



GARBER-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

association of central oklahoma governments

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

GWPC AGENDA:

THURSDAY, AUGUST 25, 2022, 2:30 P.M.



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THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE WILL HOLD A REGULAR MEETING ON THURSDAY, AUGUST 25, AT ACOG IN THE OKLAHOMA BOARD ROOM, 4205 N. LINCOLN BLVD., OKLAHOMA CITY, OKLAHOMA.

PLEASE NOTIFY ACOG AT 405-234-2264 (TDD/TTY CALL 7-1-1 STATEWIDE OR EMAIL title.vi@acogok.org) BY 5 P.M. MONDAY, AUGUST 22, 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 JUNE 30, 2022, MINUTES ([ATTACHMENT 2](#))
3. STAFF REPORT: John Harrington, Water Resources Director
For information only.
 - A. DROUGHT UPDATE ([ATTACHMENT 3-A](#))
 - B. SANDSTONE MAPPING UPDATE ([ATTACHMENT 3-B](#))
 - C. PROPOSED 604(b) AND ARPA PROJECTS UPDATE ([ATTACHMENT 3-C](#))
4. PROGRESS REPORT: John Harrington, Water Resources Director ([ATTACHMENT 4](#))
For information only.
5. NEW BUSINESS
6. ADJOURNMENT

NEXT MEETING:

October 27, 2022 at 2:30 p.m.

ATTACHMENT 1

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. Bruce Wallace, Mayor
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. Tim Robinson, Councilmember
FOREST PARK	No Designee	Vacant
GEARY	No Designee	Hon. Tabbitha Kiener, Councilmember
		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	Vacant
LANGSTON CITY	No Designee	Hon. Magnus Scott, Trustee
		Hon. Linda Williams, Trustee
LEXINGTON	Hon. Mike Donovan, Councilman	Hon. Max Punneo, Vice-Mayor
LUTHER	Hon. William T. 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
		Any Moore Councilmember
MUSTANG	Hon. Brian Grider, Mayor	Hon. Michael Ray, Councilmember

CITY/ORGANIZATION	MEMBERS	ALTERNATES
NICHOLS HILLS	Hon. Peter Hoffman, Mayor	Vacant
NICOMA PARK	Hon. Mark Cochell, Mayor	Hon. Mike Czerczyk, Vice-Mayor
NOBLE	Hon. Phil Freeman, Mayor	Hon. Ezra Roesler, Vice-Mayor
NORMAN	Hon. Larry Heikkila, Mayor	Hon. Lauren Schueler, Councilmember
OKARCHE	Hon. Jeff Brueggen, Trustee	Hon. Jeff Sadler, Trustee/Mayor
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	Hon. Wynter Griffis, Vice-Mayor
		Hon. Sean Cummings, Councilmember
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, Councilman
		Hon. John Knipp, Councilman
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 Piearcy, Commissioner
OKLAHOMA COUNTY	Hon. Carrie Blumert, Commissioner	Hon. Brian Maughan, Commissioner
		Hon. Kevin Calvey, Commissioner

ATTACHMENT 2

SUBJECT:

MINUTES OF THE GARBER-WELLINGTON ASSOCIATION POLICY COMMITTEE MEETING

DATE:

JUNE 30, 2022

The regularly scheduled meeting of the Garber-Wellington Association Policy Committee was convened at 3:12 p.m. on June 30, 2022 in the Association of Central Oklahoma Governments (ACOG) Board Room, 4205 N. Lincoln Boulevard, Oklahoma City, Oklahoma. The meeting was held as indicated by a notice filed in advance with the Oklahoma County Clerk and by notice posted at the ACOG offices at least twenty-four hours prior to the meeting.

PRESIDING

Hon. Ray Poland, Chair

CITY/AGENCY

Jones City

POLICY COMMITTEE MEMBERS PRESENT IN-PERSON

Hon. Josh Moore, Councilmember
Hon. Steven J. Gentling, Mayor
Hon. Tim Rudek, Councilmember
Hon. Matt Dukes, Mayor
Hon. Phil Freeman, Mayor
Hon. John Koehler, Trustee
Hon. John Knipp, Councilmember
Hon. Shelli Selby, Mayor

Edmond
Guthrie
Harrah
Midwest City
Noble
Slaughterville
Warr Acres
Yukon

POLICY COMMITTEE MEMBERS ABSENT

Hon. Nikki Lloyd, Mayor
Hon. Terry Brungardt, Trustee
Hon. Chad Williams, Councilmember
Hon. Floyd Eason, Mayor
Hon. Matt White, Mayor
No Designee
Hon. Warren G. Carter, Councilmember
Hon. Glenn Berglan, Mayor
No Designee
Hon. Mike Donovan, Councilmember
Hon. Terry Arps, Mayor
Hon. Mark Hamm, Councilmember
Hon. Brian Grider, Vice-Mayor
Hon. Peter Hoffman, Mayor
Hon. Mark Cochell, Mayor
Hon. Breea Clark, Mayor
Hon. Joe Frisby, Trustee
Hon. Todd Stone, Councilmember
No Designee
Hon. Frank Calvin, Mayor
Hon. Sonny Wilkinson, Mayor
Hon. Mary Smith, Vice-Mayor

Bethany
Calumet
Choctaw
Del City
El Reno
Forest Park
Geary
Goldsby
Langston City
Lexington
Luther
Moore
Mustang
Nichols Hills
Nicoma Park
Norman
Okarche
Oklahoma City
Piedmont
Spencer
The Village
Tuttle

POLICY COMMITTEE MEMBERS ABSENT (continued)

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

CITY/AGENCY

Union City
 Canadian County
 Cleveland County
 Logan County
 Oklahoma County

GUESTS

Pete White

POSITION

ACOG Attorney

STAFF

Mark W. Sweeney
 John M. Sharp
 Debbie Cook
 John Harrington
 Beverly Garner
 Jimmy Smith

POSITION

Executive Director
 Deputy Director
 Finance Director
 Water Resources Director
 Executive Assistant
 IT Operations Specialist

1. CALL TO ORDER

Chair Ray Poland called the meeting to order at 3:12 p.m.

2. APPROVAL OF MINUTES - JUNE 30, 2022

Director Josh Moore, Edmond, made a motion to approve the Garber-Wellington Association Policy Committee minutes. Director Steven J. Gentling, Guthrie, seconded the motion. The motion carried unanimously.

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

The flash drought in Oklahoma that started in September 2021 is now expanding to the southeast into Arkansas and East Texas. During winter 2022 drought intensified in Oklahoma. Beginning in May 2022, drought receded from the eastern part of the state to areas west of I-35. The drought is now affecting approximately 249,255 people in Oklahoma.

Static water levels recorded from the Spencer Oklahoma Mesonet station are now beginning to fall. There was essentially no recharge to the aquifer from July 2021 to May 2022. Accumulated recharge as of June 2022 is still below the curve. Recharge for the aquifer in June was targeted at Norman and Moore. Areas north of Edmond received no recharge.

La Niña conditions are favored to continue into the Northern Hemisphere summer (53 percent chance during June-August 2022), with a 40-50 percent chance of La Niña or ENSO-neutral thereafter.

B. SANDSTONE MAPPING UPDATE

The multi-year sandstone mapping project funded by the 2019 604(b) grant wrapped up in April 2022. The 2019 604(b) project in the Edmond area extended the previous 2018 604(b) work northward.

Eight cross-sections were completed. About 455 wells have been correlated in this project. Some of the cross sections go through the Nichols Hills and Edmond well fields. Sand thickness (isopach) maps were generated. The maps extend the north-trending drilling area in the Town of Jones City and City of Choctaw.

The U.S. Environmental Protection Agency has approved the 2020, 604(b) (Guthrie and Purcell Areas) Quality Assurance Project Plans. The EPA has also received the Quality Assurance Project Plan (QAPP) for the 2021 604(b) project which will focus on integrating the sandstone mapping projects into an aquifer-wide integrated map and geologic model.

C. PROPOSED 604(b) PROJECTS

Two projects are being proposed this year for the ACOG 604(b) grant program.

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

The proposed Norman Turnpike will run through a major portion of the nonurban recharge area of the Garber-Wellington aquifer. Although the route at present is mostly rural, inevitable urbanization will likely 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.

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

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.

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.

4. PROGRESS REPORT

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

5. NEW BUSINESS

None

6. ADJOURNMENT

There being no further business, the meeting adjourned at 3:33 p.m.

ATTACHMENT 3-A

SUBJECT:
DROUGHT UPDATE

DATE:
AUGUST 25, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

The drought is now in top gear as summer 2022 plays out. July gave Oklahoma the type of scorching hot weather unseen in the state since the drought summers of 2011 and 2012. August is not doing much better.

A high pressure heat dome fixated over the Midwest. The combination of hot weather, a lack of significant moisture, and relentless sunshine combined to plunge Oklahoma into flash drought. Farm ponds evaporated, soils dried out and baked, and vegetation of all types either went dormant or died. By the middle of August, the state was 100 percent in drought; 50 percent in extreme drought.

It should come as no surprise that recharge to the aquifer was zero in July and probably will be zero in August as well. This contrasts with the months of May and June where we got about 2.5 times the average for spring. More than likely, we will have to wait until October before we have any chance to see the next recharge event.

Meanwhile static water levels recorded at the Spencer Mesonet station are still in retreat from the decade high.

La Niña continues to affect us for the short term. Long term models still suggest that La Niña will last through the end of the year before turning neutral.

ACTION REQUESTED:
For information only.

ATTACHMENT 3-B

SUBJECT:

SANDSTONE MAPPING UPDATE

DATE:

AUGUST 25, 2022

FROM:

JOHN HARRINGTON

Water Resources Director

INFORMATION:

The multi-year sandstone mapping project funded by the 2020 604(b) grant has produced six cross-sections in the Guthrie area. In September, the focus will shift to the southern part of the aquifer near Purcell, where cross-sections will be generated. Net sand maps for drilling locations will be generated this coming winter.

We are still waiting on approval from the U.S. Environmental Protection Agency (EPA) for the Quality Assurance Project Plan (QAPP) for the 2021 604(b) grant.

ACTION REQUESTED:

For information only.

ATTACHMENT 3-C

SUBJECT:

PROPOSED 604(b) AND ARPA PROJECTS UPDATE

DATE:

AUGUST 25, 2022

FROM:

JOHN HARRINGTON

Water Resources Director

INFORMATION:

ACOG has applied for the State allocated American Rescue Plan Act (ARPA) funding to develop the North Canadian River Dissolved Oxygen Model. This \$1.5 million 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. We are waiting on whether ACOG will be awarded the requested funds.

ACOG has also applied for funding for two 604(b) projects. The first is titled 22604(b) 3 - 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 likely 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.

The second is titled 22604(b) 6 - Source Tracking for Bacteria - North Canadian River. 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.

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.

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. This will also be supporting the proposed North Canadian ARPA project.

ACTION REQUESTED:

For information only.

ATTACHMENT 4

SUBJECT:
PROGRESS REPORT

DATE:
AUGUST 25, 2022

FROM:
JOHN HARRINGTON
Water Resources Director

INFORMATION:

ACOG Drought Program

The drought is now in top gear as summer 2022 plays out. July gave Oklahoma the type of scorching hot weather unseen in the state since the drought summers of 2011 and 2012.

August is not doing much better. A high pressure heat dome fixated over the Midwest. The combination of hot weather, a lack of significant moisture, and relentless sunshine combined to plunge Oklahoma into flash drought. Farm ponds evaporated, soils dried out and baked, and vegetation of all types either went dormant or died. By middle August, the state was 100 percent in drought; 50 percent in extreme drought.

It should come as no surprise that recharge to the aquifer was zero in July and probably will be zero in August as well. This contrasts with the months of May and June where we got about 2.5 times the average for spring. More than likely, we will have to wait until October before we have any chance to see the next recharge event. Meanwhile static water levels recorded at the Spencer Mesonet station are still in retreat from the decade high.

La Niña continues to affect us for the short term. Long term models still suggest that La Niña will last through the end of the year before turning neutral.

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

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

As part of the 20604 604(b) grant, staff will continue and extend net sand maps created in the 18604(b) and 19604(b) projects into southern Logan County and southern Cleveland County. This effort will allow drillers to focus their efforts in areas with more sandstone, thus increasing well capacity. This project commenced in late April 2022.

The project has completed six cross-sections in the Guthrie area. In September 2022, the focus will shift and cross-sections in the Purcell area will commence. Net sand maps for both areas will be generated in January-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.

This project proposal has been approved by the U.S. Environmental Protection Agency (EPA) as part of the 21604(b) grant program. The EPA has also received the Quality Assurance Project Plan (QAPP) for the FY 2021 604(b) project.

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 likely 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 was sent to the Office of the Secretary of Energy and Environment (OSEE) and EPA in May 2022. We are waiting on approval.

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 OSEE and EPA in May 2022. We are waiting on approval.

North Canadian River Project – State ARPA Application

ACOG has applied for the State allocated American Rescue Plan Act (ARPA) funding to develop the North Canadian River Dissolved Oxygen Model. 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 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.

As in the previous Canadian River study, the participants in the study will be the municipalities which are dischargers to the North Canadian River. This includes Oklahoma City, Midwest City, Del City, Choctaw, Harrah, El Reno, Jones City, Yukon, and Shawnee. Most of these entities are members of ACOG, a substate 208 agency.

Associated agencies which will review the project are the Oklahoma Department of Environmental Quality (ODEQ) and the U.S. Environmental Protection Agency (EPA). The proposed budget will be \$1.5 million for the three-year project. We are waiting on whether ACOG will be awarded the requested funds.

ACTION REQUESTED:

For information only.