A Message from General Manager Stephen M. Zurn

federal, state and local water quality standards in 2016. GWP's by sizing them correctly, and by setting and maintaining the water dedicated team of water quality professionals, engineers, elevation set points properly as noted in the previous section. operators and distribution crews work to ensure safe and reliable Residuals are monitored weekly in the distribution system and water service to the City by overseeing a comprehensive cross- storage facilities and flushing is conducted as needed. Additional connection control program, planning and replacing aging sample stations will be added to our distribution system for water infrastructure, responding quickly to unexpected leaks, and quality monitoring along with revisions to GWP's BSSP and operating the system efficiently to meet water demands. We are Nitrification Monitoring Plans. able to accomplish all of these while maintaining competitive rates To ensure the continued value of your community's water system, for our water customers.

every employee in GWP's Water Division. A detailed System savings GWP has achieved in recent years and the continuing Optimization Program has been put in place to work through need to replace and rehabilitate the City's water system. Being opportunities to reduce detention time to maintain a disinfectant proactive in updating the costs to provide service ensures the residual throughout our distribution system, as well as making appropriate costs are being charged and it maintains the high other improvements in the system. The best method is to use level of service provided by your utility. the water as soon as possible once it is either delivered from the Thank you for your support. well, treatment plant, or from the water we purchase from the Metropolitan Water District. This means that it is important to

I am proud to report that Glendale Water & Power has met all reduce the detention time of the water in the reservoirs and tanks

GWP will be completing an updated cost of service analysis over Maintaining excellent water quality is a primary duty of the coming months taking into account the considerable cost

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City of Glendale Water & Power 2016 Water Quality Report to Our Customers

Follow us on:

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This information is very important. Please have someone translate it for you. Esta informacion es muy importante. Por favor pidale a alguien que se lo tradusca. Այս տեղեկությունը շատ կարևոր է։ Խնդրում ենք, որ մեկին թարգմանել տաք այն։ 此資訊十分重要。請您找人幫您翻譯。

यह सूचना अत्यंत ही महत्त्वपूर्ण है। कृपया कसीि से इसका अनुवाद करा लीजएि। これは非常に重要な情報です。どなたかに翻訳をお願いしてください。 이 정보는 매우 중요합니다. 누군가에게 번역해달라고 하십시오. Napakahalaga ang impormasyon na ito. Mangyaring ipasalin ninyo para sa inyong pang unawa.

Important Information for People with **Compromised Immune Systems**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

In 2016 Glendale Water and Power delivered 7.5 billion gallons of potable water to our customers. 65% was purchased from the Metropolitan Water District, after being imported and treated from Northern California and the Colorado River. 35% comes from local groundwater sources extracted from the Verdugo and San Fernando Basins. In addition, 7% of total water used in 2016 was recycled water delivered by the Los Angeles-Glendale Water Reclamation Plant. The plant's highly treated waste water meets or exceeds the water quality standards for recycled water and is used ONLY for irrigation and industrial processes.

Water Quality Terms in This Report

Maximum Contaminant Level (MCL):

The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG):

The level of a Contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.

Public Health Goal (PHG):

The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the CalEPA.

Primary Drinking Water Standard (PDWS):

MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Maximum Residual Disinfectant Level (MRDL):

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG):

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Regulatory Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Treatment Technique (TT):

A required process intended to reduce the level of a contaminant in drinking water.

Level 1 Assessment:

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment:

A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Source Water Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems. agricultural livestock operations, and wildlife.

Inorganic Contaminants, such as salts and metals, that can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides, that may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can, come from gas stations, urban storm water runoff, agricultural application, and septic systems.

Radioactive Contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

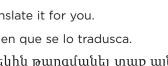
Disinfection By-Products, which include Trihalomethanes (THMs) and Haloacetic Acids (HAAs), are generated by the interaction between naturally occurring matter and disinfectants, such as chlorine.



Your Trusted Community Utilit

Glendale Water & Power 141 North Glendale Ave., Level 4 Glendale, CA 91206

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Glendale Water and Power

Glendale Water and Power (GWP) water was established in 1914. GWP provides water service to almost all residential, commercial and industrial consumers located within the incorporated areas of the City. GWP is the retail provider of water service to all consumers in the city except for a small areas in the northern portion served by Crescenta Valley Water District, GWP currently has approximately 33,700 service connections within 31 square miles. The potable water system has seven main pressure zones and consists of 397 miles of water mains, 28 pumping stations, 30 reservoirs and tanks, and 2 treatment plants: Verdugo Park Water Treatment Plant and Glendale Water Treatment Plant.

Sources of Glendale's Water



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City of Glendale Water & Power 2016 Water Quality Report to Our Customers

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

The water delivered to you by Glendale Water & Power continuously passes tough State and Federal quality standards. This booklet is a detailed report on the water we delivered to you in 2016.





State and Federal Regulation

In order to ensure that tap water is safe to drink, the USEPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DDW regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Customer Participation and Assistance

Comments from the public are welcome and may be presented at the Glendale Water & Power Commission meetings held the first Monday of each month, at 4:00PM, in the Glendale City Council Chambers, 613 E. Broadway. Please write to: James Saenz, Water Quality Manager, Water Quality Section, Glendale Water & Power 141 N. Glendale Ave., Level 4, Glendale, CA 91206 or call (818) 548-2011 . This report can also be downloaded on GWP's website www.GlendaleWaterAndPower.com



| | UNREGULATED CONTAMINANTS DETECTED AT GLENDALE'S WATER SOURCES | | | | | | | | | | | |
|----------------------------------|---|----------------------------|-----------------------|------------------|--------------------------|------------------------|--------------------------------|---|--------------------|------------------|--|--|
| | Units | Noti- fication Level | State DLR [PHG] | | MWD Weymouth Plant | MWD Jensen Plant | Glendale Treatment Plant | Verdugo Park Treatment Plant (n) | Glorietta Wells | Foothill Well | Major Sources of Contaminants in Drinking Water | |
| CONTAMINANTS WITH NO MCLs | | | | | | | | | | | | |
| Boron | ppb | 1,000 | 100 | Range Average | 150 150 | 270 270 | 140-230 180 | - | NA | NA | Runoff/leaching from natural deposits; industrial wastes | |
| Chlorate (j) | ppb | 800 | 20 | Range Average | 60 26 · | 39 - 60 | 100 -240 157 | - | NA | NA | By-product of drinking water chlorination; industrial processes | |
| N-Nitrosodimethylamine (NDMA) | ppt | 10 | 2 | Range Average | ND ND | ND - 2.7 - 5.1 | ND - 6.4 6.4 | - | NA | NA | By-product of drinking water chloramination; industrial processes | |
| N-Nitrosodiethylamine (NDEA) | ppb | 10 | 0.005 | Range Average | NA | NA | ND - 2.9 2.9 | - | NA | NA | By-product of drinking water chloramination; industrial processes | |
| Trichloropropane (1,2,3-TCP) | ppt | 5 | NA | Range Average | NA | NA | ND - 7.3 ND | - | ND | ND | Commonly used as an industrial solvent, cleaner, and degreaser, as well in the production of paint thinners and varnish removers. | |
| Vanadium | ppb | 50 | 3 | Range Average | ND | 7.4 7.4 | 4.3 - 5.9 5 | - | NA | NA | Naturally-occurring; industrial waste discharge | |

| LEAD AND COPPER RULE (d) | | | | | | | | | | |
|--|-------|-----------------|------|-------------------|--------------------|---|---|--|--|--|
| | Units | Action Level | PHG | No. of Samples | 90th Percentile | No. of sites exceeding action level | Major Sources of Contaminants in Drinking Water | | | |
| SAMPLES FROM CUSTOMERS' TAPS (COLLECTED EVERY 3 YEARS) | | | | | | | | | | |
| Copper (e) | ppb | 1300 | 170 | 51 | 260 | 0 | Internal corrosion of household pipes; erosion of natural deposits; wood preservative leaching | | | |
| Lead | ppb | 15 | 0.20 | 51 | ND | 0 | Internal corrosion of household pipes; discharges from industrial manufacturer; erosion of natural deposits | | | |

| CITYWIDE SAMPLING | | | | | | | | | | |
|----------------------------------|-------|---------------------|-----------------|---------------------|-----------|--|--|--|--|--|
| | Units | State MCL [MRDL] | MCLG [MRDLG] | Citywide Average | Range | Major Sources of Contaminants in Drinking Water | | | | |
| SAMPLES FROM DISTRIBUTION SYSTEM | | | | | | | | | | |
| Total Coliform Bacteria | % | 5.0 (c) | 0 | 0.5 | 0.0 - 3.1 | Naturally present in the environment | | | | |
| Fecal Coliform and E. Coli | | (c) | 0 | 0 | 0 | Human and animal fecal waste | | | | |
| Total Trihalomethanes (TTHM) (g) | ppb | 80 | NS | 38 | 25 - 58 | By-product of drinking water disinfection | | | | |
| Haloacetic Acids (HAA5) (g) | ppb | 60 | NS | 8.8 | ND - 18 | By-product of drinking water disinfection | | | | |
| Total Chlorine Residual | ppm | [4] | [4] | 1.02 | ND - 3.0 | Drinking water disinfectant added for treatment | | | | |
| Bromate (m) | ppb | 10 | (0.1) | 7.4 | 4.4 - 13 | By-product of drinking water ozonation | | | | |

| WATER CONSTITUENTS OF INTEREST TO THE PUBLIC | | | | | | | | | | |
|--|-------------|------------------|--------------------------|------------------------|--------------------------------|--|--------------------|------------------|--|--|
| | Units | | MWD Weymouth Plant | MWD Jensen Plant | Glendale Treatment Plant | Verdugo Park Treatment Plant (n) | Glorietta Wells | Foothill Well | | |
| Alkalinity | ppm | Range Average | 113 - 124 118 | 92 - 124 94 | 210 210 | - | 160 - 210 182 | 160 160 | | |
| Calcium | ppm | Range Average | 75 - 79 77 | 30 - 36 33 | 95 95 | - | 87 - 110 97 | 71 - 77 73 | | |
| Corrosivity (I) Aggressive Index | AI | Range Average | 12.4 - 12.5 12.5 | 12.2 12.2 | NA | - | 12 - 12 12 | 12 12 | | |
| Corrosivity Saturation Index | AI | Range Average | 0.56 - 0.60 0.57 | 0.35 - 0.40 0.38 | NA | - | NA | NA | | |
| Hardness (h) | ppm | Range Average | 293 - 306 300 | 126 - 132 129 | 340 340 | - | 350 - 440 387 | 280 - 300 289 | | |
| Magnesium | ppm | Range Average | 25 - 27 26 | 12 12 | 26 26 | - | 32 - 39 35 | 25 - 27 26 | | |
| рН | pH Units | Range Average | 8.1 8.1 | 8 8.3 | 6.6 - 8.3 7.7 | - | 6.6 - 8.3 7.3 | 6.6 - 7.8 7.4 | | |
| Potassium | ppm | Range Average | 5.0 - 5.1 5.1 | 2.9 - 3.2 3.1 | 4 4.20 | _ | 2.8 - 3.8 3.3 | 4.1 - 4.4 4.3 | | |
| Sodium | ppm | Range Average | 104 - 106 105 | 84 - 94 89 | 53 53 | - | 41 - 51 46 | 31 - 32 32 | | |
| Total Organic Carbon (TOC) | ppm | Range Average | 1.7 - 2.8 2.5 | 1.8 - 2.8 2.2 | 0.51 - 1.3 1.10 | - | NA | NA | | |

Abbreviations

- cu = color units
- DLR = Detection Limits for purposes of reporting
- DPH = Department of Public Health
- DDW = Division of Drinking Water
- MCL = Maximum Contaminant Level
- MCLG = Maximum Contaminant Level Goal
- mg/L = milligrams per liter
- MRDL = Maximum Residual Disinfectant Level
- MRDLG = Maximum Residual Disinfectant Level Goal
- MWD = Metropolitan Water District of Southern CA
- NA = Not Analyzed
- ND = None Detected
- NL = Notification Level
- NS = No Standard
- NTU = Nephelometric Turbidity Units
- pCi/L = picoCurries per liter
- PHG = Public Health Goal
- ppb = parts per billion
- ppm = parts per million
- TON = Threshold Odor Number
- TT = Treatment Technique
- Footnotes
- a) Aluminum has a secondary MCL of 200 ppb.
- b) Standard is for Radium-226 and -228 combined (calculated).
- c) Total coliform MCL: No more than 5% of the monthly samples may be
- total coliform-positive. d) Lead and Copper Rule compliance based on 90th percentile of all samples being below the Action Level. Samples were taken from 51 customer taps. Testing is required every three years. This data was collected in 2014. Next testing is 2017.

Nitrate

Nitrate levels may rise quickly for short quality drinking water, but cannot control periods of time because of rainfall or the variety of materials used in plumbing agricultural activity. Nitrate in drinking components. When your water has been water at levels above 10 mg/L is a health sitting for several hours, you can minimize risk for infants of less than six months of the potential for lead exposure by flushing age. Such nitrate levels in drinking water your tap for 30 seconds to 2 minutes can interfere with the capacity of the before using water for drinking or cooking. infant's blood to carry oxygen, resulting If you are concerned about lead in your in a serious illness; symptoms include water, you may wish to have your water shortness of breath and blueness of the tested. Information on lead in drinking pregnant women and those with certain http://www.epa.gov/lead. safe to drink.

Lead

materials and components associated Water Hotline (1-800-426-4791). with service lines and home plumbing.

skin. Nitrate levels above 10 mg/L may water, testing methods, and steps you also affect the ability of the blood to can take to minimize exposure is available carry oxygen in other individuals, such as from the Safe Drinking Water Hotline or at specific enzyme deficiencies. If you are Infants and young children are typically caring for an infant, or you are pregnant, more vulnerable to lead in drinking you should ask advice from your health water than the general population. It is care provider. Glendale's water is tested at possible that lead levels at your home the source for contamination then treated may be higher than at other homes in to maintain levels below the MCL to ensure the community as a result of materials the water delivered to our customers is used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may If present, elevated levels of lead can or flush your tap for 30 seconds cause serious health problems, especially to 2 minutes before using for pregnant women and young children. tap water. Additional information is Lead in drinking water is primarily from available from the USEPA Safe Drinking

Explanation Regarding Contaminants

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

e) Copper has a secondary MCL of 1000 ppb. f) Analysis was on water before blending with MWD supply. g) Compliance is based on system-wide annual average for the stage

2 DBPR.

0.60 ppm.

distribution system wide.

with an average of 2.5 ppm.

h) Hardness in grains/gallon can be found by dividing ppm by 17.1. i) For GWP sources, data represents the amount of naturally occurring fluoride. For MWD sources, data is after fluoride added at MWD treatment plant. Glendale's distribution system fluoride levels were monitored in 2016 - range 0.40 ppm - 0.75 ppm with an average of

j) Chlorate has a DDW Notification level of 800 ppb. Chlorate is a by-product of liquid chlorine. MWD range results were given

k) Water from the Foothill Well is blended with system water, actual level of nitrate in water served ranged between 1.4 and 4.7 ppm,

 AI < 10.0 = Highly aggressive and very corrosive water. AI >/= 12 = Non-aggressive water. AI (10.0 - 11.9) - Moderately aggressive water. m) Compliance was based on RAA. Bromate was tested at effluent of Jensen Treatment Plant where ozone is used as a disinfectant. n) Verdugo Park Water Treatment Plant was offline in 2016. o) While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

GWP is responsible for providing high

| DETECTED CONTAMINANTS AT GLENDALE'S WATER SOURCES | | | | | | | | | | | |
|---|-----------|--------------|---------------------|------------------|---|------------------------|--------------------------------|---|---------------------|---------------------|--|
| | Units | State MCL | PHG or [MCLG] | | MWD Weymouth Plant | MWD Jensen Plant | Glendale Treatment Plant | Verdugo Park Water Treatment Plant (n) | Glorietta Wells | Foothill Well | Major Sources of Contaminants in Drinking Water |
| ORGANIC CHEMICALS | | 1 | | | | | | | | | - |
| Tetrachloroethylene (PCE) | ppb | 5 | 0.06 | Range Average | ND | ND | ND | - | 0.7 - 2.5 1.3 | ND - 0.52 0.13 | Discharge from factories, dry cleaners, and auto shops (metal degreaser) |
| NORGANIC CHEMICALS | | | | | | | | | | | |
| Aluminum (a) | ddd | 1000 | 600 | Range Average | 77 - 220 159 | ND - 130 100 | ND | - | ND | ND | Residue from some water treatment process; natural deposits erosion |
| Antimony | ppb | 6 | 20 | Range Average | ND | ND | ND - 1.0 1.0 | - | ND | ND | Petroleum refinery discharges; fire retardants; solder; electronics |
| Arsenic (o) | ppb | 10 | 0.004 | Range Average | ND | 3.1 3.1 | ND - 1.6 1.6 | - | ND | ND - 1.2 0.9 | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes |
| Barium | ppb | 1000 | 2000 | Range Average | 144 144 | ND | 57 - 95 68.7 | - | 49 - 120 107 | 83 - 88 86 | Discharges of oil drilling waste and from metal refineries; erosion of natural deposits |
| Chromium 6 | ppb | 10 | 0.02 | Range Average | ND | ND | 3.6 - 6.4 5.3 (f) | | 0.3 - 0.4 0.3 | 1.4 - 1.4 1.4 | Industrial waste discharge; runoff/leaching from natural deposits |
| Chromium, Total | ppb | 50 | [100] | Range Average | ND | ND | 2.6 - 7.0 5.3 | - | ND | ND - 1.9 0.8 | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits |
| Fluoride (i) | ppm | 2 | 1 | Range Average | 0.6 - 1.0 0.7 | 0.6 - 0.8 0.7 | 0.35 0.35 | - | 0.20 -0.25 0.23 | 0.18 - 0.22 0.19 | Erosion of natural deposits; water additives that promotes strong teeth; discharge from fertilizer and aluminum factor |
| Nitrate (As N) | ppm | 10 | 10 | Range Average | ND | 0.6 - 0.9 0.8 | 4.3 - 5.7 5.2 | - | 5.7 - 8.8 7.4 | 8.7 - 10 9.8 (k) | Runoff and leaching from fertilizer use septic tank and sewage; natural erosion |
| RADIOLOGICALS | 1 | 1 | , | | , | | 1 | | | | |
| Gross Alpha Particle Activity | pCi/L | 15 | [0] | Range Average | ND - 4 ND | ND - 5 3 | 7.9 7.9 | - | 3.35 - 6.61 5.05 | 3.85 - 3.85 3.85 | Erosion of natural deposits |
| Gross Beta Particle Activity | pCi/L | 50 | [0] | Range Average | 4 - 6 5 | ND - 5 ND | 1.3 1.3 | - | NA | NA | Decay of natural and man-made deposits |
| Combined Radium (b) | pCi/L | 5 | [0] | Range Average | ND | ND | ND - 2.4 0.7 | - | ND | ND | Erosion of natural deposits |
| Strontium | pCi/L | 8 | 0.35 | Range Average | ND | ND | 0.63 - 0.66 0.64 | - | NA | NA | Decay of natural and man-made deposits |
| Uranium | pCi/L | 20 | 0.43 | Range Average | 2 - 3 3 | 2 - 3 2 | 5.7 - 5.8 5.75 | - | 5.6 - 9.4 7.1 | 3.6 3.6 | Erosion of natural deposits |
| REGULATED CONTAMIN | NANTS WIT | H SECOND | ARY MCLS | | , | | | | | | 1 |
| Chloride | ppm | 500 | NS | Range Average | 103 103 | 89 - 97 93 | 61 - 64 62 | - | 87 - 110 100 | 49 - 60 56 | Runoff/leaching from natural deposits; seawater influence |
| Color | cu | 15 | NA | Range Average | 1 | 1-2 2 | ND | - | ND | ND | Naturally occurring organic materials |
| Iron | ppb | 300 | NA | Range Average | ND | ND | ND | - | ND | ND - 0.17 0.04 | Leaching from natural deposits; industrial waste |
| Manganese | ddd | 50 | NL = 500 | Range Average | ND | ND | ND - 3.6 2.8 | - | ND | ND - 2.2 0 | Leaching from natural deposits; industrial wastes |
| Odor | TON | 3 | NS | Range Average | 2 2 | 3 3 | 1 | - | ND | ND | Naturally occurring organic materials |
| Silver | ddd | 100 | NA | Range Average | ND | ND | ND - 3.6 3.6 | - | ND | ND | Industrial discharges |
| Specific Conductance | uS/cm | 1600 | NA | Range Average | 1020 - 1050 1035 | 652 - 721 687 | 910 910 | - | 920 - 1000 970 | 690 - 740 726 | Substances that form ions in water; seawater influence |
| Sulfate | ppm | 500 | NS | Range Average | 256 - 259 258 | 89 - 104 95 | 140 140 | - | 120 - 140 132 | 72 - 84 80 | Runoff/leaching from natural deposits; industrial waste |
| Total Dissolved Solids (TDS) | ppm | 1000 | NS | Range Average | 650 - 659 655 | 377 - 423 400 | 550 - 560 553 | - | 570 - 680 620 | 420 - 480 459 | Runoff/leaching from natural deposits; seawater influence |
| Turbidity | NTU | тт | NS | Range Average | ND | ND | ND - 0.1 0.075 | - | ND - 0.11 0.04 | 1.2 - 1.2 1.2 | Soil runoff |