

**LA HABRA HEIGHTS COUNTY
WATER DISTRICT**

BOARD MEETING

JULY 25, 2023

**AGENDA FOR REGULAR MEETING
BOARD OF DIRECTORS
LA HABRA HEIGHTS COUNTY WATER DISTRICT
July 25, 2023 @ 4:00PM**

- 1. Roll call of Directors by Secretary**
- 2. Notation of staff members and others present**
- 3. Public Communications** (Comments will be limited to 3 minutes)
- 4. Directors Report – Individual, Subcommittees and/or Attended Events**
- 5. Consent Items:** It is recommended these items be acted upon simultaneously unless separate discussion or action is requested by a member of the public or a Director.
 - a. Minutes of Regular Board meeting for July 11, 2023 (approve)
 - b. Financial Reports – June 2023 (approve)
 - c. Status of Investments – June 2023
- 6. Approval of warrants and authorize signatures per warrant list**
- 7. Report of Superintendent**
- 8. Report and recommendations of General Manager:**
 - a. Presentation, Discussion, and Action – New Well #12
 - b. Discuss and Approve – Miscellaneous Fee
 - c. Discuss and Action – Assistant General Manager and Assistant Superintendent
- 9. Closed Session**
 - a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION:**

In re: Aqueous Film-Forming Foams Products Liability. Case No. 2:18-mn-2873-RMG, pending in the United States District Court for the District of South Carolina, Charleston Division. Discussion of existing litigation pursuant to Government Code section 54956.9, paragraph (1) of subdivision (d).

b. PUBLIC EMPLOYEE PERFORMANCE EVALUATION

(Gov. Code section 54957(b)(1).) Title: Assistant General Manager.

10. Adjournment

Any documents that are provided to the Board of Directors regarding items on this agenda less than 72 hours prior to this meeting will be available for public inspection at the front counter of the District office located at 1271 N. Hacienda Road, La Habra Heights, California 90631

MINUTES

MINUTES OF THE REGULAR BOARD MEETING
OF THE BOARD OF DIRECTORS
LA HABRA HEIGHTS COUNTY WATER DISTRICT
JULY 11, 2023

A regular meeting of the Board of Directors of La Habra Heights County Water District was held on July 11, 2023, at 4:01 p.m., at the office of the District, located at 1271 North Hacienda Road, La Habra Heights.

Item 1. Roll call of Directors by Secretary/General Manager, Michael Gualtieri.

PRESENT: Directors Baroldi, Cooke, Crabb, and McVicar

ABSENT: Director Perumean

Item 2. Staff members and others present. Staff: Michael Gualtieri, Secretary/General Manager, Tammy Wagstaff, Treasurer, Joe Matthews, Superintendent, and Ivan Ramirez, Utility Worker III. Others present: Michael Silander, Attorney at Law, David Byrum, Civiltec Engineering, Brian Bergman, City of La Habra Heights Council Member, and Lana Baroldi, resident.

Item 3. Employee 20 Year Recognition - Michelle Perez and Dale Snooks – Both employees were recognized and given a 20-year certificate and pin.

Item 4. Public Communications – None

(Director Perumean entered the meeting at 4:07 p.m.)

Item 9.a. Discuss and Action – Fire Flow Simulation Test. There was discussion regarding the fire flow simulation test. No action was taken.

Item 5. Directors Report – Individual, Subcommittees and/or Attended Events. - None

Item 6. a. & b. Minutes of Special meeting for May 16, 2023, Minutes of Regular meeting for May 23, 2023 and Financial Reports for May 2023. After discussion, there was a motion by Director McVicar and seconded by Director Baroldi to approve the minutes, and financial reports. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 7. Approval of warrants and authorize signatures per warrant list. After discussion, there was a motion made by Director McVicar and seconded by Director Perumean that the warrant numbers 46056 through 46159 in the amount of \$650,017.00 and EFT transfers in the amount of \$12,519.02 be approved and signatures be authorized. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 8. Report of Superintendent. The Superintendent informed there was a total of nine service leaks, two of those leaks were replaced and the rest were repaired. There were two main leak repairs, and one butterfly valve repaired. Also, Brkich repaired a leak on Reposado Drive that was covered under warranty. Edison completed efficiency testing for the year and reports are pending. Lastly, annual electrical maintenance was completed by GJR Electric.

Item 9.b. Discuss and Approve – Purchasing Central Basin Water Rights. After discussion, there was a motion by Director Perumean and seconded by Director Cooke to approve purchase of water rights in the amount of and not to exceed \$250,000.00. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 9.c. Discuss and Adopt Resolution 23-05, Fiscal Year 2023/2024 Salary Schedule. After discussion, there was a motion by Director McVicar and seconded by Director Baroldi to approve Resolution 23-05. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 9.d. Discuss and Approve – SB 552, Water Contingency Plan. After discussion, there was a motion by Director Baroldi and seconded by Director Perumean to approve SB 552, with a minor change. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 9.e. Discuss and Approve – “H2O Pipeline” Summer 2023. After discussion, there was a motion by Director McVicar and seconded by Director Perumean to approve “H2O Pipeline” Summer 2023, with changes. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Item 10.a. CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION:
In re: Aqueous Film-Forming Foams Products Liability. Case No. 2:18-mn-2873-RMG, pending in the United States District Court for the District of South Carolina, Charleston Division. Discussion of existing litigation pursuant to Government Code section 54956.9, paragraph (1) of subdivision (d). This items was not discussed.

Item 11. There being no further business to come before the Board, motion was made by Director Cooke and seconded by Director McVicar that the meeting be adjourned at 6:30 p.m. The vote was as follows:

AYES: Directors Baroldi, Cooke, Crabb, McVicar, and Perumean

NOES: None

ABSENT: None

Dated: July 25, 2023

Brad Cooke, President

(SEAL)

Michael Gualtieri, Secretary

FINANCIAL REPORT

LA HABRA HEIGHTS COUNTY WATER DISTRICT

STATEMENTS OF NET POSITION

June 30, 2022 and June 30, 2023

	<u>2022</u>	<u>2023</u>
<u>ASSETS:</u>		
<u>Current Assets:</u>		
CASH-PETTY	300.00	300.00
CASH-CHECKING	1,683,257.39	1,266,694.30
INVESTMENT-LAIF	3,557,687.02	4,932,859.05
ACCOUNTS RECEIVABLE-WATER	664,706.95	336,386.98
ACCOUNTS RECEIVABLE-OTHER	21,239.59	277,320.54
TAXES RECEIVABLE	39,359.81	-
LEASE RECEIVABLE	-	127,183.86
ACCRUED INTEREST RECEIVABLE	6,747.61	39,094.17
INVENTORY	188,582.49	193,134.83
PREPAID EXPENSES	29,615.80	28,275.50
Total Current Assets	<u>6,191,496.66</u>	<u>7,201,249.23</u>
<u>Noncurrent Assets:</u>		
<u>Capital Assets:</u>		
LAND	532,743.65	532,743.65
WATER RIGHTS	1,608,490.80	1,640,490.80
SOURCE OF SUPPLY	2,271,079.60	2,271,079.60
PUMPING PLANT	1,625,877.77	1,637,877.77
TRANSMISSION & DISTRIBUTION	26,356,058.47	26,238,265.02
GENERAL PLANT	1,753,274.51	1,648,500.03
CONSTRUCTION IN PROGRESS	66,338.03	429,271.13
Total Capital Assets	<u>34,213,862.83</u>	<u>34,398,228.00</u>
Accumulated Depreciation	<u>(18,843,826.93)</u>	<u>(20,138,669.58)</u>
Net Capital Assets	<u>15,370,035.90</u>	<u>14,259,558.42</u>
<u>Other Noncurrent Assets:</u>		
CONSTRUCTION ADVANCE RECEIVABLE	19,677.43	9,960.19
INVESTMENTS-CAL DOMESTIC WATER CO	591.00	591.00
LEASE RECEIVABLE	2,538,897.23	2,289,209.18
Total Other Noncurrent Assets	<u>2,559,165.66</u>	<u>2,299,760.37</u>
Total Assets	<u>24,120,698.22</u>	<u>23,760,568.02</u>
DEFERRED OUTFLOWS OF RESOURCES- Deferred amount from pension plan	172,529.00	172,529.00
DEFERRED OUTFLOWS OF RESOURCES- Deferred amount from OPEB	<u>259,764.00</u>	<u>259,764.00</u>
Total Deferred Outflows of Resources	<u>432,293.00</u>	<u>432,293.00</u>

LA HABRA HEIGHTS COUNTY WATER DISTRICT

STATEMENTS OF NET POSITION

June 30, 2022 and June 30, 2023

	2022	2023
LIABILITIES		
<u>Current Liabilities:</u>		
ACCOUNTS PAYABLE	391,517.24	328,232.76
CURR PORTION-LONG TERM DEBT	59,938.00	61,359.75
ACCRUED INTEREST-CONTRACT PAYABLE-D/G	-	-
DEPOSITS-CUSTOMERS	3,000.00	1,623.75
DEPOSITS-CONSTRUCTION	-	2,500.00
ACCRUED PROPERTY TAXES	-	-
ACCRUED PAYROLL	37,353.49	44,688.07
ACCRUED EMPLOYEE BENEFITS	150,468.34	157,407.33
DEFERRED RENTAL INCOME	401.21	401.21
ACCRUED RETIREMENT CONTRIBUTIONS	9,158.09	10,003.33
NET OPEB OBLIGATION	1,706,103.00	1,706,103.00
NET PENSION LIABILITY	125,862.00	125,862.00
Total Current Liabilities	2,483,801.37	2,438,181.20
 <u>Long-term Liabilities, net of current portion:</u>		
LOAN PAYABLE-STATE OF CALIF	61,359.75	-
Total Long-term Liabilities	61,359.75	-
 Total Liabilities	 2,545,161.12	 2,438,181.20
 DEFERRED INFLOWS OF RESOURCES- Deferred amounts from pension plan	 140,358.00	 140,358.00
DEFERRED INFLOWS OF RESOURCES- Deferred amounts from OPEB	385,809.00	385,809.00
DEFERRED INFLOWS OF RESOURCES- Deferred amounts from Leases	2,539,087.37	2,417,226.89
Total Deferred Inflows of Resources	3,065,254.37	2,943,393.89
 <u>Net Position:</u>		
INVESTED IN CAPITAL ASSETS, NET RELATED DEBT	15,248,738.15	14,198,198.67
UNRESTRICTED	3,674,160.15	4,603,127.07
RESTRICTED	19,677.43	9,960.19
Total Net Position	18,942,575.73	18,811,285.93

LA HABRA HEIGHTS COUNTY WATER DISTRICT
STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET POSITION
For Twelve Months Ending June 30, 2022 and June 30, 2023

	Last Year Current Month Actual 6/30/2022	Current Month Actual 6/30/2023	Last Year YTD Actual 6/30/2022	Current YTD Actual 6/30/2023	Current Budget 2022/23	Actual 6/30/2023 % of budget 2022/23
Operating Revenue:	447,156.24	400,334.60	5,013,935.62	4,662,576.74	5,423,251.00	86%
Operating Expenses:						
Source of Supply	217,719.87	140,400.97	2,060,746.74	1,559,717.12	2,321,487.00	67%
Pumping	6,021.96	11,607.00	126,930.81	161,634.88	122,928.00	132%
Treatment	2,367.84	2,738.38	50,774.72	50,002.49	37,425.00	134%
Transmission & Distribution	31,047.54	85,888.18	676,294.40	692,462.59	597,780.00	116%
Customer Accounts	17,786.91	17,358.02	193,006.10	212,379.15	168,659.00	126%
Administrative and General	(410,178.40)	186,409.90	1,002,889.56	1,638,181.29	1,652,843.00	99%
Capital Improvements	(710,585.57)	129,275.12	505,996.94	1,551,301.00	1,551,301.00	100%
Other	6,742.30	7,948.99	85,819.43	91,515.02	89,851.00	102%
TOTAL OPERATING EXPENSES	(839,077.55)	581,626.56	4,702,458.70	5,957,193.54	6,542,274.00	91%
OPERATING INCOME (LOSS)	1,286,233.79	(181,291.96)	311,476.92	(1,294,616.80)	(1,119,023.00)	116%
Non-Operating Revenues	78,338.55	(7,141.10)	1,087,285.48	1,167,928.41	1,039,354.00	112%
Non-Operating Expenses	47,895.17	896.97	58,714.47	11,168.05	36,739.00	30%
NET NON-OPERATING REVENUES (EXPENSES)	30,443.38	(8,038.07)	1,028,571.01	1,156,760.36	1,002,615.00	115%
NET INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	1,316,677.17	(189,330.03)	1,340,047.93	(137,856.44)	(116,408.00)	118%
SYSTEM BUY IN FEE			13,593.00	-		
CAPITAL CONTRIBUTIONS			4,410.55	6,566.64		
NET INCOME (LOSS) IN NET POSITION			1,358,051.48	(131,289.80)		
NET POSITION-BEGINNING OF YEAR			17,584,524.25	18,942,575.73		
NET POSITION-END OF PERIOD			18,942,575.73	18,811,285.93		

LA HABRA HEIGHTS COUNTY WATER DISTRICT

STATEMENTS OF REVENUE AND EXPENSES

For Twelve Months Ending June 30, 2022 and June 30, 2023

	Last Year Current Month Actual 6/30/2022	Current Month Actual 6/30/2023	Last Year YTD Actual 6/30/2022	Current YTD Actual 6/30/2023	Current Budget 2022/23	Actual 6/30/2023 % of budget 2022/23 100%
OPERATING REVENUES						
SALES-WATER	238,381.25	180,324.50	2,842,934.55	2,324,790.12	3,139,278.00	74%
SALES-READINESS TO SERVE	179,795.61	189,541.38	2,109,085.64	2,267,832.10	2,226,733.00	102%
SALES-MISCELLANEOUS	2,252.25	2,577.24	35,188.30	42,063.04	28,366.00	148%
LEASE-WATER RIGHTS	26,727.13	27,891.48	26,727.13	27,891.48	28,874.00	97%
TOTAL OPERATING REVENUES	447,156.24	400,334.60	5,013,935.62	4,662,576.74	5,423,251.00	86%
OPERATING EXPENSES						
PURCHASED WATER	4,117.17	3,977.40	41,497.77	52,182.17	246,552.00	21%
GROUND WATER REPLENISHMENT ASSMT	145,328.02	82,532.91	1,186,705.48	901,565.49	1,140,347.00	79%
POWER	68,274.68	53,890.66	832,543.49	605,969.46	934,588.00	65%
TOTAL SOURCE OF SUPPLY	217,719.87	140,400.97	2,060,746.74	1,559,717.12	2,321,487.00	67%
LABOR-PUMPING	5,771.36	7,115.40	52,594.16	62,168.64	68,948.00	90%
MAINTENANCE-PUMPING	250.60	4,491.60	74,336.65	99,466.24	53,980.00	184%
TOTAL PUMPING	6,021.96	11,607.00	126,930.81	161,634.88	122,928.00	132%
MAINT & LABOR-TREATMENT	2,367.84	2,738.38	50,774.72	50,002.49	37,425.00	134%
TOTAL TREATMENT	2,367.84	2,738.38	50,774.72	50,002.49	37,425.00	134%
LABOR-TRANS & DISTRIBUTION	29,147.72	35,831.93	229,459.79	270,781.86	241,611.00	112%
MAINT-TRANS & DISTRIBUTION	5,533.95	26,825.75	232,486.03	271,063.53	158,357.00	171%
JOINT FACILITIES-WELL, LM CONDUIT&RES	27,408.00	43,797.92	454,239.16	285,157.15	400,793.00	71%
ORCHARD DALE PORTION	(31,042.13)	(20,567.42)	(239,890.58)	(134,539.95)	(202,981.00)	66%
TOTAL TRANSMISSION&DISTRIBUTION	31,047.54	85,888.18	676,294.40	692,462.59	597,780.00	116%
LABOR&MAINT-CUSTOMER ACCOUNTS	15,760.48	15,696.81	188,764.58	208,802.55	166,021.00	126%
UNCOLLECTIBLE ACCOUNTS	2,026.43	1,661.21	4,241.52	3,576.60	2,638.00	136%
TOTAL CUSTOMER ACCOUNTS	17,786.91	17,358.02	193,006.10	212,379.15	168,659.00	126%
TOTAL OTHER OPERATING EXPENSES	57,224.25	117,591.58	1,047,006.03	1,116,479.11	926,792.00	121%
TOTAL SOURCE OF SUPPLY & OPERATING EXPENSES	274,944.12	257,992.55	3,107,752.77	2,676,196.23	3,248,279.00	82%
ADMINISTRATIVE & GENERAL EXPENSES						
LABOR-FIELD-SICK,VAC,HOLIDAY	8,986.11	15,500.92	73,989.95	82,659.70	77,198.00	107%
WAGES-MANAGEMENT	15,497.61	25,081.44	157,999.44	168,661.91	165,468.00	102%
WAGES-OFFICE	28,687.06	36,393.18	252,410.73	262,800.45	272,120.00	97%
WAGES-MGMT&OFFICE-SICK,VAC,HOLIDAY	24,262.15	6,574.48	98,732.82	92,317.52	95,140.00	97%
OFFICE SUPPLIES	6,281.93	4,162.24	28,150.80	28,812.75	29,957.00	96%
AUTO SERVICE	3,272.44	4,059.41	56,123.53	52,446.38	47,734.00	110%
BANK SERVICE CHARGE	2,374.59	1,128.87	14,512.81	9,416.49	13,990.00	67%
DUES & SUBSCRIPTIONS	-	2,591.24	26,190.83	28,123.82	29,665.00	95%
BUILDING SERVICE	428.07	2,652.00	19,599.68	22,352.22	23,731.00	94%
OFFICE EQUIPMENT MAINT	390.38	1,765.21	42,538.39	31,784.37	27,612.00	115%
PROFESSIONAL	2,822.10	5,490.00	51,001.63	123,656.96	81,196.00	152%
EDUCATION & MEETINGS	38.92	799.76	17,874.90	19,324.76	17,354.00	111%

LA HABRA HEIGHTS COUNTY WATER DISTRICT


STATEMENTS OF REVENUE AND EXPENSES

For Twelve Months Ending June 30, 2022 and June 30, 2023

	Last Year Current Month Actual 6/30/2022	Current Month Actual 6/30/2023	Last Year YTD Actual 6/30/2022	Current YTD Actual 6/30/2023	Current Budget 2022/23	Actual 6/30/2023 % of budget 2022/23 100%
LEGAL	4,875.00	4,662.50	37,430.78	38,337.50	37,162.00	103%
UTILITIES	3,817.16	2,070.10	35,647.67	36,637.73	48,932.00	75%
ENGINEERING	56,886.00	3,585.75	100,269.50	18,570.25	28,315.00	66%
INSUR-AUTO,LIABILITY&PROPERTY	5,207.83	6,481.34	68,639.58	76,803.54	67,431.00	114%
INSUR-GROUP HEALTH & LIFE	238.10	17,159.95	211,536.03	186,437.65	227,214.00	82%
EMPLOYEE WORKERS COMPENSATION	4,858.16	6,432.70	7,568.39	30,232.97	25,279.00	120%
DENTAL	-	-	5,388.64	2,224.00	4,730.00	47%
RETIREMENT-CALPERS	13,484.88	27,792.00	136,802.07	150,534.19	150,485.00	100%
RETIREMENT-DEFERRED COMP	(69.45)	2,500.38	19,301.81	20,369.03	21,456.00	95%
RETIREMENT-CALPERS UNFUND ACCR LIAB	-	-	72,110.00	89,261.00	92,333.00	97%
MAINTENANCE-GENERAL PLANT	3,216.56	9,526.43	64,803.58	66,416.10	68,341.00	97%
CAPITAL IMPROVEMENTS	(710,585.57)	129,275.12	505,996.94	1,551,301.00	1,551,301.00	100%
PROPERTY TAXES	443.06	444.07	5,815.41	5,841.66	6,454.00	91%
PAYROLL TAXES	6,299.24	7,504.92	80,004.02	85,673.36	83,397.00	103%
TOTAL ADMIN & GENERAL EXP	(1,114,021.67)	323,634.01	1,594,705.93	3,280,997.31	3,293,995.00	100%
TOTAL OPERATING EXPENSES	(839,077.55)	581,626.56	4,702,458.70	5,957,193.54	6,542,274.00	91%
OPERATING INCOME (LOSS)	1,286,233.79	(181,291.96)	311,476.92	(1,294,616.80)	(1,119,023.00)	116%
NONOPERATING REVENUES						
INTEREST INCOME	13,887.61	14,928.17	23,654.82	108,264.70	10,272.00	1054%
PROPERTY TAX INCOME	42,814.67	2,347.76	896,133.31	931,912.77	892,371.00	104%
RENT INCOME	19,575.44	10,901.88	126,674.38	135,282.20	120,458.00	112%
OIL ROYALTIES	1,238.56	1,318.43	16,132.55	16,776.02	10,589.00	158%
MISCELLANEOUS INCOME	1,425.00	(1,100.00)	10,587.16	6,730.06	5,664.00	119%
GAIN ON ASSET SOLD	(602.73)	(35,537.34)	14,103.26	(31,037.34)	-	0%
TOTAL NONOPERATING REVENUES	78,338.55	(7,141.10)	1,087,285.48	1,167,928.41	1,039,354.00	112%
NONOPERATING EXPENSES						
INTEREST EXPENSE-D/G LOAN	(5.98)	(3.03)	2,967.06	1,802.67	1,801.00	100%
LOSS ON INVESTMENT	46,401.15	-	46,401.15	-	-	0%
DIRECTORS FEES	1,500.00	900.00	7,100.00	7,000.00	9,900.00	71%
DIRECTORS EXPENSES	-	-	2,246.26	678.71	9,711.00	7%
ELECTION	-	-	-	1,686.67	15,327.00	0%
TOTAL NONOPERATING EXPENSES	47,895.17	896.97	58,714.47	11,168.05	36,739.00	30%
NET NONOPER REVENUES(EXPENSES)	30,443.38	(8,038.07)	1,028,571.01	1,156,760.36	1,002,615.00	115%
NET INCOME (LOSS) IN NET POSTION	1,316,677.17	(189,330.03)	1,340,047.93	(137,856.44)	(116,408.00)	118%

LA HABRA HEIGHTS COUNTY WATER DISTRICT

MEMORANDUM

To: Mike Gualtieri
From: Tammy Wagstaff 
Date: July 12, 2023
RE: Lease payments and Rental Income

BACKGROUND

In October 2014 the Board asked that staff report lease payments and rental income.

Lease payment to BNSF Railway Company in June 2023 of \$9,110.50

Rental income:

Whittier Mobile Country Club in April 2023 of \$131,857.50

Interhealth for July 2022 through June 2023 of \$4,814.52

STATUS OF INVESTMENTS

LA HABRA HEIGHTS COUNTY WATER DISTRICT

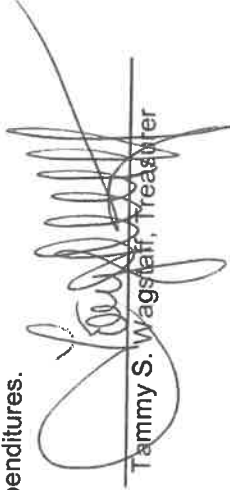
REPORT OF INVESTMENTS
FOR MONTH ENDED JUNE 30, 2023

TYPE OF INVESTMENT	ISSUER	PURCHASE DATE	DAYS TO MATURITY	YIELD	AGENT/BROKER	SOURCE OF VALUATION	MARKET VALUE	BEGINNING BALANCE	ACTIVITY	ENDING BALANCE	% TO TOTAL PORTFOLIO
Pooled fund	Local Agency Investment Fund (LAIF)	NA	1	3.167	California State Treasurer	NA	4,932,859	4,945,922	33,338 *	4,979,260	100.0%
TOTAL							4,932,859	4,945,922	33,338	4,979,260	100.0%

* Deposited on 4/14/23 \$33,338 interest earned from January - March 2023

All current investments and transactions during the month comply with the investment policy adopted by Resolution 23-02 adopted February 28, 2023

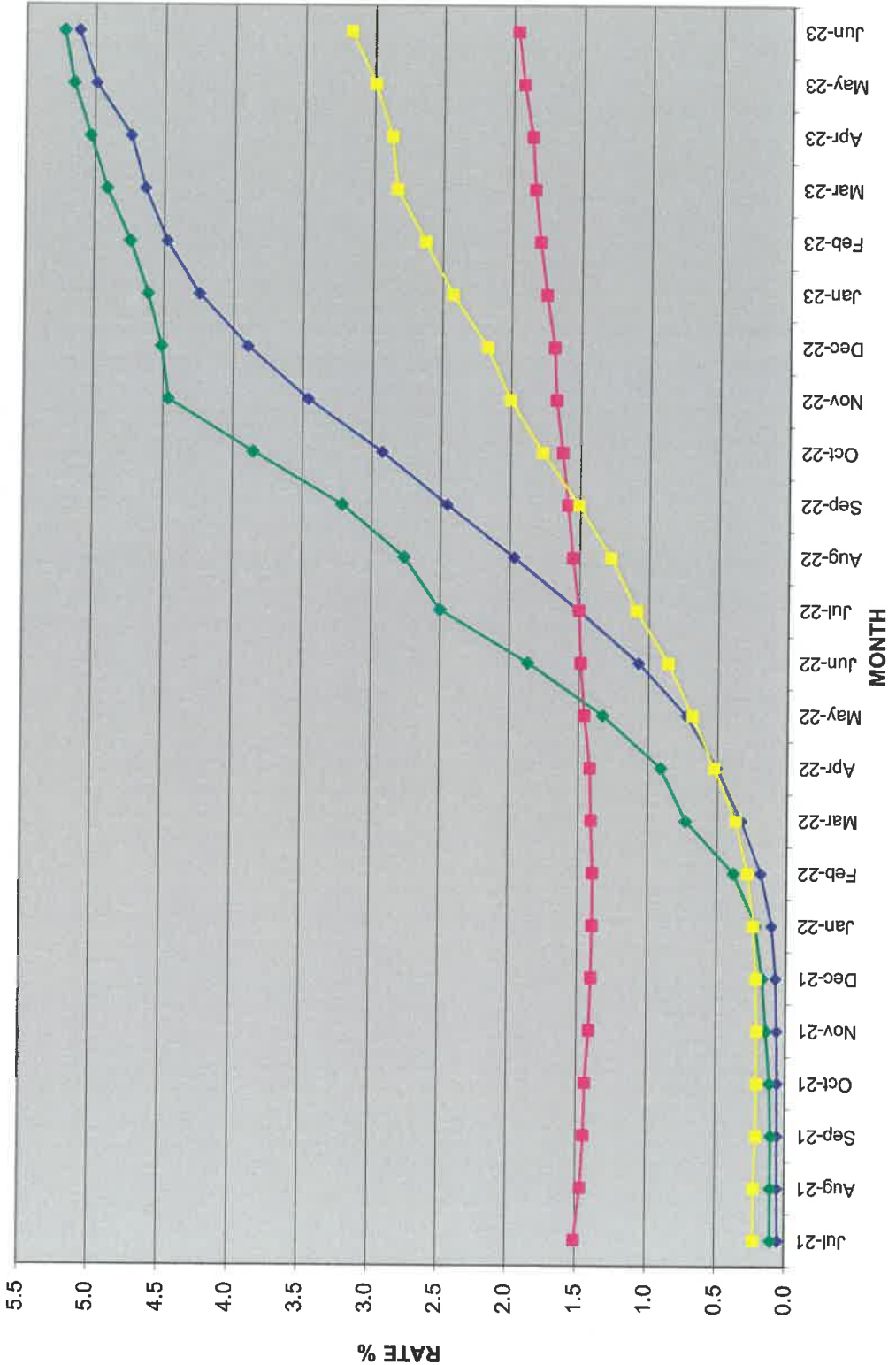
Pending any future action of Board of Directors or any unforeseen catastrophe, I certify that sufficient investment liquidity and anticipated revenue are available to meet the next six months of estimated expenditures.


 Tammy S. Wagstaff, Treasurer

July 25, 2023
 Date

LA HABRA HEIGHTS COUNTY WATER DISTRICT

Historical Interest Rates



Treasury Bills
 Treasury Notes
 Commercial Paper, 90 day
 LAIF
 Treasury Bills and Treasury Notes source: www.treasurydirect.gov
 Commercial Paper, 90 days source: www.federalreserve.gov
 LAIF (Local Agency Investment Fund) source: www.treasurer.ca.gov

WARRANTS

La Habra Heights CWD
AP Check Register (Current by Bank)
Check Dates: Greater than 6/7/2023

Check No.	Date	Status*	Vendor ID	Payee Name	Amount
BANK ID: 13100 - EFT TRANSFERS					13110
1002391170	06/21/23	M	0130	CALPERS	\$5,180.18
1002391171	06/21/23	M	0130	CALPERS	\$1,213.27
**1002402974	07/05/23	M	0130	CALPERS	\$5,667.38
1002402975	07/05/23	M	0130	CALPERS	\$1,318.69
BANK 13100 REGISTER TOTAL:					\$13,379.52
 BANK ID: 13110 - CHECKING- WELLS FARGO					13110
46160	06/27/23	P	0522	FULLERTON FORD	\$716.66
46161	07/03/23	P	0385	ADMIRAL PEST CONTROL	\$76.00
46162	07/03/23	P	ONETIM	ALEXANDRU DAIANU	\$861.08
46163	07/03/23	P	0353	ARCO BUSINESS SOLUTIONS	\$2,401.07
46164	07/03/23	P	0414	BRKICH CONSTRUCTION CORP	\$5,949.81
46165	07/03/23	P	0504	C&K TIRE SERVICE	\$470.84
46166	07/03/23	P	0237	CALIFORNIA SCHOOL BOARDS ASSOC	\$2,500.00
46167	07/03/23	P	0013	CANNINGS HARDWARE	\$71.18
46168	07/03/23	P	0014	CENTRAL BASIN MWD	\$3,964.35
46169	07/03/23	P	0441	CINTAS CORPORATION	\$269.33
46170	07/03/23	P	0017	CLINICAL LAB OF SB, INC	\$886.75
46171	07/03/23	P	0123	COUNTY OF LOS ANGELES	\$1,951.24
46172	07/03/23	P	0369	HIGHROAD INFO TECHNOLOGY	\$473.42
46173	07/03/23	P	0044	JIM BAUCHER	\$1,089.00
46174	07/03/23	P	0133	KONICA MINOLTA	\$386.28
46175	07/03/23	P	0051	LINCOLN FINANCIAL GROUP	\$3,353.81
46176	07/03/23	P	ONETIM	LONGRAY INTIMATES, LLC.	\$673.33
46177	07/03/23	P	0120	MICHAEL GUALTIERI	\$117.92
46178	07/03/23	P	0430	MICHAEL SILANDER	\$6,287.50
46179	07/03/23	P	0534	ODP BUSINESS SOLUTIONS, LLC.	\$90.15
46180	07/03/23	P	0514	PALMFELX	\$222.24
46181	07/03/23	P	0187	PLAINSITE BUSINESS SYSTEMS,INC	\$1,783.22
46182	07/03/23	P	ONETIM	SAMUEL FUNG	\$722.21
46183	07/03/23	P	ONETIM	SAMUEL LIEM	\$499.99
46184	07/03/23	P	0415	SAMUEL MUNOZ	\$1,400.00
46185	07/03/23	P	0068	SOUTHERN CALIF EDISON CO	\$54,305.93
46186	07/03/23	P	0243	TAMMY WAGSTAFF	\$750.00
46187	07/03/23	P	0078	UNDERGROUND SERVICE ALERT	\$174.50
46188	07/03/23	P	0268	UNIVAR USA, INC	\$1,958.62
46189	07/03/23	P	0386	VERIZON WIRELESS	\$991.39
46190	07/03/23	P	0016	WATER REPLENISHMENT DISTRICT	\$3,651.01
46191	07/03/23	P	0016	WATER REPLENISHMENT DISTRICT	\$68,439.72
46192	07/18/23	P	0116	ACWA-JPIA	\$15,506.34
46193	07/18/23	P	0139	ACWA/JPIA	\$6,305.50
46194	07/18/23	P	0139	ACWA/JPIA	\$33,140.93
46195	07/18/23	P	0385	ADMIRAL PEST CONTROL	\$76.00
46196	07/18/23	P	0543	ADYEN BRISENO	\$116.92
46197	07/18/23	P	0249	AWWA	\$1,018.00
46198	07/18/23	P	0013	CANNINGS HARDWARE	\$112.97
46199	07/18/23	P	0160	CENTRAL BASIN WATER ASSOC	\$1,462.98
46200	07/18/23	P	0432	CHARTER COMMUNICATIONS	\$550.00
46201	07/18/23	P	0441	CINTAS CORPORATION	\$22.11
46202	07/18/23	P	0145	CIVILTEC ENGINEERING INC	\$14,450.00
46203	07/18/23	P	0283	CONTINENTAL UTILITY SOLUTIONS	\$51.70
46204	07/18/23	P	0464	ENVIROKLEEN USA	\$650.00
46205	07/18/23	P	0164	EXCEL TELEMESSAGING	\$130.00
46206	07/18/23	P	0389	FRONTIER COMMUNICATIONS	\$879.48
46207	07/18/23	P	0099	GRAINGER INC	\$325.04

* Check Status Types: "P" - Printed ; "M" - Manual ; "V" - Void (Void Date) ; "A" - Application ; "E" - EFT
** Denotes broken check sequence.

La Habra Heights CWD
AP Check Register (Current by Bank)
 Check Dates: Greater than 6/7/2023

Check No.	Date	Status*	Vendor ID	Payee Name	Amount
46208	07/18/23	P	0369	HIGHROAD INFO TECHNOLOGY	\$5,877.03
46209	07/18/23	P	0153	HOME DEPOT CR SERVICES	\$1,542.21
46210	07/18/23	P	0536	IB CONSULTING, LLC	\$2,855.00
46211	07/18/23	P	0475	INDUSTRIAL SCIENTIFIC CORP	\$270.72
46212	07/18/23	P	0205	JOE MATTHEWS	\$90.00
46213	07/18/23	P	0501	JORDAN KEAR	\$12,400.00
46214	07/18/23	P	0051	LINCOLN FINANCIAL GROUP	\$3,355.08
46215	07/18/23	P	0534	ODP BUSINESS SOLUTIONS, LLC.	\$663.60
46216	07/18/23	P	0495	PUBLIC WATER AGENCIES GROUP	\$875.00
46217	07/18/23	P	0363	RWS OF SOUTHERN CALIFORNIA	\$702.29
46218	07/18/23	P	0258	S&J SUPPLY CO, INC	\$298.68
46219	07/18/23	P	0147	SAN GABRIEL VALLEY WATER CO	\$62.76
46220	07/18/23	P	0068	SOUTHERN CALIF EDISON CO	\$15,645.12
46221	07/18/23	P	0427	TPX COMMUNICATIONS	\$519.42
46222	07/18/23	P	0012	VULCAN MATERIALS COMPANY	\$1,041.91
46223	07/18/23	P	0542	WIENHOFF DRUG TESTING	\$75.00
BANK 13110 REGISTER TOTAL:					\$288,560.34
GRAND TOTAL :					\$301,939.86

* Check Status Types: "P" - Printed ; "M" - Manual ; "V" - Void (Void Date) ; "A" - Application ; "E" - EFT
 ** Denotes broken check sequence.

Michael Silander

Attorney at Law
2629 Townsgate Road, Suite 235
Westlake Village, CA 91361

INVOICE

DATE: JUNE 1, 2023

TO:

La Habra Heights County Water District
1271 Hacienda Road
La Habra Heights, CA 90631

PLEASE REMIT PAYMENT TO:

Michael Silander
2629 Townsgate Road, Suite 235
Westlake Village, CA 91361



SPECIFICATIONS:

LHHCWD/TOTAL

Invoice for legal services rendered in May 2023.

MATTER	HOURS	AMOUNT
Transactional 1 – General	14.0	\$1,750.00
Transactional 2 – PFAS litigation	0.0	\$0.00
Transactional 3 – Well No. 12	0.0	\$0.00
Retainer	Flat fee	\$1,250.00
		TOTAL: \$3,000.00

Please make all checks payable to Michael Silander
If you have any questions concerning this invoice,
please email michael@silanderlaw.com or call 805-490-9247

Michael Silander

Attorney at Law

2629 Townsgate Road, Suite 235

Westlake Village, CA 91361

INVOICE

DATE: JULY 1, 2023

TO:

La Habra Heights County Water District
1271 Hacienda Road
La Habra Heights, CA 90631



PLEASE REMIT PAYMENT TO:

Michael Silander
2629 Townsgate Road, Suite 235
Westlake Village, CA 91361

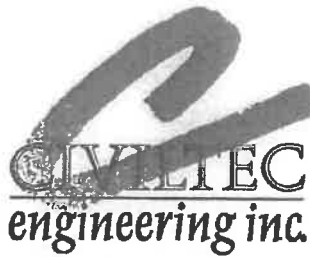
SPECIFICATIONS:

LHHCWD/TOTAL

Invoice for legal services rendered in June 2023.

MATTER	HOURS	AMOUNT
Transactional 1 – General	16.3	\$2,037.50
Retainer	Flat fee	\$1,250.00
		TOTAL: \$3,287.50

Please make all checks payable to Michael Silander
If you have any questions concerning this invoice,
please email michael@silanderlaw.com or call 805-490-9247



Civil, Water, Wastewater, Drainage and Transportation Engineering
Construction Management • Surveying
California • Arizona

2

June 7, 2023

La Habra Heights County Water District
1271 North Hacienda Road
La Habra Heights, CA 90631

Attention: Michael Gualtieri, General Manager

Subject: Engineering Activities for the Month of May 2023
Invoice Backup Support - Billing Period through June 2, 2023

Dear Mr. Gualtieri:

The La Habra Heights County Water District requires Engineering Support from *CIVILTEC engineering, inc. (Civiltec)* at times on various projects. This work is provided on a time and materials basis when requested and directed by LHCWD management. Following is an explanation of time spent to back up the May 2023 invoicing. The numbering system is the *Civiltec* project number and tracking system.

2022153.00 – General Engineering Support. This project has been established to aid the District in general engineering inquiries, participate in meetings, hydraulic modeling and calibration and overall engineering support. The total budget for General Engineering Support has been established at \$25,000.00 for each Fiscal Year. Below is an accounting of expenditures under this *Civiltec* job number for FY 2022-23.

David prepared for and attending the May 16, 2023 Water Rate Hearing in La Habra Heights. A total of 4 hours were spent with a total expense of \$1,000.00. David and Ariel worked on the field fireflow test vs a comparable computer model simulation for 1700 Kanola. Results were provided to the District. The total expense was \$648.75. There were expenditures of \$1,648.75 in the month of May 2023. The remaining budget is \$14,086.25.

2022154.00 – Engineering Fireflow Modeling FY22-23. This project has been established to aid the District with computer model simulations for fire flow requests by LHCWD customers. Below is an accounting of expenditures under this *Civiltec* job number for FY 2022-23.

There were expenditures of \$2,106.25 in the month of May 2023. We have set up new project numbers per fire flow simulation. We are using this main number 2022154 and have put extensions starting with .01 for the first request.



1.	2022154.01	1938 Ganter	\$406.25
2.	2022154.02	1717 El Travesia	\$441.25
3.	2022154.03	1700 Kanola Road	\$275.00
4.	2022154.04	West of 1610 East Road	\$382.50
5.	2022154.05	244 Virazon Drive	\$476.25
- 6.	2022154.06	858 Reposado Drive	\$125.00 (to be completed in June)

2020135.00 – Greenview Pipeline and PRV Station. LHCWD has completed the construction of a new pipeline extension on Greenview to complete a piping loop. The pipeline is operational. As-built drawings have been completed. LHCWD is working with Brkich Construction on the final change order and paperwork. The overall engineering and construction support budget for the project is \$43,500.00. There were expenditures of \$875.00 in the month of May 2023. The remaining budget is \$99.47.

2020203.00 – Vigil Reservoir Drain Outlet Repair. LHCWD plans to repair the existing outlet structure that was damaged during a tank overflow event. The drain rock, shotcrete, reinforcing fabric and concrete energy dissipater have been damaged. In order to get a contractor on board, the design must be finalized and placed out to bid. We are currently working on the design to replace the riprap. The overall engineering budget for the project is \$39,500.00. There were expenditures of \$4,125.00 in the month of May 2023. The remaining budget is \$5,720.00.

2022169.00 – Well No. 12 Well Siting Study. LHCWD plans to drill a new well in the Judson Well Field. The Board of Directors authorized the *Civiltec* Well Siting Proposal in their meeting of September 27, 2022. We have completed site utility and mapping research and have conducted the site topographic survey of the site on the north end of the Mobile Home Park. A large storm drain box structure is located near the proposed well location that has caused a pause in the study. A site visit was conducted in February to review the site with Jordan Kear.

A new site at the south end of the Mobile Home Park was field reviewed. LHCWD and ODWD want to study this site for the new well. *Civiltec* issued a budget modification request on March 14, 2023 in the amount of \$17,900 that was approved by both District General Managers on March 15, 2023. In the month of March, April and May, the new site was surveyed, the topo map has been plotted, utility research is ongoing and preliminary site layouts have been produced for review. *Civiltec* has met with Jordan Kear and both District Managers to discuss his hydrogeology work. Mr. Kear is moving forward with finalization of the hydrogeology report and bidding documents. The new engineering budget for the project was increased from \$86,590.00 to \$104,490.00. There were expenditures \$5,820.00 in May 2023. The remaining budget is \$54,709.00.

La Habra Heights County Water District
Mr. Michael Gualtieri, General Manager
Engineering Activity Report for May 2023
June 7, 2023
Page 3



I hope this information helps with your processing of the project invoices. Please let me know if you have any questions.

Very truly yours,

CIVILTEC engineering, inc.

A handwritten signature in black ink, appearing to read 'W. David Byrum', is written over a horizontal line.

W. David Byrum, P.E.
President, Principal Engineer

REPORT OF SUPERINTENDENT

LA HABRA HEIGHTS COUNTY WATER DISTRICT

MEMORANDUM

DATE: 7/20/23

TO: MIKE GUALTIERI, BOARD OF DIRECTORS

FROM: JOE MATTHEWS, SUPERINTENDENT

SUBJECT: SUPERINTENDENT'S REPORT FOR JULY 2023

Maintenance required due to rain

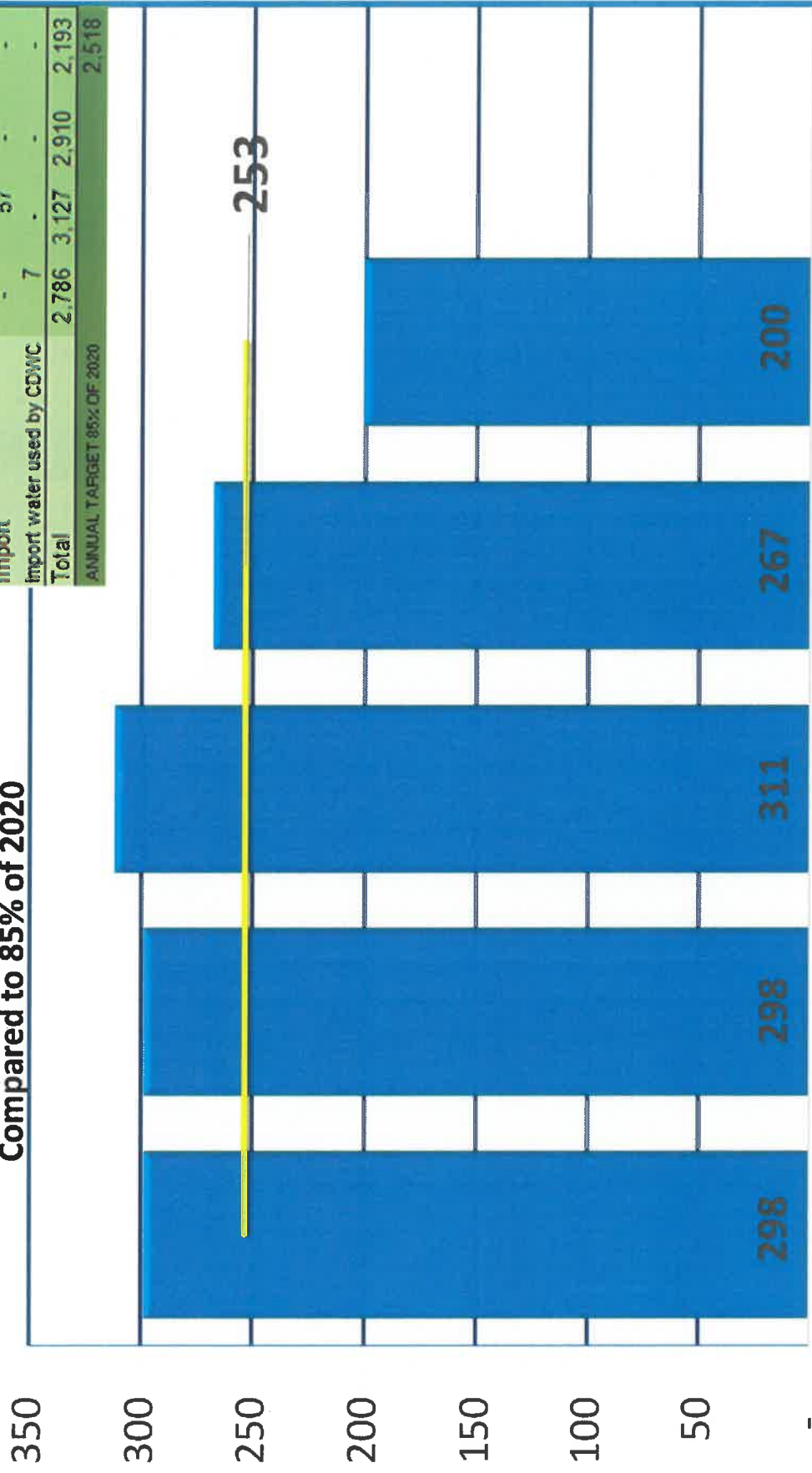
- Asphalt around the office and yard is need of repair. Regan Paving was contracted to remove and replace asphalt and apply topcoats of asphalt seal to our parking lot and yard.
- An old, covered wooded storage area built behind the shop has started to fall. Key items were moved to prepare for removal of the damaged storage area. After asphalt repairs are complete, we will install a storage shed in the yard to make up for the lost storage in the shop.
- The trailer in the yard has signs of leakage from the rain. We are in the process of receiving quotes from contractors to assess the damage and make repairs.

LA HABRA HEIGHTS COUNTY WATER DISTRICT

Production in acre feet for JUNE

Compared to 85% of 2020

ANNUAL WATER USAGE					
Water Source	2019/2020	2020/2021	2021/2022	2022/2023	
Groundwater	2,779	3,070	2,910	2,193	
import water used by CDWC	-	57	-	-	
Total	2,786	3,127	2,910	2,193	2,518
ANNUAL TARGET 85% DF 2020					



2020 Import

Import water used by California Domestic Water Company from District's Central Basin Municipal Water District connection

Groundwater

85% of 2020 Month Target

**PRESENTATION, DISCUSSION AND
ACTION
NEW WELL #12**

LA HABRA HEIGHTS COUNTY WATER DISTRICT

MEMORANDUM

DATE: JULY 19, 2023

TO: BOARD OF DIRECTORS

FROM: MICHAEL GUALTIERI, SECRETARY/ GENERAL MANAGER

SUBJECT: NEW WELL #12

Civiltec Engineering and Kear Groundwater will provide a presentation on the new well location and drilling depth. After the presentation we will discuss and take any action if necessary.

Also, attached please find Kear Groundwater's report.



TO: Mike Gualtieri
LHHCWD General Manager

FROM: Kear Groundwater
P.O. Box 2601
Santa Barbara, CA 93120-2601

DATE: July 19, 2023 Update

SUBJECT: *New Well No. 12 Preliminary Design Recommendations
La Habra Heights County Water District, Los Angeles County, California 90631*

Dear Mr. Gualtieri,

This memorandum provides a summary of Kear Groundwater's (KG) hydrogeologic evaluation of the planned new groundwater supply 'Well No. 12' within La Habra Heights County Water District's (LHHCWD) Judson Well Field area, a replacement for the aging and soon-to-be-destroyed Well No. 9. The new public supply well is to be located near the southern tip of the property bearing Assessor Identification Number (AIN) 8176-002-270, while remaining at least 50 feet laterally from local sewer lines for sanitary setback requirements. The production capacity goal is between 3100 to 3500 gallons per minute (gpm), per Civiltec (2022).

KG recommends drilling a new borehole penetrating into the freshwater-bearing strata of Los Angeles Plain's Central Basin to a total recommended depth of around 890 ft below ground surface (bgs). Groundwater quality of target zones should be vertically assessed with multiple aquifer zone isolation tests (AZITs) in the pilot borehole to avoid setting casing perforations directly adjacent to any particularly poor aquifers at depth. Water quality of the final pumped blend should also be somewhat optimized by an adequately deep (200+ ft) cement sanitary seal to maintain sufficient separation/groundwater travel times from the nearby spreading grounds. If equipped with a 20-inch-diameter high-strength-low-alloy (HSLA)-over-stainless steel casing, a pump and power, a well at this location and depth should achieve production goals at significantly reduced construction costs as compared to the deeper design approach, due to the reality that above-ground treatment for per-/polyfluoroalkyl substances (PFAS) removal is a virtual certainty regardless of casing depth at the new public supply well given the very low (4 ppt) maximum contaminant level postulated since project inception.



A summary of our efforts, findings, conclusions, and more detailed recommendations follows.

La Habra Heights County Water District

LHHCWD's service area covers about 3900 acres along the south slopes of the Puente Hills above the Los Angeles coastal plain (Figure 1 for aerial location map), with a service population of 5682 residents in 2020 (Civiltec, 2022). LHHCWD operates four production wells (Nos. 8 [to be placed on 'standby' in near future], 9 [removed from service in March 2022], 10, and 11) at the Judson Well Field, adjacent to the San Gabriel River Coastal Spreading Grounds, to meet its current annual allowed pumping allocation of 2666 acre-ft per year (AFY) from the adjudicated Central Basin of the Los Angeles Coastal Plain (Department of Water Resources [DWR] Bulletin 118, No. 4-11.04). The blended groundwater is then conveyed approximately 4.5 miles southeast via the La Mirada Transmission Pipeline/Conduit to the La Mirada Reservoir and Pumping Plant (La Mirada), a contractual portion of which flows by gravity to the Orchard Dale Water District (ODWD). The remaining groundwater is pumped an additional 3 miles to the LHHCWD service area in the Puente Hills and distributed throughout the water system. Additionally, the LHHCWD receives imported surface water (State Water Project and Colorado River) via the Central Basin Municipal Water District's (local member agency of the Metropolitan Water District of Southern California) No. 47 turnout on the Lower Feeder. LHHCWD can also obtain water from an emergency interconnection with California Domestic Water Company.

The four existing District wells have a total production capacity of 6071 gpm as of September 2021 pumping tests, with about 904 gpm at No. 8, 582 gpm at No. 9, 2191 gpm at No. 10, and 2394 gpm at No. 11. LHHCWD's portion of that production capacity is about 68% of the total. Per the WRD GIS Database, in the 10 calendar years between the start of 2013 and end of 2022, pumping averaged about 558 AFY at Well No. 8, about 311 AFY at No. 9 (includes no pumping until 2015), about 1005 AFY at No. 10, and about 900 AFY at No. 11. The cumulative annual average production over that time is about 2774 AFY. Peak usage typically occurs in the month of July or August at around 330 total acre-ft with December or January lows around 132 acre-ft.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



Well Nos. 8 and 9 (*State Well Numbers [SWNs] 02S/11W-19F01S and -19M01S*, respectively), both drilled in 1950, have periodically been removed from service due to water quality or production issues and are approaching the ends of their respective service lives. The two older, shallower, lower-producing wells are equipped with 20-inch-diameter mild-steel casings to depths between 650 and 728 ft (present depth 677 ft per Civiltec, 2022), respectively. Civiltec (2015) previously found that “replacement of [Well Nos. 8 and 9] is paramount to the District’s ability to meet long-term future demands utilizing groundwater as a sole source,” especially during high summer demand months.

Per the Well Completion Reports, the two primary producing District wells (Nos. 10 and 11) were constructed in 1999 to 810 ft by the Layne Christensen Company (Layne) and in 2001 to 805 ft by Beylik Drilling, Inc. (Beylik), respectively. Well No. 10 (*SWN 02S/11W-19P02S*) consists of a 20-inch inner-diameter copper-bearing steel casing with perforations (as 0.090-inch aperture slots) from 360 to 420 ft, 460 to 500 ft, 580 to 700 ft, and 740 to 800 ft; the well reportedly produced 3000 gpm over a 40-hour constant-rate test following its construction in April 1999, during which the water level drew down from its static point of 37 ft to a pumping level of 71 ft (34 ft drawdown, or a specific capacity of about 88 gpm per ft ddn). Well No. 11 (*SWN 02S/11W-19P03S*) consists of a 20-inch inner-diameter low-carbon steel casing with perforations (as 0.090-inch aperture slots) from 210 to 405 ft, 480 to 505 ft, 590 to 705 ft, and 765 to 795 ft; the well reportedly produced 4000 gpm over a 24-hour constant-rate test in May 2001, during which the water level the water level reached a pumping level of 91 ft from its static point of 40 ft (51 ft drawdown, or a specific capacity of about 78 gpm per ft ddn).

KEAR GROUNDWATER



Central Basin of the Los Angeles Coastal Plain

The Los Angeles Coastal Plain is a deep sedimentary basin bounded to the northwest by the Santa Monica Mountains, to the northeast by the Elysian, Repetto, Merced, and Puente Hills, and to the south by the Palos Verdes Hills and Pacific Ocean. A low topographic divide (Coyote Creek) along the Los Angeles County-Orange County line separates the Los Angeles Plain from the Orange County Coastal Plain, which extends east to the Santa Ana Mountains. The Los Angeles Plain is divided into four sub-basins: the Santa Monica, Hollywood, Central, and West Coast Basins. The Central Basin is bounded by faults to the north and south; the Newport-Inglewood Fault separates the West Coast Basin to the south and the Whittier Fault is to the north and bounds the low-lying hills. An extensive network of folds and concealed (blind) thrust faults is associated with the Whittier Fault.

Figure 2 presents the geologic map. Freshwater-bearing formations of the Central Basin are found within Holocene-aged alluvium (containing the delineated Gaspar Aquifer) and the Pleistocene-aged Lakewood Formation (Artesia, Exposition, Gardena, and Gage Aquifers), which locally includes the La Habra Formation, and San Pedro Formation (Hollydale, Jefferson, Lynwood, Silverado, and Sunnyside Aquifers). Underlying the principal aquifers is the Pico Formation, with some freshwater extracted from coarser strata in its upper portion (e.g. DWR, 1961). The Pico is sometimes referred to as the upper member of the Fernando Formation, separated from the lower Fernando Formation.

Table 1 summarizes the geologic formations and aquifer layers of the Central Basin.

The Central Basin has historically been divided into four sections as defined by the DWR (1961): the Los Angeles Forebay, the Montebello Forebay, the Whittier Area, and the Pressure Area. The two forebays represent areas of unconfined aquifers that allow surface water percolation into the deeper aquifers (recharge); the Whittier Area and Pressure Area are confined aquifer systems with an overlying clay layer that receive minimal direct surface water recharge and are instead replenished from the upgradient forebay areas or adjacent groundwater basins. Confined conditions provide some protection from some surface contamination (MWD, 2007).

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



Natural recharge to Central Basin groundwater aquifers primarily occurs through percolation along the unlined portions of the Rio Hondo and San Gabriel Rivers, which drain from the San Gabriel Mountains through the San Gabriel Valley before pinching through the 1.5-mile-wide Whittier Narrows and spilling into the Los Angeles basins. The San Gabriel River is unlined from Morris Dam to Whittier Narrows Dam, along with portions of the Rio Hondo, Walnut Creek, and San Jose Creek. The annual streamflow at the gaging station below Whittier Narrows Dam averaged about 60,000 AFY between 1950 and 2010 (Stetson Engineers Inc, 2016).

Artificial recharge to Central Basin aquifers primarily occurs at spreading facilities behind the Whittier Narrows Dam and adjacent to the rivers in the Montebello Forebay. The largest volume of recharge in the Central Basin occurs in the Montebello Forebay via the spreading grounds and instream facilities (behind inflatable dams) along the San Gabriel River. Surface water along these rivers is derived from stormwater runoff (when seasonally available) and from recycled water of the upstream water reclamation plants. Tertiary effluent from several sewage treatment plants is discharged into the San Gabriel River. Artificial recharge of the basin via the spreading grounds and a direct injection barrier averages about 142,500 AFY, with production averaging about 205,000 AFY (CH2M Hill, 2016).

Following groundwater overdraft and chronic water level declines, groundwater rights of the Central Basin were originally adjudicated in 1965 by a County of Los Angeles Superior Court Judgment. Since that time, ground extraction from the Central Basin has been limited to the Judgment amount and monitored by a Court-appointed Watermaster. The Judgment was most recently amended for the third time in 2013, with WRD formally confirmed as the Watermaster's administrative body for accounting/reporting functions. The Judgment limits the amount of groundwater each Party may extract annually from the Basin (the Allowed Pumping Allocation [APA]). In the Central Basin, Parties are allowed to extract up to 140% of the sum of their APA and leased water (total extraction right). The cumulative APA right for the Basin is 217,367 AFY. Every groundwater pumper reports its extractions to the Watermaster once per month.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



TABLE 1: CENTRAL BASIN AQUIFERS			
AGE	FORMATION	AQUIFER	AQUIFER SYSTEMS
HOLOCENE	ACTIVE DUNE SAND	SEMIPERCHED	RECENT AQUIFER SYSTEM
		GASPUR BALLONA	
UPPER PLEISTOCENE	OLDER DUNE SAND	EXPOSITION ARTESIA	LAKEWOOD AQUIFER SYSTEM
	LAKWOOD FORMATION		
	LA HABRA FORMATION UN-NAMED FORMATION		
LOWER PLEISTOCENE	SAN PEDRO FORMATION	HOLLYDALE	UPPER SAN PEDRO AQUIFER SYSTEM
		JEFFERSON	
		LYNWOOD (400 FOOT GRAVEL)	
		SILVERADO	LOWER SAN PEDRO AQUIFER SYSTEM
SUNNYSIDE LOWER SAN PEDRO			
UPPER PLOCENE	PICO FORMATION		

Upper Aquifer Systems

Lower Aquifer Systems

Modified from DWR (1961), USGS (2003)

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM

CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



Sunnyside Aquifer at the Judson Well Field

The Sunnyside Aquifer is also referred to as the Lower San Pedro Aquifer (USGS, 2003). The coarsest part of the aquifer system is generally its basal portion that is as much as 100 ft thick. Per DWR (1961), the system within the Central Basin beneath the Silverado but above the Pico was designated the “Sunnyside” after the type well log occurrence located in Sunnyside Cemetery in North Long Beach. The aquifer is up to about 500 ft in total thickness and comprised of blue-gray marine-deposited coarse-grained sands and gravels separated by fine-grained aquitards of sandy clay and clay. The sedimentary deposits in the Montebello Forebay generally thicken and deepen toward the south toward the Pressure Area of the Central Basin (e.g., Todd Groundwater, 2015). In the forebay areas, the total aquifer thickness is up to about 1600 ft but reaches about 2200 ft in the pressure areas (MWD, 2007).

WRD routinely collects groundwater samples from its suite of nested monitoring wells, including four sites along a general west-to-east transect between the Rio Hondo Spreading Grounds and the Whittier Area around La Mirada (Rio Hondo No. 1, Pico No. 2, Whittier No. 2, and Whittier No. 1; see Figure 1 for well locations). Each of these monitoring well pilot boreholes was generally drilled entirely through the aquifer systems and into the underlying Pico Formation. The well nests typically consists of four to six 2-inch-diameter PVC monitoring wells installed at different depths, such that groundwater levels, water quality, and hydraulic properties for different aquifers can be monitored at the same location. Nested well screens are typically 20 ft long and consists of 0.020-inch-aperture slots, with seals between each casing.

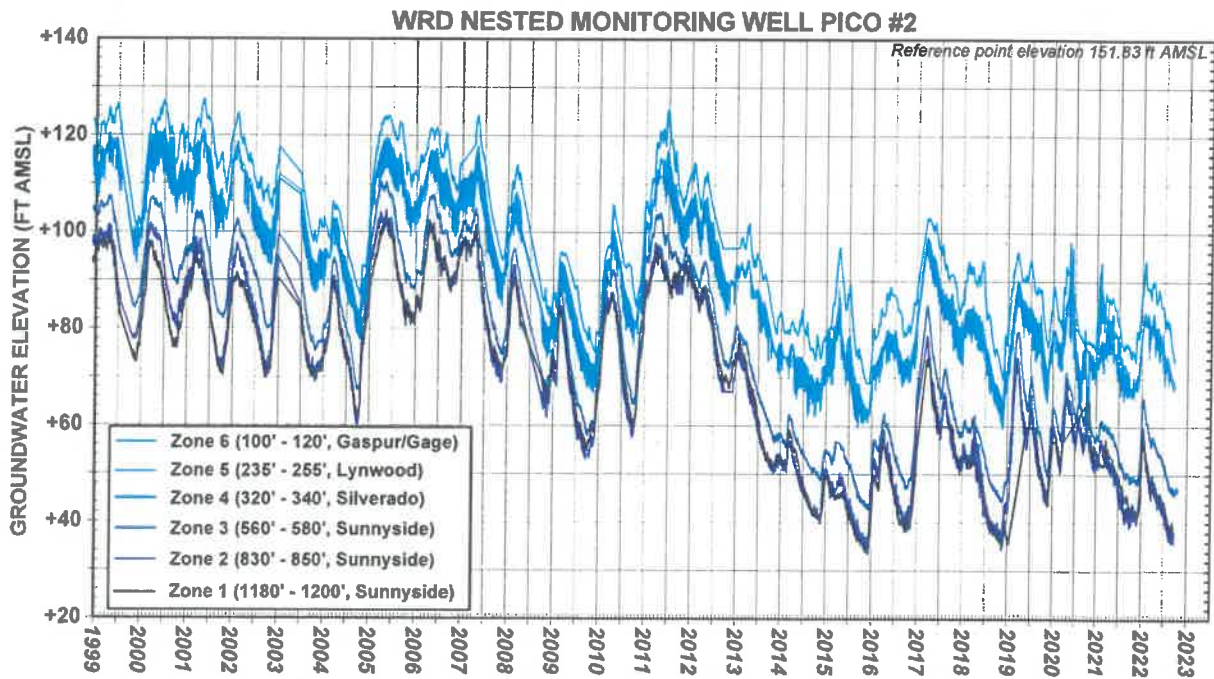
Per WRD, the Pico No. 2 monitoring well (Zone 1) is perforated adjacent to the Sunnyside Aquifer at its three deepest zones, ranging from 560 ft (top of Zone 3) to 1200 ft (bottom of Zone 1) (*note*: some WRD charts label Zone 1 as adjacent to the uppermost Pico Formation [e.g., Figure 4.2; WRD, 2023]). At that nested site, the vertical gradient is downward across all aquifer units, with approximately 30 ft of head difference between the Gardena (shallow) and lower Sunnyside (deep) well screens (e.g., CH2M Hill, 2016); see Chart 1 on the following page, modified from WRD (2023). This suggests that the Sunnyside Aquifer is the most heavily pumped in the area (WRD, 2023). In general, the majority of groundwater production is from the

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



deeper San Pedro Formation including the Lynwood, Silverado, and Sunnyside aquifers (e.g., MWD, 2007). Water level responses are vertically similar at monitoring wells in the Montebello Forebay, with general hydraulic communication between aquifers and seasonal highs and lows in response to recharge and pumping (WRD, 2023). Seasonal fluctuations range between about 10 and 30 ft at the Pico No. 2 wells, with a long-term net decline of about 40 ft since 1999 in the lower aquifer units through late 2023 (prior to the recent recharge following the very wet 2022-23 winter). Groundwater levels in the Whittier Area do not show seasonal fluctuations like the adjacent forebay, suggesting limited direct groundwater discharge and recharge therein.



At Rio Hondo No. 2, located due westerly of Pico No. 2, WRD interprets the uppermost Pico Formation adjacent to its deepest zone from 1110 to 1130 ft (Zone 1); at Whittier No. 2, located northeasterly of Pico No. 2 (and with the Judson Well Field about halfway between the two sites), WRD interprets the uppermost Pico Formation adjacent to its two deepest zones, ranging from 1090 ft (top of Zone 2) to 1390 ft (bottom of Zone 1).

Figure 3 compares the design schematics of the Well Nos. 8, 9, 10, and 11 with the preliminary new Well No. 12 at the Judson Field, using a type log from the Pico No. 2 borehole.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



Groundwater Quality

Overall recent groundwater quality across the Central Basin, as revealed by the WRD nested monitoring wells, indicate relatively low total dissolved solids (TDS) concentrations in the producing aquifers (WRD, 2023). TDS concentrations exceed the upper secondary maximum contaminant level (sMCL) of 1000 ppm at about 10% of the individual well zones. Imported water typically has a higher concentration of TDS, chloride, and sulfate than the local groundwater (Civiltec, 2015). Groundwater from the four active LHCWD wells has a calcium-bicarbonate/sulfate water character with a recent average TDS concentration of about 595 mg/L.

Given the proximity of the Judson Well Field to the spreading grounds of the Montebello Forebay, where treated effluent and stormwater directly recharges the aquifer systems, the planned new public supply well will likely still require treatment for PFAS removal. The unconfined and merged aquifers of the forebay allow for contaminant transport into the Lower Aquifer System, where perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) can accumulate due to their slow biodegradation. In March 2023, the United States Environmental Protection Agency (EPA) proposed (but not yet formally established) maximum contaminant levels (MCLs) of 4 parts per trillion (ppt or ng/L) for both PFOA and PFOS, which is substantially stricter than the earlier established (nonregulatory) lifetime health advisory level of 70 ppt (individual or combined) and also lower than the California State Water Resources Control Board (SWRCB) interim **notification levels** of 5.1 ppt for PFOA and 6.5 ppt for PFOS and **response levels** of 10 ppt for PFOA and 40 ppt for PFOS. The response level is set higher than a notification level and represents the point at which water systems must remove a water source from use, treat the water delivered, blend the water with an unaffected source, or provide public notification (including information on the increased health risks).

Over the 2019 to 2022 period of available data, all active LHCWD wells produced groundwater blends that exceed the EPA proposed regulatory MCL of 4 ppt for both PFOA and PFOS. The four wells exceed the state response level of 10 ppt for PFOA at all but No. 8 (which is still above the notification level of 5.1 ppt); Nos. 10 and 11 can exceed the response level of 40 ppt for PFOS, with Nos. 8 and 9 still above the notification level of 6.5 ppt. Vertical quality

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



results from the nested Pico No. 2 site, just south of the spreading grounds, revealed PFOA/PFOS above response levels even at the 830-850 ft Zone 2. Only the deepest 1180-1200 ft Zone 1 within the lowermost Sunnyside Aquifer is absent (below the laboratory detection limits) of PFOA but it too can exceed notification levels for PFOS.

INTERA Incorporated (INTERA) and WRD conducted zone-specific PFAS sampling and flow profiling at LHHCWD Well No. 11 in 2020, revealing that while the majority of flow came from a lower screen interval (54% of the 2649 gpm testing rate from the 590 to 705 ft screen), the highest PFOA/PFOS concentrations (above state response levels) occurred in the upper portion of the shallowest screen and the second shallowest screen intervals (Singh et al. [INTERA], 2020). PFOA/PFOS concentrations above the state notification levels (but generally below the response levels) were also detected in the lower screens. As such, INTERA considers wellhead treatment as the best long-term option for addressing PFAS contamination.

PFAS contamination in public water supplies is most commonly treated with granular activated carbon (GAC), reverse osmosis (RO)/nanofiltration, or (an)ion exchange (IX) systems (e.g., AWWA, 2019). Recycled wastewater from fully advanced treatment technologies should have PFOA/PFOS concentrations below detection limits. GSI Environmental Inc. (GSI) and WRD conducted a 12-month pilot study over 2020-2021 reviewing the efficacy of four IX resins and four GACs to remove PFAS from LHHCWD Well No. 10 pumped groundwater (GSI, 2021). The listed pumping rate from the well was 2200 to 2400 gpm; PFOA ranged between 11 to 15 ppt and PFOS between 30 to 50 ppt.

Table 2 summarizes the key constituent concentrations for recent data at Well Nos. 8, 9, 10 and 11 of the Judson Field and at the Pico No. 2 vertical zones.

KEAR GROUNDWATER



TABLE 2: RECENT QUALITY RESULTS FROM LHHICWD PRODUCTION WELLS vs. PICO No. 2 NESTED MONITORING WELLS

SAMPLE	DATE	TDS (mg/L)	EC (µS/cm)	Major Cations (mg/L)				Major Anions (mg/L)				1,4-Dioxane (µg/L)	Per-chlorate (µg/L)	Hexavalent Chromium (µg/L)	TCE (µg/L)	PCE (µg/L)	PFOA (ng/L)	PFOS (ng/L)
				Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	Cl ⁻	SO ₄ ⁻								
LHHICWD No. 8	16-Mar-22	590	890	92	17	71	4.60	160	100	140	0	0	0.39	0	0	11	34	
LHHICWD No. 9	7-Dec-21	500	910 (26-Jul-21)	81	17	80	5.00	180	110	93	0	0	0.47	0	0	11	20	
LHHICWD No. 10	17-Dec-20	650	1000	110	21	69	4.60	240	110	170	1.6 (14-Feb-22)	0 (25-Oct-21)	0.79	0	0	14	35	
LHHICWD No. 11	12-Dec-22	640	910	110	20	64	4.60	180	100	150	1.6 (12-Feb-17)	0	0.76	0	0	11	34	
Pico No. 2 Zone 6 (100-120 ft)	29-Aug-22	480	850	52.7	15	83	10.0	160	110	100	0.49	0.48	0.56	0	0	15	41	
Pico No. 2 Zone 5 (235-255 ft)	29-Aug-22	540	800	49.9	14	77	5.4	150	110	89	0.68	0.61	0.65	0	0	10	11	
Pico No. 2 Zone 4 (320-340 ft)	29-Aug-22	470	790	60	12.7	69	4.9	160	98	87	0.58	0.45	0.72	0	0	13	18	
Pico No. 2 Zone 3 (560-580 ft)	29-Aug-22	560	900	102	20	45	4.7	230	90	120	1.7	0.79	1.60	0	1.70	13	35	
Pico No. 2 Zone 2 (830-850 ft)	29-Aug-22	680	1000	121	24	42	4.5	240	110	140	0.93	0.50	0.98	0	0.59	15	41	
Pico No. 2 Zone 1 (1180-1200 ft)	29-Aug-22	590	870	118	20.9	25	4.1	240	67	130	2.8	1.40	1.30	0	0.65	0	6.1	
MAXIMUM CONTAMINANT LEVELS				[1000]	[1600]	-	-	-	500	500	35	6	10	5	5	4*	4*	4*

*Proposed Only

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
 CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



PRELIMINARY NEW WELL NO. 12 DESIGN RECOMMENDATIONS

Our recommended approach includes permitting through Los Angeles County, WRD, and any other applicable agency. Permissibility of new well construction to the total recommended depth should be ensured prior to action. Subsurface utilities should be adequately located as part of a standard utility clearance operations. The new well must be located at least 50 ft laterally from the sewer line that runs approximately parallel to the south-southeastern property boundary.

Figure 4 and its inset present the recommended well location and projected areas for the drilling rig and equipment, including the temporary construction easement area (which should be properly negotiated and recorded, if necessary).

A separate permit should first be submitted for the destruction of Well No. 9 to County standards. This work should be completed prior to new Well No. 12 driller mobilization. After Well No. 9 destruction, new well construction permit retention, and site preparation, a drilling rig and equipment should be mobilized to the site. Temporary noise attenuation barriers and ground vibration monitoring, as well as a neighborhood notification process, may be useful to minimize potential disturbances to neighboring properties or residents and quantify the potential nuisances.

At the new Well No. 12, the conductor borehole should first be advanced via an auger rig from ground surface to 50 ft bgs. The 36-inch-diameter mild steel conductor casing should then be installed to the same depth and its annulus sealed with cement. That auger drilling rig should then move over to the No. 9 parcel and drill the 24- to 84-inch-diameter by 50-ft-deep (assuming still above the water table) dry receptor boreholes (likely four total); these boreholes should be used for disposal of groundwater from the future new well, particularly during its yield testing after well completion, along with the existing infiltration pit at the Well No. 9 site.

After complete site preparation, a reverse-circulation rotary drilling rig should then mobilize advance the pilot borehole from the base of the conductor at 50 ft bgs, continuing through the veneer of alluvium to about 100 ft bgs before penetrating through the entire thickness of the Lakewood Formation and then into the upper and then lower San Pedro Formation. The total recommended exploration depth is about 890 ft bgs based on the Pico No. 2 type log.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



The exploration borehole should be advanced via reverse circulation rotary drilling methods to allow for collection of drill cuttings, to maintain borehole stability, and to provide a fluid to facilitate geophysical logging, including electric logging, deviation, and sonic/variable density logging. The geophysical logs inform well design, intending to prevent casing or screening the well in poor quality zones. AZITs should quantify water quality in target zones, including for contaminants such as PFOA/PFOS. The final well completion should be designed, if advisable, after geologist's review of the drilling data, geologic information, down-hole geophysical surveys and any zone tests completed in the pilot borehole.

Should the exploration bore indicate viable conditions for well completion and a design agreed upon, the same drilling rig then reams the pilot exploratory borehole out to a larger diameter, as needed, in order to accommodate the well casing and permanent annular materials. The pilot borehole could be reamed out to a 34-inch (minimum) upper diameter that reduces to a 28-inch (minimum) lower diameter, which should accommodate the 20-inch-diameter HSLA-over-stainless steel well casing and ancillary tubings (sounding tube with camera entrance port and agravel feed tube). Refer to the Figure 3 cross section for the preliminary well design schematic.

Following casing installation, gravel pack is then emplaced in the annular space and cement/bentonite seal(s) emplaced above the gravel pack and/or adjacent to poor quality zones. Intermediate bentonite seals at depth could isolate discrete perforation intervals/aquifer systems. A 200-ft deep cement sanitary seal is recommended to sufficiently restrict direct well connection with the shallowest aquifers and nearby spreading grounds. A sounding tube typically enters the well casing via a camera entrance port immediately above the uppermost set of perforations (or in a lower blank section if the permanent pump could potentially be equipped lowered that top of perforations), and allows for assessment activities including video surveying, flow meter testing, and downhole sampling (and potentially rehabilitation) access without removing the pump. The gravel feed tube aids in future well development.

Mechanical development and test pumping, collection and analyses of water quality samples, and equipping the well with appropriate infrastructure then follows. Qualified hydrogeologic personnel should be present during all key periods of drilling, construction, development, and

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



testing to assist in the decision processes toward well completion.

After testing, a permanent pump, power, and infrastructure should be designed and installed at the well. Recordation of the well and extractions via the WRD and complying with their ordinances and allocations is key for production operations.

For each active well, KG recommends establishing regular schedule of operation and maintenance procedures, including collection of water quality samples and measurement of static/pumping water levels and flow rates. It is recommended that the wells not be produced on a continuous, 24-hour-per-day basis and that regular servicing be performed, including shutdown periods (at least a few hours of non-pumping) to provide surging action and backwash fine-grained formation materials. If specific capacities decline, or other indicators of imminent well aging problems such as increases in iron, manganese, turbidity, odor or sand production, the wells should be considered for rehabilitation, including pump removal, inspection via video surveys to determine any necessary rehabilitation work (such as jetting or chemical treatment). KG also recommends that each well (if not already) is equipped with a variable frequency drive so that flow rates can be adjusted in response to changing water levels with time. Continued use and monitoring of water levels and production rates is imperative as rates are optimized and adjusted to long-term use, precipitation, and aquifer response patterns.

We look forward to our continued involvement with LHHWCWD: our subsequent contracted tasks include preparation of bid guidelines for new well construction, permitting assistance (including for spreading of pumped water into the drywells at the Well No. 9 site), and field support during drilling, construction, development, and testing at the new well, culminating with preparation of a summary of operations report that documents all well construction details.

Please do not hesitate to contact us with any questions.



Best Regards,

Jordan Kear
Principal Hydrogeologist
Professional Geologist No. 6960
Certified Hydrogeologist No. 749

Timothy Becker
Professional Geologist No. 9589
Certified Hydrogeologist No. 1109

References

California Department of Water Resources (1961), Ground water geology, Appendix A of planned utilization of the ground water basins of the coastal plain of Los Angeles County: Bulletin 104.

Dibblee, T.W., and Ehrenspeck, H.E. (1999). Geologic map of the El Monte and Baldwin Park quadrangles, Los Angeles County, California: Dibblee Geological Foundation, Map DF-69.

Dibblee, T.W., and Ehrenspeck, H.E. (2001). Geologic map of the Whittier and La Habra quadrangles (western Puente Hills), Los Angeles County, California: Dibblee Geological Foundation, Map DF-74.

United States Geological Survey [USGS] (2001). Geologic, Hydrologic, and Water-Quality Data from Multiple Well Monitoring Sites in the Central and West Coast Basins, Los Angeles County, California, 1995–2000: Open-File Report 01-277.

United States Geological Survey [USGS] (2003). Geohydrology, geochemistry, and ground-water simulation-optimization of the Central and West Coast Basins, Los Angeles County, California: Water-Resources Investigations Report 03-4065.

Metropolitan Water District of Southern California [MWD] (2007), Final Groundwater Assessment Study: Report Number 1308.

Todd Groundwater (2015), Final Salt and Nutrient Management Plan, Central Basin and West Coast Basin, Southern Los Angeles County, California.

Civiltec Engineering Inc. (2015), La Habra Heights County Water District 2015 Water Master Plan Update: Prepared for LHHWCWD.

Stetson Engineers Inc. (2016), San Gabriel Valley Groundwater Basin Salt and Nutrient Management Plan, Final Draft Report: Prepared for Main San Gabriel Basin Watermaster.

CH2M Hill Engineers Inc. (2016), Groundwater Basins Master Plan, Final Report: Prepared for Water Replenishment District of Southern California in association with RMC Water and Environment.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



American Water Works Association [AWWA] (2019), Per- and Polyfluoroalkyl Substances (PFAS) treatment.

Singh, A. [INTERA Inc.], Partington, B., and C. King [WRD] (2020), Summary of LHHCWD Well 11 Dynamic Flow Profiling and Water Quality Sampling.

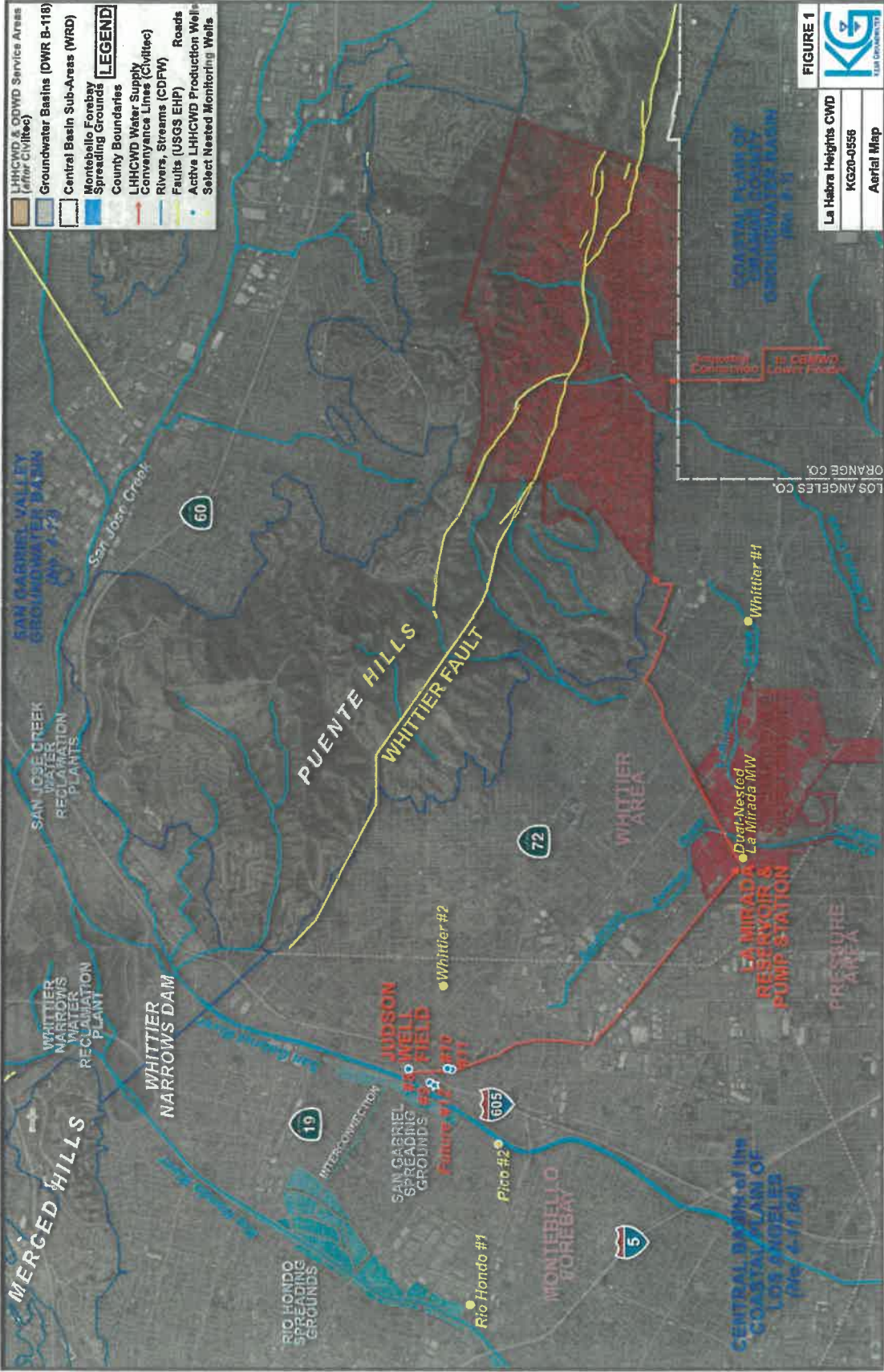
GSI Environmental Inc. (2021), Pilot Test Results for Ion Exchange Resin and Granular Activated Carbon to Treat Groundwater Impacted with Per- and Polyfluoroalkyl Substances, La Habra Heights County Water District Water Supply Well #10: Prepared for WRD.

Civiltec Engineering Inc. (2022), La Habra Heights County Water District 2022 Water Master Plan: Prepared for LHHCWD.

Water Replenishment District of Southern California [WRD] (2023), Regional Groundwater Monitoring Report, Water Year 2021-2022, Central and West Coast Basins, Los Angeles County, California.

KEAR GROUNDWATER

P.O. BOX 2601 • SANTA BARBARA, CALIFORNIA • 93120 TELEPHONE: (805) 512-1516 JORDAN@KEARGROUNDWATER.COM
CALIFORNIA REGISTERED PROFESSIONAL GEOLOGIST N. 6960 CALIFORNIA CERTIFIED HYDROGEOLOGIST N. 749



Aerial Image: Google Earth (2-May-2019)
Shaded Relief, Modified from USGS NED

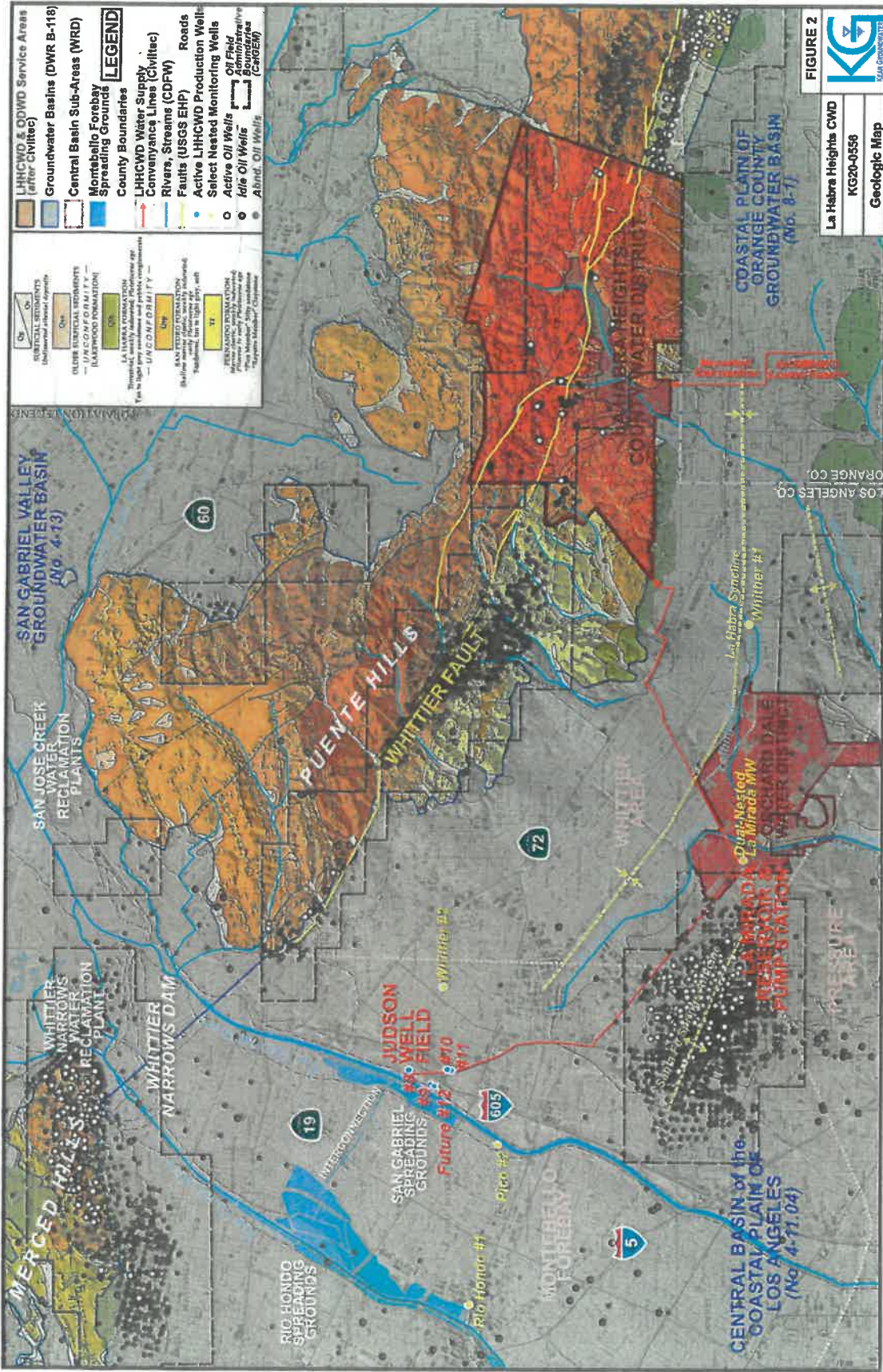
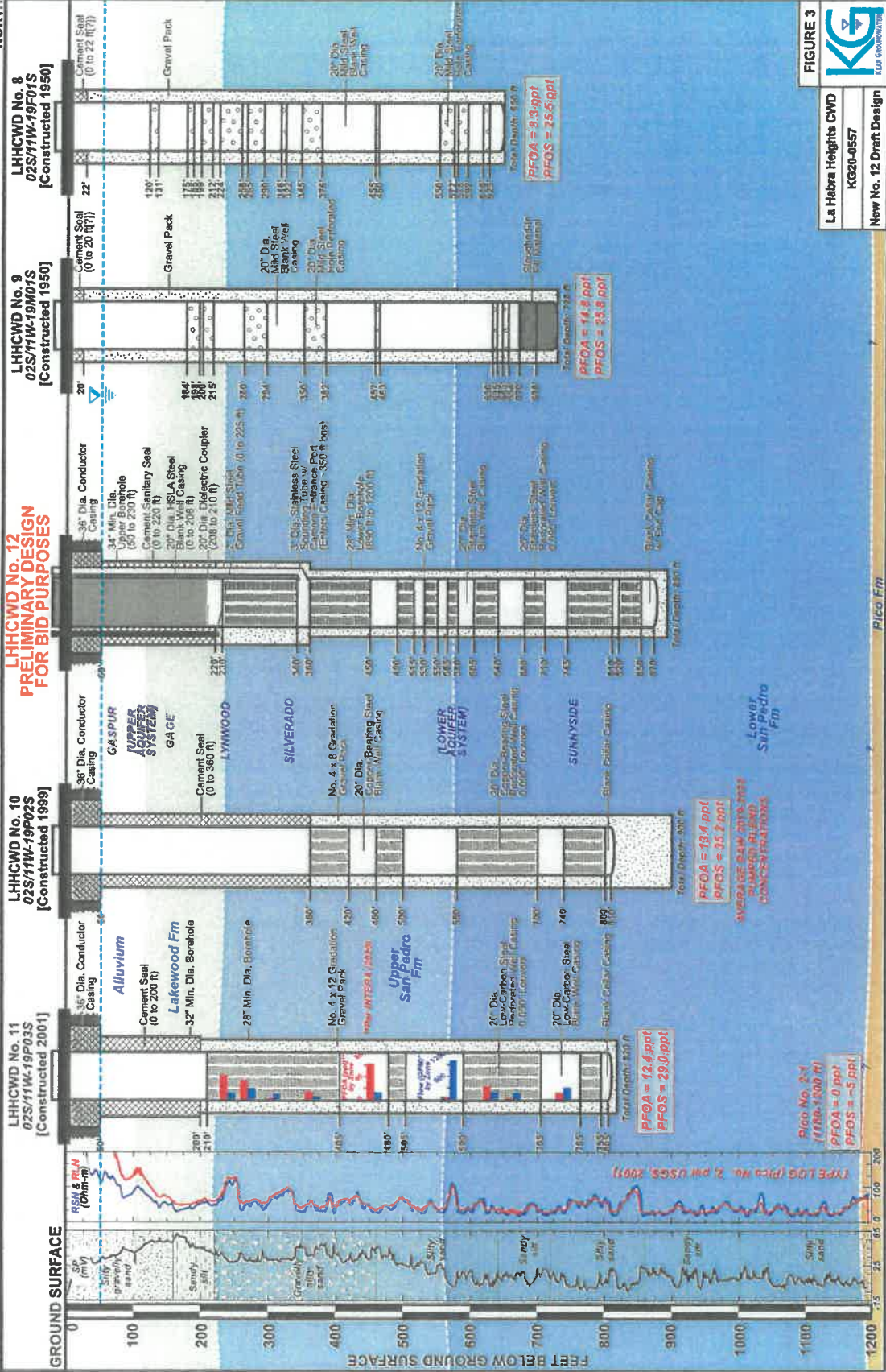


FIGURE 2
 La Habra Heights CWD
 KG20-0559
 Geologic Map



SOUTH

NORTH



- Subject Parcel (LA County)
- Montebello Forebay Spreading Grounds
- LHCWD Water Supply
- Conveyance Lines (Civiltec)
- Rivers, Streams (USGS NHD)
- Active LHCWD Production Wells
- WRD Nested Monitoring Wells

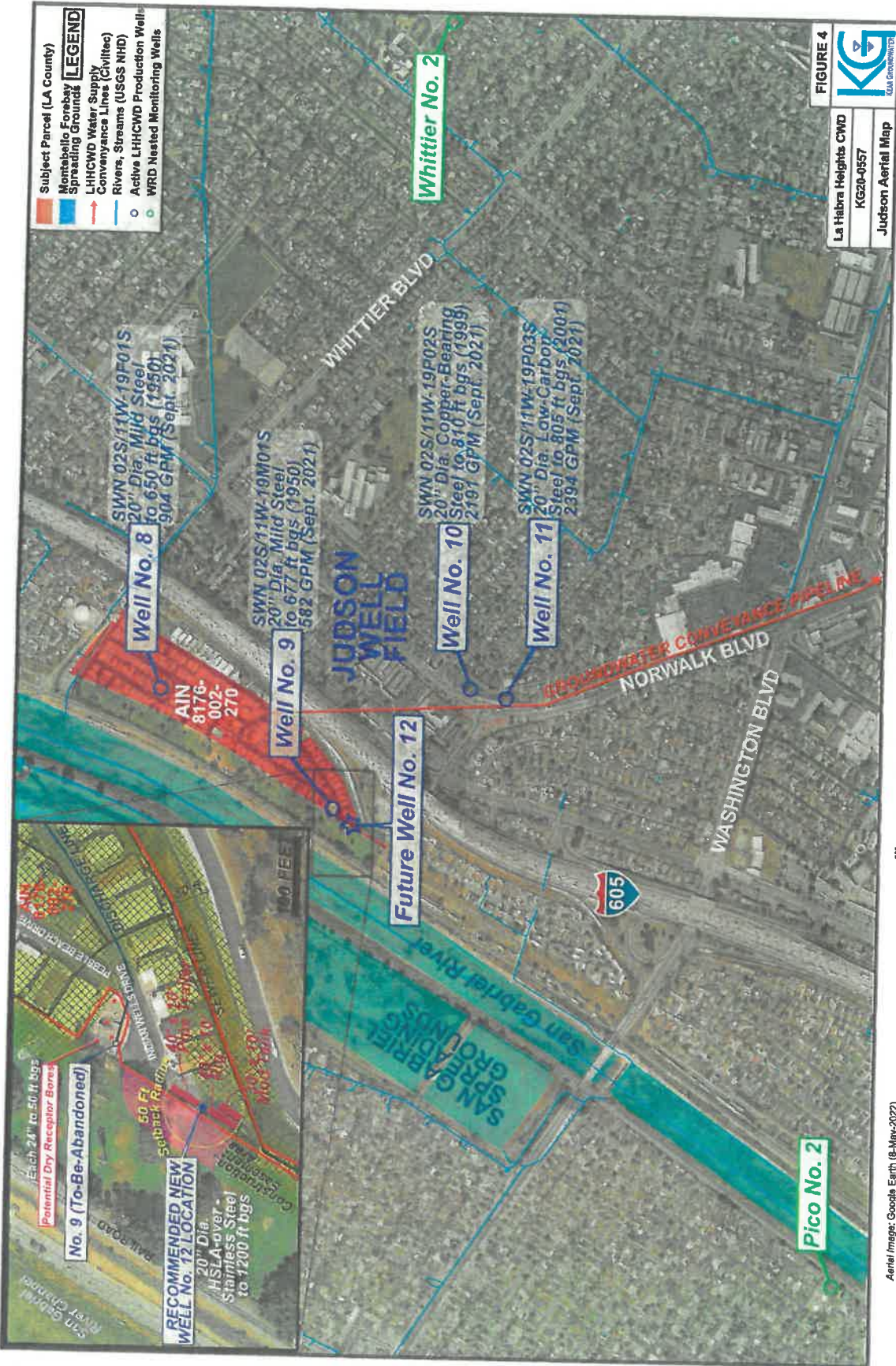
LEGEND



FIGURE 4



La Habra Heights CWD
 KG20-057
 Judson Aerial Map



RECOMMENDED NEW WELL No. 12 LOCATION

20" Dia. HSLA-over-Stainless Steel to 1200 ft bgs

50 Ft. Setback Right

600' x 300'

100 FEET

Potential Dry Receiver Boxes (Each 24" to 50 ft bgs)

No. 9 (To-Be-Abandoned)

San Gabriel River

San Gabriel Spreading Grounds

Washington Blvd

Norwalk Blvd

Whittier Blvd

Highway 605

Aerial Images: Google Earth (8-May-2022)
 Shaded Relief: Modified from USGS NED

**DISCUSS AND APPROVE
MISCELLANEOUS FEE**

LA HABRA HEIGHTS COUNTY WATER DISTRICT

MEMORANDUM

To: Michael Gualtieri, Joe Matthews
From: Tammy Wagstaff
Date: July 20, 2023
RE: Miscellaneous fees



As a result of the Rate Study by IB Consulting, staff calculated the miscellaneous fees that customers are charged for various job tasks. I used the attached format provided by IB Consulting to calculate the fees. These fees are rounded up from the attached calculations.

Below are the miscellaneous fees:

	<u>Previous fee</u>	<u>Proposed fee</u>
Late Charge	7% of balance	7% of balance
Flow Restriction Delinquent Charge	\$ 95.00	\$ 210.00
Returned Payment Charge-NSF	\$ 32.00	\$ 110.00
Door Tag Fee	\$ 29.00	\$ 70.00
Water Availability Charge	\$ 550.00	\$ 550.00
Meter Certification Fee	\$ 301.00	\$ 530.00
Fire Hydrant-set/remove/relocate Fee	\$ 50.00	\$ 80.00
Meter Clear Out Fee-brush removal	-0-	\$ 390.00
Fire Service Charge	\$ 32.41/inch	\$ 32.41/inch
Fire Hydrant Meter Deposit	\$ 1,000.00	\$ 1,500.00
Increase/decrease Meter Size Deposit	\$ 620.00	\$ 620.00

System Buy-In-Fee

<u>Meter Size</u>		
1"	\$ 13,593.00	\$ 12,055.00
1.5"	\$ 27,183.00	\$ 24,111.00
2"	\$ 43,495.00	\$ 38,577.00
3"	\$ 95,142.00	\$ 84,387.00
4"	\$171,252.00	\$151,897.00
6"	\$380,560.00	\$313,438.00

Note - Penalty Fees are NOT required to be cost-based. They are intended to change behavior. Fees should be set at a level that is reasonable (i.e. punishment should fit the crime)

Late Charge

Description: Late Charge for Utility Bill

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Customer Service/Accounting Clerk	0.07	\$80.76	\$5.90
Management Assistant/Accountant	0.04	\$95.61	\$4.02
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Total Labor Costs			\$9.91

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
None			
None			
None			
None			
None			
Total Travel Costs			\$0.00

Materials / Supplies	Materials Costs
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$0.00

Late Charge Calculation	Cost-Based
Labor Costs	\$9.91
Travel Costs	\$0.00
Materials Costs	\$0.00
Late Charge	\$9.91

Flow Restriction Delinquent Charge

Description: Remove meter, add flow restrictor, and reconnect

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Management Assistant/Accountant	0.04	\$143.42	\$5.74
Utility Worker II	1.50	\$126.92	\$190.38
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Total Labor Costs			\$196.11

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
Total Travel Costs			\$13.10

Materials / Supplies	Materials Costs
Door hanger paper	\$0.19
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$0.19

Flow Restriction Delinquent Charge	Cost-Based
Labor Costs	\$196.11
Travel Costs	\$13.10
Materials Costs	\$0.19
Flow Restriction Charge	\$209.40

Returned Payment Charge - NSF

Description: NSF Fee

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Customer Service/Accounting Clerk	0.42	\$80.76	\$33.92
Utility Worker II	0.50	\$84.61	\$42.31
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Total Labor Costs			\$76.23

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
None			
Total Travel Costs			\$6.55

Materials / Supplies	Materials Costs
Paper	\$0.01
Envelope	\$0.02
Reply Envelope	\$0.02
Postage	\$0.66
Bank Charges	\$25.77
Total Materials Costs	\$26.48

Returned Payment Charge - NSF Calc	Cost-Based
Labor Costs	\$76.23
Travel Costs	\$6.55
Materials Costs	\$26.48
Returned Payment	\$109.26

Door Tag Fee - Past due / NSF (during business hours)

Description: Non-Payment and Flow Restrictions Door Tags

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (E)	Labor Costs (C)=(A x B)
Customer Service/Accounting Clerk	0.21	\$80.76	\$17.28
Management Assistant/Accountant	0.12	\$95.61	\$11.86
Utility Worker II	0.40	\$84.61	\$33.84
Placeholder	0.00	\$0.00	\$0.00
Placeholder	0.00	\$0.00	\$0.00
Total Labor Costs			\$62.98

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
Total Travel Costs			\$6.55

Materials / Supplies	Materials Costs
Door hanger	\$0.19
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$0.19

Door Tag Fee - Past due / NSF Calculi:	Cost-Based
Labor Costs	\$62.98
Travel Costs	\$6.55
Materials Costs	\$0.19
Door Tag Fee - Pa:	\$69.72

Water Availability Charge

Description: Pass-Through charge from third-party vendor to certify that fire flow is available for new build or addition

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Customer Service/Accounting Clerk	0.2	\$80.76	\$13.73
Superintendent	0.3	\$142.61	\$35.65
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Total Labor Costs			\$49.38

Travel Costs

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
None			
None			
None			
None			
None			
Total Travel Costs			\$0.00

Materials Costs

Materials / Supplies	Materials Costs
Engineer model	\$500.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$500.00

Water Availability Charge Calculation

Water Availability Charge Calculation	Cost-Based
Labor Costs	\$49.38
Travel Costs	\$0.00
Materials Costs	\$500.00
Water Availability	\$549.38

Meter Certification Fee

Description: Pull Meter, Meter is Tested, and Meter is Reinstalled

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Customer Service/Accounting Clerk	0.2	\$121.14	\$20.59
Utility Worker II	2.0	\$126.92	\$253.83
Superintendent	0.2	\$213.91	\$36.37
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Total Labor Costs			\$310.79

Travel Costs

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
Total Travel Costs			\$13.10

Materials Costs

Materials / Supplies	Materials Costs
Meter test vendor	\$200.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$200.00

Meter Certification Fee Calculation

Meter Certification Fee Calculation	Cost-Based
Labor Costs	\$310.79
Travel Costs	\$13.10
Materials Costs	\$200.00
Meter Certification	\$523.89

Fire Hydrant Meter - Set/Removal/Relocate

Description: Set / Removal / Relocate

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) (B)	Labor Costs (C)=(A x B)
Utility Worker II	0.5	\$84.61	\$42.31
Customer Service/Accounting Clerk	0.3	\$80.76	\$24.23
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Total Labor Costs			\$66.53

Travel Costs

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
Total Travel Costs			\$13.10

Materials Costs

Materials / Supplies	Materials Costs
Service order-paper	\$0.01
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Placeholder	\$0.00
Total Materials Costs	\$0.01

Fire Hydrant Meter - Set/Removal/Relocate Calculation

Fire Hydrant Meter - Set/Removal/Relocate Calculation	Cost-Based
Labor Costs	\$66.53
Travel Costs	\$13.10
Materials Costs	\$0.01
Fire Hydrant Meter	\$79.64

Meter Clear Out

Description: Clear debris/plants from meter to be able to read meters

Position	Estimated Hours of Labor (A)	FBHR (\$/hr) 1.5 x (B)	Labor Costs (C)=(A x B)
Utility Worker II	2.0	\$126.92	\$253.83
Customer Service/Accounting Clerk Placeholder	1.0	\$121.14	\$121.14
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Placeholder	0.0	\$0.00	\$0.00
Total Labor Costs			\$374.98

Vehicles	Distance Traveled (mi) (A)	Mileage Rate (\$/mi) (B)	Travel Costs (C)=(A x B)
1st Vehicle	10 miles	\$0.66	\$6.55
None			
None			
None			
Total Travel Costs			\$6.55

Materials Costs	
Materials / Supplies	Materials Costs
Postage	\$0.66
Paper	\$0.01
Window envelope	\$0.02
Reply Envelope	\$0.02
Certified letter	\$7.50
Total Materials Costs	\$8.21

Meter Clear Out Calculation	
	Cost-Based
Labor Costs	\$374.98
Travel Costs	\$6.55
Materials Costs	\$8.21
Meter Clear Out	\$389.74