Sankofa Wetland Park Monitoring Report

3rd Quarter of 2024

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Sankofa Wetland Park Monitoring Report
Summary of Activities: July-September 2024

Monitoring Sampling Design

Environmental monitoring at the Sankofa Wetland Park began in January 2022. The sampling design consists of five monitoring locations (S1 through S5) set approximately equidistant along the mile long length of the linear park. The St. Bernard drainage ditch accessed at the bridge to the Viola Water treatment plant is also being monitored (SB), as well as a site in the Bayou Bienvenue Wetland Triangle (T2). In 2022, only sites S1 and S2 were monitored. Sites S3-S5, as well as SB and T2 were added as the wetland park was expanded in 2023. In September 2024, new sites we added at the first leaking septic pipe identified on August 7th (P1), and the second leaking septic pipe identified on August 23rd (P2), as well as at the culvert (SC) on the eastern border of the wetland park.

Location of sampling sites at the Sankofa Wetland Park (S1-S5), the Bayou Bienvenue Wetland Triangle (site T1),the St. Bernard drainage ditch (SB), Sankofa culvert (SC), and the two leaking pipes (P1 & P2).

Water quality monitoring has been carried out at the sites described above since January 2022. Every month, dissolved oxygen, conductivity, temperature, salinity, pH and total dissolved solids are measured using a handheld probe at each monitoring location. Every three months, water samples are collected for nutrient (NO_2+NO_3, NH_3, TN, PO_4, TP), BOD_5 and

suspended sediment (TSS), and more recently fecal coliform analysis. Samples are put on ice and transported to Pace Analytical Services in Baton Rouge for analysis.

Site visits

Results of sampling on June 20th have been received from the lab. Water samples were collected from all sites for fecal coliform, ammonia and total nitrogen analysis.

Fecal coliform concentrations were >1000 CFU/100 ml at the second pipe leak (P2), the St. Bernard drainage canal (SB) and the Sankofa culvert (SC; Table 5). The first pipe leak (P1) had a concentration of 440 CFU/100 ml. In the wetland park, fecal coliform concentrations generally increased going westward, from below detection (<5 CFU/100 ml) at site S1, 405 CFU/100 ml at site S2, 925 CFU/100 ml at site S4 and >1000 CFU/100 ml at site S3, S5 and T2.

Ammonia concentrations were highest (6.7 mg/L) at the second pipe leak (P2), followed by 5.6 mg/L in the St. Bernard drainage canal (SB), 1.9 mg/L at the Sankofa culvert (SC) and 1.3 mg/L at the first pipe leak (P1; Table 5). Ammonia concentration was 2.3 mg/L at site S1, and below detection (<0.50 and <0.10 mg/L) at the other Sankofa wetland sites and site T2.

Total Kjeldahl Nitrogen (TKN) concentrations were highest (7.1 mg/L) at the second pipe leak (P2), followed by 6.6 mg/L in the St. Bernard drainage canal (SB), 3.2 mg/L at the Sankofa culvert (SC) and 2.7 mg/L at the first pipe leak (P1; Table 5). The wetland park sites had TKN concentrations of 4.4 mg/L at site S1, 9.1 mg/L at site S2, 3.1 mg/L at site S3, 1.0 mg/L at site S4, and 1.5 mg/L at sites S5 and T2.

Results of water samples collected on June 20th, 2024.

Site	Date	Fecal Coliform (CFU/100 mL)	NH_3 (mg/L)	TKN (mg/L)	PON (mg/L)
SB	6/20/24	>1000	5.6	6.6	1.0
P1	6/20/24	440	1.3	2.7	1.4
P2	6/20/24	>1000	6.7	7.1	0.4
SC	6/20/24	>1000	1.9	3.2	1.3
S1	6/20/24	<5	2.3	4.4	2.1
S2	6/20/24	405	<0.50	9.1	9.1
S3	6/20/24	>1000	<0.10	3.1	3.1
S4	6/20/24	925	<0.10	1.0	1.0
S5	6/20/24	>1000	<0.10	1.5	1.5
T2	6/20/24	>1000	<0.10	1.5	1.5

Particulate Organic Nitrogen (PON), calculated by subtracting NH_3 from TKN, was 1.4 mg/L at the first pipe leak (P1), 0.4 mg/L at the second pipe

leak (P2), 1.0 mg/L at the St. Bernard drainage canal (SB), and 1.3 mg/L at the Sankofa culvert (SC). Concentrations in the wetland park were higher, with 9.1 mg/L at site S2, 3.1 mg/L at site S3, 2.1 mg/L at site S1, 1.0 mg/L at site S4, and 1.5 mg/L at sites S5 and T2.

Particulate Organic Nitrogen (PON) encompasses nitrogen-containing particles, such as detritus, microbial biomass, and fragments of organic matter. The concentration of PON acts as a water quality indicator, with the higher concentrations at wetland park sites S2, S3, and S1 suggesting substantial organic matter input, potentially from anthropogenic sources of organic waste. The high PON levels at these sites might necessitate installing aeration systems to prevent potential eutrophication and maintain water quality. Aeration will increase oxygen levels in the water, promoting microbial processes that convert PON into dissolved forms of nitrogen, such as ammonia or nitrate, which can then be flushed out.

In conclusion, the data indicate that certain inflow points, particularly the second pipe leak (P2) and the St. Bernard drainage canal (SB), contribute significantly to bacterial and nutrient loads into the Sankofa Wetland Park. The wetland itself shows variability in nutrient concentrations, with some areas, especially the western parts, exhibiting higher levels of fecal coliform and PON, suggesting localized sources of contamination, varying degrees of nutrient processing and/or hydrological disconnection.

July 11, 2024: Jason Day and Rob Lane traveled to the Sankofa wetland park to carry out monthly monitoring. Dissolved oxygen, conductivity, temperature, salinity and pH were measured at all of the monitoring sites using a handheld probe. An avian census was carried out by sight and sound. The staff gauge was at 77.0 cm at 10:42am.

Discrete water quality data from July 11, 2024.

Site	Date	DO (mg/l)	Cond. (mS)	Salinity (ppt)	Temp. (˚C)	pH	TDS (mg/L)
SB	7/11/24	0.3	965.1	0.5	27.3	6.7	0.6
P1	7/11/24	3.2	843.1	0.4	28.2	6.8	0.5
P2	7/11/24	0.4	942.5	0.4	27.6	6.7	0.6
SC	7/11/24	0.2	723.0	0.3	27.4	6.8	0.5
S1	7/11/24	0.5	693.1	0.3	26.5	7.3	0.4
S2	7/11/24	0.7	720.2	0.3	28.3	7.0	0.4
S3	7/11/24	3.1	735.7	0.3	28.9	7.1	0.4
S4	7/11/24	7.4	579.7	0.3	28.5	7.2	0.4
S5	7/11/24	1.4	743.4	0.4	28.1	6.8	0.5
T2	7/11/24	10.6	1869.0	0.9	28.4	6.5	1.1

Dissolved oxygen was 0.3 mg/L at the bridge (SB), 3.2 mg/L at the first leaking septic pipe (P1), which had some flow, 0.4 mg/L at the second leaking pipe (P2), which did not have any flow, and 0.2 mg/L at the Sankofa culvert (SC). Dissolved oxygen ranged from 0.5 to 7.4 mg/L at the

wetland park sites (S1-S5), and was 10.6 mg/L at the wetland triangle (T2). Conductivity was ~965 mS at SB, ~840 mS at P1, ~940 mS at P2, and ~725 mS at SC, while at the wetland park sites conductivity ranged from ~580 mS to ~745 mS, and was ~1870 mS at T2. Salinity was 0.5 ppt at SB, 0.4 ppt at P1 and P2, and 0.3 ppt at SC, while at the wetland park sites salinity ranged from 0.3 ppt to 0.4 ppt, and was 0.9 ppt at T2. Water temperature was 27.3˚C at SB, 28.2˚C at P1, 27.6˚C at P2, and 27.4˚C at SC, while at the wetland park sites temperature ranged from 26.5˚C to 28.9˚C, and was 28.4˚C at T2. pH was 6.7 at SB, 6.8 at P1, 6.7 at P2, and 6.8 at SC, while at the wetland park sites pH ranged from 6.8 to 7.3, and was 6.5 at T2. Total dissolved solids (TDS) was 0.6 mg/L at SB, 0.5 mg/L at P1, 0.6 mg/L at P2, and 0.5 mg/L at SC, while at the wetland park sites TDS was 0.4 mg/L at all sites except S5, which was 0.5 ppt, and was 1.1 at T2.

The Sankofa culvert (SC) on July 11, 2024.

August 19, 2024: Jason Day and Joel Mancuso carried out monthly monitoring at the wetland park. Dissolved oxygen, conductivity, temperature, salinity and pH were measured at all sites using a handheld probe. Water samples were collected for nutrient (NO_2+NO_3, NH_3, TN, PO_4, TP), BOD_5 and suspended sediment (TSS), and fecal coliform analysis. Samples were put on ice and transported to Pace Analytical Services in Baton Rouge for analysis. An avian census was carried out by sight and sound. The staff gauge in the wetland park was 68.0 cm at noon. The staff gauge in the wetland triangle was 28.0 cm at 10:26am.

The water level recorders were switched out with new ones at both the wetland park and wetland triangle sites (see data in "Miscellaneous Activities" section at the end of this report).

Water quality samples taken from canoe at the wetland triangle on August 19th, 2024.

Discrete water quality data from August 19, 2024.

Site	Date	DO (mg/l)	Cond. (mS)	Salinity (ppt)	Temp. (˚C)	pH	TDS (mg/L)
SB	8/19/24	0.4	1114.1	0.5	28.8	6.6	0.7
P1	8/19/24	0.3	1051.0	0.5	29.6	7.0	0.6
P2	8/19/24	2.9	1065.6	0.5	30.8	6.7	0.6
SC	8/19/24	1.5	1046.0	0.5	29.3	7.3	0.6
S1	8/19/24	2.1	1019.1	0.5	28.2	6.7	0.6
S2	8/19/24	1.0	872.4	0.5	28.3	6.7	0.6
S3	8/19/24	4.5	789.8	0.4	30.4	7.3	0.5
S4	8/19/24	12.9	588.0	0.3	29.5	8.0	0.4
S5	8/19/24	1.9	642.2	0.3	28.1	7.5	0.4
T2	8/19/24	2.9	1745.0	0.8	28.9	7.1	0.6

Dissolved oxygen was 0.4 mg/L at the bridge (SB), 0.3 mg/L at the first leaking septic pipe (P1), 2.9 mg/L at the second leaking pipe (P2), and 1.5 mg/L at the Sankofa culvert (SC). Dissolved oxygen ranged from 1.0 to 12.9 mg/L at the wetland park sites (S1-S5), and was 2.9 mg/L at the wetland triangle (T1). Conductivity was ~1100 mS at SB, ~1050 mS at P1,

~1065 mS at P2, and ~1045 mS at SC, while at the wetland park sites conductivity ranged from ~590 mS to ~1020 mS, and was ~1745 mS at T1. Salinity was 0.5 ppt at sites SB, P1, P2, and SC, while at the wetland park sites salinity ranged from 0.3 to 0.5 ppt, and was 0.8 ppt at T1. Water temperature was 28.8˚C at SB, 29.6˚C at P1, 30.8˚C at P2, and 29.3˚C at SC, while at the wetland park sites temperature ranged from 28˚C to 30˚C, and was 28.9˚C at T1. pH was 6.6 at SB, 7.0 at P1, 6.7 at P2, and 7.3 at SC, while at the wetland park sites pH ranged from 6.7 to 7.3, and was 7.1 at T1. Total dissolved solids (TDS) were 0.7 mg/L at SB, and 0.6 mg/L at P1, P2, and SC, while at the wetland park sites TDS ranged from 0.4 to 0.6 mg/L, and was 0.6 mg/L at T1.

Water quality results from August 19, 2024.

Site	Date	NO_x (mg/L)	NH_3 (mg/L)	TN (mg/L)	PO_4 (mg/L)	TP (mg/L)	TSS (mg/L)	BOD_5 (mg/L)	Fecal Coliform (CFU/100mL)
SB	8/19/24	<0.050	10.0	9.7	0.89	0.94	<5.0	**4.0**	>1000
P1	8/19/24	<0.050	10.2	9.6	0.89	0.93	2.6	**2.9**	235
P2	8/19/24	0.37	7.9	8.3	0.46	0.50	10.0	**7.6**	<5
SC	8/19/24	<0.050	8.3	8.5	1.4	0.84	<5.0	**6.0**	295
S1	8/19/24	<0.050	6.5	7.5	0.93	1.0	<10.0	**10.7**	470
S2	8/19/24	<0.050	1.1	2.5	0.40	0.47	6.6	**12.8**	405
S3	8/19/24	<0.050	<0.10	1.2	<0.050	<0.10	16.4	**11.9**	105
S4	8/19/24	<0.050	0.22	1.4	<0.050	<0.10	16.6	**2.2**	75
S5	8/19/24	<0.050	<0.10	1.4	<0.050	<0.10	<10.0	**8.0**	>1000
T2	8/19/24	<0.050	0.15	1.8	<0.050	0.15	20.4	**5.9**	55

Nitrate+nitrite (NO_x) concentrations were below detection (0.05 mg/L) at all of the monitoring sites except site P2, which had a concentration of 0.37 mg/L. Ammonia (NH_3) concentrations were 10.0 mg/L at the Bridge site (SB), which is very high, 10.2 mg/L at site P1, 7.9 mg/L at site P2, and 8.3 mg/L at the Sankofa culvert (SC) site. In the park, NH_3 concentrations were highest near the drainage canal with 6.5 mg/L at site S1, 1.1 mg/L at site S2, 0.22 mg/L at site S4, and below detection (<0.10 mg/L) at sites S3 and S5, while the wetland triangle site (T2) had a concentration of 0.15 mg/L. Total nitrogen (TN) concentrations were 9.7 mg/L at site SB, 9.6 mg/L at site P1, 8.3 mg/L at site P2, 8.5 mg/L at the culvert (SC) site, 7.5 mg/L at site S1, 2.5 mg/L at site S2, 1.2 mg/L at site S3, 1.4 mg/L at sites S4 and S5, and 1.8 mg/L at site T2. Phosphate (PO_4) concentrations were 0.89 mg/L at sites SB and P1, 0.46 mg/L at site P2, and 1.4 mg/L at site SC, while in the park concentrations were 0.93 mg/L at site S1, 0.40 mg/L at site S2, below detection (<0.050 mg/L) at sites S3-S5 and site T2. Total phosphorus (TP) concentrations were 0.94 mg/L at site SB, 0.93 mg/L at site P1, 0.50 mg/L at site P2, 0.84 mg/L at the culvert (SC), 1.0 mg/L at site S1, 0.47 at site S2, below detection (<0.10 mg/L) at sites S2-S5, and 0.15 mg/L at site T2. Total suspended solids (TSS) concentrations were below detection (<5.0 mg/L) at the bridge (SB) and culvert (SC) sites, and 2.6 and 10.0 mg/L at the leaking pipe sites (P1 & P2), while in the park, concentrations ranged from below detection (<10.0 mg/L) to 16.6 mg/L, and was 20.4 mg/L in the wetland triangle (T2). Five-day biological oxygen demand (BOD_5) was 4.0 mg/L at site SB, 2.9 mg/L at site P1, 7.6 mg/L at site P2,

6.0 mg/L at the culvert (SC) site, 10.7 mg/L at site S1, 12.8 mg/L at site S2, 11.9 mg/L at site S3, 2.2 mg/L at site S4, 8.0 mg/L at site S5, and 5.9 mg/L at site T2. Fecal coliform concentrations were >1000 CFU/100mL at the bridge site (SB), 235 CFU/100mL at site P1, below detection (<5 CFU/100mL) at site P2, and 295 CFU/100mL at the culvert, while in the park, concentrations were 470 CFU/100mL at site S1 near the gazebo, 405 CFU/100mL at site S2, 105 CFU/100mL at site S3, 75 CFU/100mL at site S4, and >1000 CFU/100mL at site S5, and the wetland triangle (T2) had a concentration of 55 CFU/100mL. For comparison, the limit for fecal coliform exiting a WTP is 300 CFU/100mL.

September 20, 2024: Drs. Robert Lane, Rachael Hunter, and Mr. Jason Day visited the Sankofa Wetland Park to provide a workshop to Nunez and Delgado students regarding greenhouse gas and other carbon sequestration related measurements. While there, they also carried out monthly monitoring. Dissolved oxygen, conductivity, temperature, salinity and pH were measured at all of the new and old monitoring sites using a handheld probe. The staff gauge was 88.0 cm at 11:30 am.

A greenhouse gas sampling chamber deployed on September 20, 2024.

Discrete water quality data from September 20, 2024.

Site	Date	DO (mg/l)	Cond. (mS)	Salinity (ppt)	Temp. (˚C)	pH	TDS (mg/L)
SB	9/20/24	0.7	998.6	0.5	26.1	6.9	0.6
P1	9/20/24	2.0	999.3	0.5	27.4	7.1	0.7
P2	9/20/24	2.9	999.8	0.5	27.5	7.1	0.6
SC	9/20/24	1.7	881.1	0.4	28.1	7.2	0.6
S1	9/20/24	0.2	669.3	0.3	27.8	7.1	0.4
S2	9/20/24	4.5	789.1	0.4	29.7	7.7	0.5
S3	9/20/24	1.0	640.1	0.3	28.4	7.4	0.4
S4	9/20/24	0.3	798.1	0.4	28.0	7.2	0.5
S5	9/20/24	2.3	886.5	0.4	27.1	7.4	0.6
T2	9/20/24	1.4	868.8	0.4	28.5	7.5	0.5

Dissolved oxygen was 0.7 mg/L at the bridge (SB), 2.0 mg/L at the first leaking septic pipe (P1), 2.9 mg/L at the second leaking pipe (P2), and 1.7 mg/L at the Sankofa culvert (SC). Dissolved oxygen ranged from 0.2 to 4.5 mg/L at the wetland park sites (S1-S5), and was 1.4 mg/L at the wetland triangle (T2). Conductivity was ~1000 mS at sites SB, P1, and P2, and ~880 mS at SC, while at the wetland park sites conductivity ranged from ~640 mS to ~890 mS, and was ~870 mS at T2. Salinity was 0.5 ppt at sites SB, P1, P2, and 0.4 ppt at SC, while at the wetland park sites salinity ranged from 0.3 to 0.4 ppt, and was 0.4 ppt at T2. Water temperature was 26.1˚C at SB, 27.4˚C at P1, 27.5˚C at P2, and 28.1˚C at SC, while at the wetland park sites temperature ranged from 27˚C to 30˚C, and was 28.5˚C at T2. pH was 6.9 at SB, 7.1 at P1 and P2, and 7.2 at SC, while at the wetland park sites pH ranged from 7.1 to 7.4, and was 7.5 at T2. Total dissolved solids (TDS) were 0.6 mg/L at SB, P2, and SC, and 0.7 mg/L at P1, while at the wetland park sites TDS ranged from 0.4 to 0.6 mg/L, and was 0.5 mg/L at T2.

Site S3 on September 20, 2024.

Conclusions

The water quality data from Sankofa Wetland Park for the third quarter of 2024 highlights significant contamination issues across several monitoring sites. Nitrate+nitrite (NOx) concentrations were undetectable at most sites, except for a spike of 0.37 mg/L at site P2, suggesting localized pollution from nearby leaks. Elevated ammonia levels, particularly in the canal at sites SB, P1 and P2, further suggest nutrient inflow from septic leaks, while high total nitrogen and phosphorus concentrations at these sites reinforce the presence of significant external nutrient inputs. Fecal coliform levels also exceeded acceptable limits for treated water at several sites, notably surpassing 1000 CFU/100 mL at bridge site (SB) and the culvert site (SC) as well as site S5 at the west end of the park, which appears to be accumulating fecal coliform, indicating a serious contamination risk and strongly pointing to ongoing septic intrusion into the wetland system.

Additionally, the elevated levels of ammonia, total nitrogen, and fecal coliform at other sites, especially around site SC and site S1, suggest the possibility of another contamination source beyond the identified leaks at sites P1 and P2. These sites (SC & S1) exhibit unusually high pollutant levels for areas not directly near known leaks, indicating that there may be another, as yet unidentified, leak contributing to the persistent degradation of water quality.

Avian Survey

A total of 31 bird species were observed in July, 15 species in August, and 27 species in September. A total of 40 species were sighted this quarter.

Bird species observed at the Sankofa Wetland Park for Q3 2024.

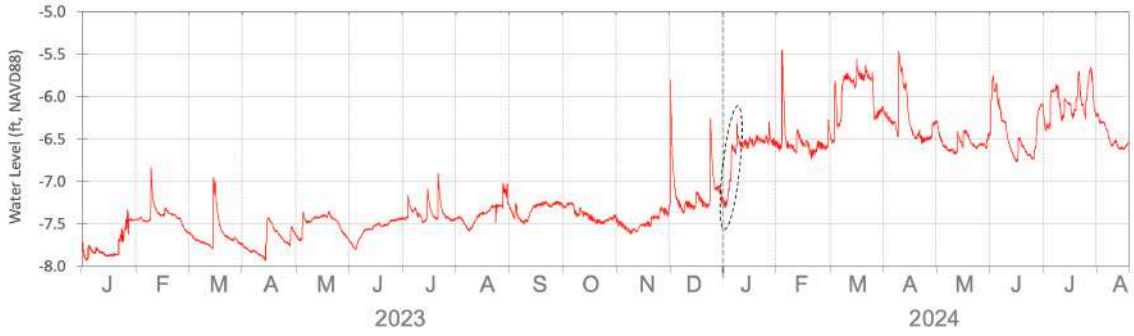
Common Name	Scientific Name	7/11/24	8/19/24	9/20/24
American Coot	*Fulica americana*		X	X
American Crow	*Corvus brachyrhynchos*	X	X	X
Anhinga	*Anhinga anhinga*	X	X	X
Barn Swallow	*Hirundo rustica*	X		X
Black Vulture	*Coragyps atratus*	X		X
Black-Bellied Whistling-Duck	*Dendrocygna autumnalis*	X	X	X
Black-Crowned Night Heron	*Nycticorax nycticorax*			X
Blue Jay	*Cyanocitta cristata*	X	X	X
Blue-Grey Gnatcatcher	*Polioptila caerulea*	X		
Carolina Chicadee	*Poecile carolinensis*	X	X	
Carolina Wren	*Thryothorus ludovicianus*	X		X
Cattle Egret	*Bubulcus ibis*	X		
Chimney Swift	*Chaetura pelagica*			X
Common Grackel	*Quiscalus quiscula*	X		X
Common Moorhen	*Gallinula chloropus*		X	
Double Crested Cormorant	*Phalacrocorax auritus*	X		
Downy Woodpecker	*Dryobates pubescens*	X		
Eastern Phoebe	*Sayornis phoebe*	X		
Eurasian Collared Dove	*Streptopelia decaocto*			X
European Starling	*Sturnus Vulgaris*	X	X	X
Fish Crow	*Corvus ossifragus*	X		X
Great Blue Heron	*Ardea herodias*	X	X	
Great Erget	*Ardea alba*	X		X
Green Heron	*Butorides virescens*		X	X
Killdeer	*Charadrius vociferus*	X		X
Limpkin	*Aramus guarauna*			X
Mississippi Kite	*Ictinia mississippiensis*	X	X	
Mockingbird	*Mimus polyglottos*	X		X
Mourning Dove	*Zenaida macroura*	X		X
Northern Cardinal	*Cardinalis cardinalis*	X	X	X
Red Shouldered Hawk	*Buteo lineatus*			X
Red Winged Blackbird	*Agelaius phoeniceus*	X	X	X
Ruby-Crowned Kinglet	*Corthylio calendula*	X		
Ruby-throated Hummingbird	*Archilochus colubris*	X		X
Snowy Egret	*Egretta thula*			X
Tuffted Titmouse	*Baeolophus bicolor*	X		
Turkey Vulture	*Cathartes aura*	X	X	X
White Ibis	*Eudocimus albus*	X		X
Yellow Warbler	*Setophaga petechia*		X	
Yellow-Crowned Night-Heron	*Nyctanassa violacea*	X		

Miscellaneous Activities

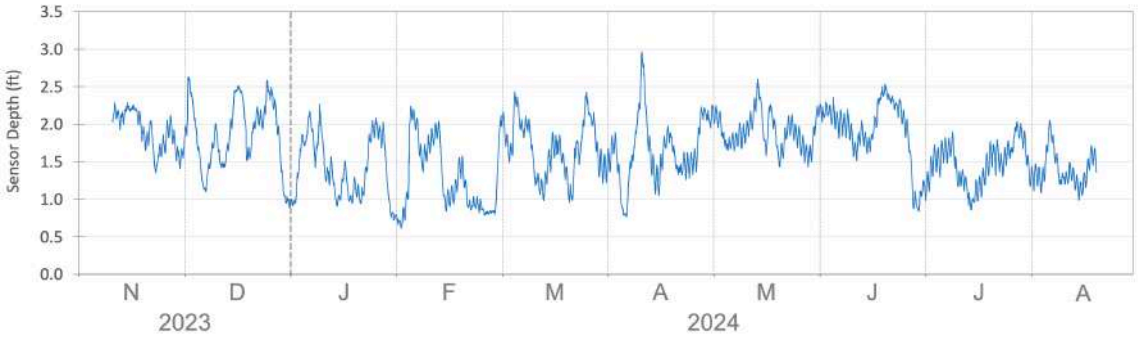
July 11, 2024: Rob Lane and Jason Day probed the culvert going under Florida Avenue at the railroad tracks. A hooked rake with a PVC extender was used, which was approximately 10 ft long. The eastern side of the culvert (shown below) was clear of debris, however, the western side of the culvert was clogged and under several feet of backed up water. A meeting with Sewerage & Water Board of New Orleans (S&WBNO) as well as Veolia WTP personnel was held shortly after. Stephen Nelson of S&WBNO said that he would most likely be able to clear the culvert in the next few weeks.

July 30, 2024: Rob Lane met with Dennis Bradley with St. Bernard Parish as well as Corwin Washington and Ann Wilson of New Orleans Sewage and Water Board to site visit the clogged culver at Florida Ave and the railroad tracks.

August 29, 2023: Water level recorders collected on August 18th were downloaded and the data processed. The park data clearly shows when water levels rose in the beginning of January (circled) , presumably due to the clogged culvert. The rise is over three days compared to rainfall events that occur as very rapid spikes over a few hours. With this information we could calculate estimates of the volume leaking from the pipe, if that would be helpful at some point.



Water level in the Sankofa Wetland Park.



Water level in the Bayou Bienvenue Wetland Triangle.

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

July 10, 2024

Jason Day
Comite Resources
PO Box 66596
Baton Rouge, LA 70896

RE: Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Dear Jason Day:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

7/10 This report supersedes and replaces any prior reports issued under this workorder. This report has been revised to add a qualifier.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Juanita Polanco
juanita.polanco@pacelabs.com
(225) 769-4900
Project Manager

Enclosures

cc: Rachael Hunter, Comite Resources
Robert Lane, Comite Resources

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

CERTIFICATIONS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 2000662023-7
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Texas Commission on Env. Quality (NELAC): T104704405-23-18
U.S. Dept. of Agriculture Foreign Soil Import: 525-23-117-89728

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

SAMPLE SUMMARY

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20321200001	**P1**	Water	06/20/24 09:50	06/20/24 12:09
20321200002	**P2**	Water	06/20/24 09:55	06/20/24 12:09
20321200003	**S1**	Water	06/20/24 10:00	06/20/24 12:09
20321200004	**S2**	Water	06/20/24 10:10	06/20/24 12:09
20321200005	**S3**	Water	06/20/24 10:20	06/20/24 12:09
20321200006	**S4**	Water	06/20/24 10:40	06/20/24 12:09
20321200007	**S5**	Water	06/20/24 10:50	06/20/24 12:09
20321200008	**SB**	Water	06/20/24 09:45	06/20/24 12:09
20321200009	**SC**	Water	06/20/24 09:40	06/20/24 12:09
20321200010	**T2**	Water	06/20/24 10:30	06/20/24 12:09

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(225) 769-4900

SAMPLE ANALYTE COUNT

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20321200001	**P1**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200002	**P2**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200003	**S1**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200004	**S2**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200005	**S3**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200006	**S4**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200007	**S5**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200008	**SB**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200009	**SC**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1
20321200010	**T2**	SM 9222D	AMG	1
		EPA 351.2	JLH	1
		SM 4500-NH3 G	CDL	1

PASI-N = Pace Analytical Services - New Orleans

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: P1 **Lab ID: 20321200001** Collected: 06/20/24 09:50 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**440**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**2.7**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:08	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**1.3**	mg/L	0.10	1		06/27/24 14:08	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: P2 **Lab ID: 20321200002** Collected: 06/20/24 09:55 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**7.1**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:09	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**6.7**	mg/L	0.10	1		06/27/24 14:10	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: S1 **Lab ID: 20321200003** Collected: 06/20/24 10:00 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**<5**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**4.4**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:10	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**2.3**	mg/L	0.10	1		06/27/24 14:11	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: S2 **Lab ID: 20321200004** Collected: 06/20/24 10:10 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**405**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**9.1**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:11	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.50	5		06/27/24 14:12	7664-41-7	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: S3 **Lab ID: 20321200005** Collected: 06/20/24 10:20 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**3.1**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:13	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		06/27/24 14:14	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: S4 **Lab ID: 20321200006** Collected: 06/20/24 10:40 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**925**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.0**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:16	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		06/27/24 14:15	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: S5 **Lab ID: 20321200007** Collected: 06/20/24 10:50 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.5**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:18	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		06/27/24 14:17	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: SB **Lab ID: 20321200008** Collected: 06/20/24 09:45 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**6.6**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:19	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**5.6**	mg/L	0.10	1		06/27/24 14:21	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: SC **Lab ID: 20321200009** Collected: 06/20/24 09:40 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**3.2**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:20	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**1.9**	mg/L	0.10	1		06/27/24 14:23	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Sample: T2 **Lab ID: 20321200010** Collected: 06/20/24 10:30 Received: 06/20/24 12:09 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	06/20/24 16:40	06/21/24 15:01		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.5**	mg/L	0.10	1	06/27/24 12:29	06/28/24 19:21	7727-37-9	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		06/27/24 14:24	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

QC Batch: 332806
QC Batch Method: SM 9222D
Analysis Method: SM 9222D
Analysis Description: 9222D MBIO Fecal Coliform
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

METHOD BLANK: 1596748
Matrix: Water
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<2	2.0	06/21/24 14:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

QC Batch: 333429
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

METHOD BLANK: 1599615 Matrix: Water
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.10	06/28/24 18:49	

LABORATORY CONTROL SAMPLE: 1599616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.5	4.3	96	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

QC Batch: 333491
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

METHOD BLANK: 1599918
Matrix: Water
Associated Lab Samples: 20321200001, 20321200002, 20321200003, 20321200004, 20321200005, 20321200006, 20321200007, 20321200008, 20321200009, 20321200010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/27/24 14:02	

LABORATORY CONTROL SAMPLE: 1599919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.3	107	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
u2	Colonies are too numerous to count. Actual result may be greater than reported.

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(225) 769-4900

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANKOFA SEPTIC SAMPLING
Pace Project No.: 20321200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20321200001	**P1**	SM 9222D	332806	SM 9222D	333015
20321200002	**P2**	SM 9222D	332806	SM 9222D	333015
20321200003	**S1**	SM 9222D	332806	SM 9222D	333015
20321200004	**S2**	SM 9222D	332806	SM 9222D	333015
20321200005	**S3**	SM 9222D	332806	SM 9222D	333015
20321200006	**S4**	SM 9222D	332806	SM 9222D	333015
20321200007	**S5**	SM 9222D	332806	SM 9222D	333015
20321200008	**SB**	SM 9222D	332806	SM 9222D	333015
20321200009	**SC**	SM 9222D	332806	SM 9222D	333015
20321200010	**T2**	SM 9222D	332806	SM 9222D	333015
20321200001	**P1**	EPA 351.2	333429	EPA 351.2	333611
20321200002	**P2**	EPA 351.2	333429	EPA 351.2	333611
20321200003	**S1**	EPA 351.2	333429	EPA 351.2	333611
20321200004	**S2**	EPA 351.2	333429	EPA 351.2	333611
20321200005	**S3**	EPA 351.2	333429	EPA 351.2	333611
20321200006	**S4**	EPA 351.2	333429	EPA 351.2	333611
20321200007	**S5**	EPA 351.2	333429	EPA 351.2	333611
20321200008	**SB**	EPA 351.2	333429	EPA 351.2	333611
20321200009	**SC**	EPA 351.2	333429	EPA 351.2	333611
20321200010	**T2**	EPA 351.2	333429	EPA 351.2	333611
20321200001	**P1**	SM 4500-NH3 G	333491		
20321200002	**P2**	SM 4500-NH3 G	333491		
20321200003	**S1**	SM 4500-NH3 G	333491		
20321200004	**S2**	SM 4500-NH3 G	333491		
20321200005	**S3**	SM 4500-NH3 G	333491		
20321200006	**S4**	SM 4500-NH3 G	333491		
20321200007	**S5**	SM 4500-NH3 G	333491		
20321200008	**SB**	SM 4500-NH3 G	333491		
20321200009	**SC**	SM 4500-NH3 G	333491		
20321200010	**T2**	SM 4500-NH3 G	333491		

Pace® Location Requested (City/State):
Pace Analytical Baton Rouge
7979 Innovation Park Dr, Suite A
Baton Rouge, LA 70820

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 20321200

20321200

Company Name:	Comite Resources	Contact/Report To:	Jason Day
Street Address:	PO Box 66596, Baton Rouge, LA 70896	Phone #:	(225) 205-5777
		E-Mail:	jnday@comiteres.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	SANKOFA SEPTIC SAMPLING	Invoice To:	Robert Lane
		Invoice E-Mail:	rlane@comiteres.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Louisiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Blosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	4500 Ammonia; 351.2 TKN	MBIO 9222D Fecal Coli (Water)	Sample Comment
P1	WT		6/20	9:50						X	X	1
P2	WT			9:55						X	X	2
S1	WT			10:00						X	X	3
S2	WT			10:10						X	X	4
S3	WT			10:20						X	X	5
S4	WT			10:40						X	X	6
S5	WT			10:50						X	X	7
SB	WT			9:45						X	X	8
SC	WT			9:40						X	X	9
T2	WT			10:30						X	X	10

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Juanita Polanco

AcctNum / Client ID:

Table #:

Profile / Template: 9620

Prelog / Bottle Ord. ID: EZ 3125218

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By:
(Printed Name) Rob Lane
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time: 12:08 6/20	Received by/Company: (Signature)	Date/Time: 6/20/24 1209
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number: F543 4.6

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

WO#: 20321200 Due Date: 07/05/24

PM: JP1

CLIENT: BR-Comite

Pace

Sample Condition Upon Recie
Workorde

7979 Innovation Park Dr. Baton Rouge, LA 70806

Cooler Inspected by/date: BRP 6/20/24

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other: _____

☐ Yes	☑ No		Were custody seals present on the cooler?
☐ Yes	☐ No	☐ NA	If custody seals were present, were they intact and unbroken?

Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 203 IR Gun Correction Factor: 0 °C

Cooler #1	Cooler Temp °C:	4.6	(Actual/True)
Cooler #2	Cooler Temp °C:	_____	(Actual/True)
Cooler #3	Cooler Temp °C:	_____	(Actual/True)
Cooler #4	Cooler Temp °C:	_____	(Actual/True)

Samples on ice ☑ Yes ☐ No

pH Strip Lot # 227822

Method of coolant: ☑ Wet ☐ Ice Packs ☐ Dry Ice ☐ None

Tracking #:

☐ Yes	☑ No	☐ NA	Is a temperature blank present?	
☐ Yes	☐ No	☐ NA	Was a chain of custody (COC) recieved?	
☑ Yes	☐ No	☐ NA	Was the line and profile number listed on the COC?	
☑ Yes	☐ No	☐ NA	Were all coolers received at or below 6.0°C? If no, notify Project Manager notified via email.	
☑ Yes	☐ No		Were proper custody procedures (relinquished/received) followed?	
☑ Yes	☐ No	☐ NA	Is the sampler name and signature on the COC?	
☐ Yes	☐ No		Were sample IDs listed on the COC and all sample containers?	
☐ Yes	☐ No		Was collection date & time listed on the COC and all sample containers?	
☑ Yes	☐ No		Did all container label information (ID, date, time) agree with the COC?	
☑ Yes	☐ No		Were tests to be performed listed on the COC?	
☑ Yes	☐ No		Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?	
☑ Yes	☐ No		Was adequate sample volume available?	
☑ Yes	☐ No		Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
☑ Yes	☐ No		Were all samples containers accounted for? (No missing / excess)	
☐ Yes	☐ No	☑ NA	Were VOA, 8015C (GRO/VPH), and RSK-175 samples free of bubbles > "pea size" (1/4" or 6mm in diameter) in any of the VOA vials?	
☐ Yes	☐ No	☑ NA	Trip blank present?	
☐ Yes	☐ No	☑ NA	Filtered volume received for dissolved tests? *If no, list affected sample(s) in comments below.*	
☑ Yes	☐ No	☐ NA	Were all metals/nutrient samples received at a pH of < 2?	If No, was preservative added? ☐ Yes ☐ No If added, record lots. Dispenser/pipette lot #: _____ HNO_3 _____ H_2SO_4 _____ NaOH _____ Date: _____ Time: _____
☐ Yes	☐ No	☑ NA	Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?	

Comments:

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

September 19, 2024

Jason Day
Comite Resources
PO Box 66596
Baton Rouge, LA 70896

RE: Project: SANKOFA
Pace Project No.: 20327519

Dear Jason Day:

Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Savioune Shepherd
savioune.shepherd@pacelabs.com
(504)469-0333
Project Manager

Enclosures

cc: Rachael Hunter, Comite Resources
Robert Lane, Comite Resources

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

CERTIFICATIONS

Project: SANKOFA
Pace Project No.: 20327519

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 2000662023-7
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Texas Commission on Env. Quality (NELAC): T104704405-23-18
U.S. Dept. of Agriculture Foreign Soil Import: 525-23-117-89728

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

SAMPLE SUMMARY

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20327519001	**Bridge**	Water	08/19/24 11:00	08/19/24 17:30
20327519002	**One**	Water	08/19/24 11:20	08/19/24 17:30
20327519003	**Two**	Water	08/16/24 12:00	08/19/24 17:30
20327519004	**Three**	Water	08/19/24 12:20	08/19/24 17:30
20327519005	**Four**	Water	08/19/24 12:30	08/19/24 17:30
20327519006	**Five**	Water	08/16/24 12:45	08/19/24 17:30
20327519007	**Triangle**	Water	08/19/24 10:30	08/19/24 17:30
20327519008	**P1**	Water	08/19/24 13:30	08/19/24 17:30
20327519009	**P2**	Water	08/19/24 13:45	08/19/24 17:30
20327519010	**Culvert**	Water	08/19/24 14:00	08/19/24 17:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

SAMPLE ANALYTE COUNT

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20327519001	**Bridge**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519002	**One**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519003	**Two**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519004	**Three**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519005	**Four**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

SAMPLE ANALYTE COUNT

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519006	**Five**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519007	**Triangle**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519008	**P1**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519009	**P2**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1
20327519010	**Culvert**	SM 2540D 2011	CAP	1
		SM 5210B	JTB	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

SAMPLE ANALYTE COUNT

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 9222D	AMG	1
		EPA 351.2	DS	1
		EPA 365.4	DS	1
		SM 4500-NH3 G	CDL	1
		SM 4500-P E	SLK	1
		SM 4500-NO3 F	CDL	1

PASI-N = Pace Analytical Services - New Orleans

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Bridge **Lab ID: 20327519001** Collected: 08/19/24 11:00 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	ND	mg/L	5.0	1		08/23/24 08:37		P1,PK, PP
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**4.0**	mg/L	1.5	1.5	08/20/24 11:13	08/25/24 12:40		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		u2
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**9.7**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:16	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.94**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:05	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**10**	mg/L	0.10	1		08/23/24 16:58	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**0.89**	mg/L	0.25	5		08/21/24 08:11		D3
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: One **Lab ID: 20327519002** Collected: 08/19/24 11:20 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	ND	mg/L	10.0	1		08/23/24 08:37		P1,PK, PP
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**10.7**	mg/L	4.0	4	08/20/24 11:14	08/25/24 12:46		R6
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**470**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**7.5**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:21	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**1.0**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:07	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**6.5**	mg/L	0.10	1		08/23/24 17:00	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**0.93**	mg/L	0.25	5		08/21/24 08:11		D3
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:29		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Two **Lab ID: 20327519003** Collected: 08/16/24 12:00 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**6.6**	mg/L	5.0	1		08/22/24 08:19		P1
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**12.8**	mg/L	4.0	4	08/20/24 11:05	08/25/24 12:03		H3
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**405**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		H3,u6
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**2.5**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:21	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.47**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:07	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**1.1**	mg/L	0.10	1		08/23/24 17:01	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**0.40**	mg/L	0.050	1		08/21/24 07:58		H3,M1
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Three **Lab ID: 20327519004** Collected: 08/19/24 12:20 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**16.4**	mg/L	10.0	1		08/23/24 08:37		P1
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**11.9**	mg/L	1.5	1.5	08/20/24 11:15	08/25/24 12:54		R6
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**105**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.2**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:23	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	ND	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:09	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		08/23/24 17:03	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	ND	mg/L	0.050	1		08/21/24 07:58		
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:34		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Four **Lab ID: 20327519005** Collected: 08/19/24 12:30 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**16.6**	mg/L	5.0	1		08/23/24 08:37		P1
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**2.2**	mg/L	1.5	1.5	08/20/24 11:20	08/25/24 13:00		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**75**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.4**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:23	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	ND	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:10	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**0.22**	mg/L	0.10	1		08/23/24 17:04	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	ND	mg/L	0.050	1		08/21/24 07:58		
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Five **Lab ID: 20327519006** Collected: 08/16/24 12:45 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	ND	mg/L	10.0	1		08/22/24 08:19		P1,PK, PP
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**8.0**	mg/L	1.5	1.5	08/20/24 11:06	08/25/24 12:11		H3,R6
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**1000**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		H3,u2,u6
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.4**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:25	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	ND	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:10	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	ND	mg/L	0.10	1		08/23/24 17:05	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	ND	mg/L	0.050	1		08/21/24 07:58		H3
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Triangle **Lab ID: 20327519007** Collected: 08/19/24 10:30 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**20.4**	mg/L	10.0	1		08/23/24 08:37		P1
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**5.9**	mg/L	1.5	1.5	08/20/24 11:10	08/25/24 12:33		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**55**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**1.8**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:28	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.15**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:11	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**0.15**	mg/L	0.10	1		08/23/24 17:07	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	ND	mg/L	0.050	1		08/21/24 07:58		
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: P1 **Lab ID: 20327519008** Collected: 08/19/24 13:30 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**2.6**	mg/L	2.5	1		08/23/24 08:37		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**2.9**	mg/L	1.5	1.5	08/20/24 11:21	08/25/24 13:58		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**235**	CFU/100 mL	5.0	5	08/19/24 17:45	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**9.6**	mg/L	0.60	4	08/22/24 13:53	08/23/24 16:04	7727-37-9	D4
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.93**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:12	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**10.2**	mg/L	0.10	1		08/23/24 17:08	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**0.89**	mg/L	0.25	5		08/21/24 08:11		D3
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: P2 **Lab ID: 20327519009** Collected: 08/19/24 13:45 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**10.0**	mg/L	5.0	1		08/23/24 08:37		P1
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**7.6**	mg/L	1.5	1.5	08/20/24 11:21	08/25/24 14:05		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**<5**	CFU/100 mL	5.0	5	08/19/24 17:49	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**7.9**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:31	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.50**	mg/L	0.10	1	08/22/24 13:57	08/23/24 11:12	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**7.9**	mg/L	0.10	1		08/23/24 17:13	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**0.46**	mg/L	0.050	1		08/21/24 07:58		
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	**0.37**	mg/L	0.050	1		08/22/24 16:49		

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ANALYTICAL RESULTS

Project: SANKOFA
Pace Project No.: 20327519

Sample: Culvert **Lab ID: 20327519010** Collected: 08/19/24 14:00 Received: 08/19/24 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	ND	mg/L	5.0	1		08/23/24 08:37		P1,PK, PP
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	**6.0**	mg/L	4.0	4	08/20/24 11:23	08/25/24 14:12		
MBIO 9222D Fecal Coli (Water)	Analytical Method: SM 9222D Preparation Method: SM 9222D Pace Analytical Services - New Orleans							
Fecal Coliforms	**295**	CFU/100 mL	5.0	5	08/19/24 17:49	08/20/24 16:06		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - New Orleans							
Nitrogen, Kjeldahl, Total	**8.5**	mg/L	0.15	1	08/22/24 13:53	08/23/24 15:33	7727-37-9	
365.4 Total Phosphorus	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4 Pace Analytical Services - New Orleans							
Phosphorus	**0.84**	mg/L	0.10	1	08/22/24 13:57	08/23/24 12:30	7723-14-0	1b
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - New Orleans							
Nitrogen, Ammonia	**8.3**	mg/L	0.10	1		08/23/24 17:14	7664-41-7	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E Pace Analytical Services - New Orleans							
Orthophosphate as P	**1.4**	mg/L	0.25	5		08/21/24 08:11		D4
4500NO3-F, NO3-NO2	Analytical Method: SM 4500-NO3 F Pace Analytical Services - New Orleans							
Nitrogen, NO2 plus NO3	ND	mg/L	0.050	1		08/22/24 16:50		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339566
QC Batch Method: SM 2540D 2011
Analysis Method: SM 2540D 2011
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519003, 20327519006

METHOD BLANK: 1630175 Matrix: Water
Associated Lab Samples: 20327519003, 20327519006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	08/22/24 08:18	

LABORATORY CONTROL SAMPLE: 1630176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	96.0	96	80-120	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339723 | Analysis Method: SM 2540D 2011
QC Batch Method: SM 2540D 2011 | Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519004, 20327519005, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1630958 Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519004, 20327519005, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	08/23/24 08:37	

LABORATORY CONTROL SAMPLE: 1630959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	90.0	90	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339318
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1628857
Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	0.20	08/25/24 11:50	

LABORATORY CONTROL SAMPLE: 1628859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	196	99	85-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339330 Analysis Method: SM 9222D
QC Batch Method: SM 9222D Analysis Description: 9222D MBIO Fecal Coliform
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008

METHOD BLANK: 1628935 Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<2	2.0	08/20/24 15:50	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339331
QC Batch Method: SM 9222D
Analysis Method: SM 9222D
Analysis Description: 9222D MBIO Fecal Coliform
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519009, 20327519010

METHOD BLANK: 1628939 Matrix: Water
Associated Lab Samples: 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<2	2.0	08/20/24 16:06	

METHOD BLANK: 1628941 Matrix: Water
Associated Lab Samples: 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fecal Coliforms	CFU/100 mL	<2	2.0	08/20/24 16:06	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339547
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1630089
Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.15	08/23/24 15:16	

LABORATORY CONTROL SAMPLE: 1630090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4.5	4.5	100	80-120	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339548
QC Batch Method: EPA 365.4
Analysis Method: EPA 365.4
Analysis Description: 365.4 W Total Phosphorus
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1630096 Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.10	08/23/24 11:04	

LABORATORY CONTROL SAMPLE: 1630097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1.3	1.3	101	80-120	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339785
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1631294
Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	08/23/24 16:37	

LABORATORY CONTROL SAMPLE: 1631295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	4.8	95	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339416
QC Batch Method: SM 4500-P E
Analysis Method: SM 4500-P E
Analysis Description: SM4500P-E, Phosphate, Ortho
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1629391 Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004, 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	08/21/24 07:58	

LABORATORY CONTROL SAMPLE: 1629392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	0.2	0.21	104	90-110	

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339633
QC Batch Method: SM 4500-NO3 F
Analysis Method: SM 4500-NO3 F
Analysis Description: SM4500NO3-F, Nitrate, Preserved
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004

METHOD BLANK: 1630499 Matrix: Water
Associated Lab Samples: 20327519001, 20327519002, 20327519003, 20327519004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	08/22/24 16:02	

LABORATORY CONTROL SAMPLE: 1630500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	6	5.7	95	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANKOFA
Pace Project No.: 20327519

QC Batch: 339635
QC Batch Method: SM 4500-NO3 F
Analysis Method: SM 4500-NO3 F
Analysis Description: SM4500NO3-F, Nitrate, Preserved
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

METHOD BLANK: 1630503 Matrix: Water
Associated Lab Samples: 20327519005, 20327519006, 20327519007, 20327519008, 20327519009, 20327519010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.050	08/22/24 16:40	

LABORATORY CONTROL SAMPLE: 1630504

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	6	5.6	93	90-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7979 Innovation Park Drive
Baton Rouge, LA 70820
(225) 769-4900

QUALIFIERS

Project: SANKOFA
Pace Project No.: 20327519

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

ANALYTE QUALIFIERS

1b	The value of the Ophos is greater than the Total Phos, results were confirmed by secondary analysis.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.
PK	Sample volume was decreased because complete filtration was not achieved within the maximum method-specified timeframe.
PP	The mass of dried residue obtained did not meet the test method requirements based on volume used.
R6	The RPD between valid sample dilutions exceeded 30%.
u2	Colonies are too numerous to count. Actual result may be greater than reported.
u6	Analysis initiated more than 24 hours after sample collection.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20327519001	**Bridge**	SM 2540D 2011	339723		
20327519002	**One**	SM 2540D 2011	339723		
20327519003	**Two**	SM 2540D 2011	339566		
20327519004	**Three**	SM 2540D 2011	339723		
20327519005	**Four**	SM 2540D 2011	339723		
20327519006	**Five**	SM 2540D 2011	339566		
20327519007	**Triangle**	SM 2540D 2011	339723		
20327519008	**P1**	SM 2540D 2011	339723		
20327519009	**P2**	SM 2540D 2011	339723		
20327519010	**Culvert**	SM 2540D 2011	339723		
20327519001	**Bridge**	SM 5210B	339318	SM 5210B	339837
20327519002	**One**	SM 5210B	339318	SM 5210B	339837
20327519003	**Two**	SM 5210B	339318	SM 5210B	339837
20327519004	**Three**	SM 5210B	339318	SM 5210B	339837
20327519005	**Four**	SM 5210B	339318	SM 5210B	339837
20327519006	**Five**	SM 5210B	339318	SM 5210B	339837
20327519007	**Triangle**	SM 5210B	339318	SM 5210B	339837
20327519008	**P1**	SM 5210B	339318	SM 5210B	339837
20327519009	**P2**	SM 5210B	339318	SM 5210B	339837
20327519010	**Culvert**	SM 5210B	339318	SM 5210B	339837
20327519001	**Bridge**	SM 9222D	339330	SM 9222D	339452
20327519002	**One**	SM 9222D	339330	SM 9222D	339452
20327519003	**Two**	SM 9222D	339330	SM 9222D	339452
20327519004	**Three**	SM 9222D	339330	SM 9222D	339452
20327519005	**Four**	SM 9222D	339330	SM 9222D	339452
20327519006	**Five**	SM 9222D	339330	SM 9222D	339452
20327519007	**Triangle**	SM 9222D	339330	SM 9222D	339452
20327519008	**P1**	SM 9222D	339330	SM 9222D	339452
20327519009	**P2**	SM 9222D	339331	SM 9222D	339453
20327519010	**Culvert**	SM 9222D	339331	SM 9222D	339453
20327519001	**Bridge**	EPA 351.2	339547	EPA 351.2	339745
20327519002	**One**	EPA 351.2	339547	EPA 351.2	339745
20327519003	**Two**	EPA 351.2	339547	EPA 351.2	339745
20327519004	**Three**	EPA 351.2	339547	EPA 351.2	339745
20327519005	**Four**	EPA 351.2	339547	EPA 351.2	339745
20327519006	**Five**	EPA 351.2	339547	EPA 351.2	339745
20327519007	**Triangle**	EPA 351.2	339547	EPA 351.2	339745
20327519008	**P1**	EPA 351.2	339547	EPA 351.2	339745
20327519009	**P2**	EPA 351.2	339547	EPA 351.2	339745
20327519010	**Culvert**	EPA 351.2	339547	EPA 351.2	339745
20327519001	**Bridge**	EPA 365.4	339548	EPA 365.4	339746
20327519002	**One**	EPA 365.4	339548	EPA 365.4	339746
20327519003	**Two**	EPA 365.4	339548	EPA 365.4	339746
20327519004	**Three**	EPA 365.4	339548	EPA 365.4	339746

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANKOFA
Pace Project No.: 20327519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20327519005	**Four**	EPA 365.4	339548	EPA 365.4	339746
20327519006	**Five**	EPA 365.4	339548	EPA 365.4	339746
20327519007	**Triangle**	EPA 365.4	339548	EPA 365.4	339746
20327519008	**P1**	EPA 365.4	339548	EPA 365.4	339746
20327519009	**P2**	EPA 365.4	339548	EPA 365.4	339746
20327519010	**Culvert**	EPA 365.4	339548	EPA 365.4	339746
20327519001	**Bridge**	SM 4500-NH3 G	339785		
20327519002	**One**	SM 4500-NH3 G	339785		
20327519003	**Two**	SM 4500-NH3 G	339785		
20327519004	**Three**	SM 4500-NH3 G	339785		
20327519005	**Four**	SM 4500-NH3 G	339785		
20327519006	**Five**	SM 4500-NH3 G	339785		
20327519007	**Triangle**	SM 4500-NH3 G	339785		
20327519008	**P1**	SM 4500-NH3 G	339785		
20327519009	**P2**	SM 4500-NH3 G	339785		
20327519010	**Culvert**	SM 4500-NH3 G	339785		
20327519001	**Bridge**	SM 4500-P E	339416		
20327519002	**One**	SM 4500-P E	339416		
20327519003	**Two**	SM 4500-P E	339416		
20327519004	**Three**	SM 4500-P E	339416		
20327519005	**Four**	SM 4500-P E	339416		
20327519006	**Five**	SM 4500-P E	339416		
20327519007	**Triangle**	SM 4500-P E	339416		
20327519008	**P1**	SM 4500-P E	339416		
20327519009	**P2**	SM 4500-P E	339416		
20327519010	**Culvert**	SM 4500-P E	339416		
20327519001	**Bridge**	SM 4500-NO3 F	339633		
20327519002	**One**	SM 4500-NO3 F	339633		
20327519003	**Two**	SM 4500-NO3 F	339633		
20327519004	**Three**	SM 4500-NO3 F	339633		
20327519005	**Four**	SM 4500-NO3 F	339635		
20327519006	**Five**	SM 4500-NO3 F	339635		
20327519007	**Triangle**	SM 4500-NO3 F	339635		
20327519008	**P1**	SM 4500-NO3 F	339635		
20327519009	**P2**	SM 4500-NO3 F	339635		
20327519010	**Culvert**	SM 4500-NO3 F	339635		

Pace® Location Requested (City/State):
Pace Analytical Baton Rouge
7979 Innovation Park Dr, Suite A
Baton Rouge, LA 70820

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 20327519

20327519

Company Name:	Comite Resources	Contact/Report To:	Jason Day
Street Address:	PO Box 66596, Baton Rouge, LA 70896	Phone #:	(225) 205-5777
		E-Mail:	jnday@comiteres.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	SANKOFA	Invoice To:	Robert Lane
		Invoice E-Mail:	rlane@comiteres.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Louisiana

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Juanita Polanco

AcctNum / Client ID:

Table #:

Profile / Template: 9620

Prelog / Bottle Ord. ID: EZ 3138185

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	BOD	Fecal Coli (Water)	Orthophosphate	TKN, TPhos, NH3, N/N	TSS	Sample Comment	Preservation non-conformance identified for sample.
Bridge	WT	11:00								X	X	X	X	X		
One	WT	11:20								X	X	X	X	X		
Two	WT	12:00								X	X	X	X	X		
Three	WT	12:20								X	X	X	X	X		
Four	WT	12:30								X	X	X	X	X		
Five	WT	12:45								X	X	X	X	X		
Triangle	WT	10:30								X	X	X	X	X		
P1	WT	1:30								X	X	X	X	X		
P2	WT	1:30-1:45								X	X	X	X	X		
Culvert	WT	2:00								X	X	X	X	X		

Additional Instructions from Pace®: EF3 10.6 on ice

Collected By: (Printed Name) Jason Day

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Comite Resources	8.19.24 4:05		8/19/24 1605	EF3 8.5, 6.8, 4.8
Relinquished by/Company: (Signature)	8/19/24 1614	Received by/Company: (Signature)	8-19-24 16:14	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	8/19/24 17:30	Received by/Company: (Signature)	8/19/24 17:30	[ ] FedEX [ ] UPS [ ] Other 4.9
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Pace

Sample Condition Upon Receipt (SCUR)

WO#: 20327519

PM: JP1 Due Date: 09/04/24

CLIENT: BR-Comite

1000 Riverbend Blvd, Suite F, St. Rose, LA 70087

Cooler Inspected by/date: [illegible] 8/20/24

Means of receipt: ☐ Pace ☑ Client ☐ UPS ☐ FedEx ☐ Other:

☐ Yes	☐ No	☐ NA	Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	If custody seals were present, were they intact and unbroken?

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 12 IR Gun Correction Factor: 0 °C

Cooler #1	Cooler Temp °C:	4.8	(Actual/True)
Cooler #2	Cooler Temp °C:		(Actual/True)
Cooler #3	Cooler Temp °C:		(Actual/True)
Cooler #4	Cooler Temp °C:	4.9	(Actual/True)

Samples on Ice ☐ Yes ☐ No

pH Strip Lot #

Method of coolant: ☐ Wet ☐ Ice Packs ☐ Dry Ice ☐ None

Tracking #:

☑ Yes	☐ No	☐ NA	Is a temperature blank present?	
☑ Yes	☐ No	☐ NA	Was a chain of custody (COC) received?	
☑ Yes	☐ No	☐ NA	Was the line and profile number listed on the COC?	Eg 109
☑ Yes	☐ No	☐ NA	Were all coolers received at or below 6.0°C? If no, notify Project Manager via email. Email Notification Date and Time:	
☑ Yes	☐ No	☐ NA	Were proper custody procedures (relinquished/received) followed?	
☑ Yes	☐ No	☐ NA	Is the sampler name and signature on the COC?	
☑ Yes	☐ No	☐ NA	Were sample IDs listed on the COC and all sample containers?	
☑ Yes	☐ No	☐ NA	Was collection date & time listed on the COC and all sample containers?	
☑ Yes	☐ No	☐ NA	Did all container label information (ID, date, time) agree with the COC?	
☑ Yes	☐ No	☐ NA	Were tests to be performed listed on the COC?	
☐ Yes	☑ No	☐ NA	Did all samples arrive in the proper containers for each test and in good condition (unbroken, lids on, etc.)? (1)	See Below (1)
☑ Yes	☐ No	☐ NA	Was adequate sample volume available?	
☑ Yes	☐ No	☐ NA	Were all samples received within ½ the holding time or 48 hours, whichever comes first?	
☑ Yes	☐ No	☐ NA	Were all samples containers accounted for? (No missing/excess)	
☐ Yes	☐ No	☑ NA	Were VOA, 8015C (GRO/VPH), and RSK-175 samples free of bubbles > "pea size" (1/4" or 6mm in diameter) in any of the VOA vials?	
☐ Yes	☐ No	☑ NA	Was there a trip blank present?	
☐ Yes	☐ No	☑ NA	Filtered volume received for dissolved tests? *If no, list affected sample(s) in comments below.*	
☐ Yes	☐ No	☑ NA	Were all metals/nutrient samples received at a pH of < 2?	If No, was preservative added? (2) ☐ Yes ☐ No If added, record lot# dispenser/pipette lot #: 24007607-1
☐ Yes	☑ No	☐ NA	Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? (2)	HNO3 H2SO4 NaOH Date: 8/20 Time: 1000AM

Comments:

(1) Samples 008, 009, 010 received in incorrect containers

(2) Samples 008, 009, 010 added H2SO4