

TODAY'S SESSION IS HOSTED BY Mission Springs Water District

- Established in 1953
- More than 1.25 million feet of pipelines, 13 water wells, and 24 reservoirs
- Serving over 40,000 people in about 135 square miles
- Serves award-winning water to customers in Desert Hot Springs, North Palm Springs, and portions of the Whitewater area







WELCOME















WATER QUALITY ANALYSIS & ASSURANCE / GOLF AND NONPOTABLE WATER SUPPLIES

INTRODUCTIONS

April Scott

PROGRAMS AND PUBLIC AFFAIRS SPECIALIST, MISSION SPRINGS WATER DISTRICT

















Wil Gonzalez

LABORATORY DIRECTOR, COACHELLA VALLEY WATER DISTRICT

Wil has worked with CVWD for 34 years. In his current role as Laboratory Director where he leads the laboratory team in the analysis and reporting of various types of water including drinking water, groundwater, surface water, stormwater, irrigation water, and wastewater.













Water Quality Testing and Assurance



Wilfred Gonzalez, Laboratory Director Coachella Valley Water District



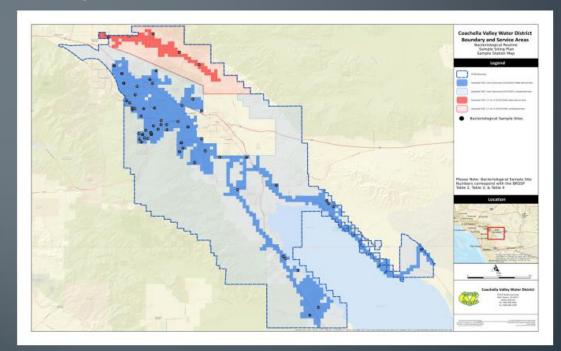
Safe Drinking Water Act (SDWA) - 1974

- Federal Regulation to protect the quality of drinking water in the United States
- Act authorizes EPA to establish minimum standards to protect tap water
- Requires all PWS to comply
- State governments can be approved to implement



California State Water Resources Control Board Division of Drinking Water (DDW)

- DDW regulates public drink water systems in California
- CVWD has about 100 permitted drinking water wells serving 2 public water systems



Drinking Water Maximum Contaminant Levels

MOTE: This publication is meant to be an aid to the staff of the State Board's Division of Drivising Waler and cannot be railed upon by the registated community as the State of California's representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever spr. 4c officials representations are required. Statutes related to the State Board's divising water-resided architecture are "or results it Safety Code, the Water Code, and other

Table 64431-A Maximum Contaminant Levels Inorganic Chemicals

Chemical	Maximum Contaminant Level, mg/L
Aluminum	1,
Antimony	0.006
Arsenic	0.010
Asbestos	7 MFL*
Barium	1.
Beryllium	0.004
Cadmium	0.005
Chromium	0.05
Cyanide	0.15
Fluoride	2.0
Mercury	0.002
Nickel	0.1
Nitrate (as nitrogen)	10.
Nitrate+Nitrite (sum as nitrogen)	10.
Nitrite (as nitrogen)	1.
Perchlorate	0.006
Selenium	0.05
Thallium	0.002

* MFL=million fibers per liter; MCL for fibers exceeding 10 µm in length.

§64432. Monitoring and Compliance--Inorganic Chemicals.

(a) All public water systems shall monitor to determine compliance with the nitrate and nitrite MCLs in table 64431-A, pursuant to subsections (d) through (f) and Section 64432.1. All community and nontransient-noncommunity water systems shall monitor to determine compliance with the perchlorate MCL, pursuant to subsections (d), (e), and (i), and section 64432.3. All community and nontransient-noncommunity water systems shall also monitor to determine compliance with the other MCLs in table 64431-A, pursuant to subsections (b) through (n) and, for asbestos, section 64432.2. Monitoring shall be conducted in the year designated by the State Board of each compliance period beginning with the compliance period starting January 1, 1993.

(b) Unless directed otherwise by the State Board, each community and nontransient-noncommunity water system shall initiate monitoring for an inorganic chemical within six months following the effective date of the regulation establishing the MCL for the chemical and the addition of the chemical to table 64431-A. If otherwise performed in accordance with this section, groundwater monitoring for an inorganic chemical

Domestic Water Supply Permit Amendment





State Water Resources Control Board Division of Drinking Water

Sent via email: jbarrets@cvwd.org

April 6, 2021

James Barrett General Manager Coachella Valley Water District PO Box 1058 Coachella, CA 92236

Dear Mr. Barrett:

COACHELLA VALLEY WATER DISTRICT COVE COMMUNITY - SYSTEM NO. 3310001 PERMIT AMENDMENT NO. 05-20-21PA-005 - REACTIVATION OF WELL NO. 5656-1

The State Water Resources Control Board Division of Drinking Water has issued a domestic water supply permit amendment for the Coachella Valley Water District (CWDD) Cove Community's Well No. 5656-1. The permit and engineering report are enclosed.

Please note that a public water system may file a petition with the State Water Board for reconsideration of a decision to issue, deny, or amend a permit made under authority delegated to an officer or employee of the state board. Petitions must be received by the State Water Board within 30 calendar days of the issuance of the permit, permit amendment, or decision.

The date of issuance is the date when the Division mails or serves a copy of the permit, permit amendment, or decision, whichever occurs first. If the 30th day falls on a Saturday, Sunday, or state holiday, the petition is due the following business day. Petitions must be received by 5:00 p.m.

Information regarding filing petitions may be found at:

http://www.waterboards.ca.gov/drinking_water/programs/petitions/index.shtml

The Division appreciates the help provided by CVWD's staff during development of this permit. If you have any questions regarding this letter, please contact Manuel Delgado at (619) 525-4408 or manuel_delgado@waterboards.ca.gov or me at (619) 525-4159 or sean.mccarthy@waterboards.ca.gov.

E. JOAGUN ESQUEEL, CHART | ELLEN SOCION, EXECUTIVE DIRECTOR

1350 Frost Street, Room 2050, San Diego, CA 90101 | www.waterboards.cs.gov

Monitoring Schedule - Page 1

State of California Water Resources Control Board

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Division of Drinking Water

STATE WATER RESOURCES CONTROL BOARD, DIVISION OF DRINKING WATER Monitoring Guidelines - Ground Water Schedule for the 9-Year Compliance Cycle 11/12020 through 12/31/2028

System Nar Coachella Valley Water District - Cove Community

System Number: 3310001

Date: March 2021

	STANFE	100		0.10				
Parameter	STORET	MCL	Units	DLR	Trigger	Well 5656-1 ^(b)	Standby Wells (8)	Title 2
Inorganic Chemicals					7 27 2			
ALUMINUM	01105	1,000	UG/L	50	200 ^(b)	Every 3 years	Every 9 years	PI
ANTIMONY	01097	6	UG/L	6	6	Every 3 years	Every 9 years	PI
ARSENIC	01002	10	UG/L	2	5	Every 3 years	Every 9 years	PI
ASBESTOS	81855	7	MFL	0.2	7	Waived	Waived	PI
BARIUM	01007	1,000	UG/L	100	1,000	Every 3 years	Every 9 years	PI
BERYLLIUM	01012	4	UG/L	1	4	Every 3 years	Every 9 years	PI
CADMIUM	01027	5	UG/L	1	5	Every 3 years	Every 9 years	PI
CHROMIUM (TOTAL)	01034	50	UG/L	10	50	Every 3 years	Every 9 years	PI
COPPER	01042	1,000	UG/L	50	1,000	Every 3 years	Every 9 years	SI
CYANIDE	01291	150	UG/L	100	150	Once	Once	PI
FLUORIDE	00961	2.0	MG/L	0.1	1.7	Every 3 years	Every 9 years	PI
IRON	01045	300	UG/L	100	300	Every 3 years	Every 9 years	SI
LEAD	01051	15	UGAL	5	15	Every 3 years (c)	Every 9 years	
MANGANESE	01055	50	UG/L	20	50	Every 3 years	Every 9 years	SI
MERCURY	71900	2	UG/L	1	2	Every 3 years	Every 9 years	PI
NICKEL	01067	100	UG/L	10	100	Every 3 years	Every 9 years	PI
NITRATE (AS N)	71850	10	MG/L	0.4	5	Annually	Every 9 years (17)	PI
NITRITE (AS N)	00820	1000	UG/L	400	500	Every 3 years	Every 9 years	PI
PERCHLORATE **	A-031	6	UG/L	4	4	Semi-annual (10)	Every 9 years	PI
SELENIUM	01147	50	UG/L	- 5	50	Every 3 years	Every 9 years	PI
SILVER	01077	100	UG/L	10	100	Every 3 years	Every 9 years	SI
THALLIUM	01059	2	UG/L	1	2	Every 3 years	Every 9 years	Pi
ZINC	01092	5000	UG/L	50	5000	Every 3 years	Every 9 years	SI
General Mineral			0012		Jude	Livery o years	ment o yours	- 01
TOTAL HARDNESS (AS CACO3)	00900		MG/L			Every 3 years	Every 9 years	SI
BICARBONATE ALKALINITY	00440		MG/L			Every 3 years	Every 9 years	SI
CARBONATE ALKALINITY	00445		MG/L			Every 3 years	Every 9 years	SI
HYDROXIDE ALKALINITY	71830		MG/L			Every 3 years	Every 9 years	SI
CALCIUM MAGNESIUM	00916		MG/L			Every 3 years	Every 9 years	SI
SODIUM	00927		MG/L	1000		Every 3 years	Every 9 years	SI
	00929		MG/L			Every 3 years	Every 9 years	SI
SULFATE	00945	250, 500, 600 ^(f)	MG/L		500	Every 3 years	Every 9 years	SI
CHLORIDE	00940	250, 500, 600 (E)	MG/L		500	Every 3 years	Every 9 years	SI
General Physical								
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 (4)	MG/L		1000	Every 3 years	Every 9 years	SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 (d)	us		1600	Every 3 years	Every 9 years	SI
TURBIDITY (LAB)	82079	5	NTU		5	Every 3 years	Every 9 years	SI
PH (LABORATORY)	00403	-	UNITS		-	Every 3 years	Every 9 years	SI
COLOR	00081	15	UNITS		15	Every 3 years	Every 9 years	SI
ODOR THRESHOLD @ 60 C	00086	3	TON		3	Every 3 years	Every 9 years	SI
FOAMING AGENTS (MBAS)	38260	500	UGAL		500	Every 3 years	Every 9 years	SI
AGGRESSIVENESS INDEX	82383	Non-corresive	OUIL		300	Mahad	Minhard	91

Monitoring Schedule - Page 2

State of California Water Resources Control Board Page 2 of 4

Division of Drinking Water Riverside District

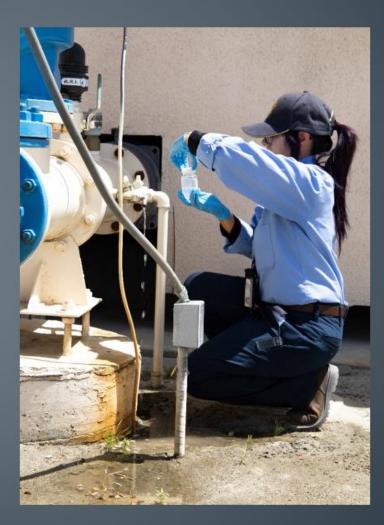
System Nar Coachella Valley Water District - Cove Community

System Number: 3310001

Date: March 2021

Parameter	STORET	MCL	Units	DLR	Trigger	Well 5656-1 (8)	Standby Wells 99	Title :
			0.110	-	11.99.11	1.760 0000-1	Common Treels	race
Radiological	Construction of the	-	1000000			Profit control		
GROSS ALPHA (GA)	01501	15	PCVL	3	5	4 Quarters (5)	Every 9 years	RA
GROSS BETA	03501	50 ter	PCVL	4	50	Waived	Waived	RA
RADIUM 226	09501	5 **	PCI/L	0.5	5	4 Quarters (Kal)	Every 9 years (#)	RA
RADIUM 228	11501	5 0	PCM	0.5	5	4 Quarters (Kp)	Every 9 years (#)	RA
STRONTIUM-90	13501	8	PCI/L	2	8	Waived	Waived	RA
TRITIUM	07000	20.000	PCI/L	1,000	20,000	Waived	Waived	RA
URANIUM (U)	28012	20	PCI/L	1	20	4 Quarters (KUN)	Every 9 years (F)	RA
Bacteriological			-			-		
Total Coliform (Presence/Absence)			_			Monthly ⁽¹⁾	Upon activation to	BA
Fecal Coliform or E. coli						If TC present	If TC present	BA
Regulated Volatile Organic Chemicals	_		-				100000000000000000000000000000000000000	-
BENZENE	34030		UG/L	0.5	0.5	4 Quarters **	Europa Octobres	vo
CARBON TETRACHLORIDE	32102	0.5	UG/L	0.5	0.5	4 Quarters **	Every 9 years Every 9 years	vo
1.2-DICHLOROBENZENE	34536	600	UG/L	0.5	0.5	4 Quarters **)	Every 9 years	VO
1.4-DICHLOROBENZENE	34571	5	UG/L	0.5	0.5	4 Quarters (F)	Every 9 years	VO
1.1-DICHLOROETHANE	34496	5	UG/L	0.5	0.5	4 Quarters (V)	Every 9 years	VO
1.2-DICHLOROETHANE	34531	0.5	UG/L	0.5	0.5	4 Quarters (4)	Every 9 years	vo
1.1-DICHLOROETHYLENE	34501	6	UG/L	0.5	0.5	4 Quarters (9)	Every 9 years	vo
CIS-1.2-DICHLOROETHYLENE	77093	6	UG/L	0.5	0.5	4 Quarters (*)	Every 9 years	vo
TRANS-1,2-DICHLOROETHYLENE	34546	10	UG/L	0.5	0.5	4 Quarters (V)	Every 9 years	vo
DICHLOROMETHANE	34423	5	UG/L	0.5	0.5	4 Quarters (*)	Every 9 years	VO
1.2-DICHLOROPROPANE	34541	5	UG/L	0.5	0.5	4 Quarters (V)	Every 9 years	vo
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	UG/L	0.5	0.5	4 Quarters (9)	Every 9 years	VO
ETHYLBENZENE	34371	300	UG/L	0.5	0.5	4 Quarters (9)	Every 9 years	VO
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	UG/L	3	5 107	4 Quarters (V)	Every 9 years	vo
MONOCHLOROBENZENE	34301	70	UG/L	0.5	0.5	4 Quarters (V)	Every 9 years	VO
STYRENE	77128	100	UG/L	0.5	0.6	4 Quarters W	Every 9 years	VO
1,1,2,2-TETRACHLOROETHANE	34516	- 1	UG/L	0.5	0.5	4 Quarters (V)	Every 9 years	VO
TETRACHLOROETHYLENE	34475	5	UG/L	0.5	0.5	4 Quarters W	Every 9 years	VO
TOLUENE	34010	150	UG/L	0.6	0.5	4 Quarters (V)	Every 9 years	VO
1,2,4-TRICHLOROBENZENE	34551	5	UG/L	0.5	0.5	4 Quarters (4)	Every 9 years	VO
1,1,1-TRICHLOROETHANE	34506	200	UGAL	0.5	0.5	4 Quarters (*)	Every 9 years	VO
1,1,2-TRICHLOROETHANE	34511	5	UG/L	0.5	0.5	4 Quarters 10	Every 9 years	VO
TRICHLOROETHYLENE	39180	5	UG/L	0.5	0.5	4 Quarters (K)	Every 9 years	VO
TRICHLOROFLUOROMETHANE (FREON 11)	34488	150	UG/L	5	5	4 Quarters 10	Every 9 years	VO
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	81611	1200	UG/L	10	10	4 Quarters 10	Every 9 years	VO
VINYL CHLORIDE	39175	0.5	UG/L	0.5	0.5	4 Quarters 10	Every 9 years	VO
XYLENES	81551	1750 ¹⁹⁷	UG/L	0.6	0.5	4 Quarters PQ	Every 9 years	VO

Monitoring Division



Monitoring Division





Monitoring Division



Water Quality Laboratory





CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Coachella Valley Water District

Environmental Department

75-519 Hovley Lane East Palm Desert, CA 92211

Scope of the certificate is limited to the "Fields of Accreditation" which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: 1780

Effective Date: 8/1/2024

Expiration Date: 7/31/2026

Chrandni

Sacramento, California subject to forfeiture or revocation Christine Sotelo, Program Manager Environmental Laboratory Accreditation Program





Laboratory Team



Abduljeleel Osunkunle, Chemist



Wilfred Gonzalez, Laboratory Director



Arci Bland, Chemist



Antonio Vazquez Jr., Water Quality Analyst I



Samuel Murillo-Novoa, Laboratory Aide I



Abraham Ramirez, Water Quality Analyst II

Laboratory Staff Qualifications

- Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:
 - Bachelor's degree from an accredited college or university with major coursework in chemistry, biochemistry, biology, microbiology, environmental, sanitary, or public health engineering, natural or physical science or a closely related field and thirty-two (32) semester units in organic chemistry, inorganic chemistry and/or biochemistry

Benefits of having a state-certified laboratory

- Give CVWD the ability to meet short hold times for certain analyses
 - Microbiological
 - Nitrates
 - Odor
 - Color
- Only ELAP-accredited laboratory in Coachella Valley that offers analytical services to:
 - State Small Systems regulated by Riverside County Department of Environmental Health (DEH)
 - Small Systems regulated by Federal EPA
 - Mobile Food Vendors regulated by Riverside County DEH
 - Private Well Owners

Fields of Accreditation

- Inorganic Constituents
 - o Chloride
 - Fluoride

- Microbiology
 - Heterotrophic Bacteria
 - o Total Coliforms
 - o Escherichia Coli
- Toxic Chemical Elements
 - Arsenic
 - o Total Chromium
 - o Copper
 - o Lead
 - Selenium
 - Hexavalent Chromium

- Nitrate
- Nitrite
- Phosphate
- Sulfate
- Alkalinity
- Hardness
- Conductivity
- o Chlorine, Free and Total
- o Calcium
- o Magnesium
- o Potassium
- o Sodium
- Carbonaceous Biochemical Oxygen Demand (cBOD)
- o pH
- Solids

Laboratory performs ~ 1000 analyses per month

Physical Properties

- o Odor
- o Turbidity
- o Color

Alkalinity

- Auto-Titrator for alkalinity testing
- Milligrams per liter (mg/L)



Anions

- lon Chromatography (IC)
- Milligrams per liter (mg/L)



Cations

- Flame Atomic Absorption
- Milligrams per liter (mg/L)



Trace Metals Analysis

- Atomic Absorption
 Graphite Furnace
- Parts per Billion (ppb)



Hexavalent Chromium

- Ion Chromatography
- Parts per billion (ppb)

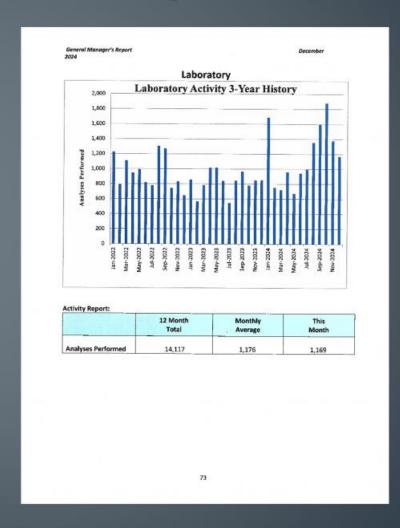


Trace Metals Analyses

- ICP-MS
- Parts per Trillion (ppt)



CVWD Laboratory Analytical Activity



Consumer Confidence Report

	-	0.000000000	STATE OF THE OWNER, STATE OWNER, S	Anna de la companya del companya de la companya de la companya del companya de la	The second second	
DETECTED PARAMETER, UNITS	PHG or (MCLG)	MCLIT	COVE COMMUNITIES ⁽¹⁾ RANGE (AVERAGE)	ID NO. 8 ^{IN} RANGE (AVERAGE)	WCL VIOLATION? (YES/NO)	MAJOR SOURCE(S)
Ansenic, µg/L	0.004	10	NO-11 ^{RI} (ND)		No	Erosion of natural deposits
Berlum, mg/L	2	1	ND-0.11 (ND)		No	Erosion of natural deposits
Chloride, mg/L	N/A	500;600 ^(1,4)	6.3-120 (21)	11-31 (17)	No	Leaching from natural deposits
Chlorine (as Cl ₂), mg/L tH	MRDLG=4	MRDL=4.0	ND-1.9 (0.6)	0.1-1.4 (0.9)	No	Result of drinking water chlorination
Chromium, µg/L	(100)	50	ND-21 (ND)	13-22 (17)	No	Erosion of natural deposits
Chromium-6, µg/L ⁽⁷⁾	0.02	NA	ND-22 (8.5)	14-23 (18)	No	Erosion of natural deposits
Copper, mg/L ⁽⁸⁾ Thomes tested/sites exceeding ALI	0.3	AL=1.3	0.11 (55/0)	0.10 [21/0]	No	Internal corresion of household plumbing
Dibromoctéoropropane (DBCP), ng/L	3	200	ND-60 (ND)	1200	No	Leaching of banned rematocide which may still be present in so
Fluoride, mg/L	1	2.0	0.13-1.0 (0.6)	0.4-0.6 (0.5)	No	Erosion of natural deposits
Gross Alpha Particle Activity (excluding Uranium), pCVL	(0)	15	ND-5.4 (ND)	ND-4.6 (ND)	No	Erosion of natural deposits
Hardness (as CaCO ₃), mg/L		N/A	7.6-310 (120)	72-240 (150)	No	Erosion of natural deposits
Nitrate (as Nitrogen), mg/L	10	10	ND-9.0 (1.1)	0.4-0.9 (0.6)	No	Leaching of fertilizer, animal wastes or natural deposits
Odor as threshold, units	NA	3 ^m	ND-2 (ND)		No	Naturally occurring organic materials
pH, units	1	N/A	6.8-9.1 (7.9)	7.5-8.1 (7.8)	No	Physical characteristic
Redium 228, pCl/L	0.019	5		ND-1.2 (ND)	No	Erosion of natural deposits
Sodium, mg/l.		N/A	18-110 (30)	54-89 (70)	No	Erosion of natural deposits
Specific Conductance, µS/cm	NA	1,500;2,200 ^(1,6)	240-1,100 (400)	530-880 (640)	No	Substances that form ions when in water
Sulfate, mg/L	N/A	500;600(1.4)	ND-260 (61)	140-260 (180)	No	Leaching from natural deposits
Total Coliform Bacteria, positive samples/month	(0)	5% or 100.10	ND-1.3% (ND)		No	Naturally present in the environment
Total Dissolved Solids, mg/L	N/A	1,000;1,500 ^(1,4)	130-720 (250)	340-610 (430)	No	Leaching from natural deposits
Total Tribalomethanes, µg/L ⁽⁶⁾	N/A	80	ND-14 (10)	1.3-17 (9.2)	No	By-product of drinking water chlorination
Turbidity, NTU	N/A	5111	NO-0.5 (ND)	ND-0.11 (ND)	No	Leaching from natural deposits
Uranium, pCVL	0.43	20	ND-13 (5.2)	2.1-6.1 (4.1)	No	Erosion of natural deposits
Zinc, mg/L	N/A	5.0(1)	ND-0.4 (ND)	and the same	No	Leaching from natural deposits
	W 111 /	A STATE OF THE STA	2020 UNREGULATED	CONTAMINANT MONIT	ORING ^{CH}	
Bromide, µg/L ⁽¹²⁾		N/A	25-160 (58)		No 1	Excelor of natural deposits
Germanium, µg/L ⁽¹²⁾		NIA	ND-0.35 (ND)		No	Erosion of natural deposits
Halosoetic Acids (HAA68ir), µg/L ^{(10), 140}		N/A	ND-9.4 (1.7)		No .	By-product of drinking water chlorination
Haloecetic Acids (HAAS), µg/L ^(13, 16)		N/A	ND-18 (2.9)		No	By-product of drinking water chlorination
Manganese, µg/L	N/A	50**	ND-1.6 (ND)	R	No	Erosion of natural deposits

FOOTNOTES:

(1) Values with this footnote have fixed Secondary MCLs, remaining values are Primary MCLs unloss identified otherwise.

(2) Cove Communities includes the communities of Rancho Mirage, Thousand Palms, Palm Desert, Indian Wells, La Clairia, Mecca, Boenbey Beach, North Shore, Hire Mineral Spa, and portions of Bermude Dunes, Cathedral Chy, India, Casis, Rhoral do County, Thomas, Valena Jain, Desert Shores, Satto See Beach and Satton City.

(\$1 ID No. 6 includes the communities of Indio Hills, Sky Valley; and select areas within and adjacent to Desert Hot Sorings.

(4) This constituent is manitored for aesthwice such as taste and odor. A fixed consumer acceptance consument level has not been established for this constituent.

(5) The reported average represents the highest running annual average based on distribution monitoring.

(6) Atthough an individual result may exceed the MCL, compliance is determined by using a running armusi average.

(7) California's Chromium-6 danking water MCL became effective on July 1, 2014. The C+6 MCL was invalidated and withdrawn in 2017.

soils (8) The reported values are 90th percentile levels for samples collected from faucets in

(\$4 The reported average represents the highest locational running annual average (LRAA), based on distribution system morehoring.

(10) Systems that collect 40 or more samples per month (Cove Communities): 5.0% of monthly samples are positive. Systems that collect less then 40 samples per month (ID No. 8; 1 positive monthly sample.

(11) All water systems are required to contribly with the California Total Californi Rule and the Federal Revised Total Californi file. The USEPA articipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and fix problems.

(12) In 2020, USEPA required unregulated contaminant monitoring lidentified as UCMR4; for select CVWD domestic facilities in Cove Communities.

(10) Unregulated contaminants are those for which USEFA and DDW have not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist both regulatory agastics in determining the occurrency of unregulated contaminants in drinking water and whether further regulation is warraned.

(M) Results from 2020 unregulated contaminant monitoring rule (UCMR4) testing for six Haloscosic Acids (HAARS); CVMD performed this monitoring at select CVMD domestic facilities in Cow Communities.

(15) Results from 2020 unregulated contaminent monitoring rule (UCMR4) sasting for mine Habackels Acids (HAA3) CVMD parkerned this monitoring at select CVMD domestic facilities in Cover Communities.

MORE INFORMATION:

To receive a summary of CVWD's source water assessments or additional water quality data or clarification, call CVWD's Water Quality Division at 1760; 398–2655.

Complete copies of source water assessments may be viewed at CVWO's office at 75-525 Hovley Lane East, Polm Desert, CA 92211.

Este informe contiene información muy importante sobre su agua potable. Tradizcale o a hable con alguien que lo entiende bien. También puede llamar ai CVWD al número de telétono (760) 398-2651 ó vaya a CVWD.org/informeanua(2023.

Note: Above statement hillits California Code of Regulations' requirement Insection 64481().

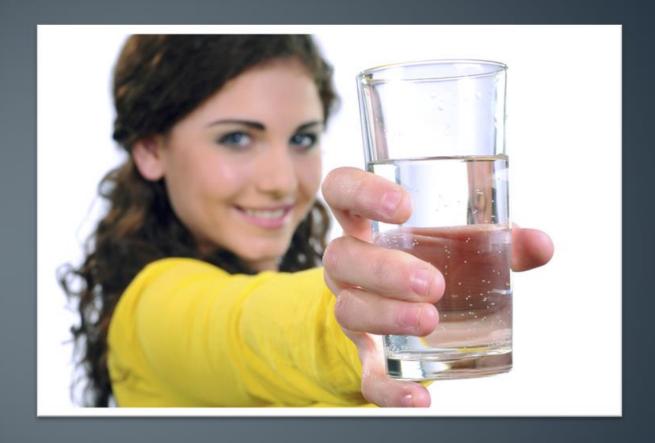
TO READ THIS TABLE: First, detarmine your service area by referring to factorises 2 and 3 on the opposite page. Then move down the corresponding column, from properting the detection level of each chemical or other contaminant with the Public Health Goal (PHG), Maximum Comminism Level Goal (MCLQ) and MCL.

For example, if you live in La Quinte and want to know the livest of fluoride detected in your service area, you would look down the Cove Communities column and stop at the fluoride row. The average fluoride level in that service area is 0.6 mg/L, with the range of results varying from 0.13 mg/L to 1.0 mg/L.

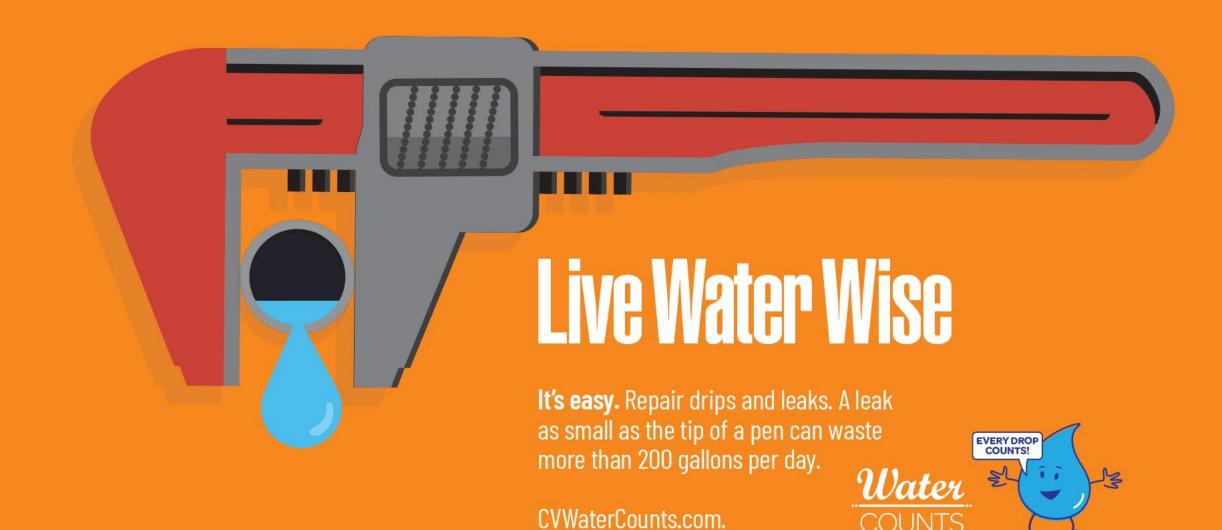
Compare these values to the MCL in the third column. Fluoride levels in this water comply with the MCL of 2.0 mg/L. The range can show a level above the

WHAT'S IN MY WATER? CVWD enalyzed more than 16,000 water samples likely seer to monitor the water quality of drinking water delivered to its customers. Every year, CVWD is required to analyze a select number of these samples for more than 100 required and unregulated substances.

This table lists those substances that were detected in CVWD's two service areas. Dark grey boxes indicate the substance was not detected (MD), existing data is no larger reportation, or there is no evaluate data. The data on the chart summarizes results of the most recent monitoring completed principles 2013 and 2022. CVMD did not have any Musicianic Ontarialismal Level MCLU Vollations in 2023.



Questions?















Olivia Bennett

RECYCLE WATER MANAGER, COACHELLA VALLEY WATER DISTRICT

Olivia has a Bachelor of Science in Biology from MacMurray College in Jacksonville, Illinois.

Her focus is to work with customers to encourage connection to and use of nonpotable water sources for golf courses, landscape, and agricultural irrigation.













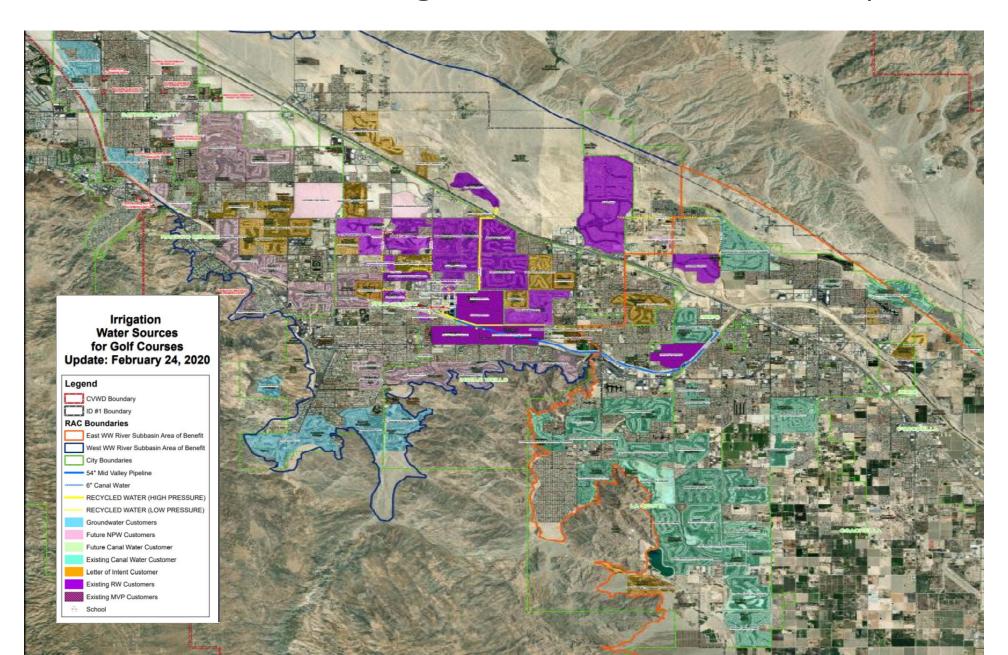


First golf course in the valley...

...was the O'Donnell in 1926, second was Indian Palms (used to be Cochran-Odlum) in 1947, third Thunderbird 1951...



Now, there are 119 golf courses in the valley!



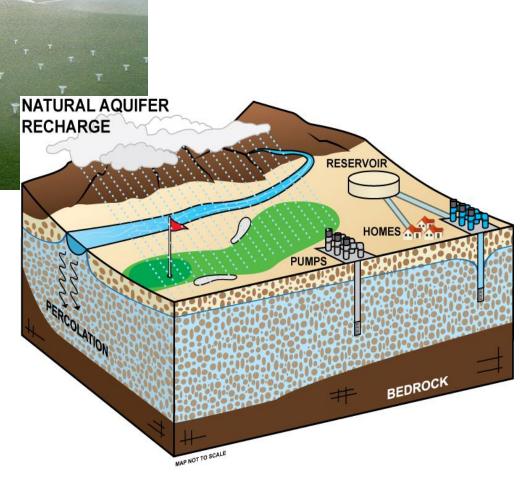
106 of the golf courses are within CVWD's boundaries.

Canal via Canal distribution system	30.5
Future Canal via Canal distribution system	3.0
Canal via Mid Valley Pipeline	6
Future Canal via Mid Valley Pipeline	16
Nonpotable	17.5
Future Nonpotable	23
Desert Water Agency-Recycled	0
Not planned for an Alternate Water Supply	10
Total Golf Courses:	106
Alternate Water Source:	54
Per Cent Using Alternate Water Source:	51%

Sources of golf course irrigation water:

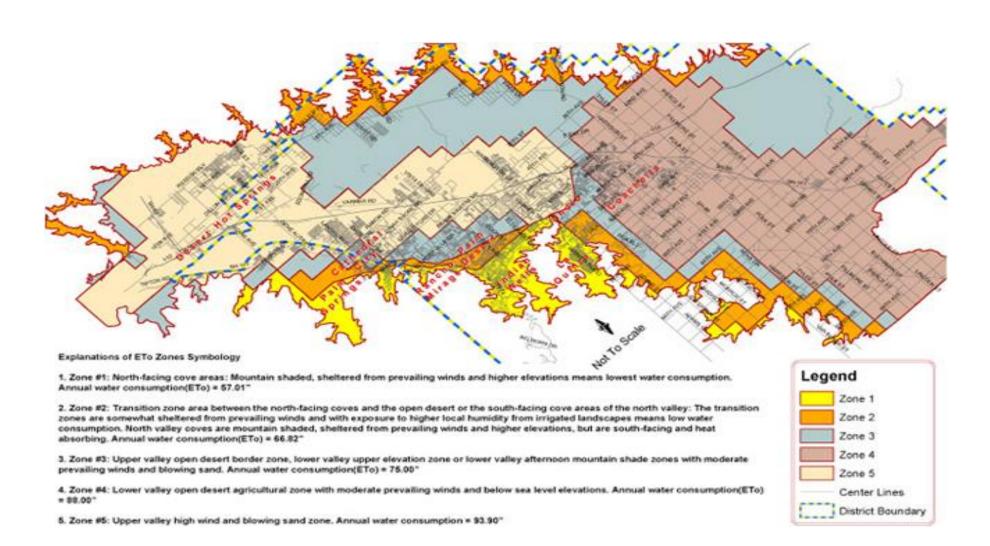


- Storm water
- Ground water
- Nonpotable Water

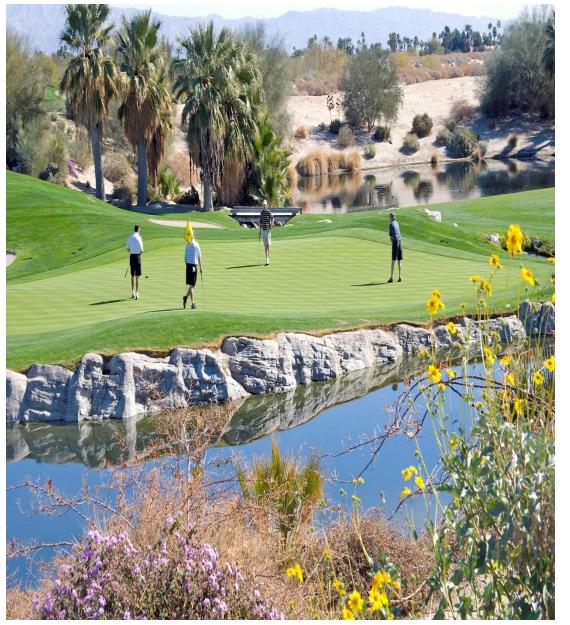


How much water is used by a golf course annually?

It depends primarily on the ETo zone, irrigated acreage and lake area. Anywhere from about 300 AF/Yr for our smaller courses in a protected area to about 1400 AF/Yr for our large courses in the windy areas. Average of 981 AF/Yr.



Average water use for a golf course



The average water use on a golf course is around 981 acft/yr.

To make it easy, we round up to say that "a typical golf course uses 1,000 acft per year".

Golf Courses in the valley use up to 119,000 acft of water per year.

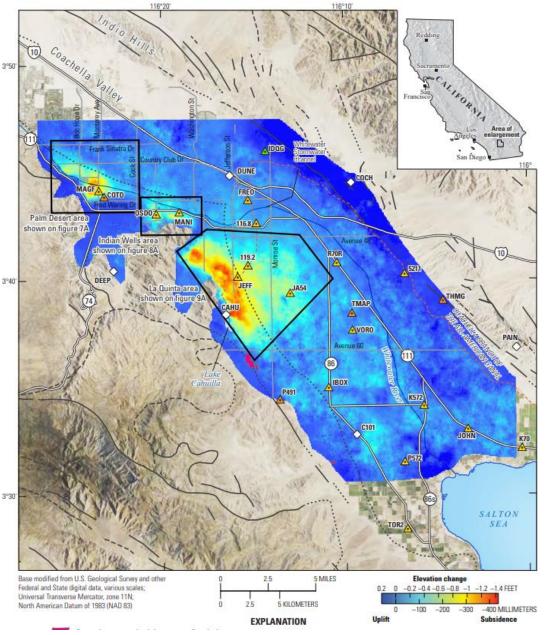
What's the big deal?

USGS report published in 2020.

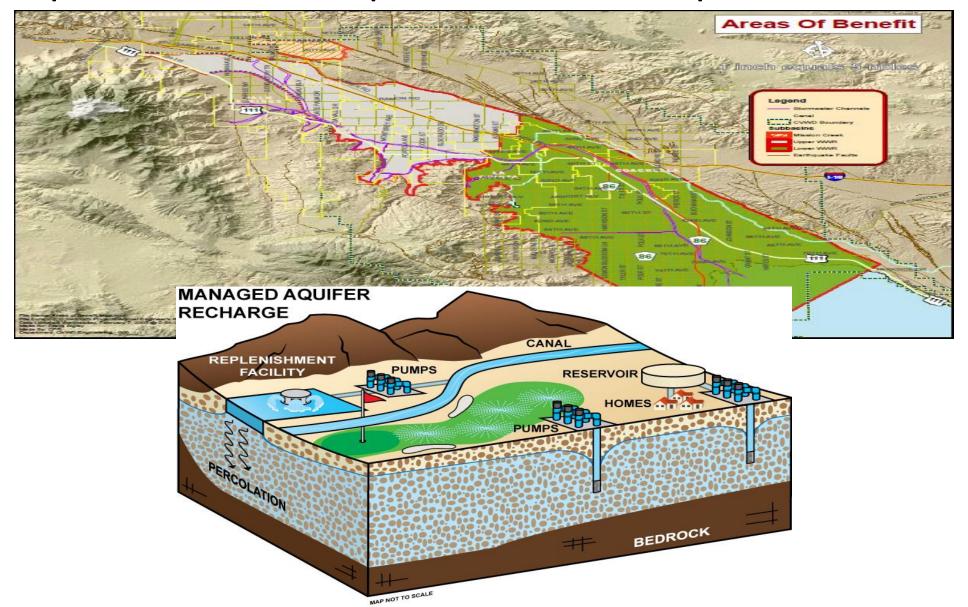
- CVWD and USGS study since 1996.
- Detection and measurement of land subsidence and uplift from 2010-2017.
- Yellow and red show areas of subsidence.
 - Up to 1.4ft



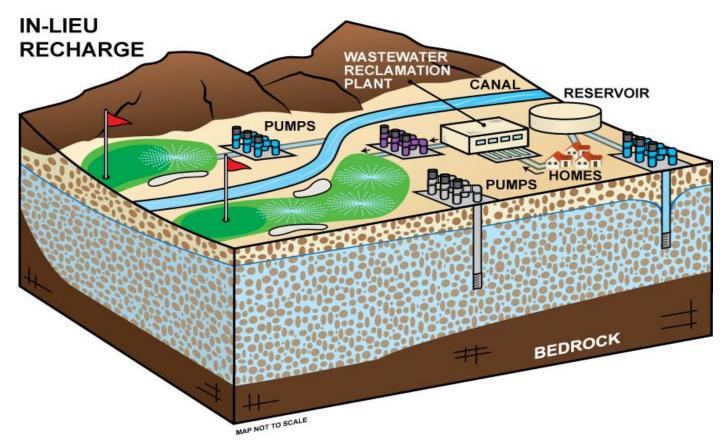
Overdraft and subsidence.



To minimize and eliminate further overdraft, the aquifer has been replenished with imported water.

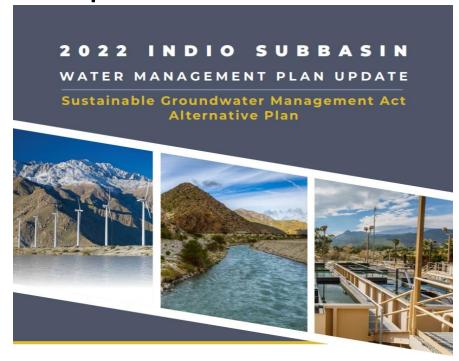


In the mid-valley, mostly West, there are 38 golf courses available for in-lieu recharge opportunities.



In-lieu of delivering imported water to percolation ponds to replenish the aquifer, a nonpotable water source is delivered to golf courses for irrigation, leaving groundwater in the ground.

2022 Indio Sub-basin Water Management Plan Update



The goal of the ISWMP is to reliably meet current and future water demands in a cost effective and sustainable manner.

Volume 1: Alternative Plan

Adopted | December 2021

http://www.indiosubbasinsgma.org/

Prepared for: Indio Subbasin Groundwater Sustainability Agencies









Per the ISWMP...

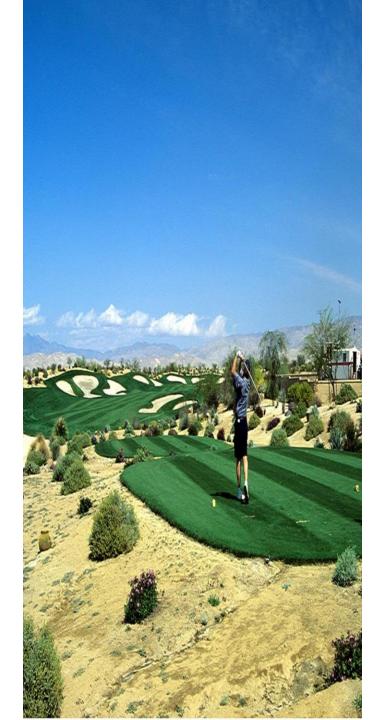
In order to maintain water reliability and resilience, the following priorities are used when selecting Projects and Management Actions:

- Fully use available Colorado River water supplies.
- Continue developing recycled water as a reliable local water supply.
- Implement source substitution and replenishment.
- Increase water-use efficiency across all sectors.

ISWMP objectives for golf courses:

- Conservation
- Utilize nonpotable water sources for golf courses.





Golf and Water Task Force

Mission Statement

To ensure a sustainable water supply for future generations, to meet if not exceed the goals of the Coachella Valley Water Management Plan, to pursue all feasible water conservation measures, to promote and expedite the use of nonpotable water, and to educate Valley residents regarding the importance of pursuing these goals for the environmental and economic quality of life in the Coachella Valley.

Nonpotable Water for In-Lieu Recharge

Types of nonpotable water source for golf courses:

- 1. Canal Water (Colorado River Water)
 - Mid-Valley Pipeline
 - Coachella Branch of All American Canal
 - Canal water distribution system.



- Water Reclamation Plant (WRP7 or WRP10)
- Tertiary Disinfected Recycled Water



- ✓ Nonpotable customers irrigate with a water source that is not deemed safe for drinking.
- ✓ Primary water source is no longer groundwater, our potable water source.





East Valley Canal water connections:

In 2024, 22,947, 77% of their total irrigation demand.

- Goal = up to 33,500 AFY
- 3 more golf courses to connect

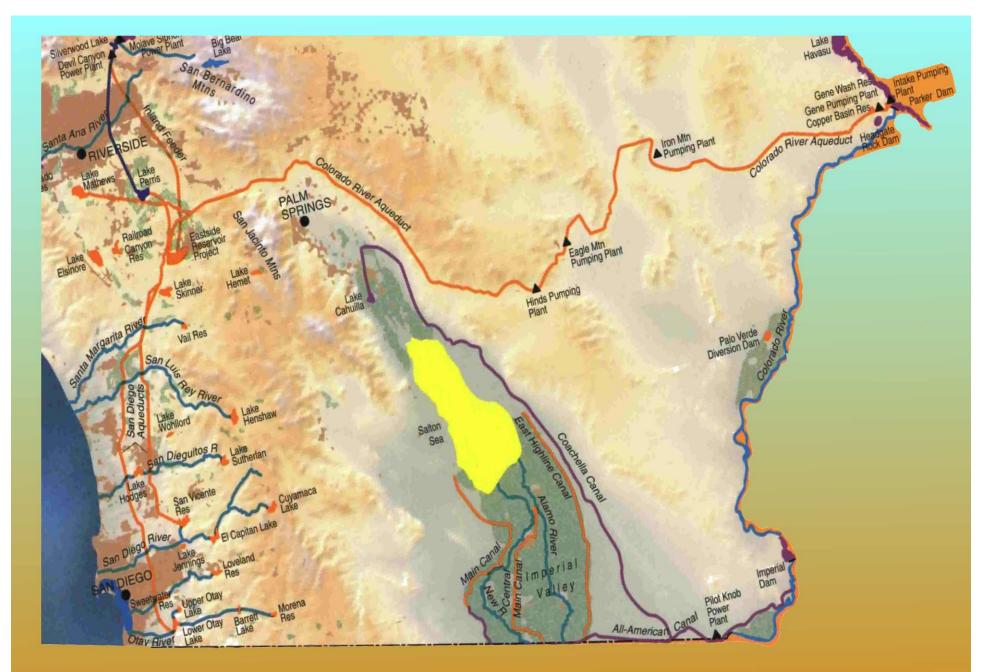
Mid Valley NPW connections:

In 2024, 24,201 AF, 90% of total irrigation demand.

- Goal = up to 61,500 AFY
- 38 more golf courses to connect

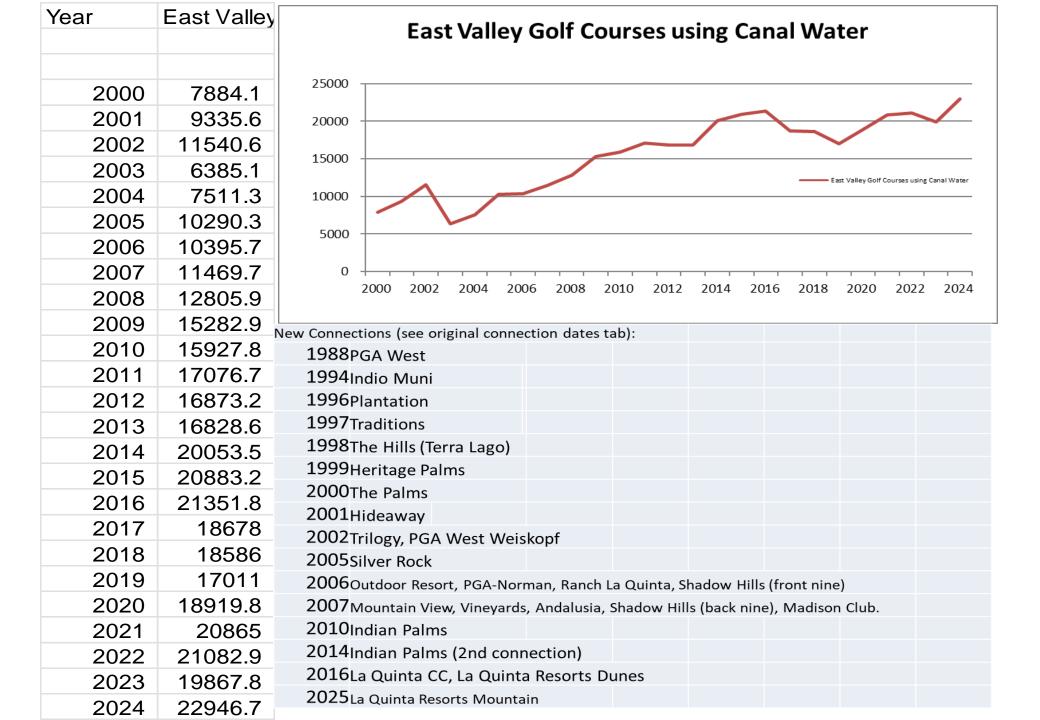
Goal = 80%

Source of Canal Water





The 3 remaining conversions are expected to be completed by 2035.



Recycled Water

 Recycled water has been a water supply source in the Valley since 1965 at Palm Desert Country Club. CVWD acquired this WRP in 1968.

• CVWD has 2 wastewater treatment plants that provide recycled water for golf course and landscape irrigation.

• CVWD delivers disinfected tertiary recycled water for golf course and landscape irrigation.

What is Recycled Water?

Municipal wastewater collected from homes and businesses that receives a high level of treatment at a water reclamation plant. It is monitored 24/7, water quality samples are collected and tested to ensure permit regulation limitations are met, so that it can safely be beneficially reused. It is no longer considered wastewater.







Rules and Regulations

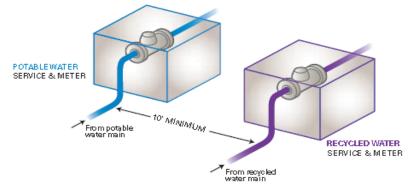
- Dos and Don'ts
- Training
- Permit
- Agreement
- Purple
- Signs
- Public notification
- Cross-connection Test
- Quarterly Survey
- Monitoring and Reporting







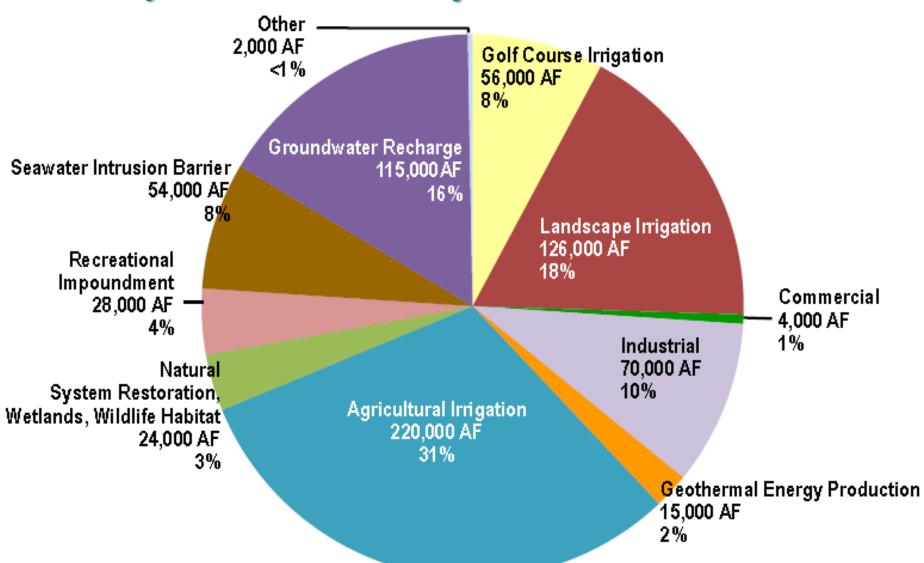




Allowed Uses of Recycled Water

Recycled Water Use	Treatment Level			
	Disinfected Tertiary Recycled Water	Disinfected Secondary 2.2 Recycled Water	Disinfected Secondary 23 Recycled Water	Undisinfected Secondary Recycled Water
Irrigation for:				
Food crops where recycled water contacts the edible portion of the crop, including all root crops	ALLOWED	NOT ALLOWED	NOT ALLOWED	NOT ALLOWED
Parks and playgrounds				
School grounds				
Residential landscaping				
Unrestricted-access golf courses				A STATE OF THE STA
Any other irrigation uses not specifically prohibited by other provisions of the California Code of Regulations				
Food crops, surface-irrigated, above-ground edible portion, not contacted by recycled water		ALLOWED		
Cemetaries			ALLOWED	
Freeway landscaping				
Restricted-access golf courses				图 图 图
Ornamental nursery stock and sod farms with unrestricted public access				
Pasture for milk animals for human consumption				
N - W - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				

2015 Recycled Water Use: 714,000 acre-feet/881M cubic meters





7 Reasons Why We Use Recycle Water in Coachella Valley

- 1. Department of Water Resources projects large statewide shortages.
- 2. Groundwater is our drinking water source (Potable/Domestic). Use potable water for potable purposes and non-potable for non-potable purposes.
- 3. CVWD adopted and is implementing the ISWMP to eliminate overdraft and is our Groundwater Sustainability Plan, which identifies recycled water as a reliable local water supply for irrigation.
- 4. Irrigating with Recycled Water Saves Groundwater and helps prevent future overdraft.

7 Reasons Why We Use Recycle Water in Coachella Valley

- 5. Treatment technology can produce a safe recycled water for any given use.
- 6. RW for irrigation more economical than advanced treatment for potable reuse.
- 7. More economical than buying additional imported water rights.

Not enough recycled water



- Recycled water supply is not a sufficient water supply for all golf courses in the mid-valley area.
- Recycled water supply is limited in the summer and golf courses would supplement with groundwater.

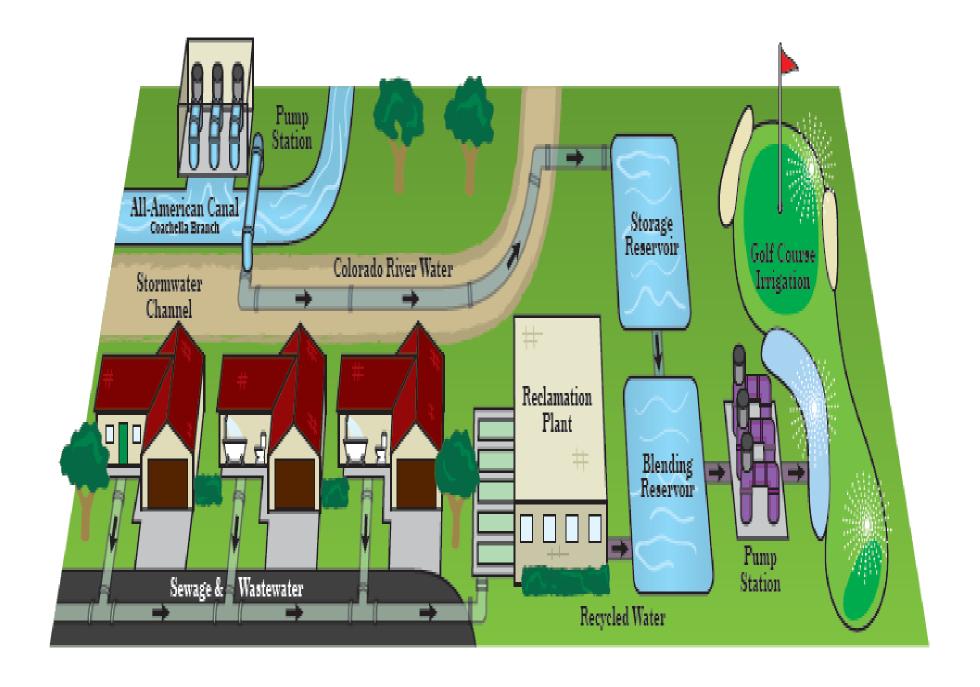
Mid-Valley Pipeline In-Lieu Project



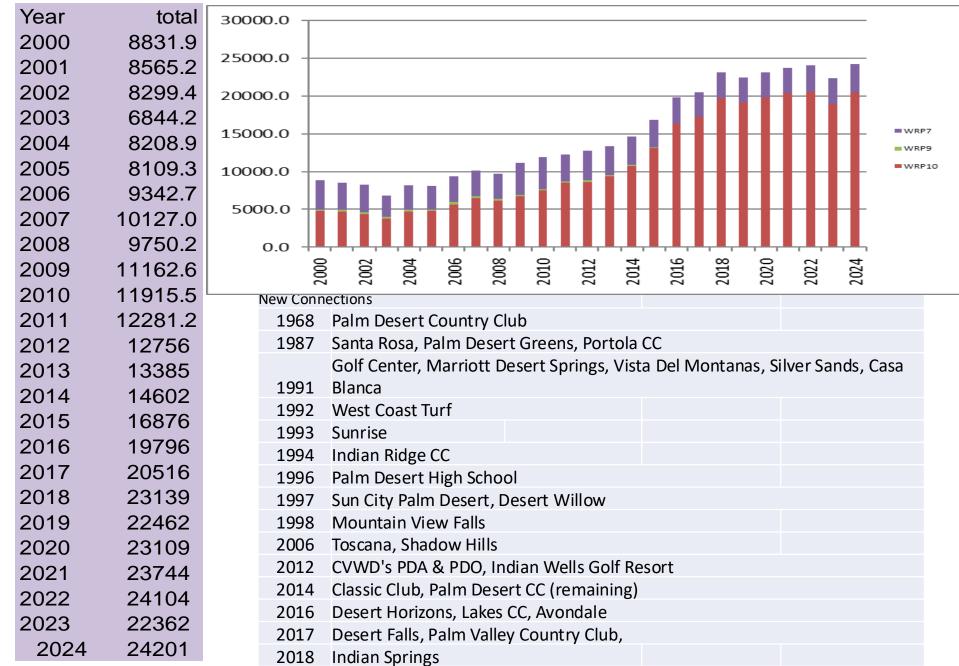
- The MVP delivers canal water to WRP10. Completed in 2009. 7 mile, 54" pipeline of welded steel with cement mortar lining in the wash.
- Canal water supplements the recycled water supply and provided to golf courses in lieu of their pumping groundwater.

*In 2024, MVP provided 12,202 acft of canal water to golf courses in the mid-valley area.



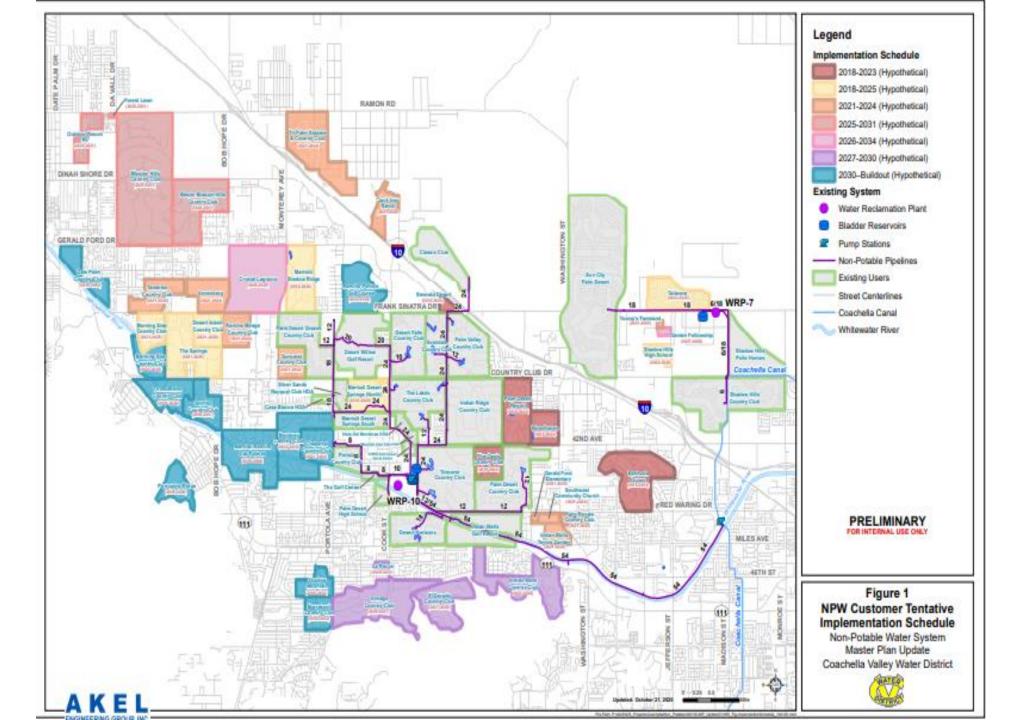


Nonpotable Water use in Mid-Valley



NPW Connections





When NPW build out is complete...

Canal via Canal distribution system	
Canal via Mid Valley Pipeline	22
Nonpotable	40.5
Desert Water Agency-Recycled	0
Not planned for an Alternate Water Supply	10
Total Golf Courses:	106
Alternate Water Source:	96
Per Cent Using Alternate Water Source:	91%

Golf courses using nonpotable water will allow potable water to be available for potable uses.

Estimated annual use of water is 1000 acft / year per golf course

1000 AFY x 119 golf courses 119,000 AFY

30.5 golf courses in the east valley have access to canal water and 3 are focused or for future canal water use.

1000 AFY x (30.5 golf courses + 3 golf courses) = 3. FY

23.5 golf courses in the mid-valley use nonpotable wa

1000 AFY x 23.5 golf courses = 23,500 AFY

6 golf courses in upper valley (DWA) use recycled water.

1000 AFY x 6 golf courses = 6,000 AFY

The future Mid-Valley Pipeline Project, includes 38 golf courses in mid-valley to use reconnal water blend

1000 AFY x 38 golf courses = 38,000 AFY

119,000 AFY - 33,500 AFY - 23,500 AFY - 6,000 AFY - 38,000 AFY = 18.0





Thank you Olivia Bennett Nonpotable Water Operations Manager



Questions?















Please watch for and complete our survey. Thank you!













Live Water Wise

It's easy. Check with your water agency to see what rebates are available, to save water, money, and beautify your home!

CVWaterCounts.com.















