

## **MONROE COUNTY STORMWATER MANAGEMENT BOARD**

Wednesday April 10, 2024, at 3:00 PM

County Courthouse Building, 3<sup>rd</sup> Floor – Nat U Hill Meeting Room

Hybrid Meeting with Virtual Attendance via Teams

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### **AGENDA**

1. Call to Order
2. Public Input for Items not on the Agenda
3. Approval of Minutes for December, 2023 +\*
4. Stormwater Expenditure Reports for December 2023, and January, February, and March 2024 +
5. Business
  - a. MOU with Monroe County Soil & Water Conservation District (Stormwater Partnership Grant Program 2024) +\*
  - b. MOU with Lake Monroe Water Fund (Water Monitoring 2024) +\*
  - c. Agreement with Shrewsberry for Baby Creek LOMR and 401/404 Permitting +\*
  - d. Request for On-Call Professional Services Agreement with Hydrogeology, Inc. +
6. Staff Reports
  - a. Martha Miller, Monroe County Soil and Water Conservation District
  - b. Kelsey Thetonia, MS4 Coordinator
    - i. Hydraulic Modeling for Bean Blossom Creek
    - ii. S Rogers St. Culvert Replacement
    - iii. Stipp Road/Moore's Creek Road Project Update
    - iv. Marlin Hills Drainage Improvements Project (ARPA)
  - c. Erica Penna, Stormwater Inspector – Construction Inspection Summary
  - d. Adam Rickert, MS4 Assistant – 2023 Annual Report Summary
7. Adjournment
  - a. Date of Next Meeting: Wednesday May 8, 2024, at 3:00 PM

+ Attachment Included

\* Action Required to Approve/Deny

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Anyone who requires an auxiliary aid or service for effective communication, or a modification of policies or procedures to participate in a program, service, or activity of Monroe County, should contact Monroe County Title VI Coordinator Angie Purdie, (812)349-2550, [apurdie@co.monroe.in.us](mailto:apurdie@co.monroe.in.us), as soon as possible but no later than forty-eight (48) hours before the scheduled event.

Individuals requiring special language services should, if possible, contact the Monroe County Government Title VI Coordinator at least seventy-two (72) hours prior to the date on which the services will be needed.

The meeting is open to the public.

**MEETING MINUTES**  
**MONROE COUNTY STORMWATER MANAGEMENT BOARD**  
**Wednesday December 13, 2023, at 3:00 PM**  
**County Courthouse Building, 3<sup>rd</sup> Floor – Nat U Hill Meeting Room Hybrid Meeting with Virtual Attendance via Zoom**

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**MEMBERS PRESENT:** Lee Jones (President), Penny Githens, Julie Thomas, Trohn Enright-Randolph

**MEMBERS ABSENT:** none.

**STAFF:** Donna Barbrick (Secretary), Kelsey Thetonia (MS4 Coordinator), Tina Engle (Stormwater), Lynnette Tavernier (Highway), Lisa Ridge (Highway)

**OTHERS:** Martha Miller (Soil & Water), TSD, CATS-TV

1. **Call to Order:** Lee Jones called to order at 3:03 pm.
2. **Public Input for Items not on the Agenda** - none
3. **Approval of Minutes for September 13, 2023: Motion to approve by Penny Githens; second by Julie Thomas. VOTE: AYE (unanimous). Motion carried.**
4. **Stormwater Expenditure Reports for September, October, and November 2023**

Lynette Tavernier went through the expenditure reports. She said we had a big order of straw bales and grass seed. She said we used a lot of stone that went towards ditching and a driveway culvert pipe install. She noted expenses for flagging, disposal fees and advertising for job postings, and gas/oil/lube. She said there was a dispersal of funds to Lake Monroe Water Quality for an MOU for the septic maintenance, education and cost share program that was approved. She noted under rental equipment an expenditure for straw blowing equipment,

Since there were no questions, Tavernier went on to talk about October expenditures. She noted expenditures for pipe replacement and some pipes to go to stock. She said there were expenditures for stone, training and travel, on-call contract services, disposal fees, maintenance, printing and advertising, professional fees for plan reviews, public education/participation for BugFest, printing and advertising, gas/oil/lube, random drug testing screens for stormwater crew members, and Lake Monroe cleanup lunch expenses. She said under equipment rental there were expenses for a straw blower. There were no questions.

For November, Tavernier went through the expenses including equipment maintenance, seed/mulch/plantings, pipes, backfill/pavement/repair materials, hauling expenses, concrete blocks for stock and for Fernwood Drive. She mentioned an annual Cartegraph software charge, expenditures for flagging, disposal fees, and maintenance/good housekeeping. She said under professional fees, there were drainage plan reviews by Christopher Burke. She said there were expenditures for three certified mail items and for a portable generator.

Trohn Enright-Randolph asked about an appropriation for \$50,000 and about in-house transfers. Kelsey Thetonia said the majority of this equipment line paid for our new tandem dump truck that we received at the beginning of summer and we will have a new single axle dump truck in 2024.

Lisa Ridge (attending virtually) said we ordered a tandem to replace an older, depleted vehicle. She said then we ordered a smaller version to replace one of the older trucks. She said we have been working on stormwater to have its own fleet.

Trohn asked about the Cartegraph annual fee. Ridge said I think the overall bill might be \$73,000 but we divide that out by users in three different divisions. She said Highway pays the most because they have more users; Stormwater and Bridge crew pay a lesser amount because they have fewer users. Trohn said hopefully in 2024 we can discuss and make sure we aren't duplicating anything with our software. He said my main point is that we might be able to reduce our costs more in 2024. Ridge said

in July of 2022, the commissioners signed a three-year agreement for \$121,459.82 and that amount is divided between the three divisions.

Githens asked about the certified mail expenditures. Thetonia said we had three letters to send for drainage easement violations and we are working through those with the Drainage Board.

#### **5. 2024 Meeting Dates**

Thomas said March 13 is IU spring break, so we just want to be aware of that. There was a suggestion to remove that from the schedule. **Githens said I move to approve the 2024 with the caveat that we remove the proposed meeting for March 13. Second by Thomas. VOTE: AYE (unanimous). Motion carried.**

#### **6. Contract with EcoLogic for Invasive Species Removal**

Thetonia displayed a memo she wrote to the board dated December 6. She said I discussed invasive special removal with you last year or earlier this year. She said I went with EcoLogic because they have certified applicators for pesticides and are very knowledgeable about native plant species. She said there are two areas that we are interested in getting to quickly. She said there was a tall reed planted around the salt barn by my predecessor with the intent to plant something that would tolerate the poor soil quality. She said but that plant is incredibly invasive. She said that plant has spread, and we want to get rid of it before it spreads too far off site. She said once they get rid of it, we will look at planting something that can withstand that rougher environment but is native and not as aggressive.

She said the other area is the Fieldstone dam area within the gated control area. She said the county is responsible for operating the existing sluice gates of the dam and several years ago the gates were rebuilt, and it's been working great. She said there is an area on top of the dam and the county is the only one with access to it. She said there is some woody vegetation that really needs to be removed. She said EcoLogic will come in and do a cut stop treatment and apply as little herbicide as possible. She said I attended a Fieldstone HOA board meeting to talk about their maintenance projects.

**Githens made a motion to approve the proposal for invasive species and vegetation removal with EcoLogic for, in Area 1, Highway Garage, a total of \$2,947.25 and then at Area 2, Fieldstone, \$1,024.25. Second by Thomas.**

Trohn said we had attempted to put in an automated component. He said I wonder if removing the vegetation is going to be a step toward doing that. He said I am curious what your thoughts are for long term. Thetonia said the vegetation management needs to happen no matter what; it should be regular maintenance. She said I think the software could have worked well but it seems like the company has fallen apart and I've had very poor communication with them. She said I spoke to Dave Schilling/Legal about it and was advised it would be a lot of money to go after them. She said I have looked into getting quotes from other companies. Trohn said my main concern is if we cannot get out there in a timely manner when it is 100% manual. He said I know you are working towards that. Thetonia said I will communicate with you if I find a good, feasible solution; thank you for bringing that up so I could update you. She said that is why we have extra keys. She said we close the sluice gates sometimes out of an abundance of caution. She said the homeowners downstream actually prefer we do it this way; they don't trust the software. Jones asked if there was public comment; there was none. **VOTE: AYE (unanimous). Motion carried.**

#### **7. Smith Design for Storm Sewer Design on S. Rogers St.**

Thetonia said this is a small design contract that was necessitated by an upstream development. She said we have a pipe under South Rogers Street that is in fair condition; it is fairly old, and from the engineer's calculations, it is undersized and then it drains directly into the flood plain after it goes between two homes. She said to me this was an opportunity to make these improvements ahead of the development going in. She said the development is on the southeast corner of South Rogers Street and That Road, and they will be outletting their detention pond down South Rogers Street to our existing culvert. She said the culvert is under South Rogers and it extends between two homes before

outletting to a ditch that then discharges to Clear Creek. She said this is a little tricky. She said we have flood plain, and a portion of the pipe would be in the flood plain and there are considerations for that. She said we would be working between two homes, and I would want an engineer to look at the profile of the pipe to make sure everything is going to work. She said we also have a CBU water main that runs perpendicular to our culvert. She said I am hoping we can make it work without any conflicts with the water line. She said we would have to work with CBU to show them our proposed profile, how close it would be and the considerations that they require when working near their utility. She said Katie Stein with Smith Design has already done calculations for this area so I think it would be great to work with them for finishing up design on this project.

Thomas asked for clarification on the additional demand that leads to this having to be done. Thetonia said with the design of the detention pond upstream they are going to install new curb and gutter along this portion of South Rogers Street, and they need a place to outlet their pipe. She said because we do not have existing inlets, pipes or curbs and gutters there, we have a culvert under the road. She said to be able to discharge the curb and gutter to that culvert, they will have to install a manhole. She said right now there is a 30-inch pipe, but it really should be a 36-inch pipe. She said if I were to replace this after the fact, I would need to also replace that new manhole because it would have to have a different size hole in it. Thomas asked who decided on curb and gutters. Thetonia said the engineer proposed that with their site plan design. She said that project is known as CI & L Clear Creek Development, also called as Blind Squirrels Development, also known as Joseph Green PUD. Trohn said it looked like developments upstream could have addressed this, but I am happy that we are trying to remedy the situation. He said my only other comment is I like that we are working with Smith Design because Katie Stein has been involved in some of these other projects and she will be able to utilize that knowledge. He said it looks like the not-to-exceed is \$1,500. Thetonia noted that there was an hourly rate table. Jones said it will become increasingly important to look at the drainage with new development projects and take this a lot more seriously than we have in the past. She asked if there was any public comment. There was none.

**Motion by Githens to contract with Smith Design for services for storm sewer replacement at 4900 South Rogers Street with the understanding that the amount is not to exceed \$1,500. Thomas seconded. VOTE: AYE (unanimous). Motion carried.**

#### **8. 2024 LARE Grant Application for Logjam Removal on Brummetts Creek.**

Thetonia said we applied for a LARE grant through the Department of Natural Resources (DNR) to address a large jam that had formed that was adjacent to a county road. She said that project was successful, and we received positive feedback from residents in the area. She said although we do like woody debris for habitat, logjams can cause erosion issues. She said during the logjam removal earlier this year, we saw a situation that was similar downstream. She said when DNR came out to do the closeout inspection, we also looked at this location downstream. She said we applied again for this location which is south of Fleener Road. She said I will be compiling the application, but I wanted to bring it to SWMB first. She said we would be paying about 25% match for this. She said last year, the total project cost was about \$10,000 and DNR provided about \$7,000 of that. She said there is also a portion on private property upstream that the homeowners have asked for help with that, because as a local government we are eligible to apply for this, but they cannot. She said DNR said it would be a great project. Thomas asked if the homeowner would be responsible for a small portion match that is on their property. Thetonia said that is how I communicated it to them. Thomas said that's fair. Githens said if it protects county roads it is a very good plan. Trohn said I applaud Kelsey; I applaud your determination to see this through. Thetonia said you don't have to vote on this, but I wanted to give you that opportunity, if you wanted.

#### **9. Staff Reports**

Martha Miller said you have in your packet our report. She said as we prepare to celebrate Soil & Water's 80 years of existence, it became apparent to me in digging for information on the stormwater program and what we have done, we have been working with SWMB for ten years; thank you for your support. She said the report outlines our original mission. She said in 2014 is when we first

received funding. She summarized the report. She said we have received \$325,000 total from the county in the last ten years. She said \$277,000 of that went directly back to landowners. She said so the people who are paying the fee were able to use that money directly. She said that is 150 projects, roughly, for individual landowners over the last ten years. She said \$48,000 of that over the ten-year period went for educational materials and projects that we have done together with Stormwater. She said for a few years, we paid for some summer staffing to help with the educational component. She said we have expended the whole \$35,000 from last year; we have a tiny little bit allocated for a couple projects that are not going to get finished this year. She said we will pay those out next year.

She said we have received an IDEM 319 or 205(j) grant for the Bean Blossom watershed. She said in 2005 we wrote a plan for that watershed. She said when that plan was complete the SWCD picked it up and applied for implementation funds. She said we implemented a little over \$600,00 in that watershed in 2010 to 2012. She said we will be updating or redoing that watershed plan over the next two or three years and then we will do more implementation.

She said we have also applied for a planning grant on Indian Creek. She said IDEM asked us to hold off for one year; they will be doing a water quality study in that watershed in 2024. She said we will be getting implementation money to do a plan and conservation/implementation practices.

She said in Lawrence County, there is an implementation for Lower Salt Creek and that will start in 2024 as well. She said there is a unique opportunity through our partner, the Mississippi River Basin Initiative (MRBI). She said we got another \$370,000 for implementation in that watershed; that will work through our partners. She said if MRBI still exists when we get to implementation, then we will apply for that money as well. She said we have also secured \$32,000 for additional projects. She said the match money for our first 319 grant was almost \$300,000 for a one-staff operation. She said we will start having steering committee meetings in February.

She said we have a grant-funded employee, and she will be going through the Indiana Watershed Leadership Academy. She said the SWCD board applied for a scholarship for her to be able to do that. Githens asked when you get money for a watershed area, what exactly does the money go for? Miller said I would love to have you sit in on our steering committee; that would be awesome. She said watershed planning is complex. She said we look at the water biology, the aquatic biology, but primarily a watershed plan is looking at land use in the area that is impacting water quality. She said we drive through the area, we look at aerial imagery, we'll talk to Kelsey about things that she has discovered out there, and then we put it all together into maps and data sets. She said we try to identify which watersheds are most critically impaired. She said then once you do that, you find ways to implement things to make changes in the watershed. She said that is where the implementation funding comes in, predominantly for agriculture, but there are some urban opportunities as well. She said one part is having a consultant for writing the plan, and then implementation money actually goes to people who have projects they want to do on their property. She said the initial part is writing the plan, getting all the partners to the table, and making sure you hear everybody's voice. Trohn commented there are so many factors, and it is always interesting how the dollars actually hit the ground. He said I think all these efforts are going to complement each other. He said finally but not least, congratulations on 20 years.

Miller said thank you. She said I will say there are a lot of soil & water districts on the west side of the state who are kind of scrambling because there is discussion about pulling water out of the Wabash watershed and moving it and the SWCDs are keeping an eye on that.

She said one other thing I thought of as I was doing this is, a lot of this money that is coming for conservation is coming through our federal partner NRCS and, according to statute, NRCS cannot function in a county without a soil & water district. She said a soil & water district board has to exist in that county in order for federal partners to be here. She said with federal partner money alone, we have brought in more than \$6 million dollars to the county in the last ten years. She said it comes back to the county because everyone pays personal income tax on that money; we are required to 1099

everyone over \$600, so even with the mini-grants, those people are required to put that on their personal income tax which brings that money back to Monroe County. She said thank you all for your support; it is very much appreciated.

#### **10. Stipp Road/Moores Creek Road Project Update - Presentation**

Thetonia said I will keep this very brief. She displayed a PowerPoint about the roadway elevation project. She said this project has been in the works for many years. She said I am happy to say that things are moving along. She said both roads would be raised to an elevation of 554.6 feet to minimize flooding and widened to 24 foot to meet county road standards. She said on Stipp Road a bridge would be replaced because it was not sized to meet our current standards. She said it has been redesigned and sized for the appropriate rain event. She said several small culverts will be replaced and there will be a retaining wall along a portion of Stipp Road. She said the tree removal involves a large area, about 1,000 trees total. She said we have hired Lochmueller group for project coordination.

She displayed a map of the project showing the road to be raised. She said it would be done in phases, not all at once. She displayed a timeline of the project. She said the next step would be tree removal with construction beginning in 2024. She said Butcher Branch bridge would be replaced and new guardrail, signage and pavement markings would be installed. She said there will be about 5.4 acres of tree removal. She said the project would start on the Moores Creek side, and then the Stipp Road side. She said she is anticipating a two-year project. She said in almost all rain events, the roads should stay clear of floodwaters. She said we will be recording the easements. She said once the project is complete, we will replant trees. She said Aztec will be working on a tree planting plan for us. She talked about permitting.

Trohn asked do we have any idea of what the cost is going to be for stormwater. He said one thing I think we could do is, with the tree removal, reach out to the public to inform them what we are doing. Thetonia said the 2019 estimate was \$2.3 million; I expect that to go up quite a bit. She said I absolutely agree that we need a web page to help the public understand what is going on with this project. She said I have also been talking to Friends of Lake Monroe about this project. She said I think we can work on materials that would be easily digestible.

#### **11. Adjournment at approximately 4:22pm**

##### **a. Date of Next Meeting: Wednesday January 10, 2024, at 3:00 PM**

Approved:

**Signed:**

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President

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Secretary

**Stormwater Fund 1197 Appropriation Balance as of December 31, 2023**

Appropriation	Line Item	Yr. Beginning Appr.	Corrections	Adjust./Transfers	Additional	Expenditures	Total Appr.	Appr. Balance	% Unexpended
<b>20s Supplies</b>									
20001	Office Supplies	\$1,000.00				\$32.49	\$5,000.00	\$364.30	7%
23411	Fleet Maintenance	\$30,000.00				\$2,936.77	\$90,000.00	\$46,092.80	51%
23940	Seed/Mulch/Compost/Plantings	\$5,000.00				\$681.98	\$6,100.00	\$212.07	3%
23950	Pipes	\$40,000.00				\$15,947.10	\$30,000.00	\$130.11	0%
23960	Backfill/Pavement Repair Mater	\$60,000.00				\$2,408.24	\$58,770.89	\$16,359.99	28%
<b>30s Other Services and Charges</b>									
30061	On Call Contract Services	\$75,000.00				\$4,205.00	\$82,721.02	\$20,271.17	25%
30321	Professional Fees	\$40,000.00				\$65.00	\$31,992.97	\$22,577.97	71%
30330	Public Educ & Participation	\$38,000.00				\$19.08	\$38,000.00	\$1,279.18	3%
30700	Gas Oil & Lube	\$100,000.00				\$2,894.00	\$100,000.00	\$40,807.46	41%

**Stormwater Fund 1197 December 2023 Expenditures by Date**

Check Date	Appropriation	Line Item	Vendor	Amount	Notes
<b>06-Dec-23</b>					
	23940	Seed/Mulch/Compost/Plantings	Blooming Speedway Mulch	\$75.00	Straw Bales (x10)
	23960	Backfill/Pavement Repair Mtls	E & B Paving, Inc	\$361.62	Blacktop Surface 9.5
	23960	Backfill/Pavement Repair Mtls	Rogers Group	\$215.21	#8 Indot Stone, stone #11
	30061	On Call Construction Services	Security Pro 24/7	\$2,735.00	Flagging 11/13-11/17/23, 11/20-11/22/23
	30321	Professional Fees	Christopher Burke	\$65.00	MS4 Audit Assistance
	30330	Public Educ & Participation	Menards	\$19.08	2023 Contractor's Workshop Snack Items
<b>13-Dec-23</b>					
	23411	Fleet Maintenance Supplies	Monroe County Hwy Dept	\$2,936.77	Vehicle maintenance & repairs to SW for the month of December
	23940	Seed/Mulch/Compost/Plantings	Blooming Speedway Mulch	\$606.98	Straw Bales (x52), 50 lb Grass Seed (x1), Straw Mat (x1)
	23950	Pipes	CivilCon, Inc	\$15,947.10	Pipes
	23960	Backfill/Pavement Repair Mater	E & B Paving, Inc	\$221.76	Blacktop Surface 9.5
	23960	Backfill/Pavement Repair Mater	Rogers Group	\$946.82	Rev Rip Rap, Uniform Gabion Rip Rap "A",
	30061	On Call Construction Services	Security Pro 24/7	\$1,470.00	On Call Contracting Serv - Traffic Control
	30700	Gas, Oil & Lube	Monroe County Hwy Dept	\$2,894.20	SW Gas Usage for November 2023
<b>20-Dec-23</b>					
	20001	Office supplies	Engraving & Stamp Center, Inc	\$25.24	Nameplates
	20001	Office supplies	Toshiba Business Solutions	\$7.25	Toshiba color copies
	23960	Backfill/Pavement Repair Mater	E & B Paving, Inc	\$662.83	Blacktop Surface 9.5

## Stormwater Fund 1197 Appropriation Balance as of January 31, 2024

Appropriation	Line Item	Yr. Beginning Appr.	Encumbrances	Adjust./Transfers	Additional	Expenditures	Total Appr.	Appr. Balance	% Unexpended
<b>10s Payroll</b>									
18001	FT Self Insurance	\$138,555.00				\$32,329.50	\$138,555.00	<b>\$106,225.50</b>	<b>77%</b>
<b>20s Supplies</b>									
20002	Official Records	\$2,500.00				\$455.00	\$2,500.00	<b>\$2,045.00</b>	<b>82%</b>
21170	Field Crew Supplies	\$5,000.00				\$372.01	\$5,000.00	<b>\$4,627.99</b>	<b>93%</b>
23411	Fleet Maintenance	\$80,000.00				\$1,181.31	\$80,000.00	<b>\$78,818.69</b>	<b>99%</b>
23920	Testing/Sampling Equipment	\$500.00				\$207.57	\$500.00	<b>\$292.43</b>	<b>58%</b>
23940	Seed/Mulch/Compost/Plantings	\$6,000.00				\$281.94	\$6,000.00	<b>\$5,718.08</b>	<b>95%</b>
23960	Backfill/Pavement Repair Mater	\$60,000.00				\$123.76	\$60,000.00	<b>\$59,876.24</b>	<b>100%</b>
<b>30s Other Services and Charges</b>									
30004	Repairs; Equipment/Vehicle	\$8,000.00				\$14.58	\$8,000.00	<b>\$7,985.42</b>	<b>100%</b>
30028	Training/Travel	\$12,000.00				\$748.90	\$12,000.00	<b>\$11,251.10</b>	<b>94%</b>
30061	On Call Construction Services	\$75,000.00				\$3,690.00	\$75,000.00	<b>\$71,310.00</b>	<b>95%</b>
30310	Gen Engineering Services	\$25,000.00				\$2,000.00	\$25,000.00	<b>\$23,000.00</b>	<b>92%</b>
30314	Maint/Good Housekeeping SW	\$5,000.00				\$49.01	\$5,000.00	<b>\$4,950.99</b>	<b>99%</b>
30330	Public Educ & Participation	\$38,000.00				\$50.00	\$38,000.00	<b>\$37,950.00</b>	<b>100%</b>
30500	Printing & Advertising	\$3,000.00				\$9.87	\$3,000.00	<b>\$2,990.13</b>	<b>100%</b>
30700	Gas, Oil & Lube	\$100,000.00				\$3,054.49	\$100,000.00	<b>\$96,945.51</b>	<b>97%</b>
32113	Drug Testing	\$500.00				\$85.00	\$500.00	<b>\$415.00</b>	<b>81%</b>
32008	Other Insurance (non-health)	\$43,000.00		\$17,000.00		\$59,935.00	\$60,000.00	<b>\$65.00</b>	<b>0%</b>
39228	Stipp Rd/Moores Ck #16 & #4 SW	\$500,000.00		-\$17,000.00		\$18,030.32	\$483,000.00	<b>\$464,969.68</b>	<b>96%</b>

## Stormwater Fund 1197 January 2024 Expenditures by Date

Check Date	Appropriation	Line Item	Vendor	Amount	Notes
<b>03-Jan-24</b>					
	23940	Seed/Mulch/Compost/Plantings	Bloomington Speedway	\$281.94	Pay difference in undercharge,in #000198 for 6 straw mats
	23960	Backfill/Pavement Repair Mater	Rogers Group Inc	\$123.76	Uniform Gabion Rip Rap "A"
	30004	Repairs; Equipment/Vehicle	Industrial Service & Supply Inc	\$14.58	Male orb connector
	30314	Maint/Good Housekeeping SW	Menards Inc	\$49.01	SW crew supplies
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Lochmueller Group, Inc	\$1,030.32	Design Work/Engineering
<b>10-Jan-24</b>					
	21170	Field Crew Supplies	Forestry Suppliers, LLC	\$343.74	test kits, strips, tape, thermometer
	21170	Field Crew Supplies	Menards Inc	\$28.27	heat shrink, 14-50'sol thhn, electric tape
	30061	On Call Construction Services	Security Pro 24/7, LLC	\$1,980.00	traffic control officers
	33008	Other Insurance (non-health)	Hylant	\$17,276.00	Insurance expense 24/25 Policy
	33008	Other Insurance (non-health)	Hylant	\$42,659.00	Insurance Expense; SW 24/25 Auto Policy
<b>19-Jan-24</b>					
	20002	Official Records	ITI - Indiana Testing Inc	\$455.00	Driver Qualification Files
	23411	Fleet Maintenance Supplies	Monroe County Highway	\$1,181.31	Vehicle maint & repair, SW Dec 2023
	23920	Testing/Sampling Equipment	AquaPhoenix Intermediate	\$207.57	phosphate, phosphate refill (Adam)
	30028	Training/Travel	First Financial	\$399.00	American Stormwater Institute, Class Erica
	30028	Training/Travel	First Financial	\$189.95	Envirocert, Kelsey
	30028	Training/Travel	First Financial	\$159.95	Envirocert, Adam
	30310	General Engineering Servies	Bledsoe Riggert Cooper & James	\$2,000.00	Design Work/Engineering
	30330	Public Educ & Partcipation	Monroe County Master Gardner	\$50.00	Master Gardner Fair Booth
	30700	Gas, Oil & Lube	Monroe County Highway	\$3,054.49	Purchase Gas, SW Dec 2023
	32113	Drug Testing	ITI - Indiana Testing Inc	\$75.00	Drug/Alcohol Testing
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Aztec Engineering Group, Inc	\$17,000.00	Contractual Services, Stipp Rd/Moores Creek
<b>26-Jan-24</b>					
	18001	FT Self Insurance	Monroe County Treasurer	\$32,329.50	Stormwater Mgt
<b>31-Jan-24</b>					
	30061	On Call Construction Services	Security Pro 24/7, LLC	\$1,710.00	traffic control officers
	30500	Printing & Advertising	Toshiba Business Solutions	\$9.87	color copies
	32113	Drug Testing	ITI - Indiana Testing Inc	\$10.00	New Hire drug testing - Greg Nettleton



**Stormwater Fund 1197 Appropriation Balance as of February 29, 2024**

Appropriation	Line Item	Yr. Beginning Appr.	Encumbrances	Adjust./Transfers	Additional	Expenditures	Total Appr.	Appr. Balance	% Unexpended
<b>20s Supplies</b>									
20001	Office Supplies	\$1,000.00				\$88.64	\$1,000.00	\$911.36	91%
21170	Field Crew Supplies	\$5,000.00				\$104.19	\$5,000.00	\$4,523.80	90%
23411	Fleet Maintenance	\$80,000.00				\$1,078.04	\$80,000.00	\$77,740.65	97%
23920	Testing/Sampling Equipment	\$500.00				\$45.00	\$500.00	\$247.43	49%
23960	Backfill/Pavement Repair Mater	\$60,000.00				\$728.44	\$60,000.00	\$59,147.80	99%
<b>30s Other Services and Charges</b>									
30028	Training/Travel	\$12,000.00				\$74.00	\$12,000.00	\$11,177.10	93%
30310	General Engineering Services	\$25,000.00				\$1,045.00	\$25,000.00	\$21,012.50	84%
30314	Maint/Good Housekeeping SW	\$5,000.00				\$38.24	\$5,000.00	\$4,912.75	98%
30700	Gas Oil & Lube	\$100,000.00				\$5,518.84	\$100,000.00	\$91,426.67	91%
38230	Rental of Equipment	\$5,000.00				\$125.00	\$5,000.00	\$4,875.00	98%
39288	Stipp Rd/Moores Ck #16 & #4 SW	\$500,000.00				\$14,585.36	\$483,000.00	\$450,384.12	93%
<b>40s Capital Outlays</b>									
40001	Equipment	\$3,500.00		\$1,550.00		\$5,050.00	\$5,050.00	\$5,050.00	0%
41104		\$215,000.00		-\$1,550.00		\$1,550.00	\$213,450.00	\$213,450.00	100%

**Stormwater Fund 1197 February 2024 Expenditures by Date**

Check Date	Appropriation	Line Item	Vendor	Amount	Notes
<b>07-Feb-24</b>					
	21170	Field Crew Supplies	Menards, Inc	\$104.19	sprayer, fvp, rv marine
	23960	Backfill/Pavement Repair Mater	Rogers Group Inc	\$355.76	Stone # 8
	38230	Rental of Equipment	Ellettsville True Value	\$125.00	straw blower
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Lochmueller Group, INC.	\$1,285.56	Task #2, Services for Dec 2023
<b>21-Feb-24</b>					
	23411	Fleet Maintenance Supplies	Monroe County Highway	\$1,078.04	Maintenance & Repair, Jan 2024
	23960	Backfill/Pavement Repair Mater	Rogers Group Inc	\$372.68	Stone #8
	30028	Training/Travel	First Financial Bank	\$50.00	IUBL Conference
	30028	Training/Travel	First Financial Bank	\$24.00	Parking Garage, Indy
	30310	General Engineering Services	Christopher B Burke	\$247.50	Clear Creek Christian School Expansion
	30310	General Engineering Services	Christopher B Burke	\$247.50	Highland Park Elementary
	30310	General Engineering Services	Christopher B Burke	\$550.00	Spring Woods Major Subdivision
	30700	Gas, Oil & Lube	Monroe County Highway	\$5,518.84	January usage
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Aztec Engineering Group, INC	\$13,300.00	Design work Engineering, Stipp Rd
<b>23-Feb-24</b>					
	40001	Equipment	Detro Trailer LLC	\$5,050.00	Utility Trailer
<b>28-Feb-24</b>					
	20001	Offices Supplies	ODP Business Solutions LLC	\$71.10	copy paper, pens, mech pencil, deskpad
	20001	Offices Supplies	Toshiba Business Solutions	\$17.54	color copies
	23920	Testing/Sampling Equipment	City of Bloomington Utilities	\$45.00	Lab test
	31310	General Engineering Services	Beldsoe Riggert Cooper & James	\$942.50	Marlin Hills Infrastructure Improvements
	30314	Maint/Good Housekeeping SW	Kleindorfers Hardware LLC	\$38.24	rope, screw eyes

**Stormwater Fund 1197 Appropriation Balance as of March 31, 2024**

Appropriation	Line Item	Yr. Beginning Appr.	Encumbrances	Adjust./Transfers	Additional	Expenditures	Total Appr.	Appr. Balance	% Unexpended
<b>20s Supplies</b>									
21170	Field Crew Supplies	\$5,000.00				\$25.00	\$5,000.00	\$4,538.00	91%
23411	Fleet Maintenance	\$80,000.00				\$4,915.82	\$80,000.00	\$72,824.83	91%
23940	Seed/Mulch/Compost/plantings	\$6,000.00				\$2,399.60	\$6,000.00	\$3,318.10	55%
23960	Backfill/Pavement Repair Mater	\$60,000.00				\$269.64	\$60,000.00	\$58,878.16	98%
<b>30s Other Services and Charges</b>									
30028	Training/Travel	\$12,000.00				\$54.80	\$12,000.00	\$11,122.30	93%
30061	On Call Construction Service	\$75,000.00				\$2,445.00	\$75,000.00	\$68,865.00	92%
30219	Disposal Fees	\$20,000.00				\$75.00	\$20,000.00	\$19,925.00	100%
30310	General Engineering Services	\$25,000.00				\$1,512.50	\$25,000.00	\$18,200.00	73%
30330	Public Educ & Participation	\$38,000.00				\$179.41	\$38,000.00	\$37,770.59	99%
30700	Gas, Oil & Lube	\$100,000.00				\$5,366.31	\$100,000.00	\$86,060.36	86%
35003	Reprographics	\$150.00				\$13.20	\$150.00	\$136.80	91%
38230	Rental of Equipment	\$5,000.00				\$375.00	\$5,000.00	\$4,500.00	90%
39288	Stipp Rd/Moores Ck #16 & #4 SW	\$500,000.00				\$111,574.07	\$483,000.00	\$338,810.05	70%
<b>40s Capital Outlays</b>									
40001	Equipment	\$3,500.00		\$13,550.00		\$ 11,700.00	\$ 17,050.00	\$5,350.00	31%
41104	Vehicle Purchase	\$215,000.00		-\$13,550.00		\$ (13,550.00)	\$ 201,450.00	\$201,450.00	100%

**Stormwater Fund 1197 March 2024 Expenditures by Date**

Check Date	Appropriation	Line Item	Vendor	Amount	Notes
<b>06-Mar-24</b>					
	30219	Disposal Fees	Rogers Group Inc	\$60.00	Clean Fill Dirt
<b>13-Mar-24</b>					
	23940	Seed/Mulch/Compost/Plantings	Menards	\$299.96	Erosion control, grass seed
	23960	Backfill/Pavement Repair Mater	Rogers Group Inc	\$254.64	Stone #2
	23960	Backfill/Pavement Repair Mater	Rogers Group Inc	\$15.00	Clean Fill Dirt
	30061	On call Construction Services	Security Pro 24/7, LLC	\$705.00	Traffic Control Officers
	30310	General Engineering Services	Christopher B Burke	\$797.50	SW ordinance & tech standards, update
	30310	General Engineering Services	Christopher B Burke	\$27.50	Highland Park Elementary
	30310	General Engineering Services	Christopher B Burke	\$687.50	Engineering Stone Carver Drive
	30330	Public Educ & Participation	Menards	\$179.41	Tables, easter eggs, squeeze bottles, hedge shears, etc
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Aztec Engineering Group, Inc	\$1,200.00	Design work/Engineering, Stipp Rd/ Moores Creek
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Bluestone, LLC	\$108,615.00	Stipp Rd/Moores Creek tree removal & Cleanup
	39288	Stipp Rd/Moores Ck #16 & #4 SW	Lochmeuller Group, Inc	\$1,759.07	Design work/Engineering, Stipp Rd/ Moores Creek
<b>15-Mar-24</b>					
	40001	Equipment	Pro Series Products, LLC	\$11,700.00	Straw blower with trailer
<b>27-Mar-24</b>					
	21170	Field Crew Supplies	Complete Masonry Supplies	\$25.00	pallet
	23411	Fleet Maintenance Supplies	Monroe County Highway	\$4,915.82	Vehicle maint & Repair
	23940	Seed/Mulch/Compost/Plantings	Clark G & C Farms LLC	\$2,100.00	erosion control, straw bales
	30028	Training/Travel	Kelsey	\$54.80	parking, road school, Indy
	30061	On call Construction Services	Security Pro 24/7, LLC	\$1,740.00	Traffic Control Officers
	30219	Disposal Fees	Rogers Group Inc	\$15.00	Clean Fill Dirt
	30700	Gas, Oil & Lube	Monroe County Highway	\$5,366.31	Gas for February
	35003	Reprographics	Toshiba Business Solutions	\$13.20	color copies
	38230	Rental of Equipment	Ellettsville True Value	\$375.00	rented straw blower

**MEMORANDUM OF UNDERSTANDING**  
between the **Monroe County Stormwater Management Board**  
and the **Monroe County Soil and Water Conservation District**

This Memorandum of Understanding (MOU) is entered into by the Monroe County Stormwater Management Board (MCSWMB) and the Monroe County Soil & Water Conservation District (MCSWCD), effective as of the last date executed by both parties, as shown below. The MCSWMB and the MCSWCD mutually agree to the following:

**Article 1: Purpose and Scope**

The purpose of this MOU is to outline the conditions and requirements for usage of Stormwater Utility funds by the MCSWCD under the Stormwater Partnership Grants Program (SWPGP). The SWPGP is a local cost-share program for residents who own land in unincorporated Monroe County and pay a Stormwater Fee to the Monroe County MS4.

The intent of the SWPGP is to implement conservation practices on private property that contribute to an overall improvement in soil health and water quality in Monroe County by reducing non-point sources of pollution and encouraging behavioral changes in our community.

**Article 2: Conditions and Arrangements**

The MCSWMB will provide \$35,000 of FY2024 Stormwater Utility funding to the MCSWCD for the 2024 SWPGP. Once these funds have been deposited into the MCSWCD bank account, they become funds of the State of Indiana.

The MCSWCD Board of Supervisors agrees to oversee the use of the SWPGP funds. The MCSWMB agrees that MCSWCD can use these funds as cash match for watershed-focused grants that will help Monroe County landholders with conservation projects on their private lands in unincorporated Monroe County. The MCSWCD Board of Supervisors will review all grant applications and retain the right to approve or deny any or all applications based on the project's ability to meet the grant criteria and intent of the SWPGP.

The criteria for the SWPGP grants are as follows:

1. Eligible applicants must own land in Monroe County and/or have written permission from the landowner to apply as the operator.
2. The entire project area must be located within Monroe County. Projects located within the City of Bloomington, Town of Ellettsville, or Town of Stinesville are not eligible for Partnership Grant funds.
3. An eligible applicant can apply for a Partnership Grant every three (3) years for a specific project on an identified area of land. The exception is cover crop applications, where eligible applicants can apply annually for a maximum of three (3) years on the same identified area of land.
4. Once a Grant Application is approved by the MCSWCD Board of Supervisors, the applicant will enter into a Grant Agreement with the MCSWCD. The terms of the grant agreement will determine the deadline for project completion. All projects must be completed within two (2) years from the date the Grant Agreement is executed.
5. Participants will be required to submit a W9 to the MCSWCD prior to beginning their project.
6. All payments by the MCSWCD will be made in arrears. Participants will be required to provide MCSWCD with all receipts, documentation, and photographs before, during and after the project is completed. If any of these items are determined to be deficient according to MCSWCD, the MCSWCD may withhold reimbursement to the Participant until adequate receipts, documentation, and photographs are received.
7. Participants will be required to allow representatives from the MCSWCD or MCSWMB to enter their property for project inspections.

8. Participants will agree to maintain the project according to the terms of the Grant Agreement, based upon NRCS recommendations, contractor recommendations, and/or MCSWCD and MS4 staff recommendations.
9. Participants will not hold Monroe County Government, the MCSWCD, the MCSWMB, or their representatives, liable if a grant project should fail or be deemed inadequate in any way.
10. All Partnership Grant projects are required to have some form of landholder buy-in, at a minimum 25% of the project cost, including materials or labor. Labor performed by the applicant is eligible for reimbursement at a rate determined by the MCSWCD.
11. No individual Partnership Grant award will exceed \$2,000. Any Partnership Grant awards that exceed \$2,000 must be approved by both the MCSWCD Board of Supervisors and the MS4 Coordinator, on a case-by-case basis.

The MCSWCD will issue reimbursements to participants and process all 1099 forms for Partnership Grant projects.

If unused funds exist at the end of the fiscal year, the MCSWCD will work with the MCSWMB and MS4 Staff to determine if funds should be returned or if the requested funding amount needs to be reduced for the next fiscal year.

**Article 3: Reporting**

MCSWCD Staff will present SWPGP updates to the MCSWMB a minimum of three (3) times per year or as requested by the MCSWMB. At the end of each fiscal year, the MCSWCD will provide a written report of funds spent in that fiscal year and funds allocated for the next fiscal year.

In Witness Whereof, the MCSWMB and MCSWCD have executed this Agreement as dated below.

\_\_\_\_\_  
 President, Monroe County Stormwater  
 Management Board

\_\_\_\_\_  
 Chair, Monroe County Soil & Water Conservation  
 District Board of Supervisors

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Date

**MEMORANDUM OF UNDERSTANDING**  
between the  
**Monroe County Stormwater Management Board (MCSWMB)**  
and the  
**Lake Monroe Water Fund (LMWF)**

**The Parties to this Memorandum of Understanding (MOU) agree to the following:**

**Article 1: Purpose and Scope**

The purpose of this MOU is to support water monitoring efforts in the Lake Monroe watershed through the fiscal year 2024.

**Article 2: Conditions and Arrangements**

The MCSMB will provide the LMWF with \$3,500 to be spent for water monitoring activities in the Lake Monroe watershed. Water monitoring efforts funded by this MOU must be conducted to align with the goals and objectives of the approved Lake Monroe Watershed Management Plan, and watershed implementation efforts for monitoring non-point source pollution entering Lake Monroe. The LMWF shall seek approval from the MS4 Coordinator prior to distributing funds to other local groups. The MCSWMB may request periodic updates from the LMWF on projects being funded.

**Article 3: Timeframe**

If any of this funding remains unused at the end of the 2024 fiscal year, it will be returned to the MCSWMB. A request for an extension must be made at least 90 days prior to the end of the 2024 fiscal year.

**Article 4: Future Cooperation**

The LMWF will continue to work to support the goals of the MCSWMB and the County's Stormwater Program by encouraging responsible management of Lake Monroe's watershed.

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Monroe County Stormwater  
Management Board, member

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Lake Monroe Water Fund,  
representative

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Date

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Date



Ms. Kelsey Thetonia, CPESC, CESSWI, MS4 Coordinator  
Monroe County Highway Department  
501 North Morton Street Suite 216  
Bloomington, IN 47303  
February 23, 2024

**RE: LOMR Preparation For Structures 1349 & 1355 & Permit Assistance**

Dear Ms. Thetonia:

Shrewsberry is pleased to submit this proposal to complete a FEMA Letter of Map Revision (LOMR), as necessitated by the future installation of Structures 1349 and 1355. We have done some preliminary investigation regarding this project area and have determined that it is located within Flood Hazard Area A, which means that base flood elevations have not been established. We have outlined the scope of work based on the preliminary investigation. This work also assistance Permit Assistance, which will be provided by our subcontractor, Little River Consultants.

**Project Background & Understanding**

With the expected construction of new structures 1349 and 1355 later this year, the flood area for the locations of the installation of these structures is likely to change, and Monroe County has requested that a LOMR be prepared to reflect this change. The two structures will be installed in an area that does not have established Base Flood Elevations, and IDNR has indicated the LOMRs are typically not requested for the area.

Preliminary modeling is required to determine if the installation of the new structures affect the flood levels at these 2 facilities. Under normal conditions, IDNR would have had an existing model that could be used as a comparison to the modeling required for this task. However, IDNR has indicated that no models exist, which eliminates some steps required for this analysis. The final model will be used to develop the report necessary to communicate the LOMR with IDNR.

**Scope of Services**

Steps required to complete the LOMR are as follows:

1. Completing of the LOMR Application, with the associated Maps, and Forms.
2. Providing Public Notice of the intent to revise the existing Flood Map.
3. Establishing flow conditions for modeling effort (requires correspond with IDNR).
4. Completing the HEC-RAS model associated with the LOMRs.
5. Facilitating correspondence with IDNR and FEMA to get LOMR application completed.

**Schedule**

The duration of this task is expected to be approximately 6 months after Notice to Proceed, including the Public Notice period. With the expected construction of Structures 1349 and 1355 in the summer, the completion of this project is expected to be well into the construction phase of these projects.

**Assumptions**

- No field survey is required to complete the HEC-RAS model.



- Area of interest is limited to the areas of affected water surface elevations from the bridge construction.
- IDNR to provide flowrates for Baby Creek.

**Fee**

Shrewsberry proposed to perform the above-mentioned work on a time and materials basis for a not-to-exceed price of \$57,840 accordance with the Work Breakdown included with this letter (Exhibit A) and summarized below.

Please note that if upon discussions with DNR, it is determined that a LOMR is not required, we will achieve the necessary documentation of that dispensation from DNR and will not bill you for the associated expenses for the LOMR preparation.

Description	Value
Project Management	\$ 10,130
LOMR Application	\$ 8,560
HEC RAS Modeling Report	\$9,390
Final Modeling Report	\$16,740
IDNR / FEMA Coordination	\$8,720
Permit Assistance	\$4,300
<b>Total</b>	<b>\$57,840</b>

If you have questions, need additional information, or would like to discuss this proposal in more detail, please contact me at your convenience.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads 'Kwabena Adu-Sarkodie'.

**Kwabena Adu-Sarkodie, PE**  
Director- Water Resources Engineering  
Shrewsberry & Associates, LLC  
CC: 17-0230

# EXHIBIT A: WORK BREAKDOWN STRUCTURE



2/2/2024

17-0230

## LOMR Prepration

Monroe County has requested the development LOMRs due to installation of Structures 1345 & 1355	Engineer 8 \$266.82	Engineer 5 \$182.94	Engineer 3 \$141.05	Total
<b>Project Management</b>				
Project Management	18			\$ 4,803
Project Meetings	4	4	8	\$ 2,927
Public Notice	2	4	8	\$ 2,394
<b>Total -Project Management</b>	<b>24</b>	<b>8</b>	<b>16</b>	<b>\$ 10,130</b>
<b>LOMR Application</b>				
Project Narrative	2	1	6	\$ 1,563
MT-2 Form 1		1	4	\$ 747
Project Location Map			2	\$ 282
Certified Topographic Work Map		2	12	\$ 2,058
Annotated FIRM Panel		2	4	\$ 930
Annotated FIS		2	4	\$ 930
Public Notice		3	6	\$ 1,395
QC/QA		2	2	\$ 648
	<b>2</b>	<b>13</b>	<b>40</b>	<b>\$ 8,560</b>
<b>HEC RAS Modeling Report</b>				
Hydrological Flowrate Coordination	2	4	4	\$ 1,830
Existing Conditions Model		4	16	\$ 2,989
Proposed Conditions Model		4	16	\$ 2,989
HEC-RAS Software Check - With Written Responses		4	6	\$ 1,578
	<b>2</b>	<b>16</b>	<b>42</b>	<b>\$ 9,390</b>
<b>Finalize Modeling Report</b>				
Modeling Summary Document	2	4	16	\$ 3,522
IDNR Modeling Results Table		4	8	\$ 1,860
Hydraulic Modeling Checklist		4	8	\$ 1,860
HEC-RAS Output Plots and Tables		4	8	\$ 1,860
Model Figures		4	8	\$ 1,860
Site Photos and Location Figure		4	8	\$ 1,860
Field Work for Site Photos		6		\$ 1,098
QC/QA	4	8	2	\$ 2,813
	<b>6</b>	<b>38</b>	<b>58</b>	<b>\$ 16,740</b>
<b>IDNR Coordination</b>				
QA/QC	2	2	2	\$ 1,182
Submission to IDNR		2		\$ 366
Response to IDNR Review Comments		3	16	\$ 2,806
	<b>2</b>	<b>7</b>	<b>18</b>	<b>\$ 4,360</b>
<b>FEMA Coordination</b>				
QA/QC	2	2	2	\$ 1,182
Submission to IDNR		2		\$ 366
Response to IDNR Review Comments		3	16	\$ 2,806
	<b>2</b>	<b>7</b>	<b>18</b>	<b>\$ 4,360</b>
<b>Permit Assitance</b>				
<b>Provided By Little River Consultants</b>				<b>\$ 4,300</b>
<b>Total Direct Labor =</b>	<b>38</b>	<b>89</b>	<b>192</b>	<b>\$ 57,840</b>





# *Monroe County Stormwater Services*

Located at Monroe County Highway Department:  
501 N. Morton Street, Suite 216, Bloomington, IN 47404

Phone: (812) 349-2565

Fax: (812) 349-2959

[www.co.monroe.in.us](http://www.co.monroe.in.us)

To: Monroe County Stormwater Management Board

From: Kelsey Thetonia, MS4 Coordinator

Date: April 4, 2024

Re: Potential On-Call Contract with Hydrogeology, Inc.

Stormwater Board Members,

I recently spoke with Jason Krothe, a local licensed professional geologist, about having an on-call contract with his company Hydrogeology, Inc., for consulting on some of the trickier karst-related issues I encounter. Most of the time, I am able to figure out solutions that protect public safety and water quality. However, sinkholes are often unpredictable and there have been a couple times where I've asked Jason for his opinion on a few sinkhole situations. I want to respect Jason's time and expertise, and be able to ask for more formal consultation. We have not drafted the professional services agreement yet, but I'd like your input on this at our meeting.