



# Groundwater Quality Monitoring Survey

The Texas Groundwater Protection Committee (TGPC, <https://tgpc.texas.gov/>) is conducting a survey which focuses on groundwater quality monitoring programs in Texas and their associated datasets. The purpose of this survey is to gain a better understanding of the various groundwater quality data collection efforts taking place across the state in order to identify potential data gaps, monitoring needs, and opportunities for collaboration. For this survey:

- A monitoring program is defined as routine (proactive or reactive) sampling that follows an approved protocol; and,
- A dataset is defined as related information that is grouped together and organized into a shareable format. This can be for an individual sampling event or a series of sampling events.

The TGPC plans to invite a number of entities to participate in this survey (e.g., federal and state agencies, Groundwater Conservation Districts (GCDs), academic institutions, etc.), and it would welcome responses from all interested parties. Please feel free to scroll through the survey first in order to review the questions. If you have ready access to the requested information about your groundwater quality monitoring program and its dataset, it should take less than 15 minutes to complete this survey. Please do not hesitate to contact Kathy McCormack (512-239-3975, [kathy.mccormack@tceq.texas.gov](mailto:kathy.mccormack@tceq.texas.gov)) or Rebecca Storms (512-475-3302, [rebecca.storms@twdb.texas.gov](mailto:rebecca.storms@twdb.texas.gov)) if you have any questions. This survey will close at 5:00 PM CDT on Friday, July 28, 2023. Thank you !

1. Your name \*

2. Your email address \*

3. Your phone number \*

4. Your affiliation \*

For example, your agency or organization name.

5. Do you have an active groundwater quality monitoring program ? \*

The monitoring can be conducted by you or your staff, or it can be conducted by others who then submit their findings to you.

If "Not currently" is selected, please answer the remaining survey questions as best you can for what you may/will be doing.

- ☐ Yes
- ☐ Not currently, but we may/will be doing some groundwater quality monitoring now through 2024
- ☐ No - go to Question 17

## 6. What is the monitoring program and/or dataset name ?

For example, "Cooperative Monitoring Program with TWDB (immunoassay screening) - Interagency Pesticide Database (IPD)".

NOTE - If you have multiple monitoring programs and/or datasets, please complete this survey for one of them, and then open and fill out another survey for the other(s).

## 7. What is the dataset format ?

- ☐ Hard copy
- ☐ Microsoft Excel
- ☐ Microsoft Access
- ☐ GIS geodatabase
- ☐ Oracle
- ☐ SQL server
- ☐ Other

## 8. Is the dataset available online ?

- ☐ Yes
- ☐ No - go to Question 10

9. What is the URL for the dataset ?

10. Is the dataset available upon request ?

- ☐ Yes
- ☐ No
- ☐ Partially (e.g., some information is confidential)

11. What is the purpose of the groundwater quality monitoring program ?

Check all that apply.

An example of "Other" is equipment testing, staff/volunteer training, etc.

- ☐ Ambient (i.e., general, baseline, or background data collection)
- ☐ Public outreach and education (e.g., screening events, citizen science, etc.)
- ☐ Research (e.g., special studies, etc.)
- ☐ Investigation (e.g., enforcement, etc.)
- ☐ Regulatory (e.g., permit requirement, site cleanup, etc.)
- ☐ Post-disaster response (e.g., flooded wells, etc.)
- ☐ Other

## 12. From what aquifer(s) are the samples collected ?

Check all that apply.

Information about Texas aquifers is available  
at <https://www.twdb.texas.gov/groundwater/aquifer/index.asp>.

An example of "Other" is "As per TWDB's aquifer monitoring plan, as well as additional limited other aquifers as funds allow".

- ☐ Every major and minor aquifer
- ☐ Carrizo-Wilcox
- ☐ Edwards (Balcones Fault Zone)
- ☐ Edwards-Trinity (Plateau)
- ☐ Gulf Coast
- ☐ Hueco-Mesilla Bolsons
- ☐ Ogallala
- ☐ Pecos Valley
- ☐ Seymour
- ☐ Trinity
- ☐ One or more of the 22 minor aquifers - please specify in Other
- ☐ Unknown
- ☐ Other

13. What is the groundwater source of the samples ?

Check all that apply.

An example of "Other" is another type of well not already listed.

☐ Public water supply well

☐ Private water well

☐ Standard monitor well

☐ Multiport monitor well

☐ Spring

☐ Other

#### 14. How often are the samples collected ?

Check all that apply.

An example of "Other" is "Every major and minor aquifer once every four years as per TWDB's schedule, as well as additional limited sampling as funds allow".

- ☐ Less frequently than annually
- ☐ Annually
- ☐ Twice per year
- ☐ Quarterly
- ☐ Monthly
- ☐ Weekly
- ☐ Daily
- ☐ Continuously
- ☐ As required
- ☐ Other

## 15. For what constituent categories are the samples analyzed ?

Check all that apply if the samples are analyzed for one or more constituents in that category.

- ☐ Field parameters (e.g., pH, temperature, conductivity, etc.)
- ☐ Nutrients (e.g., nitrate, nitrite, ammonium, phosphate, etc.)
- ☐ Organics (e.g., methyl tert-butyl ether (MTBE), volatile/semi-volatile organic compounds (VOCs/SVOCs), petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), chlorinated solvents, dioxins/furans, etc.)
- ☐ Inorganics (e.g., total dissolved solids (TDS), arsenic, fluoride, iron, manganese, chromium, lead, other metals, etc.)
- ☐ Pesticides (e.g., atrazine, diazinon, 2,4-D, metolachlor, glyphosate, other herbicides/insecticides/fungicides/rodenticides, etc.)
- ☐ Microbes (e.g., fecal pathogens, total coliforms, fecal coliforms, *E. coli*, *Cyclospora*, *Giardia*, *Cryptosporidium*, algae, other bacteria/viruses/parasites, etc.)
- ☐ Radionuclides (e.g., uranium, radon, radium, etc.)
- ☐ Stable isotopes (e.g., deuterium, etc.)
- ☐ Pharmaceuticals (e.g., hormones, antibiotics, steroids, other personal care products, etc.)
- ☐ Water/wastewater treatment products (e.g., disinfection byproducts, etc.)
- ☐ Microplastics/nanoplastics
- ☐ Other specific legacy or emerging contaminants (e.g., per- and polyfluoroalkyl substances (PFAS), 6 p-phenylenediamine-quinone (6PPD-q), 1,4-dioxane, n,n-diethyltoluamide, bisphenol A, tri(2-chloroethyl) phosphate, sulfamethoxazole, 4-octylphenol monoethoxylate, etc.) - please specify in Other
- ☐ Other



16. Drilling down into some of the categories in the previous question, are the samples analyzed for any of the following specific constituents that are of particular interest ?

Check all that apply.

- ☐ Conductivity
- ☐ Nitrate
- ☐ Total Dissolved Solids (TDS)
- ☐ Arsenic
- ☐ Atrazine
- ☐ *E. coli*
- ☐ Per- and polyfluoroalkyl substances (PFAS)

17. What, if anything, is preventing you from doing, or doing *more*, groundwater quality monitoring ? That is, what are you lacking ? \*

Check all that apply.

Examples of "Other" include equipment maintenance and repair, staff turnover, regulation uncertainty, etc.

- ☐ Funding
- ☐ Analysis cost
- ☐ Equipment
- ☐ Training
- ☐ Staff
- ☐ Access
- ☐ Time
- ☐ Approval or mandate
- ☐ Logistics
- ☐ Unknown - we need to investigate this further
- ☐ Not applicable - our groundwater quality monitoring program is sufficient for our needs
- ☐ Other

18. Do you have any additional feedback or information to share related to this survey ?

NOTE - If you'd like a copy of your survey responses, please print this webpage (to a printer or Save as PDF) before clicking the Submit button.

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