



# November 2017 Monthly Report



Key Largo Wastewater Treatment District

103355 Overseas Highway

Tel: (305)451-4019

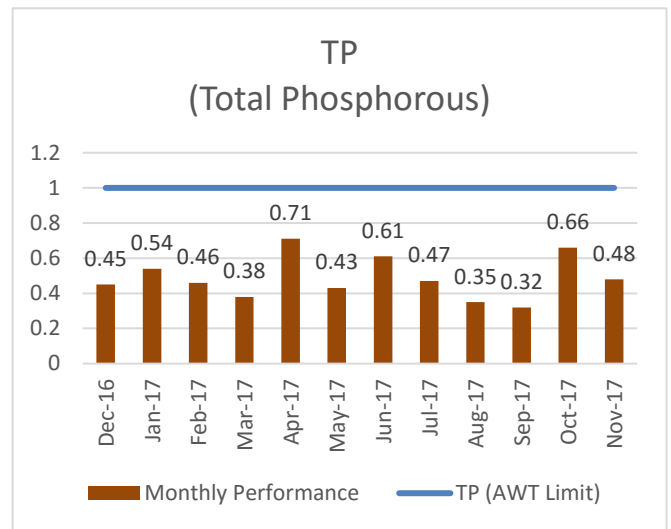
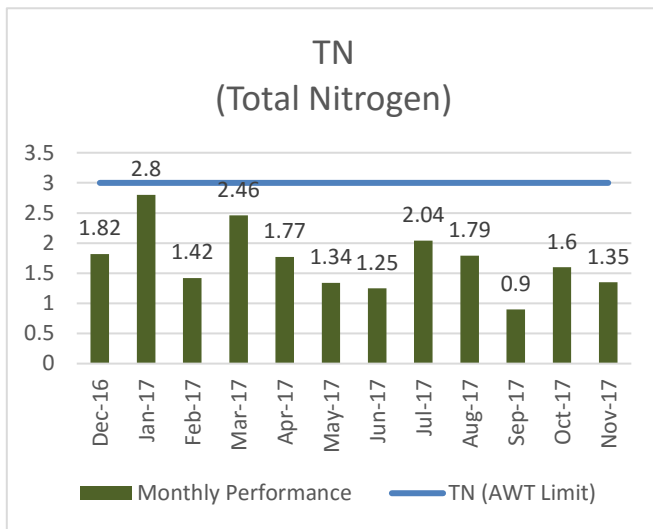
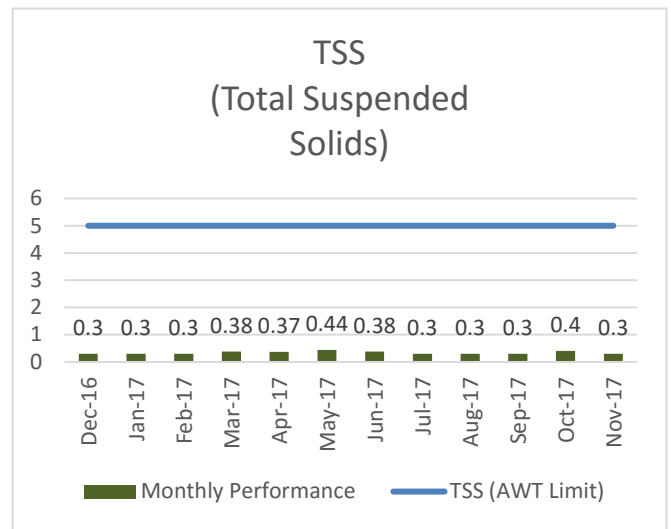
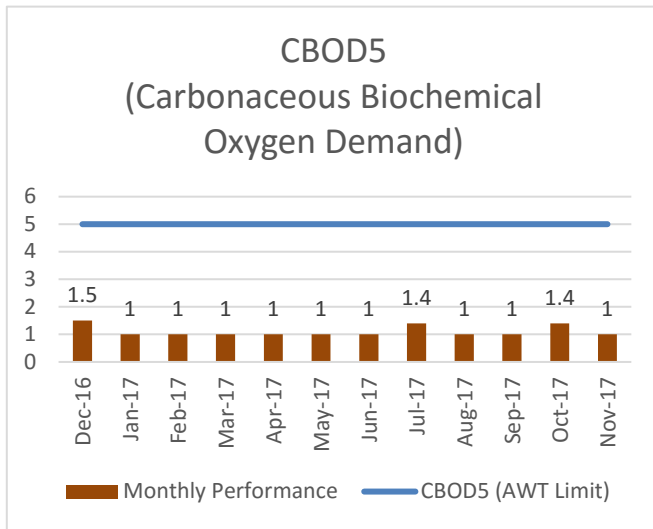
# Operations

## Wastewater Treatment Plant

The wastewater treatment plant processed an average of 1.6 million gallons of influent per day (MGD). Zero plant related odor complaints were received for the current month.

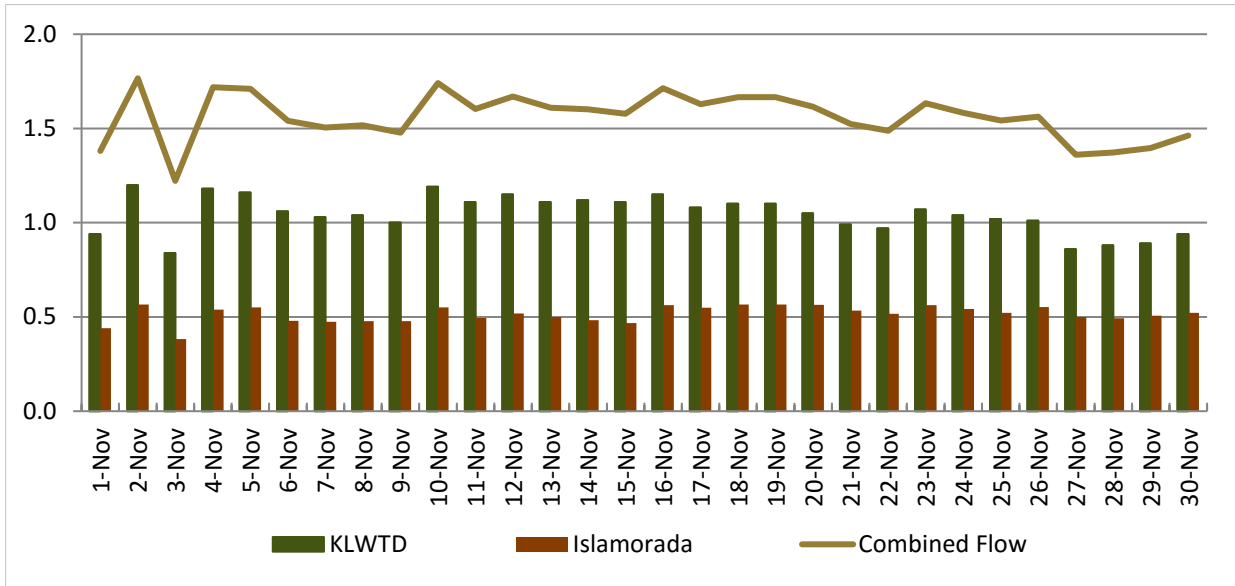
### Effluent Quality Report

The effluent quality report is used to determine the quality of discharge from the wastewater treatment plant.



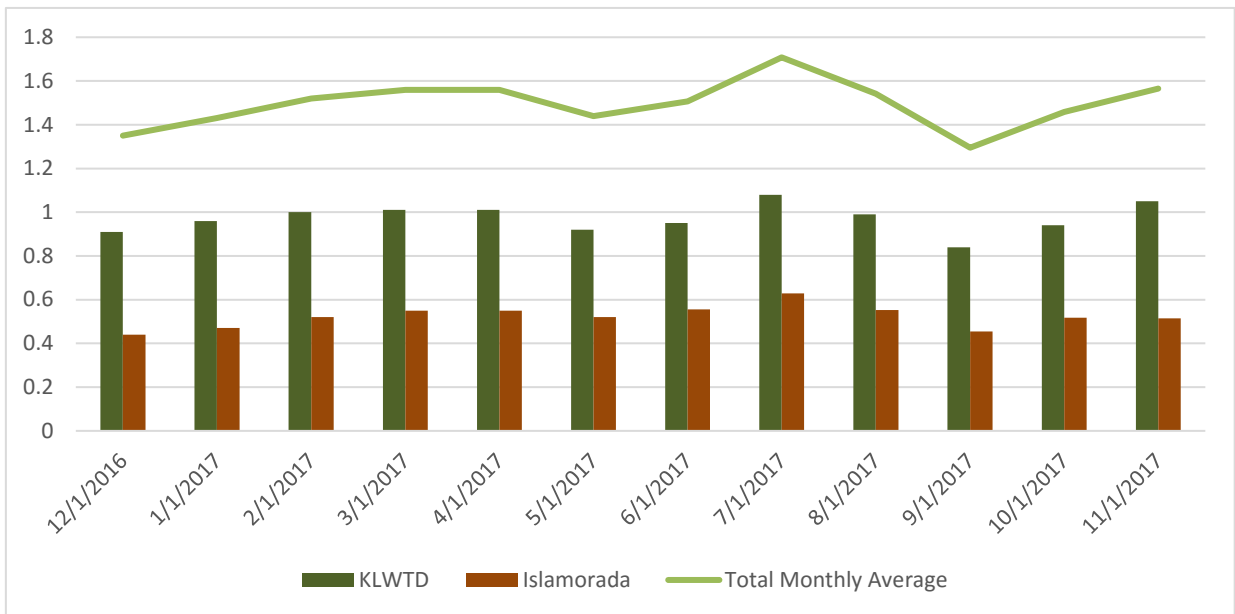
### Current Flow (MGD)

The total flow of influent through the wastewater treatment plant each day.



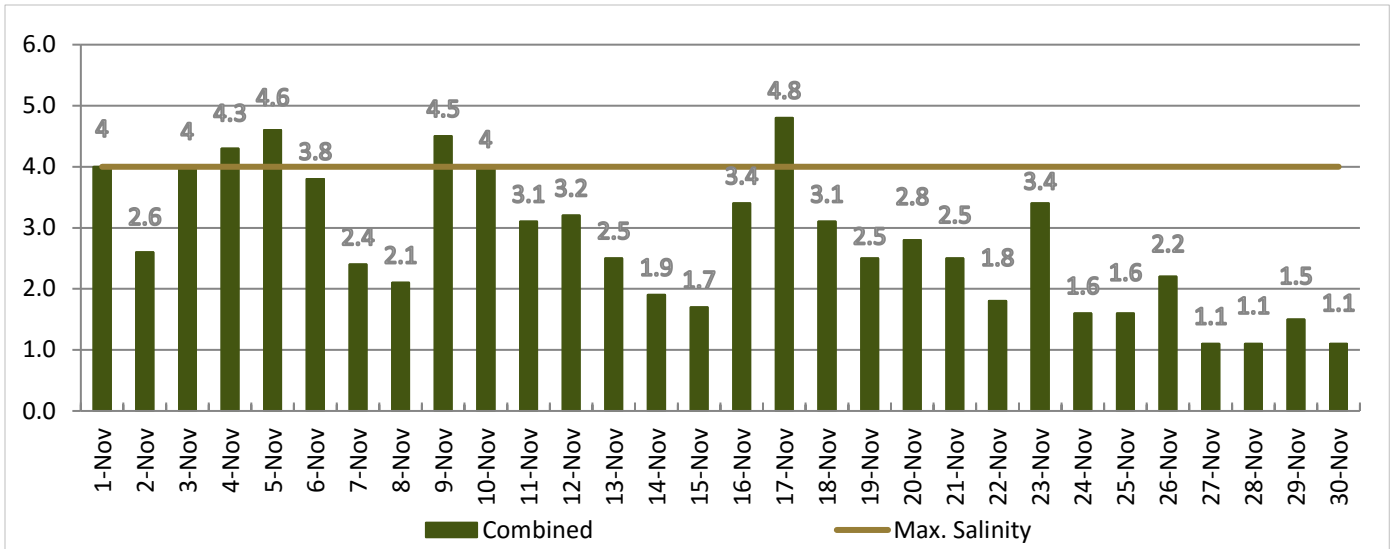
### Monthly Flow Average

Average Daily Flows per Month – Prior 12 Months



### Composite Daily Peak Salinity (PPT)

The daily peak salinity for the current month.



### Wastewater Field Operations

There was a total of 45 callouts for the current month. Of these, 33 were system generated, mostly by low vacuum detection at a vacuum station. These 33 callouts had no effect on the District’s customers and the problems were corrected by the field staff before any negative consequences could occur. The remaining 12 callouts are as follows:

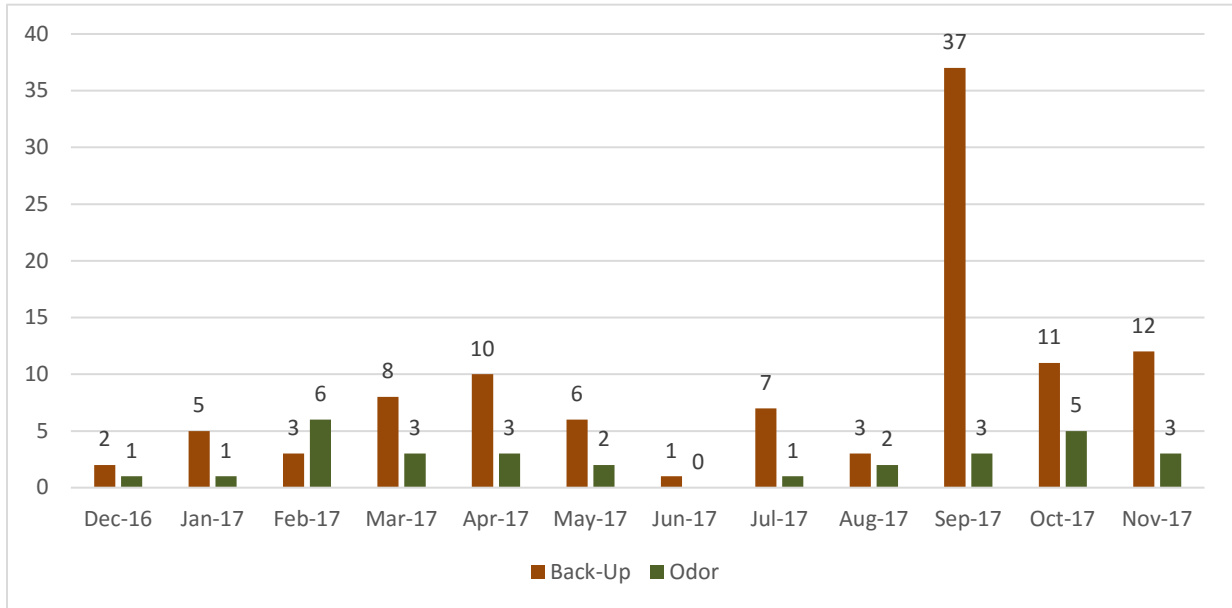
Date	Address	Incident	Response	Follow-up Complete?	Damage?
November 3, 2017	228 King Ave	Customer stated that her sewer was starting to back up	Diagnosed the issue to be the surge suppressor. Replaced the surge suppressor and simulated pit	Yes	No
November 3, 2017	164 Bahama Ave	Customer stated that her sewer was starting to back up into the shower	Diagnosed the issue to be that the vacuum line was disconnected from the controller cause the pit not to fire. Reattached vacuum line and simulated pit	Yes	No
November 10, 2017	202 Wildwood Circle	Customer stated that his sewer was starting to back up	Homeowner issue	Yes	No
November 16, 2017	415 Collins St	Customer stated that sewer was starting to back up	Homeowner issue	Yes	No
November 25, 2017	26 Mangrove Lane	Customer stated that sewer was backing up	Diagnosed the issue to be a broken vacuum main. Found that a contractor had drilled through the vacuum main while installing a post for a new gate. KLWTD crew dug out area around broken main and made repair.	Yes	No
November 26, 2017	92780 Overseas Hwy	Customer stated that the buffer tank outside of the business was starting to back up	Diagnosed issue to be the orange vacuum supply line that broke from dry rot. Cut off damaged end and replaced hoses. Disinfected area around buffer tank.	Yes	No

November 27, 2017	Lot 38 Calusa	Customer stated that her sewer was backing up	Diagnosed issue to be surge suppressor. Replaced surge suppressor and simulated pit.	Yes	No
November 27, 2017	95231 Overseas Hwy	Customer stated that his sewer was backing up	Homeowner issue	Yes	No
November 27, 2017	91750 Overseas Hwy	Customer stated that buffer tank outside of his business was starting to back up	Diagnosed issue to be the valve. Replaced the valve and cleaned the buffer tank.	Yes	No
November 27, 2017	99600 Overseas Hwy	Customer stated that his sewer was starting to back up	Diagnosed the issue to be debris stuck in the valve. Cleared the debris and the pit simulated with no problem.	Yes	No
November 28, 2017	22 North Drive	Customer stated that her toilets were starting to back up	Diagnosed the issue to be a broken sensor tube. Replaced tube and simulated the pit	Yes	No
November 29, 2017	104250 Overseas Hwy	Customer stated that there was sewage coming out of the ground on her property	Diagnosed the issue to be a broken force main connection on the customer side. Customer issue	Yes	No

There were 3 odor complaints for the current month.

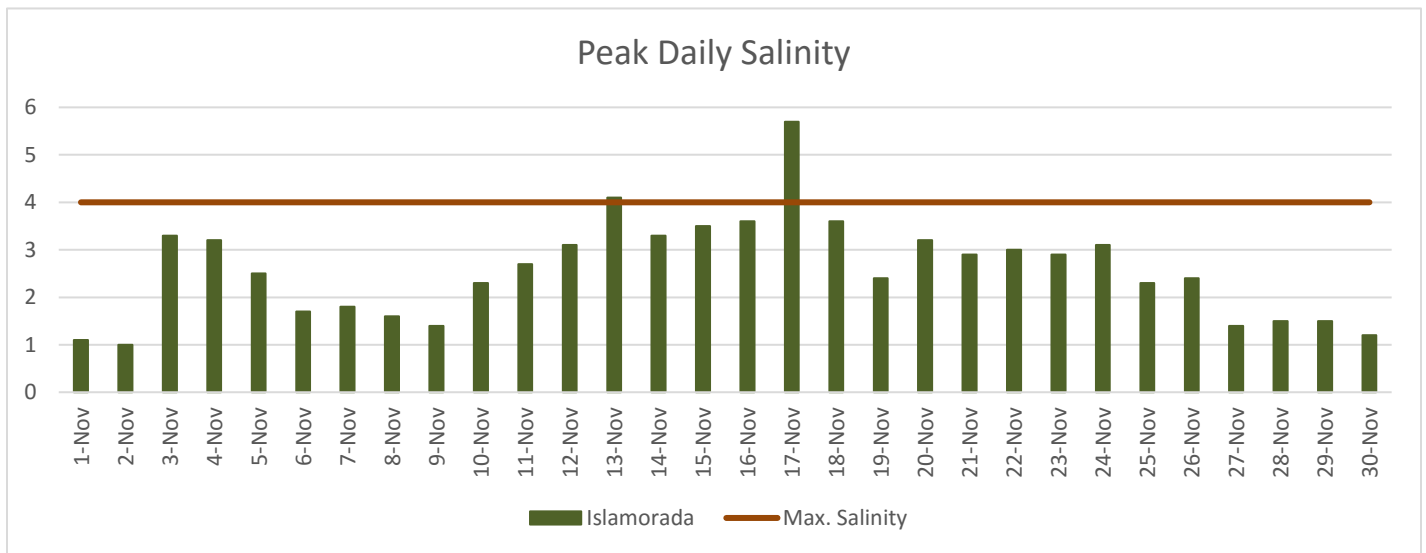
Date	Address	Incident	Response	Follow-up Complete?
November 2, 2017	776 Bostwick Drive	Customer stated that he has a strong sewer smell in his house.	Homeowner issue. System functioning properly. No smell detected.	Yes
November 17, 2017	22 Osprey Road	Customer stated that she has a strong sewer odor coming from her bathroom	Homeowner issue. System functioning properly. No smell detected.	Yes
November 21, 2017	236 2 <sup>nd</sup> Road	Customer stated that there is a strong sewer smell and that the manhole outside his home is gurgling.	Diagnosed the issue to be the surge suppressor, replaced surge suppressor and simulated pit. Placed air freshener in air intake to help with odor.	Yes

### Callouts – Prior 12 Months



\*September 2017 high callout numbers are due in large part to damages sustained during Hurricane Irma

### Islamorada



Average Daily Flow	Monthly Peak Salinity	Days over 4.0 PPT Salinity	Monthly Bill
0.515 Million Gallons per Day	5.7 Parts per Thousand	2	Flow: \$71,884.35 Salinity: \$0

#### Commercial Tie-Ins Approved

1. No Commercial Tie-Ins for November 2017

## Construction

### Current Construction Projects

Project	Contract Amount	Contract Start	Contract Total Paid to Date	Contract Balance Remaining
No Current Projects				

### Upcoming Construction Projects

Project	Estimate	Status
Headworks Bypass Piping	\$376,510	Headworks bypass piping design is complete. Valve actuators have been included in the design. Replacement of corroded conduit and repair of concrete and coatings is also included in the project. It is anticipated that the project will go out to bid in December 2017.
Process Water Pumping System	\$144,550	The plant process water pumping system design was completed. The technical specifications are to be assembled. The project will be bid along with the headworks bypass piping project. It is anticipated that the project will go out to bid in December 2017.
Bridge to SBR #3	\$44,245	The design of the bridge from the operations building 3 <sup>rd</sup> floor walkway to the SBR #3 walkway was completed. Technical specifications are to be assembled. It is anticipated that the project will go out to bid in December 2017.
Solar Shade Cover for CCCs	\$115,000	The Board approved moving forward with design and bidding for the use of photovoltaic panels to be used to provide shade over the chlorine contact basins at the November 14 <sup>th</sup> Board meeting. The design and technical specifications for the PV array are being assembled. It is anticipated that the project will be advertised for bids in January 2018.

## Maintenance

Project	Status
Preventative Maintenance	Installed emergency generator receptacles at Harborage and KL trailer park, Semi-annual vibration tests on injection well pumps, rebuilt and installed sewage pump at Vac station G, plumbed and wired SBR filtrax units, calibrated Islamorada and Key Largo influent composite samplers, cleaned digester blower panel, Painted skid steer, annual maintenance on service trucks and performed all monthly and weekly maintenance, inspections and corrosion control on plant and field operations equipment and vehicles.
Corrective Maintenance	Diagnosed and repaired SBR 3 process probe controller, replaced worn sewage pump at KL trailer park, installed new digester blower panel HMI display, diagnosed and repaired PLC network communication issue at Vac station D, removed injection well pump and motor for repair, repaired headworks high level float brackets, replaced compressor at Vac station D.

## Customer Service

### Tie-Ins

	Number of EDUs	% of EDUs	Number of Parcels	% of Parcels
Improved Parcels Not Connected	259.6	1.7%	137	1.3%
Improved Parcels Connected	14,772.4	98.3%	10240	98.7%
<b>Total</b>	<b>15,032.0</b>	<b>100%</b>	<b>10,377</b>	<b>100%</b>

Vacant EDUs Not Connected	Vacant Parcels Not Connected
1,652.8	1,710

### Customer Service Call-Ins

	Total
Approval to Proceed	21
Back-Ups	8
Billing	2
Breather Issue	1
Code Compliance	1
Collections	12
Damage	2
Demo	11
Grease Trap	1
Locate	10
MOD Call	2
Odor	1
Tie-In	12
<b>Total</b>	<b>84</b>

### Code Enforcement

	Current Month	Total
Letter to Proceed	21	19,499
Grant	0	128
Deferred	3	365
In Contract	0	292
Final Notice	0	573
Door Hanger	0	244
Code Enforcement	0	343

\*Code Enforcement files will be taken to the Monroe County Code Enforcement Department the last week of the month.



**GSG/CDBG Status**

	Applications Approved	In Verification Process	Incomplete Applications	Denied	Withdrawn
Current Status	226	3	1	94	102

Total Grant Applications
426

**Budget & Finance**

**Current Debt Status**

<b>SRF Loan – KLNC01P</b>	\$15,991,516.78
<b>SRF Bonded Loan - KLNC 010</b>	\$9,300,506.28
<b>BB&amp;T 2013 Bond</b>	\$7,480,210.42
<b>BB&amp;T 2014 Bond</b>	\$7,481,344.96
<b>Current Balance of all loans:</b>	<b>\$40,253,578.44</b>

**Cash Flow**

	Deposits	Withdrawals
<b>Wastewater Billing Deposits</b>	\$679,991.12	
<b>Assessment Revenue Received</b> (Non-Ad Valorem & SDC Prepayments)	\$1,086,849.68	
<b>Islamorada Revenue</b>	\$255,908.19	
<b>Interest Income</b>	\$3,031.91	
<b>District Expenditures</b>		\$533,718.14
<b>Payroll</b>		\$100,963.84
<b>Total</b>	<b>\$2,025,780.09</b>	<b>\$634,681.98</b>