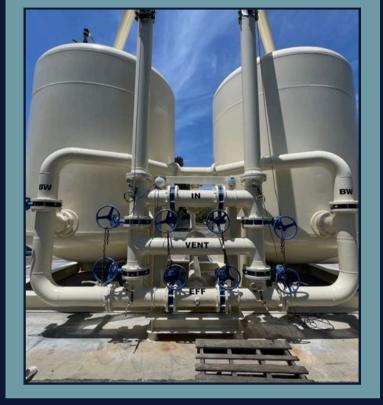
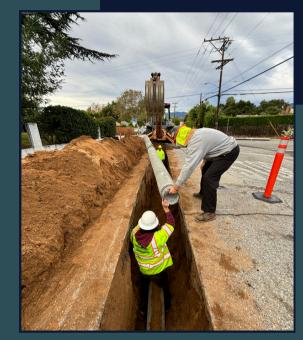
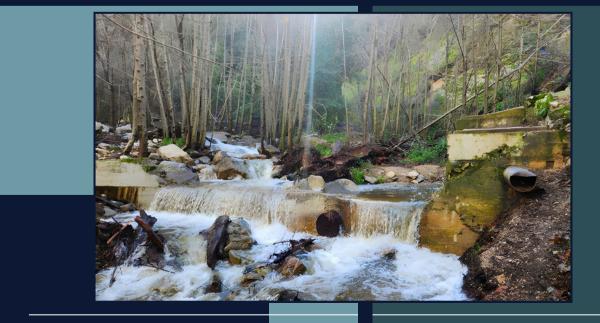
# Lincoln Avenue Water Company







# ANNUAL REPORT OF OPERATIONS



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March 29, 2024

John Clairday, President Board of Directors Lincoln Avenue Water Company 564 W Harriet Street Altadena, CA 91001



Dear Board of Directors:

The past two rain seasons finally brought some relief to Southern California from recent drought conditions. Lincoln Avenue was able to use available surface water from the local mountains. We also saw improvement in local groundwater levels; however, it still hasn't been enough to make a significant and long-term impact to this important source.

Due to successful conservation efforts, in 2022 our customers reduced water consumption by 12%. In 2023, our customers continued their efforts and reduced overall consumption by an additional 12%. This reduction, along with the availability of surface water, helped defer the need to purchase expensive imported water.

In addition to managing our water resources, the current economic environment continues to pose many challenges which directly impact the company's operation. We are experiencing significant increases in fixed and variable costs, such as liability insurance, electricity, equipment maintenance and materials. Unfortunately, we don't anticipate a reduction in these expenses moving forward.

Providing dependable service 24/7 is what we do. And dependability comes down to our infrastructure, which we're continually maintaining and upgrading. In 2023, we invested \$1.3 million into our capital improvement program. Major projects in 2023 included:

- Palm Street Dual Pipeline Project, replacing a total of 2,200 feet of pipe
- Loma Alta Pipeline Project, Phase I, replacing 800 feet of pipe
- Groundwater Treatment System Vessel Rehabilitation
- Booster Pump Motor Replacement

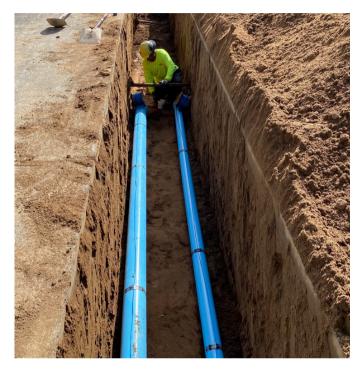
We also continued maintenance of our distribution system including replacement and upgrade of some fire hydrants, service lines, water meters, and other isolation valves.

As we welcome the success of prior years, we remain focused on the community we serve and the needs of the company. The professional staff at Lincoln Avenue remain committed to providing the highest quality and most reliable water service to customers at the most fiscally responsible cost.

Sincerely,

Jennifer Betancourt Torres General Manager

### West Palm Avenue Pipeline Project





A TRACING WIRE IS ATTACHED TO THE C900 PIPE.



We started our 2023 Capital Improvement Plan with the West Palm Avenue Dual Pipeline Replacement Project from Olive Ave to Glenrose Ave.

This project involved the replacement of 1,100 linear feet of 6" pipe and 1,100 linear feet of 4" pipe. Both watermains were originally installed in 1940 and had begun to show sign of a potential failure.

WATERMAINS ARE SELDOM A STRAIGHT LINE. IT'S COMMON TO INSTALL ANGLES AND BENDS ALONG THE WAY DUE TO





OTHER UTILITIES OR STORM DRAINS.





## West Palm Avenue Pipelin<u>e Project</u>





FOR INSTALLATION.







In addition to the 2,200 feet of pipeline, we also replaced 30 customer service lines and installed 2 fire hydrants.

This project is a continuation of our overall goal to improve water service throughout our distribution system.





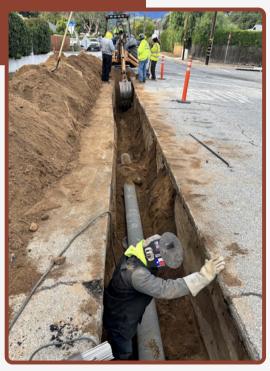


In the fourth quarter of 2023, we began Phase I of the Loma Alta Pipeline Project. The construction are spanned from Fair Oaks Ave, east to Chaney Trail.

Loma Alta is not only a highly travelled area of Altadena, there are numerous utilities below ground, including existing Lincoln Avenue watermains, pump lines and valves that intersect with other parts of our distribution system. Therefore it was necessary to use extra precaution when excavating the street.



An area of the street is dug out to obtain a visual of the intersecting watermains.



After a section of pipe is put into place, the ditch is extended for the next section to be installed.

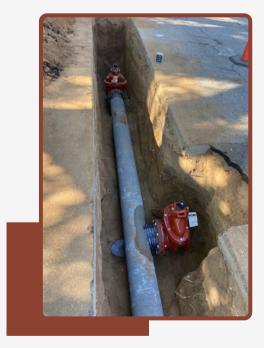
A service line repair is completed.



Phase Ore LOMA ALTA PIPELINE









By the end of Phase I, saw cutting was complete and 800 of the total 1,600 feet of new 8" steel pipe had been installed.

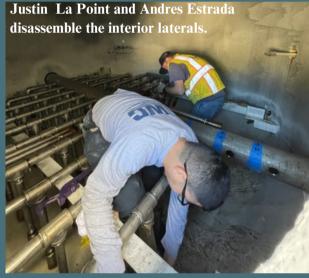
Phase II will include the installation of the remaining 800 feet of pipe, in addition to 40 customer service lines and 2 fire hydrants.



### GROUNDWATER TREATMENT PLANT VESSEL REHABILITATION



Lincoln Avenue has been treating groundwater for more than 30 years. Having expanded the capacity over the years, the current treatment system is comprised of 2 Ion Exchange vessels, 4 Granular Activated Carbon vessels and 4 bag filters.



This system undergoes regular inspections and repairs as necessary. At least every 10 years, major rehabilitation is needed to extend the lifespan and reliability.



The interior of a GAC vessel after the circular piping system is removed.



Bag filter housing.



The vessel interior is sandblasted.

## GROUNDWATER TREATMENT PLANT VESSEL REHABILITATION



Upon completion of the sandblasting and recoating of the vessel interiors, the exteriors were repainted with the valve tree and plumbing clearly identified.



<

## **Booster Pump Motor Replacement**

In 2023, the motor of Wapello Reservoir Booster No. 4 was replaced. Regular maintenance and replacement when needed ensures our facilities stay efficient and reliable.



### Altadena Pollinator Palooza Extravaganza



This event brought together multiple organizations to provide education and free seeds so that LA County residents can create their own pollinator-friendly gardens.

Lincoln Avenue staff was on-site to handout water conversation devices and information.

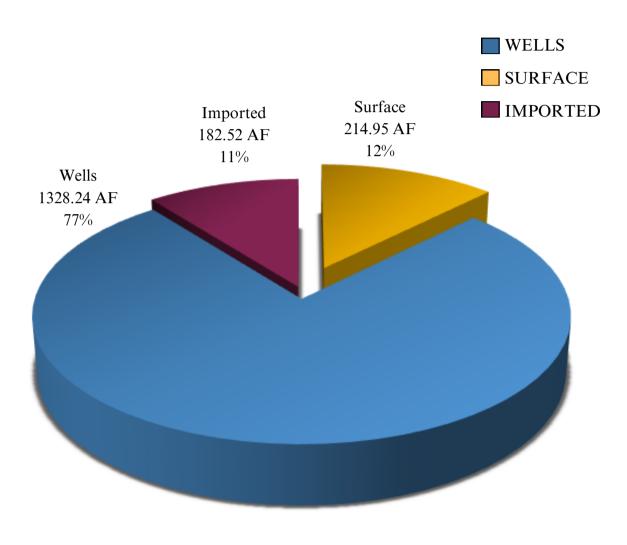




Jesus Bugarin provides water conservation materials to attendees.



#### 2023 WATER PRODUCTION BY SOURCE



Wells	1,328.24 AF
Surface	214.95 AF
Imported	182.52 AF
Total Production	1,725.71 AF

#### WATER SALES AND PRODUCTION FOR 2023 IN ACRE FEET

MONTH	IMPORTED	WELL	LOCAL	TOTAL	LEASE	SALES	RAIN
	WATER	PRODUCTION		PRODUCTION	WATER		FALL
	PURCHASE		WATER		DELIVERED		(INCHES)
January	0.00	83.54	12.70	96.24	6.50	107.31	7.69
February	1.88	104.05	1.50	107.43	5.10	102.11	8.19
March	0.00	85.12	0.00	85.12	5.50	80.92	11.81
April	0.00	119.04	0.00	119.04	8.00	88.43	1.14
May	115.79	13.96	19.86	149.61	9.90	134.64	2.24
June	0.00	83.87	47.07	130.94	10.10	130.41	1.18
July	38.13	155.37	29.54	223.04	23.3	151.05	0.00
August	10.97	161.07	28.95	200.99	10.10	202.25	4.57
September	1.24	150.94	17.76	169.94	10.80	168.13	0.42
October	10.19	138.27	19.11	167.57	12.5	138.63	0.35
November	4.32	128.19	18.34	150.85	8.70	157.76	0.94
December	0.00	104.82	20.12	124.94	0.00	125.97	2.46
TOTAL	182.52	1,328.24	214.95	1,725.71	110.50	1,587.60	40.99

		<b>Total Production</b>	1725.71
PUMPED FRO	JM WELLS	Lease Water Delivery	-110.50
		Production for Lincoln	1615.21
WELL #3	0.58	Total Sales	-1587.60
WELL #5	282.29	Subtotal	27.61
WELL #6	1045.37	Treatment Plant Operation	
TOTAL	1328.24	& Water Quality Control	-5.00
		Non-Sales Production	22.61
			or 2%

**Non-Sales Production** is water used during routine water quality sampling, evaporation from reservoirs, irrigation at Company sites, water quality flushing, pipeline ditch compaction and dust control, fire fighting, fire training, leaks on mains, etc.

The Company's well production consists of 567 acre feet of annual decreed right plus spread credit from mountain run-off, and available leased groundwater rights.

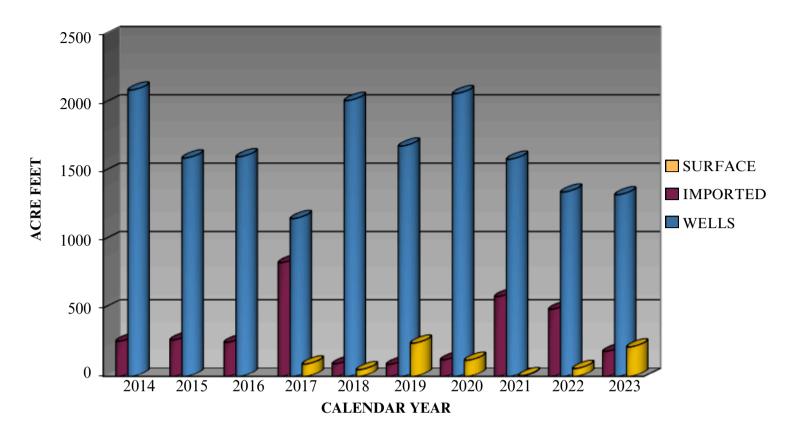
	ENERGY CO	OST BY WELLS AN 2019-2023	ST BY WELLS AND PUMP STATIONS 2019-2023	NS	
WELLS	2023	2022	2021	2020	2019
&	ENERGY COST	ENERGY COST	ENERGY COST	ENERGY COST	ENERGY COST
PUMPING STATIONS	COST/AF	COST/AF	COST/AF	COST/AF	COST/AF
Well #3	4,151.16	1,912.84	2,030.89	1,798.08	493.40
(Pump to Main Plant)	N/A	N/A	N/A	N/A	N/A
Well #5	34,495.84	66,226.42	18,707.94	2,797.34	17,302.41
(Pump to Main Plant)	122.20	101.71	78.33	69.62	68.54
Well #6	143,098.64	90,519.75	164,123.84	188,913.89	110,599.19
(Pump to Main Plant)	140.28	129.87	121.62	93.14	77.24
Main Plant	144,041.51	139,909.72	156,380.73	146,873.32	99,378.19
(Pump to Glenrose)	96.93	74.16	71.76	67.21	55.27
Glenrose Reservoir	54,694.54	56,615.12	58,298.39	46,251.85	34,375.46
(Pump to Wapello)	81.87	60.64	59.41	48.75	36.23
Wapello Reservoir (Pump to Ware & La Vina & Swigart)	60,223.90 110.40	59,886.51 80.07	61,718.15 70.72	49,713.42 61.00	39,396.18 53.91
Ware Reservoir	6,830.71*	5,560.77*	5,738.72*	2,901.89*	704.18*
(Pump to Coulter)	63.59	32.20	27.45	20.41	6.10
TOTAL ANNUAL	\$447,536.60	\$420,631.13	\$466,998.66	\$439,249.79	\$302,249.01
ENERGY COST	\$296.24	\$228.67	\$214.98	\$206.30	\$170.56

\*Total cost after applying Solar Energy Generation Credit.

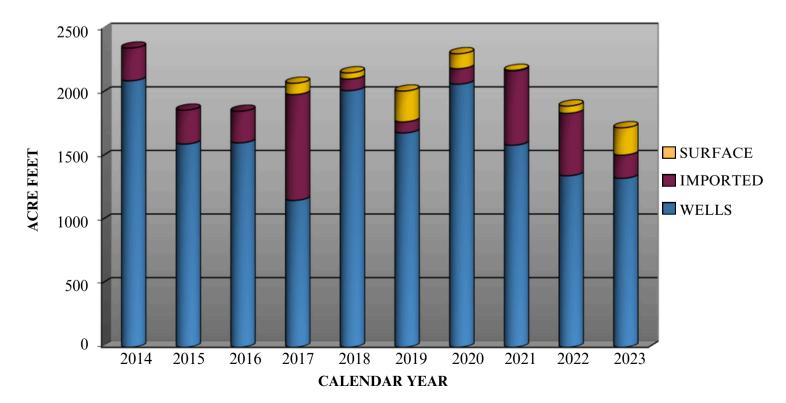
CALENDAR YEAR	WELL #3	WELL #5	WELL #6 S	CALENDAR WELL #3 WELL #5 WELL #6 SURFACE IMPORTED YEAR	APORTED	TOTAL PRODUCTION	LESS LEASE WATER DELIVERY	ACTUAL PRODUCTION (LINCOLN)	RAINFALL (INCHES)
2023	0.58	282.29	1045.37	214.95	182.52	1725.71	110.50	1615.21	40.99
2022	0	651.14	697.00	57.09	491.40	1896.63	0	1896.63	18.18
2021	0.14	238.84	1349.50	4.97	583.87	2177.14	0	2177.14	23.82
2020	0.04	40.18	2028.31	117.66	121.73	2307.92	119.76	2188.16	15.00
2019	0.27	252.43	1431.90	242.43	87.51	2014.54	0	2014.54	36.16
2018	13.10	85.00	1919.72	48.23	91.55	2157.61	0	2157.61	15.99
2017	297.50	175.19	681.60	89.49	832.43	2076.21	0	2076.21	19.47
2016	597.73	1008.99		0	249.26	1855.98	0	1855.98	18.60
2015	599.02	998.41		0	266.71	1864.14	0	1864.14	10.22
2014	944.15	1150.76		0	257.49	2352.40	0	2352.40	14.88

ANNUAL PRODUCTION IN ACRE FETT 2014-2023

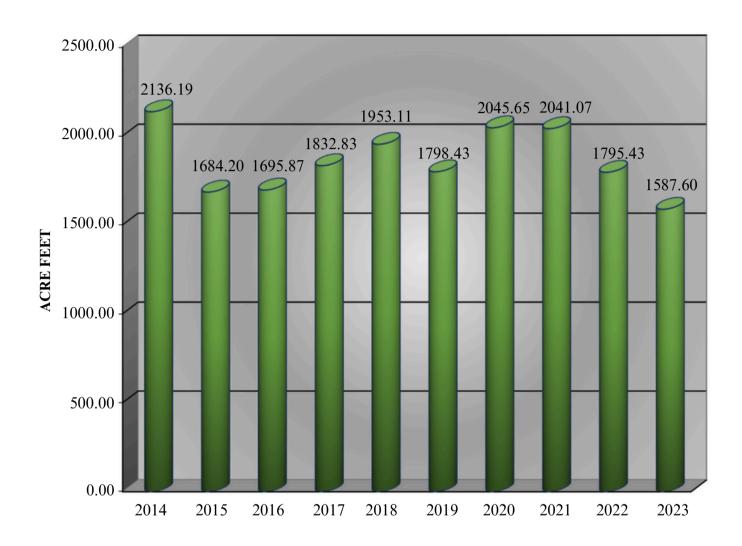
#### **ANNUAL PRODUCTION BY SOURCE - SURFACE, WELLS & IMPORTED**



TOTAL ANNUAL PRODUCTION - SURFACE, WELLS & IMPORTED



#### ANNUAL WATER SALES IN ACRE FEET 2014 - 2023



#### METERS AND SERVICE CONNECTIONS

New Service Connections installed in 2023	16
Meters replaced in 2023	275
Distribution system service connections in 2023	4492
2023 average consumption per meter per day - Residential	284 gal.
2023 average consumption per meter per day - Commercial	1220 gal.
2023 average consumption per capita per day - Residential	81 gal.

#### NUMBER OF METERS BY SIZE

5/8"	1454
3/4"	2541
1"	390
1 1/2"	28
2"	71
3"	6
4"	3
TOTAL	4493

#### WELL PRODUCTION CAPACITY

Well # 3 (drilled 1924)	900 GPM
Well # 5 (drilled 1971)	1100 GPM
Well #6 (drilled 2016)	2000 GPM

#### DISTRIBUTION SYSTEM IN LINEAR FEET

Distribution System	288,323
Pump Lines	18,128

TOTAL 306,451 or 58 miles

#### ANNUAL CANYON WATER BASIN RECHARGE IN ACRE FEET

Swigart	375.88
El Prieto	40.65
Millard/La Vina*	330.27
TOTAL	746.80

All canyon water that flows to the spreading basin is metered with an allowable extraction the following year based on Raymond Basin Management Board percolation calculations.

\*Maximum allowable spread credit from Millard/La Vina is 0.65 CFS.

#### WATER QUALITY



California State Water Resources Control Board, Division of Drinking Water (DDW) requires Lincoln Avenue Water Company to take distribution system water quality samples which include bacteriological, total trihalomethanes, volatile organic compounds, general physical, general mineral and inorganics, along with other scheduled analyses. Lincoln's system was in compliance with DDW water quality standards at all times during 2023.

#### BOARD OF DIRECTORS FOR THE YEAR 2023











#### JOHN CLAIRDAY

John Clairday currently serves as president of Lincoln's Board of Directors. A graduate of the University of Southern California and Loyola Law School, Mr. Clairday retired from the Metropolitan Water District of Southern California where he served as Chief Deputy General Counsel within the legal department, and later, manager of the District's Real Estate Group. In addition to serving as president of Lincoln Avenue's Board, Mr. Clairday has been an active supporter of the San Gabriel Valley Habitat for Humanity, serving on its Board of Directors, and participating in several local and national build projects.

#### **ROBERT J. GOMPERZ**

#### **VICE PRESIDENT**

Robert J. Gomperz has been a Board member since 1990. He is retired from the Metropolitan Water District of Southern California where he coordinated various communications programs to the public about Metropolitan's programs and policies. Mr. Gomperz has been a public relations professional for more than five decades. He has a degree in Management from the University of Redlands. Prior to joining Metropolitan, he was Pasadena City College's Public Information Director for 12 years. Mr. Gomperz also represented West Altadena for 10 years as a Foothill Municipal Water District director and as a Southern California region director on the Association of California Water Agencies Board.

#### LAWRENCE W. DUNCAN

#### **1st VICE PRESIDENT**

**TREASURER** 

Lawrence W. Duncan is a retired textile industry supervisor and a 55-year Altadena resident. Mr. Duncan is entering his 23rd year as a member of the Lincoln Avenue Board and also serves as the Company's Community Liaison Officer. He is a longtime active member of the Southern California Water Utilities Association. In 2019 the Association honored Mr. Duncan with the prestigious Doctor of Water Award.

#### **DIEGO FERNANDEZ**

Diego Fernandez in an Operating Partner with the El Cholo Restaurant Management Group LLC. He started work with El Cholo at the age of 18 and in 1994 he was promoted to the position of General Manager. In 2000 he became an Operating Partner. As partner, Diego has been involved with the opening of El Cholo Pasadena, Rose City Catering and Hart Pony Baseball & Softball. Mr. Fernandez brings a broad array of business and management skills to Lincoln Avenue. Mr. Fernandez has lived in Altadena for the past 19 years and was appointed to the Board in 2014.

#### VICKIE THOMPSON

#### ASSISTANT SECRETARY

Vickie Thompson graduated from Humboldt State College and went to work at the City of Hope - Beckman Research Institute in Duarte. She retired after working there for 40 years. She started work as a Research Associate, became the Manager of the Research Storeroom, and retired as the Manager of Purchasing. She has lived in Altadena since 1995 and enjoys walking with her husband in the neighborhood and near-by foothills. She was appointed to the Board in November 2020.

#### PRESIDENT



## **OFFICE STAFF**



Taijha Capellan Office Supervisor and Bookkeeper

Years of Service 2



Wendy Childs Customer Service Representative and Water Stock Clerk

> Years of Service 16



Jesus Bugarin Customer Service Representative and Administrative Assistant

> Years of Service 13



Adrian Felix Water Quality Coordinator and Administrative Assistant

> Years of Service 1





Name - Title - Years of Service Back Row: Jeremy Rogers - Water System Operator - 6 years John Earnest - Water System Operator - 4 years Michael Cotter - Field Supervisor - 20 years Andres Estrada - Water System Operator - 2 years Front Row: Justin LaPoint - Water System Operator - 2 years Dave Castillo - Water System Foreman - 9 years Jack Harms - Senior Operator / Facilities Manager - 23 years