LL1080	11320 -Self Priming Sludge Pumps	140	140	0%	02-Dec-19	19-Apr-20	299																								
LL1090	11325 - Solids Handling Submersible Wastewater Pump	126	126	0%	02-Dec-19	05-Apr-20	-30																								
LL1120	11350 - Dry Pit Primary Sedimentation Drain Pump	119	119	0%	02-Dec-19	29-Mar-20	320																								
LL1130	11360 - Dynasand Filter	112	112	0%	02-Dec-19	22-Mar-20	382																								
LL1140	11385 -Aerobic Digester Coarse Bubble Diffusers	84	84	0%	09-Dec-19	01-Mar-20	348																								
LL1150	11390 -Surface Mounted Aluminum Covers	84	84	0%	09-Dec-19	01-Mar-20	400																								
LL1160	15910 - FRP Duct Work	140	140	0%	02-Dec-19	19-Apr-20	309																								
General Construction																															
Mobilization																															
MOB1040	SCE Conduit and Pullbox Installation	6	6	0%	18-Nov-19	23-Jan-20	-2																								
Yard Piping 200 6																															
PIPE1000	Excavate and Install Bypass Piping	7	7	0%	23-Jan-20	03-Feb-20	-2																								
PIPE1040	Excavate and Install Primary Sludge Scum Line to New Digester Tanks	15	15	0%	09-Dec-19	30-Dec-19	281																								
PIPE1050	Install Bypass Vault 260 6	8	8	0%	30-Jan-20	11-Feb-20	-2																								
Demolition																															
Area 2		0	0	0%			0																								
Area 3		0	0	0%			0																								
Area 4		0	0	0%			0																								
Area 5		0	0	0%			0																								
Area 1		0	0	0%			0																								
Basins and Pumps																															
PUMP1070	Construct Bar Screening	20	20	0%	09-Dec-19	07-Jan-20	261																								
Sedimentation Tanks																															
Sedimentation Tanks Structural 340 8																															
Sedimentation Tanks Mechanical 360 8																															
Sedimentation Tanks Electrical																															
Sedimentation Tanks Instrumentation																															
New Sequencing Batch Reactors																															
SBR Mechanical 500 7																															
SBR Electrical																															
SBR Instrumentation																															
SBR Structural 480 8																															
New Aerobic Digesters																															
Digester Structural 560 8																															
DIGS1000	Excavate Digester Foundations	5	5	0%	02-Dec-19	06-Dec-19	82																								
DIGS1020	Form/Reinforce Pit Slabs at EL. 887.94'	20	20	0%	14-Jan-20	12-Feb-20	57																								
Digester Mechanical 580 7																															
Digester Electrical																															
Digester Instrumentation																															
New Tertiary Filters																															
Filter Structural 520 5																															
Filter Mechanical 540 3																															
Filter Electrical																															
Filter Instrumentation																															
Sitework																															
Post Construction																															

█ Actual Level of Effort █ Remaining Work █ Critical Remaining Work
█ Actual Work █ Milestone █ summary

December 12, 2019

Board of Directors
Temescal Valley Water District

Re: Water and Sewer Operations – November 2019

Dear Board Members:

Temescal Valley Water District operations personnel perform the following tasks on a regular and routine basis:

- Managed 266.45 acre-feet of water through system.
- Collected monthly potable water samples. We are now collecting four samples per week as required by the State Water Resources Control Board, Division of Drinking Water. Collected monthly and weekly wastewater samples as required by Regional Water Quality Control Board.
- Submitted monthly SMR for 2019 to the Regional Water Quality Control Board for: Temescal Valley Wastewater Reclamation Facility
- Submitted monthly report to the State Water Resources Control Board, Division of Drinking Water for: TVWD distribution system monitoring.
- Read 5784 water meters.
- 13 shut offs.
- Responded 113 service calls.
- Installed 42 meters for the various developers
- Responded to 83 USA Dig Alerts to mark District underground utilities.

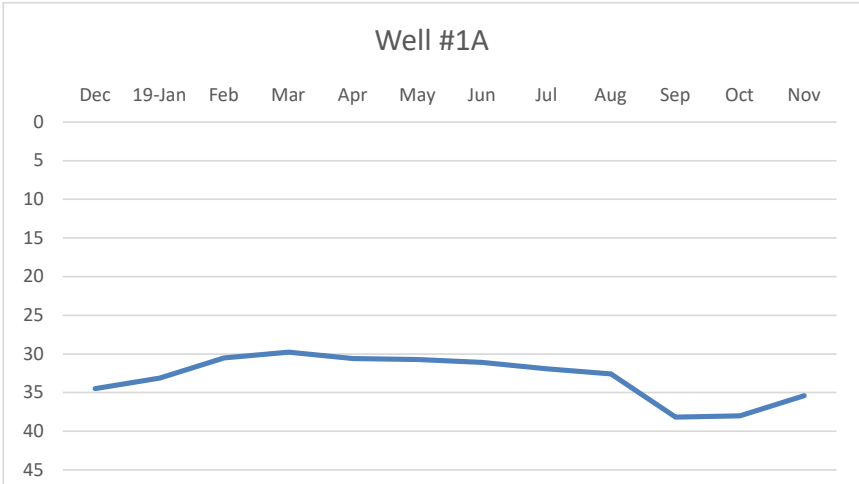
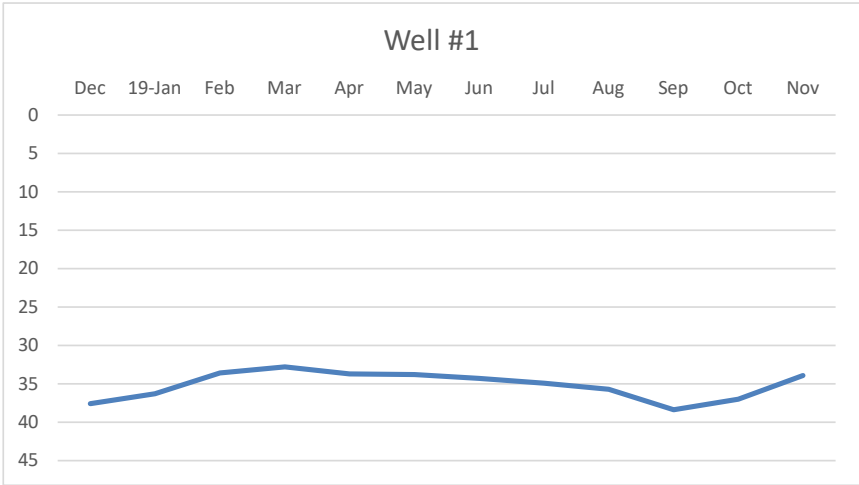
In addition to the above regular and routine tasks we also performed the following operational tasks.

- Maintained aesthetic appearance of all District facilities.
- 1 load of biosolids were hauled off this month.
- Operations staff installed a new sodium bisulfite system at the Wastewater Facility to dechlorinate our effluent for outfall compliance.

- Contractor brought in to install a final residual analyzer for outfall compliance.

Sincerely,

Paul Bishop, Superintendent



**TEMESCAL VALLEY WATER DISTRICT
ENGINEERING DEPARTMENT**

DISTRICT ENGINEER'S MONTHLY REPORT

Date: December 12, 2019
To: Jeff Pape, General Manager
From: Justin Scheidel, District Engineer
Subject: Engineering Activities Update for the Month of December 2019

Following is a summary of the status of current engineering projects:

PLAN CHECKING & DEVELOPER RELATED PROJECTS

Tract 33688 Water, Sewer and Recycled Plan Check (10555, Phase 6) – 2nd plan check completed, comments returned to the Engineer for incorporation.

Tract 37153 “Motor Court Development” (10555, Phase 11) – 2nd plan check completed and comments were returned to the Engineer for incorporation. Currently under review by the County of Riverside.

Speedway Commercial Development (10555, Phase 13) – 1st plan check completed and comments were returned to the Engineer for incorporation. Coordinated with the engineer regarding comments and corrections for their second submittal.

CAPITAL IMPROVEMENT PROJECTS

Status

Dawson Canyon 1320 Potable Water Reservoir Design (1401.1810): Dawson Canyon Reservoir Design: Completed the 90% design submittal for the reservoir portion of the project. The preliminary alignment for the pipeline has been created and easement documents are currently being processed by the landowner for both the pipeline, and the reservoir site.

90% Design Completed

AS-NEEDED ENGINEERING SERVICES

Status

General Engineering Initiated During FY 2018/19

Project 1401.1901: As-Needed Potable Water Engineering for FY 2019/20: Development of the district engineering report and attendance of the District's board meeting.

Project 1401.1902: Non-Potable Water Related Services for FY 2019/20: No activity this month.

Project 1401.1903: Wastewater Related Services for FY 2019/20: No activity this month.

Project 1401.1808: General GIS Support: Updating of the GIS database and re-formatting as-built catalog. General support provided for updating GIS information discovered during master plan updates. Completed updates for all new developments within the District

and currently linking as-built drawings to online GIS database. **Currently 90% Complete**

Project 1401.1811: Water System Master Plan Update: Draft water system master plan submitted to the General Manager for review. We will work with the general manager to review the document, run additional operation scenarios in the model, and provide a final master plan to the District for future development planning.

Draft Report Completed

Project 1401.1812: Non-Potable Master Plan Update: Draft non-potable water system master plan submitted to the General Manager for review. We will work with the general manager to review the document, run additional operation scenarios in the model, and provide a final master plan to the District for future development planning.

Draft Report Completed

Project 1401.1815: Sewer System Master Plan Update: Completed import of GIS information into the model. Currently wrapping up edits to the sewer system and fixing bugs to facilitate calibration of the model and drafting of the master plan report.

Draft Report Completed

Project 1401.1906: Knabe Road Potable Waterline: Acquired utility as-builts and completed design of the preliminary alignment. The site survey has been completed and we are now working to complete the 50% level design drawings.

40% Complete

Project 1401.1907: Trilogy Reservoir Rehabilitation: Completed final design submittal for the project in concert with the General Manager. Project was put out for public bid on 11/25/19 with a bid date of 12/19/19. Project expected to begin early January facilitating construction during the low demand winter months.

Design Completed

Project 1401.1908: Emergency Ag-Line Repair: Developed rehabilitation plan with General Manager for Caltrans Approval. Coordinated with contractor to repair the existing casing and coordinated with the cast in place pipe manufacturer for procurement of the liner. The liner is scheduled to be installed on 12/18/19, and Caltrans is expected to repair the subgrade of the freeway with grout on 12/23/19. After CCTV inspection of the installed and grouted liner which is tentatively scheduled for the last week of December, a new carrier pipe will be installed which is preliminarily scheduled for the first/second week of January.