



ASSOCIATION OF
CENTRAL OKLAHOMA
GOVERNMENTS



GARBOR-WELLINGTON ASSOCIATION POLICY COMMITTEE



Chair

Ray Poland
Jones City Mayor

Vice-Chair

Mark Hamm
Moore Councilmember

Secretary/Treasurer

Matt Dukes
Midwest City Mayor

Executive Director

Mark W. Sweeney, AICP

THURSDAY

AGENDA: DECEMBER 15, 2022
2:30 P.M.

Association of Central Oklahoma Governments

4205 N. Lincoln Blvd. | Oklahoma City, OK 73105 | 405.234.2264 | acogok.org

THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE WILL HOLD A REGULAR MEETING ON THURSDAY, DECEMBER 15, AT ACOG IN THE OKLAHOMA BOARD ROOM, 4205 N. LINCOLN BLVD., OKLAHOMA CITY, OKLAHOMA.

Please notify ACOG at 405.234.2264 (TDD/TTY Call 711 Statewide or email title.vi@acogok.org) if you require accommodations pursuant to the Americans with Disabilities Act or Section 504 of the Rehabilitation Act.

AGENDA

1. CALL TO ORDER ([ATTACHMENT 1](#))
 2. APPROVAL OF THE MINUTES - OCTOBER 24, 2022 ([ATTACHMENT 2](#))
 3. STAFF REPORT: John Harrington, Water Resources Director. *For information only.*
 - A. DROUGHT UPDATE ([ATTACHMENT 3-A](#))
 - B. HEXAVALENT CHROMIUM UPDATE ([ATTACHMENT 3-B](#))
 - C. SANDSTONE MAPPING UPDATE ([ATTACHMENT 3-C](#))
 4. PROGRESS REPORT: John Harrington, Water Resources Director. ([ATTACHMENT 4](#)) *For information only.*
 5. NEW BUSINESS
 6. ADJOURN
-

NEXT MEETING:

Thursday, February 23, 2023, at 2:30 p.m.

GARBER-WELLINGTON POLICY COMMITTEE

CITY/ORGANIZATION	MEMBERS	ALTERNATES
BETHANY	Hon. Nikki Lloyd Mayor	Hon. Chris Powell Vice-Mayor
		Hon. Kathy Larsen Councilmember
CALUMET	Hon. Terry Brungardt Trustee	Hon. Michael Snyder Trustee
CHOCTAW	Hon. Chad Williams Councilmember	Hon. Jeannie Abts Councilmember
CRESCENT	Hon. Jim Neal Councilmember	Hon. Greg Cummings Mayor
DEL CITY	Hon. Floyd Eason Mayor	Hon. Pam Finch Vice-Mayor
		Hon. Michael Dean Councilmember
EDMOND	Hon. Josh Moore Councilmember	Hon. Darrell Davis Mayor
EL RENO	Hon. Matt White Mayor	Hon. Steve Jensen Councilmember
FOREST PARK	No Designee	No Designee
GEARY	No Designee	Hon. Bobby Allen Mayor
GOLDSBY	Hon. Glenn Berglan Mayor	Hon. Russ McReynolds Vice Mayor
GUTHRIE	Hon. Steven J. Gentling Mayor	Hon. Jeff Taylor Councilmember
HARRAH	Hon. Tim Rudek Councilmember	Hon. Chris Lally Councilmember
JONES CITY	Hon. Ray Poland Mayor	Hon. Missy Wilkinson Vice-Mayor
LANGSTON CITY	No Designee	Hon. Magnus Scott Trustee
		Hon. Linda Williams Trustee

GARBER-WELLINGTON POLICY COMMITTEE

CITY/ORGANIZATION	MEMBERS	ALTERNATES
LEXINGTON	Hon. Mike Donovan Councilmember	Hon. Max Punneo Vice-Mayor
LUTHER	Hon. Terry Arps Mayor	Hon. Joshua Rowton Trustee
		Hon. Carla Caruthers Trustee
MIDWEST CITY	Hon. Matt Dukes Mayor	Hon. Pat Byrne Vice-Mayor
		Hon. Rick Favors Councilmember
MOORE	Hon. Mark Hamm Councilmember	Hon. Glenn Lewis Mayor
		Amy Moore Councilmember
MUSTANG	Hon. Brian Grider Mayor	Hon. Michael Ray Councilmember
NICHOLS HILLS	Hon. Peter Hoffman Mayor	Vacant
NICOMA PARK	Hon. Mark Cochell Mayor	Hon. Mike Czerczyk Vice Mayor
NOBLE	Hon. Phil Freeman Mayor	Hon. George Schmerer Councilmember
NORMAN	Hon. Larry Heikkila Mayor	Hon. Lauren Schueler Councilmember
OKARCHE	Hon. Jeff Brueggen Trustee	Hon. Jeff Sadler Trustee
OKLAHOMA CITY	Hon. Todd Stone Councilmember	Any Oklahoma City Councilmember
PIEDMONT	No Designee	Hon. Melissa Ashford Councilmember
		Hon. Austin Redus Councilmember
SLAUGHTERVILLE	Hon. John Koehler Trustee	Hon. Eugene Dicksion Mayor
SPENCER	Hon. Frank Calvin Mayor	Hon. Charmin Williams Vice Mayor
THE VILLAGE	Hon. Sonny Wilkinson Mayor	Vacant

GARBER-WELLINGTON POLICY COMMITTEE

CITY/ORGANIZATION	MEMBERS	ALTERNATES
TUTTLE	Hon. Mary Smith Vice Mayor	Hon. Austin Hughes Councilmember
UNION CITY	Hon. Charlie Ross Vice Mayor/Trustee	Hon. Bob McGregor Trustee
WARR ACRES	Hon. Jim Mickley Mayor	Hon. Roger Godwin Councilmember
		Hon. John Knipp Councilmember
YUKON	Hon. Shelli Selby Mayor	Hon. Jeff Wootton Vice-Mayor
CANADIAN COUNTY	Hon. Marc Hader Commissioner	Hon. Jack Stewart Commissioner
		Hon. David Anderson Commissioner
CLEVELAND COUNTY	Hon. Rod Cleveland Commissioner	Hon. Darry Stacy Commissioner
		Hon. Harold Haralson Commissioner
LOGAN COUNTY	Hon. Kody Ellis Commissioner	Hon. Marven Goodman Commissioner
		Hon. Monty Piercy Commissioner
OKLAHOMA COUNTY	Hon. Carrie Blumert Commissioner	Hon. Brian Maughan Commissioner
		Hon. Kevin Calvey Commissioner
TINKER AIR FORCE BASE (Associate Member)	No Designee	Vacant



ATTACHMENT 2

SUBJECT:

MINUTES OF THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE MEETING

DATE:

OCTOBER 27, 2022

A regular meeting of the Garber-Wellington Association Policy Committee was convened at 3:27 p.m. Thursday, October 27, 2022, at Association of Central Oklahoma Governments (ACOG) in the Oklahoma Board Room, 4205 N. Lincoln Blvd., Oklahoma City, Oklahoma. The meeting was held, as indicated, by advance notice filed with the Oklahoma County Clerk and by notice posted at the ACOG offices at least 24 hours prior to the meeting.

PRESIDING CHAIR

Hon. Ray Poland, Mayor

ENTITY

Jones City

BOARD MEMBERS PRESENT

Hon. Nikki Lloyd, Mayor
Hon. Glenn Berglan, Mayor
Hon. Tim Rudek, Councilmember
Hon. Matt Dukes, Mayor
Hon. Mark Hamm, Councilmember
Hon. Brian Grider, Mayor
Hon. Phil Freeman, Mayor
Hon. John Koehler, Trustee
Hon. Mary Smith, Vice-Mayor
Hon. Shelli Selby, Mayor

ENTITY

Bethany
Goldsby
Harrah
Midwest City
Moore
Mustang
Noble
Slaughterville
Tuttle
Yukon

BOARD MEMBERS ABSENT

Hon. Terry Brungardt, Trustee
Hon. Chad Williams, Councilmember
Hon. Floyd Eason, Mayor
Hon. Josh Moore, Councilmember
Hon. Matt White, Mayor
No Designee
Hon. Warren G. Carter, Councilmember
Hon. Steven J. Gentling, Mayor
No Designee
Hon. Mike Donovan, Councilmember
Hon. Terry Arps, Mayor
Hon. Peter Hoffman, Mayor
Hon. Mark Cochell, Mayor
Hon. Larry Heikkila, Mayor
Hon. Joe Frisby, Trustee
Hon. Todd Stone, Councilmember
No Designee
Hon. Frank Calvin, Mayor

ENTITY

Calumet
Choctaw
Del City
Edmond
El Reno
Forest Park
Geary
Guthrie
Langston City
Lexington
Luther
Nichols Hills
Nicoma Park
Norman
Okarche
Oklahoma City
Piedmont
Spencer

BOARD MEMBERS ABSENT (Cont.)

Hon. Sonny Wilkinson, Mayor
 Hon. Charlie Ross, Vice-Mayor
 Hon. Jim Mickley, Mayor
 Hon. Marc Hader, Commissioner
 Hon. Rod Cleveland, Commissioner
 Hon. Kody Ellis, Commissioner
 Hon. Carrie Blumert, Commissioner

ENTITY

The Village
 Union City
 Warr Acres
 Canadian County
 Cleveland County
 Logan County
 Oklahoma County

ASSOCIATE MEMBERS ABSENT

No Designee

ENTITY

Tinker Air Force Base

GUESTS PRESENT

Pete White, Attorney
 Jon Sanford, Hydrologist

ENTITY/AGENCY/BUSINESS

ACOG Legal Counsel
 Oklahoma Water Resources Board

ACOG STAFF PRESENT

Mark W. Sweeney
 John M. Sharp
 Beverly Garner
 John Harrington
 Anita Kroth
 Jimmy Smith
 Eric Pollard

POSITION

Executive Director
 Deputy Director
 Executive Assistant
 Water Resources Director
 Administrative Assistant
 IT Operations Specialist I
 Air Quality & Clean Cities Manager

MINUTES

1. CALL TO ORDER - INTRODUCTION OF GUESTS

Chairman Ray Poland called the meeting to order at 3:27 p.m.

2. APPROVAL OF MINUTES - AUGUST 25, 2022

Director Nikki Lloyd, Bethany, made a motion to approve the August 25, 2022 minutes of the Garber-Wellington Association Policy Committee meeting. Director Tim Rudek, Harrah, seconded the motion. The motion carried unanimously.

3. STAFF REPORT**A. DROUGHT UPDATE**

Summer 2022 is over, but the drought is not. Statistical analyses from the Oklahoma Climatological Survey show that summer 2022 was the driest summer on record, which dates back 100 years. This summer was drier than any in the 1950's or the Dust Bowl. The implications of this are profound - the current drought is shaping up to be historic as any in the last century. We probably have another three or four drought summers to go through before the drought ends.

Static water levels recorded from the Spencer Oklahoma Mesonet station fell about two feet over the summer. Recharge to the aquifer from October 2021 to October 2022 happened only in the months of May and June; projections for 2022 indicate we will only get about half the normal recharge this year.

Surface water supplies now show the effects of drought which are visually evident regarding receding lake shorelines and dry farm ponds. Central Oklahoma reservoir capacity is about 85 percent - within expectations after a historic dry summer.

La Niña is anticipated to continue through Northern Hemisphere winter 2022-23, with a 91 percent chance in September-November, decreasing to a 54 percent chance in January-March 2023. This implies a drier than normal winter.

Most drought cycles in Oklahoma last 3-5 years. We probably will be looking at drought for another 2-4 years.

B. SANDSTONE MAPPING UPDATE

The 2019 604(b) project mapping of the Edmond Area is complete. The final report was approved by the EPA.

The 2020 604(b) project covering the Guthrie Area and the Lexington Area is continuing. Six cross-sections have been completed in the Guthrie area. Cross-section work in the Lexington area is starting.

The 2021 604(b) project “Geologic Modeling GW Aquifer” integrating the 2015 Norman work into the regional sandstone mapping project has the Quality Assurance Project Plan (QAPP) submitted and reviewed by EPA.

C. GRANT PROJECTS UPDATE

22604(b) - Effects on Aquifer Recharge from the Proposed Norman Turnpike - Workplan Approved by EPA

The proposed turnpike to be in Norman will go through a major portion of the nonurban recharge area of the Garber-Wellington aquifer. The route at present is mostly rural, but inevitably urbanization will take place along the route. This usually results in hardened surfaces such as parking lots and roofing along the route, resulting in less recharge to the aquifer and more overland flow into the watershed. This project will assess the amount of recharge loss due to the presence of the proposed turnpike.

22604(b) BIL - Source Tracking for Bacteria - Workplan Approved by EPA

The main objective of this project is to substantiate the relationship between flow, fluorescence, and pathogen concentrations in the North Canadian River and several major tributaries for purposes of determining human generated sources for pathogens. Pathogens that are the result of human activities are often associated with sewerage, which may contain many sources of fluorescent dyes. These dyes can be found in many paper products such as toilet paper, or with common soaps and detergents.

North Canadian River Dissolved Oxygen Model - State ARPA Application

ACOG has submitted a proposal for state ARPA funding. This project is a basin-wide approach for a wasteload allocation study on the North Canadian River in Canadian, Oklahoma, and Pottawatomie Counties in Central Oklahoma. Like a previous ACOG wasteload allocation study on the Canadian River to the south, the study will develop a mathematical model Water Quality Analysis Simulation Program (WASP) that will accurately simulate water quality in the streams under critical conditions. This model will then be used to generate simulations for the purpose of determining appropriate permit limits for point source discharges on the river.

At the present time ACOG has been notified by the Oklahoma Water Resources Board (OWRB) that this project does not fit the OWRB grant guidelines. Further assessment has been requested by ACOG.

4. PROGRESS REPORT

John Harrington pointed out that the progress report was available for review in the agenda.

5. NEW BUSINESS

There was no new business stated.

6. ADJOURN

There being no further business, the meeting was adjourned at 3:49 p.m.



ATTACHMENT 3-A

SUBJECT:
DROUGHT UPDATE

DATE:
December 15, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

Although November rainfall was slightly above normal at 2.69 inches (increase of 0.37 inches), the generous amount of precipitation did little to improve the drought situation. Severe drought was down by only 6 percent and exceptional drought was down by 1.28 percent. Most of the improvement was in the far southeast portion of the state.

Recharge to the aquifer has been essentially zero since June. It is expected that the annual amount of recharge for the aquifer in 2022 will be about 1.38 inches, about half of the average 2.78 inches.

Surface water conditions appear to have slowed or stopped declining; at present we are about 80 percent of capacity, compared to 90 percent capacity this time last year.

There is a 76 percent chance of La Niña during the Northern Hemisphere winter (December 2022-February 2023) with a transition to ENSO-neutral favored in February-April 2023 (57 percent chance). This implies a drier than normal winter.

Most drought cycles in Oklahoma last 3-5 years. We probably will be looking at drought for another 2-4 years.

ACTION REQUESTED:
For information only.



SUBJECT:

HEXAVALENT CHROMIUM UPDATE

DATE:

December 15, 2022

FROM:

JOHN HARRINGTON
Water Resources Director

INFORMATION:

Hexavalent chromium (CR6) in drinking water has been under regulatory review for many years now. EPA has a review process, and the assessment will enter External Peer Review in January 2023.

Public water supplies within on the Garber-Wellington (GW) Aquifer generally sample total chromium, not CR6. However, sixteen samples in the ACOG GW database have sampled for both total chromium and CR6. Most of the total chromium is made of CR6, thus we can assume the 1,424 total chromium samples in the ACOG GW database are hexavalent chromium. Out of 1,424 samples in the GW Aquifer database, about half would exceed 10 ppb. This indicates that the regulation, if passed, will affect the entire aquifer.

A California state court threw out a proposed state regulatory level of 10 ppb MCL (maximum contaminant level) because the California State Water Board "failed to properly consider the economic feasibility of complying with the MCL." Costs for large systems with more than 10,000 connections would be \$64 per year per connection. Costs for small systems serving 200-1000 connections would be \$857 per year, per connection; an increase of \$71.40 each month.

A real distribution of higher concentrations of chromium is like arsenic in the GW Aquifer. Deeper wells would become too expensive to pump. New wells would probably be drilled in the eastern part of the aquifer, where the sands are shallower, and the pH of the water is lower.

ACTION REQUESTED:

For information only.



SUBJECT:

SANDSTONE MAPPING UPDATE

DATE:

December 15, 2022

FROM:

JOHN HARRINGTON
Water Resources Director

INFORMATION:

2020 604(b) Project: Guthrie Area

Six cross-sections have been completed in the Guthrie area. Three cross-sections have been completed in the Lexington-Purcell area with one more to make. Sand thickness maps in these areas will be generated January-February 2023. The draft report will be available in March 2023.

2021 604(b) Project: Geologic Modeling GW Aquifer

The workplan has been approved and the Quality Assurance Project Plan (QAPP) was submitted in June 2022. We are waiting on EPA review and approval.

ACTION REQUESTED:

For information only.



SUBJECT:
PROGRESS REPORT

DATE:
December 15, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

ACOG Drought Program

Although November rainfall was slightly above normal at 2.69 inches (increase of 0.37 inches), the generous amount of precipitation did little to improve the drought situation. Severe drought was down by only 6 percent and exceptional drought was down by 1.28 percent. Most of the improvement was in the far southeast portion of the state.

Recharge to the aquifer has been essentially zero since June. It is expected that the annual amount of recharge for the aquifer in 2022 will be about 1.38 inches, about half of the average 2.78 inches.

Surface water conditions appear to have slowed or stopped declining; at present we are about 80 percent of capacity, compared to 90 percent capacity this time last year.

There is a 76 percent chance of La Niña during the Northern Hemisphere winter (December 2022-February 2023) with a transition to ENSO-neutral favored in February-April 2023 (57 percent chance). This implies a drier than normal winter.

Most drought cycles in Oklahoma last 3-5 years. We probably will be looking at drought for another 2-4 years.

Since the last progress report, two monthly drought reports have been generated.

20604(b) - Stratigraphic Mapping Garber-Wellington Aquifer in Guthrie Area

2020 604(b) Project: Guthrie Area

Six cross-sections have been completed in Guthrie area. Three cross-sections completed in Lexington-Purcell area with one more to make. Sand thickness maps in these areas will be generated January-February 2023. The draft report will be available in March 2023.

21604(b) - Geologic Modeling Garber-Wellington Aquifer

The FY 18-20 604(b) mapping projects produced cross-sections and net sand isopach maps for most of the aquifer. These mapping programs utilized the Aquaveo GMS database structure, which integrates the GIS capabilities of ArcGIS with MODFLOW.

To achieve an aquifer-wide database coverage and geologic model, additional data from the 2016 Norman area project must be integrated into the GMS database structure.

A geologic model for the entire aquifer will be produced, which can then be integrated into the groundwater models generated by the FY 2013-16 604(b) projects.

The workplan has been approved and the Quality Assurance Project Plan (QAPP) was submitted in June 2022. We are waiting on EPA review and approval.

22604(b) - Effects on Aquifer Recharge from the Proposed Turnpike in Norman

The proposed Turnpike will run through a major portion of the nonurban recharge area of the Garber-Wellington Aquifer in the City of Norman. Although the route at present is mostly rural, inevitable urbanization will take place along the route. This usually results in hardened surfaces such as parking lots and roofing along the route, resulting in less recharge to the aquifer and more overland flow into the watershed. Less recharge may affect the water table for domestic and municipal supplies and may also affect or downgrade potential drilling areas for additional well fields in the aquifer. The workplan proposal has been approved by the Environmental Protection Agency (EPA).

22604(b) BIL - Source Tracking for Bacteria - North Canadian River

The main objective of this project is to substantiate the relationship between flow, fluorescence, and pathogen concentrations in the North Canadian River and several major tributaries for purposes of determining human generated sources for pathogens. This project would continue the decadal ACOG sampling of bacteria in the urban corridor and watersheds of the North Canadian River and to apply fluorometry as a tool to address sources.

This project will be different from the 2011 study with the aspect that the bacteria samples will be subject to UV light before the application of the fluorometer.

The workplan proposal was sent to the Office of the Secretary of Energy and Environment (OSEE) and the EPA in May 2022. The workplan proposal has been approved by the EPA.

ACTION REQUESTED:

For information only.