

*December 6, 2021*

# **M E M O R A N D U M**

To: City of White House Stormwater Advisory Board  
Jason Reynolds, City Engineer

From: Derek Watson, City Recorder

Re: Meeting of the Stormwater Advisory Board

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The Stormwater Advisory Board of the City of White House will meet on Monday, December 13, 2021. The meeting will take place at 4:00pm in the Boardroom of the Billy S. Hobbs Municipal Center located at 105 College Street.

If you have any questions or are unable to attend please contact me at 615-672-4350, ext. 2111.



**CITY OF WHITE HOUSE**  
**Stormwater Advisory Board**  
**Agenda**  
**December 13, 2021**  
**4:00 p.m.**

- I. Call to Order by Chairman
- II. Roll Call
- III. Adoption of the Agenda
- IV. Approval of September 13, 2021 Meeting Minutes
- V. Reports
- VI. New Business or Discussion Items
  - a. Current Stormwater Project
- VII. Other Business
- VIII. Adjournment

**CITY OF WHITE HOUSE**  
**Stormwater Advisory Board**  
**Minutes**  
**September 13, 2021**  
**4:00 p.m.**

I. Call to Order by Chairman

Meeting was called to order at 4:00pm by Chairman Andy Cieslak.

II. Roll Call

Ald. Clif Hutson - Present; Mr. Gerald Herman - Present; Mr. Ceagus Clark – Present; Mr. Drew Christenson – Present; Mr. Jason Barnes – Absent; Mr. Andrew Taylor – Present; Mr. Andy Cieslak – Present; **Quorum – Present.**

III. Adoption of the Agenda

Motion was made by Mr. Christenson, second by Mr. Clark to approve the agenda. A voice vote was called for with all members voting aye. **Motion passed.**

IV. Approval of June 14, 2021 Meeting Minutes

Motion was made by Mr. Clark, second by Mr. Christenson to approve the minutes from the June 14, 2021 meeting. A voice vote was called for with all members voting aye. **June 14, 2021 minutes were approved.**

V. Reports

Motion was made by Mr. Christenson, second by Ald. Hutson to approve the reports. A voice vote was called for with all members voting aye. **Motion passed.**

VI. New Business or Discussion Items

a. Current Stormwater Project

Stormwater Manager Ajuah Jackson was present and reviewed stormwater projects that have been completed in White House since the last Board meeting.

VII. Other Business

VIII. Adjournment

**Meeting adjourned at 4:19 pm.**

**ATTEST:**

\_\_\_\_\_  
Andy Cieslak, Chairperson

\_\_\_\_\_  
Derek Watson, City Recorder

**Public Services Department – Stormwater Division  
August 2021**

**Directors Notes**

- No complaints reported regarding flooding during the 2.5 inches of rainfall from the week of August 26<sup>th</sup>.
- Bid awarded to Scott and Ritter for the Springbrook Drainage Improvement project. Notice to Commence should be rendered within the next week or so.
- The department issued 8 fence permits during the month of August.
- Infrastructure installed within drainage conveyance at 1015 Piccadilly Drive.
- Overgrown vegetation and limbs obstructed flow were removed from Honey Run Creek.
- Curb inlet at the Soccer Complex was hydro-excavated to remove accumulated sediment and debris and exposed headwall for TDOT to further unclog ditch line.
- TDEC acknowledge receipt of stormwater permits for the WWTP expansion.
- Street Sweeping efforts are continuously being maintained along HWY 31W, HWY 76 and Tyree Springs to remedy track out for construction activity. A notice of violation with a civil penalty was issued to Brad Edwards and Associates for repeat offenses.
- Rehabilitated detention pond at 408 Hunterwood Drive. Endangered species (streamside salamander) sighted and reported to TDEC.
- Word on White House excerpt submitted for publication to provide educational awareness on the purpose and benefits of a stormwater utility fee.
- Upcoming work orders include: Beechbrook Drive, Dorchester Drive, S. Palmers Chapel Rd, and Rolling Acres Drive.
- The Stormwater department completed **11 outstanding work** orders on the project list.

<b>TASK</b>	<b>PRIORI TY</b>	<b>STAR T</b>	<b>END</b>	<b>% COMPLET E</b>	<b>EXPENS E</b>	<b>WORK ORDER</b>	<b>HOU RS</b>	<b>NOTES</b>
<b>408 Hunterwo od Drive</b>	HIGH	7/27/20 21	8/17/20 21	100%	\$ 6,622	72721002	323.7 5	installed French drain system to mitigate flooding
<b>1015 Picadilly Drive</b>	MED	8/19/20 21	8/23/20 21	90%	\$ 1,127	81221005	30	retrofit existing conveyan ce with infrastruct ure
<b>114 Cranor Drive</b>	LOW	7/6/202 1	8/18/20 21	75%	\$ 1,227	70121009	88	installed driveway culvert and rehabilitat ed conveyan ce along right-of- way
<b>725 Industrial Drive</b>	MED	8/20/20 21	8/22/20 21	100%	\$ 192	81921004		mow wastewat er ponds at treatment facility

**Public Services Department – Stormwater Division  
August 2021**



<b>2760 US 31W</b>	LOW	8/3/2021	8/26/2021	100%	\$ 1,490	80321001	1	hydro excavate curb inlet to remove blockage of sediment
<b>300 Autumnwood Drive</b>	MED	7/6/2021	7/20/2021	100%	\$ 1,562	70121012	24	excavate excessive buildup in swale to allow positive drainage
<b>Villas at Honey Run Springs</b>	HIGH	8/23/2021	8/23/2021	100%	\$ 969	82321005	3	emergency response to track out at construction site
<b>Springbrook Drainage Improvement (Copperfield Ct)</b>	MED	9/13/2021	10/31/2021	5%	\$ 298,056	CIP		upgrade existing 24" pipe to 30" infrastructure to mitigate localized flooding
<b>210 Beechbrook Court</b>	LOW	8/30/2021	9/13/2021	5%	\$ 18,399	082321003	80	outfit infrastructure (30", 18", and 15") to discharge to creek; repair scour and erosion along channel

**Public Services Department – Stormwater Division  
August 2021**

**Stormwater Work Orders**

Our objective is to establish and maintain a proactive approach to minimize any potential for localized flooding within City limits. This includes but is not limited to ditch maintenance. In addition, a large part of this objective is to respond to citizen complaints in a timely manner.

Below are the work order requests and summaries that have been completed for the month of April:

<i>Address</i>	<i>Scope of Work</i>	<i>Status</i>	<i>Notes</i>
<b><i>Honey Run Springs</i></b>	Street sweeping: NOV issued	Work Order: <a href="#">082321005</a>  <b>Complete</b>	
<b><i>725 Industrial Drive</i></b>	Routine mowing of wastewater ponds	Work Order: <a href="#">081921004</a>  <b>Complete</b>	

Public Services Department – Stormwater Division  
August 2021

<p><i>Honey Run Creek</i></p>	<p>Stream cleanup: removal of overgrown vegetation</p>	<p>Work Order: <a href="#">081821005</a>  Complete</p>	
<p><i>1015 Piccadilly Drive</i></p>	<p>Install infrastructure in drainage coveyance</p>	<p>Work Order: <a href="#">081221005</a>  Complete</p>	
<p><i>2760 US-31W</i></p>	<p>Unclogged storm drain @ soccer complex</p>	<p>Work Order: <a href="#">080321001</a>  Complete</p>	



Public Services Department – Stormwater Division  
August 2021

*Mascot -  
Stormwater*

Public  
education and  
outreach

Work Order:  
Not Assigned  
Complete



*207 S Aztec Ct.*

Citizen  
request  
reimbursement  
for post-storm  
damage to  
fence

Accela:  
10585201  
Denied



*Vac truck*

Demo – 502  
Equipment

Work Order:  
Not Assigned  
Complete





**Public Services Department – Stormwater Division  
August 2021**

*Parks and  
Legacy Farms*

Open trench  
inspection

Work Order:  
Not Assigned  
  
Complete



**RIGHT-OF-WAY MOWING**

Monthly

Work Order #	Type of SCM	Location:	Date:
<u>081921004</u>	Detention Pond	Industrial Drive	08/20/2021

**SWEEPER LOGS**

Monthly

4 cu.yd hopper/ actual usage- 3.0 cu.yd=4.5 tons

Date	Time	Mileage	Tons	Subdivision / Street
08/02/2021	12	22	6	Highway 76, College St., Loves Ln.
08/03/2021	18	56	6	Holly Tree, Pinson Rd, Magnolia Village
08/23/2021	16	30	6	Briarwood, Heritage Farms, 31W
08/25/2021	11	18	2	Covington Heights
08/30/2021	2	13	1	Soccer Complex
<b>Totals:</b>	<b>59</b>	<b>139</b>	<b>21</b>	

## Stormwater Project List FY20-21

Our objective is to establish and maintain a proactive approach to minimize any potential for localized flooding within City limits. This includes but is not limited to ditch maintenance, right of way mowing, and infrastructure

improvements. In addition, a large part of this objective is to respond to citizen complaints in a timely manner.

Please be advised that this is

an operative working list. It is organized to transition based on feasibility and severity. This list is subject to change.

### LEGEND

PURPLE	No further issues discovered or owner declined service
GREEN	Work order completed
YELLOW	Proposed capital improvement project
RED	Outstanding or not started
ORANGE	Unidentified scope or on hold pending hydraulic analysis or
BLUE	In progress or scheduled

Address	Scope of Work	Status	Comments / Notes
612 Calista Rd.	Re-channel ditch line to divert water off property with infrastructure	<input checked="" type="checkbox"/> Complete Date: 10/05/20 <input checked="" type="checkbox"/> Photos	WO: 08312005: The team had to remove an existing headwall at the cross drain to connect to the infrastructure and set a junction box to also intercept a newly installed cross drain from the neighborhood of Fields of Oakwood. After the team removed the 24" headwall from Calista's cross drain, we connected 4 feet of 24' RCP and inserted into the junction box. Then the team connected 20' of 15" to the cross drain from fields of Oakwood and inserted it into the junction box. Then 104' of the 24" discharge line was installed to carry the storm water east into the property to discharge off site into a channel that was developed per plans by Land Development for the neighborhood of Fields of Oakwood.
212 Hillwood Dr.	Establish swale off driveway to channel water downstream	<input checked="" type="checkbox"/> Complete Date: 12/14/2020 <input checked="" type="checkbox"/> Photos	Extended existing driveway pipe to divert runoff from property
120 Strassle Dr.	Repair damages in infrastructure; upgrade piping	<input checked="" type="checkbox"/> Complete Date: 12/15/2020 <input checked="" type="checkbox"/> Photos	The team removed the concrete box and a 20' section of the 24" pipe and replaced with 1 24" Nyloplast drop inlet and 17' of 24" HDPE pipe with 3 24" couplers. The team took extra precautions with a soil tight seal at each joint with the couplers

			<p>by installing a section of 6 oz geotextile fabric around the joints to ensure that soil could not enter the infrastructure. The pipe and structure was bedded in 3/4" stone and backfilled with the same sized stone to support the pipe to the spring line/ hunch and then backfilled with soil to existing grade.</p> <p>The team imported 10 tons of 3/4" stone and exported 1.5 loads of excess soil then stabilized with contractor blend seed and mulched with 5 bales of straw and 1 roll of straw matting.</p>
212 Morgan Trace Ct.	Divert inflow to existing drainage system	<input checked="" type="checkbox"/> Complete Date: 08/27/2020 <input checked="" type="checkbox"/> Photos	<p>work order number 082420001</p> <p>The team began their operation by removing thick vegetation and trees to gain access to the conveyance and detention pond. After removing all the undergrowth and trees, the team discovered that there was several rock check dams and silt fence still in place in the conveyance and alongside the detention area from development of the site and was successfully removed in order to allow the watershed to be continuous to the outfall structure. After the team regraded the conveyance, pond banks and the rear property of 212 (behind porch) with imported topsoil, all bare areas were stabilized with seed along with double net straw matting on the slopes and loose straw on the flat areas.</p>
3123 Pleasant Grove Rd	Install 2 turn lanes at intersection of Hwy 76	<input checked="" type="checkbox"/> Complete Date: 08/15 <input checked="" type="checkbox"/> Photos	Curb and gutter to be installed week of 09/30 followed by paving
112 Ravenwood Ct.	Repair damages in infrastructure; address disjoints	<input checked="" type="checkbox"/> Complete Date: 11/24/20 <input checked="" type="checkbox"/> Photos	Alleviate potholes in soil; seal inlet pipe to catch basin
107 Copperfield Dr	Upgrade piping size in infrastructure to better	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Springbrook Subdivision – CCTV line requested; ongoing; scheduled for FY21-22 CIP

	convey runoff		
612 Sage Rd	Remove excess soils in drainage conveyance	<input checked="" type="checkbox"/> Complete Date: 11/10/20 <input checked="" type="checkbox"/> Photos	Up to Hampton Village
2500 HWY 31W	Repair drainage pipe for Super Stop Market	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Owner must order parts. City will perform labor. Several attempts to contact owner and initiate project no response
164 Honeysuckle Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 02/08/2020 <input checked="" type="checkbox"/> Photos	Northwoods Catch basin cleaning Excavated sediment from inlet; verified positive flow (3") between inverts; ditch line rehabilitated and seeded with straw for repair
122 Sycamore Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 05/05/20 <input checked="" type="checkbox"/> Photos	We excavated the buildup material that was restricting the flow that and preventing the full use of volume for the storm drain infrastructure.
209 Rolling Acres Dr	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Northwoods
215 Rolling Acres Dr	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Northwoods
301 Rolling Acres Dr	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Northwoods
102 Rolling Forrest Dr	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Northwoods
102-109 Bridlewood Dr.	Re-define swale in back yards	<input checked="" type="checkbox"/> Complete Date: 04/20/21 <input checked="" type="checkbox"/> Photos	ID <a href="#">042021002</a> Excavated ditch to appropriate slope from Laura Dr. to Bridlewood. Grade work to move material 16.5 " in 275' and stabilized.
341 Allers Dr	Rehabilitate cross drain/easement	<input checked="" type="checkbox"/> Complete Date: 04/28/2020 <input checked="" type="checkbox"/> Photos	WO:# 042320009 - Regraded ditch line for positive flow fill in and compacting washout locations. all excess soil extracted and reused to create earth berms on either side of ditch line
408 Hunterwood Dr	Rehabilitate detention pond	<input checked="" type="checkbox"/> Complete Date: 08/23/2021 <input checked="" type="checkbox"/> Photos	Restructure detention pond for positive drainage; grade work to allow discharge at outfall

Commented [AJ1]: WILL RESOLVE ONCE CONTACTED BY OWNER

160 Blueberry St	Ditch cleaning	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Orchard Park; offsite improvement for future development; propose to CSR
100 Baylee Ct	Upgrade drainage pipe; improve swale	<input checked="" type="checkbox"/> Complete Date: 04/16/20 <input checked="" type="checkbox"/> Photos	Off of SPC; upgraded 4" to 18" divert to existing infrastructure
125 Brooklawn Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 05/24/21 <input checked="" type="checkbox"/> Photos	Installed earth berm
110 Beechbrook Ct	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Off of SPC; ditch cleaning entire roadway
218 South Palmers Chapel	Install catch basin within ROW	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	SPC; incorporate within Springbrook plan submittal
149 Willowleaf Lane	Improve watershed; flooding from open field behind property	<input checked="" type="checkbox"/> Complete Date: 05/24/21 <input checked="" type="checkbox"/> Photos	ID <a href="#">052421001</a> Earth berm to divert in line flow to house from off site to property line drainage easement. Imported 2 loads of topsoil. Graded back of property to divert watershed. Seed and straw to stabilize.
103 Spicer Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 02/09/20201 <input checked="" type="checkbox"/> Photos	Conveyance excavated in ROW to existing invert elevation from culvert to driveway. Excessive buildup and debris removed from cross drain. Homeowner requested soil.
100 Oak Park Ct	Improve rip rap apron by roadway	<input checked="" type="checkbox"/> Complete Date: 02/02/2021 <input checked="" type="checkbox"/> Photos	Bedrock added to culvert and established up to ground level of roadway. Repaired gully erosion at orifice of outlet structure
<del>128 Oak Park Ct</del>	<del>Redefine easement between homes to Strassle Dr</del>	<del><input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos</del>	<del>Off of Meadows Ct. Residents should remove trees in easement</del>
100 – 102 Hobbs Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 03/10/21 <input checked="" type="checkbox"/> Photos	WO# 031121002 - Culverts jetted to remove excess buildup of silt, reshaped ditch line, installed rip rap apron to slow velocity of runoff.
205 Hobbs Dr	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: _____	Ditch cleanout to inlet; Removed reel formation and positive flow to cross drain

Commented [AJ2]: OUTSIDE SCOPE OF WORK FOR CREW

		01/07/2021 <input checked="" type="checkbox"/> Photos	
401 Hobbs Dr	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Box culvert (csr report)
210 Spring St	Re-establish swale	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Install 2 catch basins and 80ft pipe
200 Covington Bend	Ditch cleaning; repair and/or clean out culvert	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	CIP
309 Covington Bend	Re-establish swale; repair and/or cleanout culvert	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	CIP
105 Winchester Ct	Rehabilitate drainage infrastructure to provide positive flow	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	WO#033020004- Extend infrastructure to outfall, negative slope; proposed piping of conveyance series
210-214 Robert Ave	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 03/23/21 <input checked="" type="checkbox"/> Photos	WO #: 030321001 - Removed built up material from culverts and drainage conveyance and installed 4 tons of class A for a rip rap apron, with fabric, at discharge point from the cul-de-sac. 03/23/21 - back-filled exposed fiber line 03/23/21- Jetted culverts as needed.
214 Eastside Dr	Improve drainage and rehabilitate ditch line	<input checked="" type="checkbox"/> Complete Date: 11/18/20 <input checked="" type="checkbox"/> Photos	Installed and Elevated driveway culvert of property to reduce impact of flow from cross drain; concrete driveway replaced
125 Villages Ct	Clean inlet channel and fill in ditch line as necessary	<input checked="" type="checkbox"/> Complete Date: 09/21/20 <input checked="" type="checkbox"/> Photos	Created an open channel for drainage; removed vegetation to allow natural flow of stream
207 S Aztec Dr	Redefining ditch. Remove trees from 211 affecting drainage pathway	<input checked="" type="checkbox"/> Complete Date: 02/03/21 <input checked="" type="checkbox"/> Photos	Work Order # 010721001 The conveyance generates a significant amount of watershed and creates high velocity runoff. The effects of this watershed had eroded the swale creating voids and undermining the properties fencing in the area.



			The conveyance was excavated and Rip rap sized stone installed to control the velocity. The disturbed areas were stabilized with double net straw matting and baled straw with seed.
318 Walnut Ct	Re-establish swale and ditch cleaning	<input checked="" type="checkbox"/> Complete Date: 12/17/2020 <input checked="" type="checkbox"/> Photos	Work Order: 113020006 the pipe downstream from the culvert was undersized and restricting the flow rate causing the back flow. The team began to cut in a swale located on the left of the property from the driveway culvert to the wet weather conveyance, operating in the designated easement associated with this parcel. The Team was able to use the excavated soil from the newly installed conveyance system onsite to assist the homeowner with voids in the rear of the property and to provide the option to the property owner to use the soil as needed.
100 Heritage Dr	Re-establish swale and extend wing wall	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	
303 Hillwood Dr	Re-establish swale and apply rip rap to prevent wash outs	<input checked="" type="checkbox"/> Complete Date: _____ <input checked="" type="checkbox"/> Photos	
109 Meadows Ct	Re-establish swale and ditch cleaning	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	Conjunction with hickerson/Wilkinson CIP
302 Valley View Rd	Install ROW drainage pipe between lots to alleviate open ditch	<input checked="" type="checkbox"/> Complete Date: 6/02/20 <input checked="" type="checkbox"/> Photos	The stormwater received a request to install drainage pipe in a conveyance to connect two driveways together and eliminate the open conveyance. Once lines were lowered we installed 36" HDPE drainage pipe and connected it to the existing culverts, backfilled half of the pipe with 1 load ¾" stone and imported 2 loads of Topsoil, graded and seed and straw bare soils. Installed a bag of concrete on damaged area drain grate to

			secure it to the infrastructure.
<b>Wilkinson/ Hickerson Dr</b>	Ditch cleaning; upgrade infrastructure	<input type="checkbox"/> Complete Date: _____ <input type="checkbox"/> Photos	
<b>121 Industrial Dr</b>	Re-establish swale	<input checked="" type="checkbox"/> Complete Date: 04/06/20 <input checked="" type="checkbox"/> Photos	Ease driveway flooding; 4 hours of Labor for 3 employees Dump Truck (removed 2 loads of fill material) Excavator 100' of ditch for double netting straw matting w/ 5 lbs. of contractor blend seed
<b>7016 Indian Ridge Blvd</b>	Create conveyance within ditch to prevent erosion	<input checked="" type="checkbox"/> Complete Date: 11/23/20 <input checked="" type="checkbox"/> Photos	102720001: Displace velocity of runoff; ditch rehabilitated from HW to existing concrete channel to offset erosion. The team began operations by trimming low lying branches from trees in the conveyance and then excavated the ditch line down 18 inches and 4 feet wide, 6-inch sides to anchor the 6 oz geo-textile fabric, and Installed 22 tons of Class A stone to displace the velocity being discharged into the conveyance. The bare soils after installation were seeded and straw
<b>229 Cherry Ln</b>	Repair voids in soil and damaged underground infrastructure	<input checked="" type="checkbox"/> Complete Date: 05/06/21 <input checked="" type="checkbox"/> Photos	ID <a href="#">090820007</a> : Excavated pipe and wrapped couplers with 4 oz geotextile fabric to prevent any soils from entering the infrastructure causing the voids in the yard. Pipe was found to have a separation from the coupler installed. Backfilled with the native soil and the team will import topsoil to preform the finish grade work when weather allows.
<b>403 Autumn Wood Dr</b>	Define swale at culvert orifice; backfill sinkholes in front yard	<input checked="" type="checkbox"/> Complete Date: 04/08/21 <input checked="" type="checkbox"/> Photos	ID <a href="#">040521007</a> : removed the built up material from the conveyance and placed the excess material in a void in the homeowners yard per their request.stabilized the bare areas with seed a, straw and matting. discovered a 10" pvc pipe placed between the two

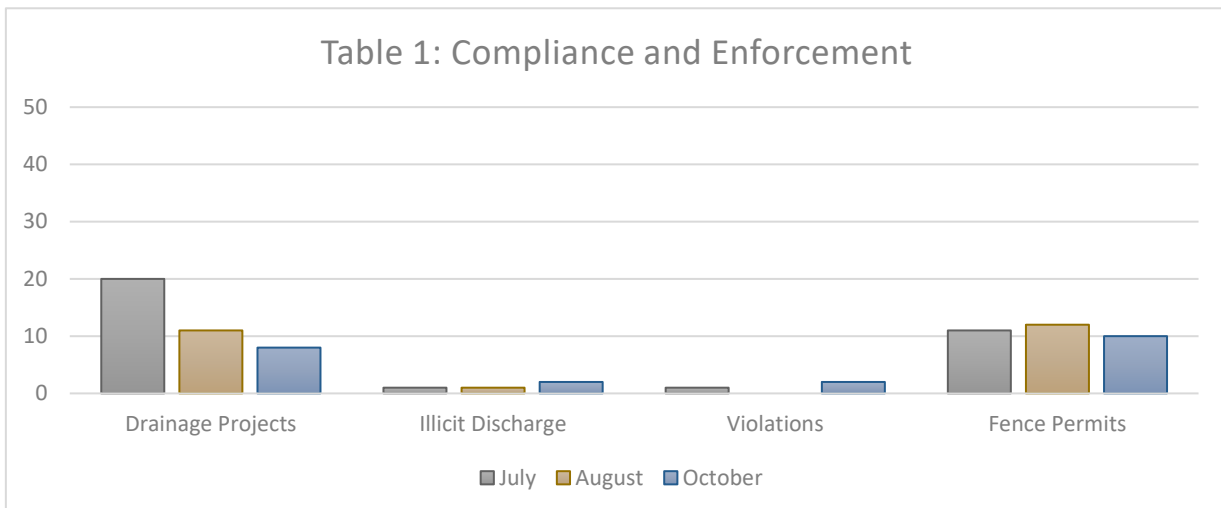
			drives to connect the 15' pipe culverts which was removed; Jetting culverts on 4/06; WHUD found leak on 05/24 and uncovered water meter.
538 NPC Rd.	Eroded embankments of creek impacting integrity of driveway	<input checked="" type="checkbox"/> Complete Date: 01/07/21 <input checked="" type="checkbox"/> Photos	The team removed the tree debris from along the conveyance that had been collecting at or near the culvert invert causing a blockage to the outfall. The blockage resulted in the water beginning redirected to sides of the culvert causing the soil material to become more susceptible to eroding. After the team removed the debris from the conveyance and exported 3 loads of material, the team imported 2 loads of compactable fill material to repair the void above the culvert. The team placed, compact the soil and stabilized the bank with seed and double net straw matting and lose straw.
309 Valley View Dr	Rehabilitate channel	<input checked="" type="checkbox"/> Complete Date: 04/12/21 <input checked="" type="checkbox"/> Photos	ID <a href="#">041221003</a> : Removed vegetative and aggregated undergrowth from channel. It is recommended to extend concrete flume.

**Public Services Department – Stormwater Division  
September 2021**

**Administrative Notes**

- No complaints reported regarding flooding during the 2.5 inches of rainfall from the week of August 26th.
- The department issued 10 fence permits during the month of September.
- Infrastructure installed within drainage conveyance at 1015 Piccadilly Drive.
- Overgrown vegetation and limbs obstructed flow were removed from Honey Run Creek.
- Curb inlet at the Soccer Complex was hydro-excavated to remove accumulated sediment and debris and exposed headwall for TDOT to further unclog ditch line.
- TDEC acknowledge receipt of stormwater permits for the WWTP expansion.
- Street Sweeping efforts are continuously being maintained along HWY 31W, HWY 76 and Tyree Springs to remedy track out for construction activity. A notice of violation with a civil penalty was issued to Brad Edwards and Associates for repeat offenses.
- Rehabilitated detention pond at 408 Hunterwood Drive. Endangered species (streamside salamander) sighted and reported to TDEC.
- Word on White House excerpt submitted for publication to provide educational awareness on the purpose and benefits of a stormwater utility fee.
- Springbrook drainage project is *delayed* due to nationwide material shortage. Estimated 10-12 weeks for pipe.
- A notice of violation with civil penalty has been issued for two illicit discharges; One to Bojangles for sanitary sewer overflow into a storm drain and another to Tennessee Construction Associates for a color contrast to surface water on Portland Rd/Tyree Springs Rd.
- We have received 2 drainage complaints: 307 Tyree Springs Rd and 910 Meadowlark. All driveways are compromised with excess sediment buildup and pine needles. Work would require a swale or rip rap apron for stabilization and proper flow. Residents are experiencing excessive ground saturation but no flooding.
- The stormwater department applied for a grant: Arbor Day Foundation.
- TDEC Annual report was submitted on September 21st detailing our programs progress for this fiscal year. We have an expected audit in 2023.
- The City has requested demos for budgetary quotes on the following capital items: street sweeper, vac truck and box culverts at Hobbs/Villages/Apache.
- The City inspected 2 civil disputes in which a pipe is diverting flow on the downstream property at 1021 Briarwood Drive and 216 Eastside Drive.
- A notice of noncompliance via email was issued to The Reserve at Palmers Crossing due to failure to maintain erosion and sediment controls. Mud and debris were observed on the greenway.

**Table 1: Compliance and Enforcement**

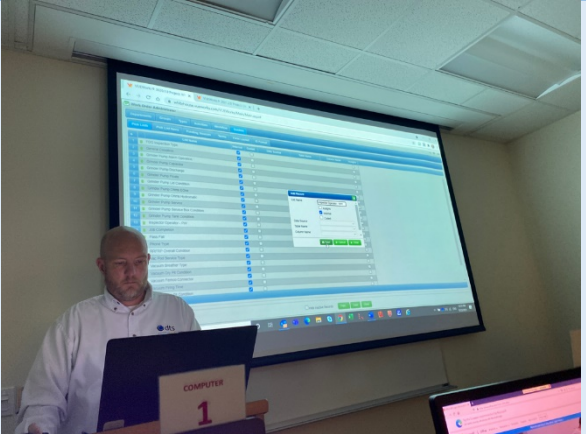



**Public Services Department – Stormwater Division  
September 2021**

**Stormwater Work Orders**

Our objective is to establish and maintain a proactive approach to minimize any potential for localized flooding within City limits. This includes but is not limited to ditch maintenance. In addition, a large part of this objective is to respond to citizen complaints in a timely manner.

Below are the work order requests and summaries that have been completed for the month of April:

<i>Address</i>	<i>Scope of Work</i>	<i>Status</i>	<i>Notes</i>
<b><i>VueWorks</i></b>	Training: Updated asset management and work order systems	Work Order: 092421008  <b>Complete</b>	
<b><i>209 Cardinal Drive</i></b>	Repaired drainage conveyance	Work Order: 092321003  <b>Complete</b>	

Public Services Department – Stormwater Division  
September 2021

***Tyree Springs  
Road***

Illicit  
Discharge

Work Order:  
092021002

**Complete**



***223 Rolling  
Acres Dr.***

Drainage  
Mitigation

Work Order:  
091421006

**Complete**



***514 TN-76***

Bojangles –  
sanitary  
sewer  
overflow

Work Order:  
090921004  
**Complete**





Public Services Department – Stormwater Division  
September 2021

*202 Dorchester Drive*

Repair washouts and ruts in residential front yard

Work Order:  
090221009

Complete



*Street Sweeping*

City Limits

Work Order:  
090221006

Complete



**Public Services Department – Stormwater Division  
September 2021**

<u>Stormwater Division</u>					
<b>Total Hours Worked</b>	<b>FY 15/16</b>	<b>FY 19/20</b>	<b>31-Aug</b>	<b>30-Sept</b>	<b>YTD 20/21</b>
<b>Stormwater</b>	5,744	7,204	931	933	13,852
<b>Work Orders</b>	0	69	11	8	197
<b>Overtime</b>	508.5	262	0	0	185
<b>Facility Maintenance</b>	3,494	638	89	99	790
<b>Fleet Maintenance</b>	1,034	314	72	106	992
<b>Administrative</b>	385	1,138	193	176	2,395
<b>Drainage Work (feet)</b>	0	3,988	410	175	8,038
<b>Drainage Man Hours</b>	0	1,371	291	161.5	4,031
<b>Debris Removed Load</b>	0	188	8	5	224
<b>Sweeping Man Hours</b>	0	309	62	54.5	528
<b>Mowing Hours</b>	0	102	22	24	460
<b>R-O-W Hours</b>	0	1,506	0	0	45
<b>Shoulder/Curb Hours</b>	0	0	0	0	40

**Public Services Department – Stormwater Division  
September 2021**

**RIGHT-OF-WAY MOWING**

Monthly

<b>Work Order #</b>	<b>Type of SCM</b>	<b>Location:</b>	<b>Date:</b>
<a href="#"><u>092321003</u></a>	Swale	Cardinal Drive	09/23/2021
<a href="#"><u>091421006</u></a>	Swale	Rolling Acres Dr	09/13/2021

**SWEEPER LOGS**

Monthly

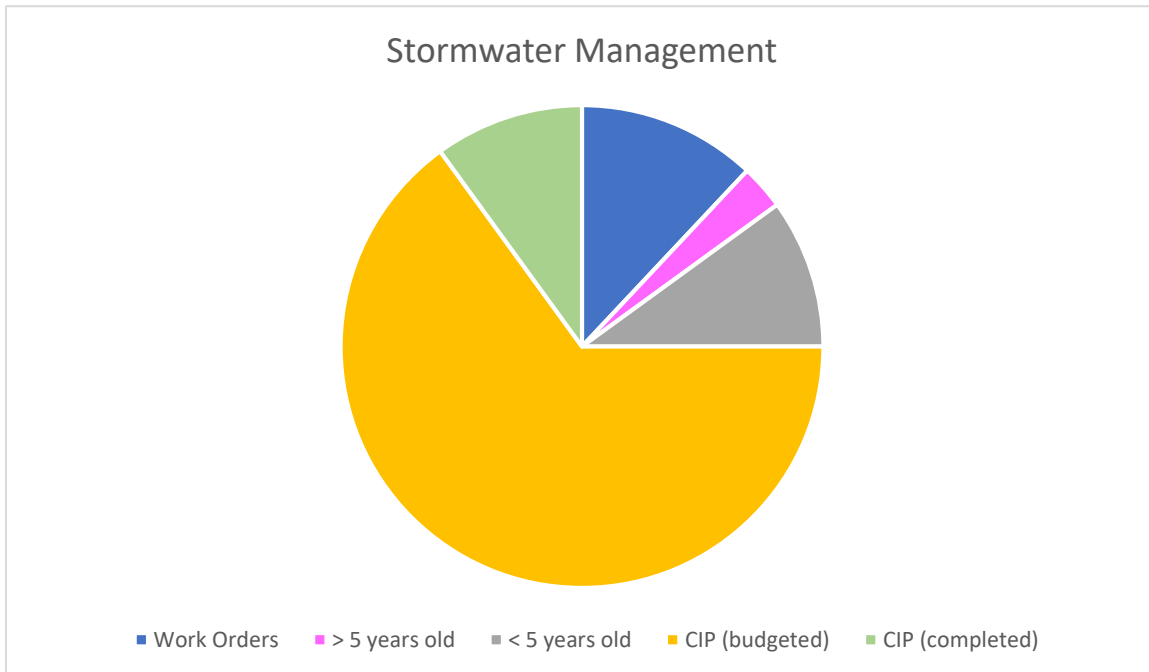
4 cu.yd hopper/ actual usage- 3.0 cu.yd=4.5 tons

<b>Date</b>	<b>Time</b>	<b>Mileage</b>	<b>Tons</b>	<b>Subdivision / Street</b>
09/01/2021	6	25	8	Magnolia Village, Covington Heights, Northwoods
09/02/2021	6	23	8	Morgan Trace, Tison Ln, Springbrook, Meadowbrook
09/07/2021	7.5	30	6	Kensington Bend, Northwoods, Orchard Park
09/08/2021	7	28	8	Hampton Village, Sage Rd
09/09/2021	7	20	8	Indian Ridge, Hwy 31W
09/27/2021	7.5	20	2	Indian Ridge
<b>Totals:</b>	<b>41</b>	<b>146</b>	<b>40</b>	

**Public Services Department – Stormwater Division  
October 2021**

**Administrative Notes**

- Two (2) complaints reported regarding flooding during rain event on October 27<sup>th</sup>. 135 Villages Ct and 311 Hobbs Dr. This is an ongoing issue. Upgrades to box culvert are scheduled on 6-year CIP for the department.
- Materials for Springbrook CIP are backordered. ETA for delivery is 4th week of November or 1st week in December. Residents updated of standby via letter/email. Pre-con meeting is scheduled for December 6<sup>th</sup>.
- Request for civil plans and bid package through CSR for Wilkinson has been submitted.
- Stormwater facility location approved by Planning Commission. Building design is underway. 3<sup>rd</sup> capital improvement intended for fiscal year 21-22.
- Completed work orders include:
  - o 112 Tison Lane – mowing and excavation of debris in wet weather conveyance
  - o Stephanie Dr – installed concrete headwall at intersection of Meadowlark Lane
- One (1) employee incident reported: employee was exposed to poison ivy, with an extreme side effect of excessive skin irritation. No work missed.
- Three fence permits were issued at 140 Crabourne, 317 Hwy 76 and 3378 Brokeshire Drive during this reporting period.
- The City of White House was nominated for the National Municipal Stormwater and Green Infrastructure Award for Phase 2 Innovation.
- The city received one complaint of flooding through the app at 113 Whitehaven Circle behind WH Heritage Elementary School. Hydraulic analysis proposed.
- Upcoming work orders include: 106 – 112 Beechbrook Ct., and 403 Rolling Acres Dr.




**Public Services Department – Stormwater Division  
October 2021**

**Stormwater Work Orders**

Our objective is to establish and maintain a proactive approach to minimize any potential for localized flooding within City limits. This includes but is not limited to ditch maintenance. In addition, a large part of this objective is to respond to citizen complaints in a timely manner.

Below are the work order requests and summaries that have been completed for the month of April:

<i>Address</i>	<i>Scope of Work</i>	<i>Status</i>	<i>Notes</i>
<b><i>135 Villages Ct.</i></b>	Remove accumulated debris from channel to reduce flooding impact	Work Order: 102821008  <b>Complete</b>	
<b><i>725 Industrial Drive</i></b>	Bi-Monthly Safety Inspection	Work Order: 102821003  <b>Complete</b>	
<b><i>427 Industrial Drive</i></b>	Fleet Maintenance	Work Order: 102721008  <b>Complete</b>	

Public Services Department – Stormwater Division  
October 2021

*Stephanie Drive*

Headwall repair

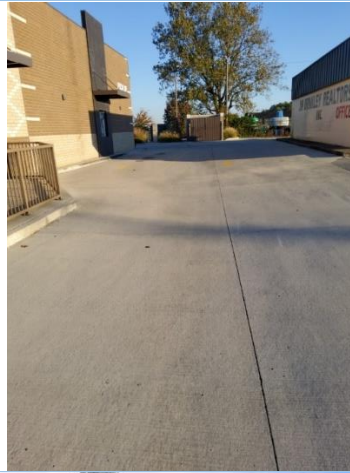
Work Order:  
102521003  
**Complete**



*640 TN-76*

ERU review

Work Order:  
102121003  
**Complete**



*112 Tison Lane*

R-O-W mowing

Work Order:  
101921001  
**Complete**



*211 Kiowa Ct*

Preventative Maintenance

Work Order:  
101421003  
**Complete**





**Public Services Department – Stormwater Division  
October 2021**

<u>Stormwater Division</u>					
<b>Total Hours Worked</b>	<b>FY 15/16</b>	<b>FY 19/20</b>	<b>30 – Sept</b>	<b>31 – Oct</b>	<b>YTD 20/21</b>
<b>Stormwater</b>	5,744	7,204	933	915	14,767
<b>Work Orders</b>	0	69	8	11	197
<b>Overtime</b>	508.5	262	0	19	204
<b>Facility Maintenance</b>	3,494	638	99	72	889
<b>Fleet Maintenance</b>	1,034	314	106	92	1,190
<b>Administrative</b>	385	1,138	176	219	2,614
<b>Drainage Work (feet)</b>	0	3,988	175	283	8,321
<b>Drainage Man Hours</b>	0	1,371	162	94	4,125
<b>Debris Removed Load</b>	0	188	5	8	232
<b>Sweeping Man Hours</b>	0	309	55	58	586
<b>Mowing Hours</b>	0	102	24	36	496
<b>R-O-W Hours</b>	0	1,506	0	0	45
<b>Shoulder/Curb Hours</b>	0	0	0	0	40

**Public Services Department – Stormwater Division  
October 2021**

**RIGHT-OF-WAY MOWING**

Monthly

<b>Work Order #</b>	<b>Type of SCM</b>	<b>Location:</b>	<b>Date:</b>
<a href="#"><u>101921001</u></a>	Detention Pond	Shady Lane	10/19/2021
<a href="#"><u>101321001</u></a>	Retention Pond	Calista Road	10/13/2021

**SWEEPER LOGS**

Monthly

4 cu.yd hopper/ actual usage- 3.0 cu.yd=4.5 tons

<b>Date</b>	<b>Time</b>	<b>Mileage</b>	<b>Tons</b>	<b>Subdivision / Street</b>
10/05/2021	7	23	3	Highway 76 and 31W
10/07/2021	5	18	4	Briarwood, Cliff Garrett, Garland Ct., 31W
10/12/2021	8	35	3	Holly Tree, Hillwood, Longview, Northwoods
10/21/21	10	22	3	Calista Rd, Bill Moss Rd
<b>Totals:</b>	<b>30</b>	<b>138</b>	<b>13</b>	

# STORMWATER PROJECT LIST

Project Start  Totals Budget \$ 732,414 Actual 1,063,984 Act.Hours 645.25

TASK	OWNER	PRIORITY	START	END	% COMPLETE	DONE	BUDGET	Work Order	ACTUAL HOURS	NOTES
<b>PROJECT TITLE</b>						<input type="radio"/>	\$9,167.97			
408 Hunterwood Drive	Dorothy Montao	HIGH	7/27/2021	8/17/2021	100%	<input checked="" type="checkbox"/>	\$6,621.70	72721002	323.75	installed french drain system to mitigate flooding
1015 Picadilly Drive	Mildred Burton	MEDIUM	8/19/2021	8/23/2021	100%	<input checked="" type="checkbox"/>	\$1,127.03	81221005	30	retrofit existing coveyance with infrastructure
114 Cranor Drive	Amanda Dunnagun	LOW	7/6/2021	8/18/2021	100%	<input checked="" type="checkbox"/>	\$1,227.12	70121009	88	installed driveway culvert and rehabilitated coveyance along right-of-way
725 Industrial Drive	COWH	MEDIUM	8/20/2021	8/22/2021	100%	<input checked="" type="checkbox"/>	\$192.12	81921004	6	mow wastewater ponds at treatment facility
2760 US 31W	Soccer Complex	LOW	8/3/2021	8/26/2021	100%	<input checked="" type="checkbox"/>	\$1,489.80	80321001	1	hydro excavate curb inlet to remove blockage of sediment
300 Autumnwood Drive	Brad Hill	MEDIUM	7/6/2021	7/20/2021	100%	<input checked="" type="checkbox"/>	\$1,561.94	70121012	24	excavate excessive buildup in swale to allow positive drainage
Villas at Honey Run Springs	Brad Edwards	HIGH	8/23/2021	8/23/2021	100%	<input checked="" type="checkbox"/>	\$969.03	82321005	3	emergency response to trackout at construction site
Springbrook Drainage Improvement (Copperfield Ct)	John Mechler	HIGH	9/13/2021	#####	5%	<input type="radio"/>	\$298,056.00	CIP		upgrade existing 24" pipe to 30" infrastructure to mitigate localized flooding
210 Beechbrook Court	Alex Benefield	LOW	11/1/2021		25%	<input type="radio"/>	\$18,398.80	082321003	80	outfit infrastructure (30", 18", and 15") to discharge to creek; repair scour and erosion along channel
209 Cardinal Drive	George Tharpe	LOW	9/23/2021	9/29/2021	100%	<input checked="" type="checkbox"/>	\$1,221.61	92321003	48.5	remove overgrown vegetation and expose outfall for drainage
City Limits	COWH	MEDIUM	9/1/2021	9/30/2021	100%	<input checked="" type="checkbox"/>	\$704.84	9221006	41	monthly street sweeping log
						<input type="radio"/>				
						<input type="radio"/>				
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