

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville TN 37243 1-888-891-8332 (TDEC)

Compliance Inspection for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Site/Project Name:	Memphis Regional N			Megasite WWTP and Emergency		NPDES Tracking Number:			TNR122630	
Site/Project Name.	Eff	fluent Lagoon				Date Coverage was Issued:			6-20-22	
Street Address or	Street Address or West of Fredonia Loop Road, south of Keeling Road				Start Date:			6-1-2022		
Location:	vvest of Fredonia Loop Road,			South of Reeling Road		Estimated End Date:			12-21-2023	
Site	Site Construction of WMTP and				amargancy attluant lagoon 🖳		Latitude (dd.dddd):		35.4334385	
Description:			· · · · · · · · ·	Lon		ongitude (-dd.dddd):			-89.4713148	
County(ies): Haywood		EFO: Jackson MS4 Ju		irisdiction [.]		Acres Disturbed:			39.01	
3 . , ,					Te	otal Acres	<u>:</u>			
Name of Permittee (Developer/Operator):	Ме	gasite Authority	of West T	N						
Name of Official Contact: Clay Bright			Email: clay.bright@tn.gov				Contact Phone:			
Address: 312 Rosa L. Par	rks A	Ave		City: Nashville				State: TN	Zip: 37243	
Construction Phase:	_	Site preparation	Grad	-	⊠ Final	Stabilizatio	on			
Inspection Purpose:		Routine Foll	ow-up	Complaint NOT						
			201 15			Yes	No		omments	
Have all construction acti	vitie	es stopped and /	0% unifor	m permanent cover es	tablished	d? X	\boxtimes	See Con	nments below	
						Yes	No	Co	mments	
Notable impacts to wat	ers	as a result of si	te activit	ies/discharges?						
Evidence of insufficient	ly tr	reated stormwa	ter disch	arges at outfall locati	ons?		\boxtimes	See Con	nments below	
Evidence of structural EPSC measure failure/absence?							\boxtimes	See Con	See Comments below	
Evidence of non-structural EPSC measure failure/absence?							\boxtimes	See Con	See Comments below	
Unauthorized discharges?							\boxtimes	See Con	nments below	
Evidence of offsite impacts?							\boxtimes			
Evidence of construction buffer disturbance?									NA	
Compliance Evaluation: A				or follow-up - date: (email, letter, inspection	 on, etc.) -	- date:				
						Yes	No	Co	mments	
Are copies of the SWPPF	8 i	inspection repo	rts on sit	e or made available?						
Has SWPPP been impler	nen	ted & satisfacto	ry?							
Are 2/week inspections b	eing	g performed?								
Are inspection reports completed & signed?										
Are inspection reports filled out by a qualified EPSC inspector?										
Compliance Evaluation: A	ny N	N = recommend	follow-up	(email, letter, inspectio	n, etc.) d	ate:	-			
						Yes	No	Co	mments	
Are there ARAP violations or unauthorized stream/wetland alteration?									NA	
Compliance Evaluation: Y	= p	erform follow-up	ARAP ins	spection - date:						
Notes: See comments be	elow	I								
On-Site Contact (if availabl	le)									
On-Site Contact Name (Pri	_	On-Site C	ontact Tit	le:	Signatui	re:			Date:	
TDEC Personnel/Information	on	•					EF	O: Memphis	EFO	
Inspector's Name (Print):			Gully Brand	li		nte: 3/27/24 8383 Wolf Lake Driv ne: 1:30pm Bartlett, TN 38133				
Joellyn Brazile		Signature	<u>:</u> U		Time: 1:				IN 38133	

CN-1067 (Rev. 26MAR19) RDA 2366

Comments:

Routine compliance inspection conducted by DWR staff Joellyn Brazile, Gregg Overstreet and Kaylee Sabo. Meg Anderson from Brasfield & Gorrie accompanied DWR staff on-site.

Emergency Effluent Lagoon

Project area appeared mostly completed. Lagoon has been constructed and stabilized with vegetation (photo 1). Matting was installed along top of slope. Access road along top of crest covered with gravel. Minor bare areas noted, for example adjacent to spillway (photo 2). No rill or gully formation observed during inspection, but area should continue to be monitored to ensure sufficient stabilization remains to prevent sediment migration and rill/gully formation. Inspections in this area can be reduced to once/month until sufficient perennial vegetative cover is achieved and documented. Once area achieves permanent stabilization (perennial vegetative cover) inspections of the area can cease.

WWTP

Most of project area is under construction. Sediment basin installed on northern edge of the site needs maintenance. Porous baffles are installed within the eastern and western forebays, but forebays appear to be beyond 50% capacity with sediment accumulation (photos 3-4). Area surrounding sediment basin including banks/berm are not stabilized, which allows for internal sediment migration. Minor amount of sediment accumulation and sediment-laden water observed at Outfall 1 (photo 5). Area to the east of the basin, including the stockpile of sediment is not sufficiently stabilized, allowing sediment migration towards the silt fence installed east of the basin. However, the silt fence is not accurately installed (not entrenched) and/or failing. Sediment is migrating beyond the silt fence and limits of disturbance (as shown on the EPSC plans), by passing the sediment basin. No issues noted regarding Outfalls 2 or 3.

Twice weekly inspections being conducted. SWPPP is retained on-site in an electronic format. NOC maintained on-site.

Recommendations:

- Stabilize portions of the site that are at grade and/or temporarily inactive with temporary or permanent stabilization measures.
- Ensure sediment control measures (i.e. silt fence, sediment basin) are installed and maintained until vegetative cover is fully established. Long term/permanent goal of vegetative cover is perennial vegetation.
- Ensure twice weekly inspection forms are completed and signed by the inspector as well as the primary permittee (Megasite Authority of West TN) or a duly authorized representative of the primary permittee. Inspections can be reduced to once per month in the areas of the project that are or become inactive and temporarily stabilized. Inspection requirements do not apply to definable areas that are or become permanently stabilized. Justification of reducing inspections from twice weekly to once per month should be included in the SWPPP.
- Submit written response by **April 22**, **2024**, describing the corrective actions taken in regard to the sediment basin and failing silt fence along the northern portion of the site.

Project:Memphis Regional Megasite WWTP and Emergency Effluent Lagoon

West of Fredonia Loop Road, South of Keeling Road

Site Location:

Permit No.:

TNR122630

Photo No. Date
1 3-27-24

Description

View of the emergency effluent lagoon looking north from the southern side of the lagoon.

Vegetative cover appeared to be established across much of the lagoon, including the slopes and crest. Portions of the lagoon had matting installed. The top of the crest was a gravel access road.



Photo No.	Date			
2	3-27-24			

Description

View of emergency effluent lagoon spillway. Bare soils observed at the top of the slope.



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Photo No.	Date			
3	3-27-24			

Description

View of the western end of the sediment basin located north of the WWTP. The banks of the basin were not stabilized, which allows internal migration of sediment into the basin. The forebays at the western and eastern ends of the basin were beyond 50% capacity (see close-up view in photo 4). Sediment-laden water noted within basin.



Photo No.	Date				
4	3-27-24				

Description

Close-up view of the forebay at the western end of the sediment basin. Porous baffles were installed, but forebay appeared to be filled with sediment greater than 50% capacity.



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Photo No. Date 5 3-27-24

Description

View of sediment basin discharge point at Outfall 1. Minor amount of accumulated sediment and sediment-laden water was observed downgradient of Outfall 1.



Photo No.	Date			
6	3-27-24			

Description

View of stockpile on the northern side of the site, east of the sediment basin. Stockpile was not stabilized. Sediment migration from this area was observed discharging beyond the silt fence and limits of disturbance downgradient (see photo 7).



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 Photo No.
 Date

 7
 3-27-24

Description

Drainage from the northern portion of the site including the stockpile shown in photo 6 drains to the silt fence shown in this photo. The silt fence was not installed properly (not entrenched) and/or failing. Sediment accumulation was observed beyond the silt fence and limits of disturbance as shown on the EPSC plans. Sediment migration was towards Outfall 1, bypassing the sediment basin.

