

Office of the Auditor General
Performance Audit Report

**Flint Water Service Line Replacement
Expenditures**

Department of Environment, Great Lakes, and Energy

December 2021

The auditor general shall conduct post audits of financial transactions and accounts of the state and of all branches, departments, offices, boards, commissions, agencies, authorities and institutions of the state established by this constitution or by law, and performance post audits thereof.

The auditor general may make investigations pertinent to the conduct of audits.

Article IV, Section 53 of the Michigan Constitution



OAG

Office of the Auditor General

Report Summary

*Performance Audit
Flint Water Service Line Replacement
Expenditures
Department of Environment, Great Lakes,
and Energy (EGLE)*

**Report Number:
761-3017-21**

**Released:
December 2021**

Public Act 340 of 2016 requires the Office of the Auditor General (OAG) to conduct a final audit of the City of Flint's use of the \$25 million appropriated for water service line removal by January 1, 2020. Our audit report released in October 2019 addressed the final audit requirement. Also, on March 28, 2017, a U.S. district judge approved a settlement agreement that required the State to allocate \$87 million and set aside an additional \$10 million in reserves to pay for the replacement of residential lead and galvanized water service lines in the City of Flint. The settlement agreement required the State to request the OAG to conduct annual "financial" and performance audits of EGLE's administration of the payments or reimbursements described in paragraph 23 of the agreement. This performance audit addresses these requirements and is our fourth report on the expenditures of these funds.

Audit Objective			Conclusion
Objective 1: To determine the appropriateness of EGLE's administrative process to issue payments or reimbursements for the Flint water service line replacements.			Appropriate
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
None reported.			Not applicable.

Audit Objective			Conclusion
Objective 2: To determine the appropriateness of EGLE's expenditure of the Flint water service line replacement appropriations as of July 31, 2021.			Appropriate
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
None reported.			Not applicable.

Audit Objective			Conclusion
Objective 3: To report EGLE's expenditures of the Flint water service line replacement appropriations.			Information provided
Findings Related to This Audit Objective	Material Condition	Reportable Condition	Agency Preliminary Response
None reported.		Not applicable.	
Exhibits Related to This Audit Objective			
<u>Exhibit 1</u> - Allocations Required by the Settlement Agreement <u>Exhibit 2</u> - Expenditures of Appropriations - EGLE <u>Exhibit 3</u> - Expenditures of Appropriations - Department of Treasury <u>Exhibit 4</u> - Expenditures of Appropriations - Michigan Department of Health and Human Services <u>Exhibit 5</u> - Summary of Replacements and Excavations by Phase <u>Exhibit 6</u> - Summary of Replacements and Excavations by Zip Code <u>Exhibit 7</u> - Summary of the City of Flint's Contractors			

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Doug A. Ringler, CPA, CIA
Auditor General

December 21, 2021

The Honorable Jim Stamas, Chair
Senate Appropriations Committee
State Capitol Building
Lansing, Michigan

The Honorable Thomas Albert, Chair
House Appropriations Committee
State Capitol Building
Lansing, Michigan

The Honorable Curtis Hertel, Jr., Min. Vice Chair
Senate Appropriations Committee
Connie B. Binsfeld Building
Lansing, Michigan

The Honorable Joe Tate, Min. Vice Chair
House Appropriations Committee
Anderson House Office Building
Lansing, Michigan

Dear Senators Stamas and Hertel and Representatives Albert and Tate:

This is our performance audit report on the Flint Water Service Line Replacement Expenditures, Department of Environment, Great Lakes, and Energy (EGLE). This audit was performed to meet the requirements of Public Act 340 of 2016 as well as the request for audit received in conjunction with the settlement agreement between the State and the Concerned Pastors for Social Action, et al.

Public Act 340 of 2016 requires the Office of the Auditor General (OAG) to conduct a preliminary audit of the City of Flint's use of the initial \$10 million of the \$25 million appropriated for water service line removal based on a signed grant agreement between the State and the City of Flint. Our preliminary audit, issued in June 2018, can be found at audgen.michigan.gov/wp-content/uploads/2018/06/r761301717-0005.pdf. The Act also requires the OAG to conduct a final audit of the City of Flint's use of these appropriations by January 1, 2020. Our second audit, issued in October 2019, addressed the final audit requirement and can be found at audgen.michigan.gov/wp-content/uploads/2019/10/r761301719-4488.pdf.

The settlement agreement required the State to request the OAG to conduct annual "financial" and performance audits of EGLE's administration of the payments or reimbursements described in paragraph 23 of the agreement. This performance audit addresses these requirements and is our fourth report on the expenditures of these funds.

We appreciate the courtesy and cooperation extended to us during this audit.


Sincerely,

Doug Ringler
Auditor General

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AUDIT OBJECTIVES, CONCLUSIONS, AND FINDINGS

APPROPRIATENESS OF ADMINISTRATIVE PROCESS FOR FLINT WATER SERVICE LINE REPLACEMENTS

BACKGROUND

The Flint Action and Sustainability Team (FAST), consisting of members of the Michigan National Guard, coordinated activities among the City of Flint, State and federal departments and agencies, and other stakeholders for the excavation of water service lines. FAST, whose mission ended on January 5, 2018, was replaced with the following oversight contracts:

- Effective October 25, 2017, the Office of Internal Audit Services, State Budget Office, entered into a contract with Deloitte to assist in providing necessary payment and compliance oversight as well as the design and construction monitoring for the funds appropriated for the Flint water emergency. The contract end date is December 31, 2021.
- Effective December 20, 2017, the City of Flint entered into a 12-month contract with AECOM to provide program management services related to Phase Five water service line replacement activities.
- Effective March 11, 2019, the City of Flint entered into a contract with Rowe Professional Services Company to provide program management services related to Phase Six water service line replacement activities.

AUDIT OBJECTIVE

To determine the appropriateness of the Department of Environment, Great Lakes, and Energy's* (EGLE's) administrative process to issue payments or reimbursements for the Flint water service line replacements.

CONCLUSION

Appropriate.

FACTORS IMPACTING CONCLUSION

- We did not identify any internal control* weaknesses in EGLE's administrative process to issue payments or reimbursements for the Flint water service line replacements.

* See glossary at end of report for definition.

APPROPRIATENESS OF EXPENDITURE OF FLINT WATER SERVICE LINE REPLACEMENT APPROPRIATIONS AS OF JULY 31, 2021

AUDIT OBJECTIVE	To determine the appropriateness of EGLE's expenditure of the Flint water service line replacement appropriations as of July 31, 2021.
CONCLUSION	Appropriate.
FACTORS IMPACTING CONCLUSION	<ul style="list-style-type: none">• We did not identify any significant errors in our review of the supporting documentation for the audited transactions.

EXPENDITURES OF FLINT WATER SERVICE LINE REPLACEMENT APPROPRIATIONS

BACKGROUND

Public Act 340 of 2016 requires the Office of the Auditor General (OAG) to conduct a preliminary audit of the City of Flint's use of the initial \$10 million of the \$25 million appropriated for water service line removal based on a signed grant agreement between the State and the City of Flint. Our preliminary audit, issued in June 2018, can be found at audgen.michigan.gov/wp-content/uploads/2018/06/r761301717-0005.pdf. The Act also requires the OAG to conduct a final audit of the City of Flint's use of these funds by January 1, 2020. Our second audit, issued in October 2019, addressed the final audit requirement and can be found at audgen.michigan.gov/wp-content/uploads/2019/10/r761301719-4488.pdf.

In addition, a settlement agreement* between the State and the Concerned Pastors for Social Action, et al., required the State to request the OAG conduct annual "financial" and performance audits* of EGLE's administration of the payments or reimbursements described in paragraph 23 of the agreement.

Due to the ongoing nature of the audit, not all reported expenditures were audited by the end of our fieldwork. Reported expenditures not subject to audit during the current audit will be considered for audit during our next audit of the Flint Water Service Line Replacement Expenditures.

AUDIT OBJECTIVE

To report EGLE's expenditures of the Flint water service line replacement appropriations.

CONCLUSION

Information provided.

FACTORS IMPACTING CONCLUSION

- We reported EGLE's expenditures of the appropriations as of July 31, 2021.

* See glossary at end of report for definition.

SUPPLEMENTAL INFORMATION, INCLUDING OBSERVATIONS

Exhibit 1

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES

Department of Environment, Great Lakes, and Energy (EGLE)

Allocations Required by the Settlement Agreement

The *Concerned Pastors for Social Action, et al. v. Khouri, et al.*, settlement agreement required the State to allocate \$87 million and set aside an additional \$10 million in reserves to pay for the replacement of lead and galvanized water service lines in the City of Flint. Of the \$87 million, \$20 million will be the State matching funds appropriated by the State of Michigan related to the federal funding, Water Infrastructure Improvements for the Nation (WIIN) Act*. No more than \$20 million will be WIIN monies. Of the \$87 million, \$47 million will be funds allocated by the State of Michigan from sources other than the WIIN monies and the State matching funds.

	Settlement Requirement for Service Line Replacement	Allocation	Expenditures
State matching funds for WIIN:			
Public Act 340 of 2016 Sections 303(1) and 303(3)	\$20,000,000	\$20,000,000	\$20,000,000
WIIN:			
Public Act 33 of 2017 Section 301	20,000,000	20,000,000	20,000,000
Other than WIIN and State matching funds¹	47,000,000	47,399,659 ²	44,955,024
Subtotal	\$87,000,000	\$87,399,659	\$84,955,024
Reserve:			
Public Act 33 of 2017 Section 301	10,000,000	10,000,000	3,575,409
Total	\$97,000,000	\$97,399,659	\$88,530,433

¹ **Funding Source:**

	Allocation	Expenditures
Public Act 207 of 2018 Section 602	\$20,000,000	\$20,000,000
Public Act 107 of 2017 Legislative Transfer 2018-3	9,000,000	9,000,000
Public Act 207 of 2018 Legislative Transfer 2019-1	5,613,000	5,612,900
Children's Health Insurance Program (CHIP)	10,319,659	10,319,659
MDHHS Drinking Water Declaration of Emergency Funding	2,467,000	22,465
Total	\$47,399,659 ²	\$44,955,024

² The State has allocated funding in excess of the court-mandated requirements.

Source: The OAG prepared this exhibit based on the specified Public Acts and information obtained from the Michigan Administrative Information Network* (MAIN) and the Statewide Integrated Governmental Management Applications* (SIGMA).

* See glossary at end of report for definition.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
 Department of Environment, Great Lakes, and Energy (EGLE)

Expenditures of Appropriations - EGLE
As of July 31, 2021

Public Act 340 of 2016

Appropriated: \$25,000,000

Authorized Uses: Sections 303(1) and 303(3)

Section 303(1): EGLE shall grant \$25 million to a city in which a declaration of emergency due to drinking water contamination was issued. The funds shall be provided for service line removal based on a signed grant agreement between the State and the city.

Section 303(3): A total of \$5 million, of the \$25 million, shall be paid to the city upon execution of the grant agreement. Additional funding will be provided on a reimbursement basis.

Expenditures By Authorized Use Category

	Funding Allocation	Total Expenditures	Expenditures Subject to Review	
			Prior Audits	Current Audit
Water Service Line Replacement - Grant	\$20,000,000	\$20,000,000	\$20,000,000	\$0
Water Service Line Replacement - Advance	5,000,000	5,000,000	5,000,000	0
Total	\$25,000,000	\$25,000,000	\$25,000,000	\$0

This exhibit continued on next page.

Public Act 33 of 2017

Appropriated: \$100,000,000

Authorized Uses: Section 301

EGLE shall allocate \$100 million in federal funding, Water Infrastructure Improvements for the Nation (WIIN) Act, for the drinking water declaration of emergency. These funds shall be used for water treatment plant improvements, water service line replacement, distribution system upgrades, corrosion control, and other infrastructure needs.

In February 2017, the Department of Environmental Quality conditionally awarded the City of Flint a \$120 million grant with \$100 million authorized under the WIIN Act and the \$20 million required State match. Initially, funds were made available for three approved projects including Water Service Line Replacement, the Northwest Transmission Main Project, and the Local Assistance Project:

- Water Service Line Replacement
This project will remove both lead and galvanized steel service lines from the street to the home meter, diminishing the risk of potential drinking water lead contamination from service lines. Replacement is expected to be completed in December 2022.
- Northwest Transmission Main Project
This project provides a replacement for the transmission main serving the northern and the western portion of the City of Flint distribution system and ending north of the Flint River. The project will also provide for monitoring of the water quality at several locations throughout the water distribution system.
- Local Assistance Project
This project began in 2017 utilizing State and federal funding. EGLE requested \$1.5 million, or 1.5% of the federal supplemental grant for the Local Assistance Set-Aside, to provide technical assistance as part of the State's capacity development program to support operational improvement of the City of Flint's distribution system, including corrosion control studies and asset management program development. Work was completed in February 2021.

After the completion of a number of studies, EGLE approved the City of Flint's Final Project plan in August 2018, which included six additional projects:

- Chemical Feed Building Project
This project will establish a permanent chemical feed building at the Water Treatment Plant site to replace the existing, temporary treatment facilities. The new building will treat the water with chlorine to maintain chlorine residuals throughout the distribution system and sodium hydroxide and/or phosphoric acid for corrosion control. The current treatment facilities are not sufficient for long-term service. Work is expected to be completed in February 2022.
- Dort and Cedar Project
This project modifies the pump station capabilities of the Dort and Cedar Street reservoirs to improve reliability, water storage, mixing, and distribution. This project will also provide the ability to maintain water flows and pressure throughout the system and ensure an adequate quantity of water during peak demand periods. Work on the Dort reservoir has been completed. The Dort Pump Station is expected to be completed in December 2022. The Cedar Street Pump Station is expected to be completed in December 2024.

This exhibit continued on next page.

- Meter Replacement Project
This project replaces existing meters for the entire City of Flint with an Advanced Meter Analytics System. This meter replacement work will ensure an appropriate rate is charged to customers, thereby creating a suitable revenue stream to fund future maintenance and replacement needs of the system. Work is expected to be completed in June 2022.
- Secondary Water Source Project
This project constructs a 36-inch water main (5.5 miles) connecting Genesee County and the City of Flint water treatment plant to provide a backup water source. Work is expected to be completed in December 2021.
- Water Main Replacement Project
This project replaces water mains throughout the City of Flint's water system that are at a high risk of failure and/or are critical to overall performance based on Arcadis Asset Management Plan. Some water mains will be replaced in conjunction with service line replacement projects, while additional water mains will be replaced as roadway funding is received from other sources to coordinate work efforts. Water main replacements began in July 2018. The Kearsley Street, Dupont, and Longway water mains are complete, though billings are outstanding. The Atherton water main was completed in November 2021, and the Court Street water main is expected to be completed in July 2022.
- Water Quality Monitoring Project
This project installs an automated system to monitor chlorine residuals, turbidity, pH level, conductivity, pressure, phosphate, and bacteriological indicators to assist with water quality compliance and provide real time data. The system will also monitor the water supply to ensure a safe supply of drinking water and allow operators to respond faster to water quality changes in the distribution system. This project went through the planning phase in December 2017 and was approved in August 2018. This project will be completed in April 2022.

This exhibit continued on next page.

Expenditures By Authorized Use Category

	Funding Allocation	Total Expenditures	Expenditures Subject to Review	
			Prior Audits	Current Audit
Water Service Line Replacement ²	\$ 20,000,000	\$20,000,000	\$16,664,167	\$ 3,335,833
Water Service Line Replacement Contingency ³	10,000,000	3,575,409	0	3,575,409
Chemical Feed Building Project ⁴	6,020,917 ¹	3,033,396	497,536	2,535,860
Dort and Cedar Project:				
Dort Reservoir (new) ⁵	3,011,838 ¹	2,470,956	251,350	2,219,606
Dort Pump Station (new) ⁶	3,924,867 ¹	483,073	119,341	363,732
Cedar Pump Station (new)	3,649,397 ¹	0	0	0
Local Assistance Project ⁷	2,593,671 ¹	2,593,671	2,059,449	534,222
Meter Replacement Project ⁸	11,200,993 ¹	7,967,216	2,746,617	5,220,599
Northwest Transmission Main Project ⁹	5,290,177 ¹	423,595	374,054	49,541
Secondary Water Source Project ¹⁰	17,272,686 ¹	12,182,272	671,989	11,510,283
Water Main Replacement Project:				
Kearsley Street Water Main (new) ¹¹	1,247,780 ¹	1,081,002	1,059,850	21,152
Court Street Water Main (new) ¹²	3,936,598 ¹	2,326,473	25,596	2,300,877
Dupont/Atherton Water Main (new) ¹³	11,236,177 ¹	6,982,430	0	6,982,430
Longway Water Main (new)	95,300 ¹	0	0	0
Water Quality Monitoring Project ¹⁴	519,599 ¹	501,672	127,272	374,400
Total	\$100,000,000	\$63,621,165	\$24,597,221	\$39,023,944

¹ EGLE reallocated funding between the November 2020 audit and the current audit. The total amount appropriated did not change.

² Water Service Line Replacement:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$3,335,833 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations*

None

³ Water Service Line Replacement Contingency:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$3,575,409 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

*See glossary at end of report for definition.

This exhibit continued on next page.

⁴ Chemical Feed Building Project:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$2,535,860 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

⁵ Dort Reservoir:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$2,219,606 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

⁶ Dort Pump Station:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$363,732 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

⁷ Local Assistance Project:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$534,222 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

⁸ Meter Replacement Project:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$5,220,599 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

⁹ Northwest Transmission Main Project:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$49,541 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

This exhibit continued on next page.

¹⁰ Secondary Water Source Project:

Current Audit Methodology and Results:

We reviewed all expenditures totaling \$11,510,283 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

¹¹ Kearsley Street Water Main:

Current Audit Methodology and Results:

We reviewed all expenditures totaling \$21,152 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

¹² Court Street Water Main:

Current Audit Methodology and Results:

We reviewed all expenditures totaling \$2,300,877 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

¹³ Dupont/Atherton Street Water Main:

Current Audit Methodology and Results:

We reviewed all expenditures totaling \$6,982,430 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

¹⁴ Water Quality Monitoring Project:

Current Audit Methodology and Results

We reviewed all expenditures totaling \$374,400 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

This exhibit continued on next page.

Public Act 207 of 2018

Appropriated: \$20,000,000

Authorized Uses: Section 602

EGLE is authorized to pay \$20 million for service line replacements related to the drinking water declaration of emergency.

Expenditures By Authorized Use Category

	Funding Allocation	Total Expenditures	Expenditures Subject to Review	
			Prior Audits	Current Audit
Water Service Line Replacement	\$20,000,000	\$20,000,000	\$20,000,000	\$0
Total	\$20,000,000	\$20,000,000	\$20,000,000	\$0

Source: The OAG prepared this exhibit based on the specified Public Acts and information obtained from MAIN, SIGMA, WIIN bank statements, and EGLE.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
 Department of Environment, Great Lakes, and Energy (EGLE)

Expenditures of Appropriations - Department of Treasury (Treasury)
As of July 31, 2021

Public Act 107 of 2017

Appropriated: \$9,000,000*

Authorized Uses: Legislative Transfer 2018-3

A \$9 million transfer from the Drinking Water Declaration of Emergency Reserve Fund (Department of Technology, Management, and Budget [DTMB]) for the cost of service line replacements.

Expenditures By Authorized Use Category

	<u>Funding</u>	<u>Total</u>	<u>Expenditures Subject to Review</u>	
	<u>Allocation</u>	<u>Expenditures</u>	<u>Prior Audits</u>	<u>Current Audit</u>
Water Service Line Replacement	<u>\$9,000,000</u>	<u>\$9,000,000</u>	<u>\$9,000,000</u>	<u>\$0</u>
Total	<u><u>\$9,000,000</u></u>	<u><u>\$9,000,000</u></u>	<u><u>\$9,000,000</u></u>	<u><u>\$0</u></u>

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Public Act 207 of 2018

Appropriated: \$5,613,000*

Authorized Uses: Legislative Transfer 2019-1

A \$5.6 million transfer from the Drinking Water Declaration of Emergency Reserve Fund (DTMB).

Expenditures By Authorized Use Category

	Funding	Total	Expenditures Subject to Review	
	Allocation	Expenditures	Prior Audits	Current Audit
Water Service Line Replacement	\$5,613,000	\$5,612,900	\$221,924	\$5,390,976
Total	\$5,613,000	\$5,612,900	\$221,924	\$5,390,976

Water Service Line Replacement:

Current Audit Methodology and Results:

We reviewed expenditures totaling \$5,390,976 and determined they were appropriately supported and approved.

Transfer request 2019-1, approved by the Legislature, moved \$5.6 million in State restricted contingency funds to the Drinking Water Declaration of Emergency Reserve Fund. The request's accompanying description indicated "...\$380,000 will be used for Food Bank contractual costs for provision of water filters and related fixtures to Flint residents." However, all funds were spent on service line replacement, which aligns with the overall purpose of the appropriation. These expenditures were appropriately supported and approved.

Observations

None

* EGLE was responsible for the administrative process of ensuring the appropriateness of the reimbursements to the City of Flint for water service line replacements utilizing the funding appropriated to Treasury.

Source: The OAG prepared this exhibit based on the specified Public Act and information obtained from MAIN, SIGMA, and EGLE.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
 Department of Environment, Great Lakes, and Energy (EGLE)

Expenditures of Appropriations - Michigan Department of Health and Human Services (MDHHS)
As of July 31, 2021

Public Act 107 of 2017

Appropriated: \$2,425,000*

Authorized Uses: Legislative Transfer 2018-1

A \$7.5 million transfer from the Drinking Water Declaration of Emergency Reserve Fund (DTMB) for City of Flint water emergency-related services. The State Budget Office repurposed \$2.425 million for Flint Lead Service Line Replacements.

Expenditures By Authorized Use Category

	Funding Allocation	Total Expenditures	Expenditures Subject to Review	
			Prior Audits	Current Audit
Water Service Line Replacement	\$2,425,000	\$22,465	\$0	\$22,465
Total	\$2,425,000	\$22,465	\$0	\$22,465

Water Service Line Replacement:

Current Audit Methodology and Results:

We reviewed all expenditures totaling \$22,465 and determined they were appropriately supported, approved, and charged to the appropriation. We did not identify any errors.

Observations

None

* EGLE was responsible for the administrative process of ensuring the appropriateness of the reimbursements to the City of Flint for water service line replacements utilizing the funding appropriated to MDHHS.

Source: The OAG prepared this exhibit based on the specified Public Act and information obtained from MAIN, SIGMA, and EGLE.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
 Department of Environment, Great Lakes, and Energy (EGLE)

Summary of Replacements and Excavations by Phase
As of July 31, 2021

The settlement agreement requires that the City of Flint shall have conducted the following excavations:

- A minimum of 6,000 households by January 1, 2018.
- A minimum of 12,000 households by January 1, 2019.
- A minimum of 18,000 households by January 1, 2020.

As of July 31, 2019, the City of Flint and EGLE have satisfied the January 1, 2018, January 1, 2019, and January 1, 2020 excavation requirements.

<u>Phase</u>	<u>Water Service Lines Replaced</u>	<u>Excavations Completed - Copper to Copper¹</u>	<u>Hydro-Excavations Completed - Copper to Copper²</u>	<u>Hydro-Excavations (Full Excavation)³</u>	<u>Total Excavations Completed</u>
One	40 ⁴	3	0	0	43
Two	225	40	0	0	265
Three	596	215	0	0	811
Four	5,538	1,573	2,246	4,022	13,379
Five	1,923	9,331	0	0	11,254
Six	1,503	3,606	0	0	5,109
Total	9,825	14,768	2,246	4,022	30,861 ^{5,6}

¹ Full excavations completed that identified a copper pipe composition resulting in no additional excavations or water service line replacements.

² Hydro-excavations completed that identified a copper pipe composition resulting in no additional excavations or water service line replacements. Hydro-excavation activities ended in June 2018.

³ Hydro-excavations that did not identify a copper pipe composition require additional excavations or water service line replacements. Completed hydro-excavations of 3,518 are included in the columns for water service lines replaced or excavations completed – copper to copper. At the time of our review, 504 of the original hydro-excavations still required additional excavations or water service line replacements. Hydro-excavation activities ended in June 2018.

⁴ The U.S. Environmental Protection Agency (EPA) funded water service line replacements for 6 homes.

⁵ This exhibit includes only activity that has been reimbursed by EGLE to the City of Flint as of July 31, 2021. All subsequent activity will be reviewed in our next Flint Water Service Line Replacement Expenditures audit.

⁶ Review of archived invoices identified additional replacements, excavations, and hydro-excavations and records that required reclassification.

Source: The OAG prepared this exhibit based on financial status reports provided by the City of Flint and contractor invoices provided by EGLE.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
 Department of Environment, Great Lakes, and Energy (EGLE)

Summary of Replacements and Excavations by Zip Code¹
As of July 31, 2021

Zip Code	Active Residential Water Accounts ²	Water Service Lines Replaced	Excavations Completed - Copper to Copper ³	Hydro-Excavations Completed - Copper to Copper ⁴	Estimated Active Water Accounts Remaining ⁵
48502	205	6	4	0	195
48503	7,386	3,233	3,145	511	497
48504	6,159	2,136	3,533	231	259
48505	4,380	1,520	2,623	323	0 ⁶
48506	4,564	1,429	2,484	660	0 ⁶
48507	4,905	1,425	2,542	521	417
48509	1	0	0	0	1
48532	607	76	437	0	94
Total	28,207	9,825	14,768	2,246	

¹ This exhibit does not include hydro-excavations resulting in an unknown, lead, or galvanized pipe composition as shown in Exhibit 5. At the time of our review, 504 hydro-excavations were not complete; however, they are included in the Active Water Accounts Remaining column because they will require a full excavation to determine pipe composition.

² Active Residential Water Accounts include only activity of residential accounts as of November 2, 2021. Prior reports also included nonresidential accounts. If a resident activates a new water account, the city will make reasonable efforts to obtain permission to replace the service line. Accounts may become inactive after excavation or replacement.

³ Full excavations completed that identified a copper pipe composition resulting in no additional excavations or water service line replacements.

⁴ Hydro-excavations completed that identified a copper pipe composition resulting in no additional excavations or water service line replacements. Hydro-excavations activities ended in June 2018.

⁵ Estimated active water accounts remaining will require excavations to determine pipe composition and changes as water accounts fluctuate between active and inactive.

⁶ The total number of water lines replaced or excavated exceeds the number of active accounts because an account may become inactive after work is completed.

Source: The OAG prepared this exhibit based on a list of all active water accounts as of November 2, 2021 obtained from the City of Flint Treasurer's Office, financial status reports provided by the City of Flint, and contractor invoices provided by EGLE.

FLINT WATER SERVICE LINE REPLACEMENT EXPENDITURES
Department of Environment, Great Lakes, and Energy (EGLE)

Summary of the City of Flint's Contractors
As of July 31, 2021

Table 1: By Phase

Phase Beginning Date:		Scope of Work Key:	
Phase I	March 2016	A	Project Management
Phase II-III	August 2016	B	Excavations
Phase IV	May 2017	C	Water Service Line Replacements
Phase V	May 2018	D	Restoration Services
Phase VI	April 2019	E	Miscellaneous

Phase	Contractor	Contract Amount	Scope of Work (See Key)
Phase I:	Johnson & Wood Inc.	\$ 486,400	B, C
	Rowe Professional Services Co.	422,460	A
Phase II:	Goyette Mechanical Co.	619,500	B, C, D
	Johnson & Wood Inc.	320,000	B, C
	National Guard	No Contract ¹	A
	WT Stevens Construction	320,000	B, C
Phase III:	City of Flint	No Contract ²	D
	Goyette Mechanical Co.	1,663,300	B, C, D
	National Guard	No Contract ¹	A
	WT Stevens Construction	2,306,384	B, C
Phase IV:	City of Flint	No Contract ²	D
	Dependable Sewer Cleaners	550,000 ³	B
	Goyette Mechanical Co.	10,738,500	B, C, D
	Lang Constructors Inc.	1,890,675	B, C
	Lewis & Munday	No Contract ⁴	E
	MI Fair Contracting Center	3,500 ⁴	E
	ML Chartier Excavating Inc.	700,000 ³	B
	National Guard	No Contract ¹	A
	Waldorf and Sons Inc.	2,335,950	B, C, D
	WT Stevens Construction	10,980,000	B, C, D
Zito Construction Co.	6,794,250	D	
Phase V:	AECOM	6,156,148	A
	City of Flint	No Contract ²	D
	Goyette Mechanical Co.	23,459,276	B, C, D
	Lang Constructors Inc.	4,855,000	B, C
	Martha Brown Custom Builders LLC.	2,034,618 ³	B
	MI Fair Contracting Center	1,100 ⁴	E
	Super Construction LLC.	2,482,850	B, C
	Waldorf and Sons Inc.	2,648,020	B, C
WT Stevens Construction	11,048,000	B, C	
Phase VI:	City of Flint	No Contract ²	A
	Commonwealth Heritage Group	74,000 ⁴	E
	Goyette Mechanical Co.	4,099,205	D
	Lang Constructors Inc.	8,721,908	B, C
	Rowe Professional Services Co.	2,638,735	A
WT Stevens Construction	5,624,600	B, C	
Total		<u>\$113,974,379</u>	

This exhibit continued on next page.

- ¹ The National Guard provided project management oversight of Phases II-IV of the FAST Start Program. However, there was no contract and the National Guard did not receive reimbursement specific to this project from the City of Flint or the State of Michigan.
- ² The City of Flint performed various restoration activities throughout Phases III-V of the FAST Start Program. During Phase VI, the City of Flint provided project management oversight of restoration activities. The City of Flint was reimbursed approximately \$1.7 million by the State for these services; however, there was no contract.
- ³ Dependable Sewer Cleaners, ML Chartier Excavating Inc., and Martha Brown Custom Builders LLC. performed hydro-excavations and referred any necessary replacements to other contractors.
- ⁴ Miscellaneous Contractors:

Lewis & Munday: The City of Flint's financial advisor during Phase IV of the FAST Start Program. Lewis & Mundy was reimbursed \$49,148 for these services; however, there was no contract.

Michigan Fair Contracting Center: Contracted during Phases IV and V to ensure compliance with the Davis-Bacon Act federal wage requirements.

Commonwealth Heritage Group: During Phase V, the State Historic Preservation Office (SHPO) determined certain excavations could potentially impact Native American artifacts. As a result, a federally qualified archeologist was required to observe excavations at the addresses designated by SHPO. Commonwealth was contracted during Phase VI to provide the archeologist and to conduct all SHPO mandated testing.

Table 2: By Contractor

<u>Contractor</u>	<u>Total Contract Amount</u>	<u>Total Expenditures</u>
AECOM	\$ 6,156,148	\$ 5,162,477
City of Flint	No Contract	1,402,398
Commonwealth Heritage Group	74,000	62,686
Dependable Sewer Cleaners	550,000	549,585
Goyette Mechanical Co.	40,579,781	31,267,134
Johnson & Wood Inc.	806,400	773,099
Lang Constructors Inc.	15,467,583	12,773,503
Lewis & Munday	No Contract	49,148
Martha Brown Custom Builders LLC.	2,034,618	1,191,533
MI Fair Contracting Center	4,600	3,500
ML Chartier Excavating Inc.	700,000	700,000
National Guard	No Contract	N/A ¹
Rowe Professional Services Co.	3,061,195	1,977,521
Super Construction LLC.	2,482,850	2,472,850
Waldorf and Sons Inc.	4,983,970	4,547,230
WT Stevens Construction	30,278,984	28,938,157
Zito Construction Co.	6,794,250	3,408,790
Total	\$ 113,974,379	\$ 95,279,611

Source: The OAG prepared this exhibit based on contracts as of July 31, 2021 obtained from the City of Flint and contractor invoices provided by EGLE.

DESCRIPTION

On January 5, 2016, former Governor Rick Snyder declared a state of emergency for Genesee County (referred to as the Flint declaration of emergency) due to the ongoing health and safety issues caused by elevated lead levels in the City of Flint's drinking water. The state of emergency expired August 14, 2016.

On March 28, 2017, a U.S. district judge approved a settlement agreement that required the State to allocate \$87 million and set aside an additional \$10 million in reserves to pay for the replacement of residential lead and galvanized water service lines in the City of Flint. In accordance with the settlement agreement, 18,000 residential service lines must be excavated by January 1, 2020. As of July 31, 2021, a total of 30,861 excavations were completed (see Exhibit 5) and an estimated 1,463 residential addresses still required pipe composition verification (see Exhibit 6).

The six-phase, three-year program, referred to as the FAST Start Program, planned to excavate 6,000 residential water service lines per year for a total of 18,000 lines excavated by January 1, 2020. The initial team consisted of members of the Michigan National Guard and was established to coordinate the FAST Start Program activities among the City of Flint, State and federal departments and agencies, and other stakeholders.

Phase One of the FAST Start Program began in March 2016 and targeted high-risk households in Flint for lead water service line removal and replacement. High-risk households include those with children under age 6, children with elevated blood lead levels, pregnant women, senior citizens, residential day care facilities, people with compromised immune systems, and households where water tests indicate high levels of lead at the tap. Phase One was primarily funded by Public Act 3 of 2016 expenditures that were subject to review in our Flint Emergency Expenditures audits issued in July 2016 (000-2016-16) and January 2017 (000-2016-17).

Phases Two and Three of the FAST Start Program began in August 2016 and continued to focus on high-risk households. Phases Two and Three were funded with a \$5 million advance appropriated in Public Act 340 of 2016. Phase Three introduced hydro-excavation, a method of digging utilizing pressurized water and a vacuum system to quickly and safely expose pipe materials currently underground. Hydro-excavations provided a more efficient method to verify the underground pipe composition without having to complete a full excavation.

Phase Four began in May 2017, focusing on 10 zones within the City of Flint that were identified with the highest

concentrations of lead-tainted pipes (see Exhibit 5). Phase Four was funded with \$20 million from Public Act 340 of 2016 and \$20 million from Public Act 33 of 2017.

Phase Five began in May 2018, focusing on 10 zones within the City of Flint that were selected based on the results of Phase Four activity. Phase Five continued with hydro-excavations, water service line replacements, and site restorations activities; however, the City of Flint ended hydro-excavation activities in June 2018. Phase Five was funded with \$9 million from Public Act 107 of 2017 and \$20 million from Public Act 207 of 2018 and will be completed with funds from Legislative Transfers 2018-1 and 2019-1.

Phase Six began in April 2019 and is intended to be the final phase of the excavation, water service line replacement, and site-restoration activities. Phase Six first focused on the 5,200 addresses identified by the Amendment to the Settlement Agreement, signed in March 2019, and then moved on to the remaining households in all 10 zones within the City of Flint. Phase Six was funded from Public Act 33 of 2017.

Public Act 340 of 2016 requires the OAG to conduct a preliminary audit of the City of Flint's use of the initial \$10 million of the \$25 million appropriated for water service line removal based on a signed grant agreement between the State and the City of Flint. Our preliminary audit, issued in June 2018, can be found at audgen.michigan.gov/wp-content/uploads/2018/06/r761301717-0005.pdf. The Act also requires the OAG to conduct a final audit of the City of Flint's use of these funds by January 1, 2020. Our second audit, issued in October 2019, addressed the final audit requirement and can be found at audgen.michigan.gov/wp-content/uploads/2019/10/r761301719-4488.pdf. The settlement agreement required the State to request the OAG to conduct annual "financial" and performance audits of EGLE's administration of the payments or reimbursements described in paragraph 23 of the agreement. This performance audit addresses these requirements and is our fourth report on the expenditures of these funds.

AUDIT SCOPE, METHODOLOGY, AND OTHER INFORMATION

AUDIT SCOPE

To determine if EGLE's administrative process to issue payments or reimbursements for the Flint water service line replacements was appropriate and if the expenditures charged to the Flint water service line replacement appropriations were appropriate and to report those expenditures. Our audit was limited to expenditures reported by July 31, 2021 and funded by Public Act 340 of 2016, Public Acts 33 and 107 of 2017, and Public Act 207 of 2018.

Due to the ongoing nature of the audit, not all reported expenditures were audited by the end of our fieldwork. Reported expenditures not subject to audit during the current audit will be considered for audit during our next audit of the Flint Water Service Line Replacement Expenditures, unless otherwise noted. We conducted this performance audit in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

PERIOD

Our audit procedures, which included audit planning, audit fieldwork, report preparation, and quality assurance, generally covered August 1, 2020 through July 31, 2021.

METHODOLOGY

In our initial audit, we conducted a preliminary survey to gain an understanding of the Flint water service line replacement process and to establish our audit objectives, scope, and methodology. Because this audit is a continuation of the first audit, we utilized the same objectives and scope. During this audit, we:

- Continued to meet with various City of Flint management and staff to enhance our understanding of Flint's administrative process to submit water service line replacement invoices to EGLE for expenditure reimbursement.
- Reviewed the new contract agreements to enhance our understanding of the oversight process for the water service line replacement activities.

OBJECTIVE 1

To determine the appropriateness of EGLE's administrative process to issue payments or reimbursements for the Flint water service line replacements.

To accomplish this objective, we:

- Continued to meet with EGLE management and staff to enhance our understanding of EGLE's administrative process to issue payments or reimbursements for the Flint water service line replacements.
- Continued to evaluate EGLE's administrative process to ensure payments or reimbursements issued for the Flint water service line replacement activities were appropriate.
- Tested EGLE's administrative process for consistency in ensuring payments or reimbursements issued for the Flint water service line replacement activities were appropriate.

OBJECTIVE 2

To determine the appropriateness of EGLE's expenditure of the Flint water service line replacement appropriations as of July 31, 2021.

To accomplish this objective, we:

- Reviewed source documentation supporting expenditures to ensure EGLE properly reimbursed the City of Flint for excavations, water service line replacements, restoration services, and other projects.
- Validated the prices charged on the contractor invoices to the prices listed in the contract between the contractors and the City of Flint.

OBJECTIVE 3

To report EGLE's expenditures of the Flint water service line replacement appropriations.

To accomplish this objective, we:

- Updated the account coding used by EGLE for expenditures of appropriations.
- Extracted the expenditures charged to the appropriations from MAIN and SIGMA.
- Reconciled expenditure totals to contractor invoices and City of Flint financial status reports.

CONCLUSIONS

We base our conclusions on our audit efforts and any resulting material conditions*, reportable conditions*, or observations.

* See glossary at end of report for definition.

**AGENCY
RESPONSES**

Not applicable.

**SUPPLEMENTAL
INFORMATION**

Our audit report includes supplemental information presented as Exhibits 1 through 7.

Occasionally, information (such as amounts appropriated, funding allocations, total expenditures, or expenditures subject to review) may change between reports. In most instances, this is a result of agency coding changes, expenditure transfers, or errors identified during our review. Exhibits are adjusted as we become aware of these changes.

GLOSSARY OF ABBREVIATIONS AND TERMS

Department of Environment, Great Lakes, and Energy (EGLE)	Formerly known as the Department of Environmental Quality (DEQ). Executive Order No. 2019-6 renamed DEQ as EGLE effective April 22, 2019.
DTMB	Department of Technology, Management, and Budget.
FAST	Flint Action and Sustainability Team.
internal control	A process, effected by those charged with governance, management, and other personnel, designed to provide reasonable assurance about the achievement of the entity's objectives with regard to the reliability of financial reporting, effectiveness and efficiency of operations, and compliance with applicable laws and regulations.
material condition	A matter that, in the auditor's judgment, is more severe than a reportable condition and could impair the ability of management to operate a program in an effective and efficient manner and/or could adversely affect the judgment of an interested person concerning the effectiveness and efficiency of the program. Our assessment of materiality is in relation to the respective audit objective.
MDHHS	Michigan Department of Health and Human Services.
Michigan Administrative Information Network (MAIN)	The State's automated administrative management system that supported accounting, purchasing, and other financial management activities through fiscal year 2017.
OAG	Office of the Auditor General.
observation	A commentary highlighting certain details or events that may be of interest to users of the report. An observation may not include all of the attributes (condition, effect, criteria, cause, and recommendation) that are presented in an audit finding.
performance audit	An audit that provides findings or conclusions based on an evaluation of sufficient, appropriate evidence against criteria. Performance audits provide objective analysis to assist management and those charged with governance and oversight in using the information to improve program performance and operations, reduce costs, facilitate decision-making by parties with

responsibility to oversee or initiate corrective action, and contribute to public accountability.

reportable condition

A matter that, in the auditor's judgment, is less severe than a material condition and falls within any of the following categories: an opportunity for improvement within the context of the audit objectives; a deficiency in internal control that is significant within the context of the audit objectives; all instances of fraud; illegal acts unless they are inconsequential within the context of the audit objectives; significant violations of provisions of contracts or grant agreements; and significant abuse that has occurred or is likely to have occurred.

settlement agreement

The settlement agreement between the State and the Concerned Pastors for Social Action, et al., requiring the State to make payments of at least \$87 million through January 1, 2020 for water service line replacement. The agreement included a provision for the State to request the Auditor General to conduct annual "financial" and performance audits of EGLE's administration of the payments or reimbursements for water service line replacement. The Auditor General agreed to the audit request on April 17, 2017.

SHPO

State Historic Preservation Office.

Statewide Integrated
Governmental
Management Applications
(SIGMA)

The State's enterprise resource planning business process and software implementation that support budgeting, accounting, purchasing, human resource management, and other financial management activities.

Water Infrastructure
Improvements for the
Nation (WIIN) Act

A 2016 federal act that addresses, supports, and improves America's drinking water infrastructure. Included in the WIIN Act are three new drinking water grants that promote public health and the protection of the environment.



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