



St. Charles Parish Department of Public Works

Department of Public Works

- ▶ Parish Assets
 - ▶ St. Charles Parish has 54 Pump Station Locations
 - ▶ Pumps ranging from 12" to 72"
 - ▶ 81 Engine Pump Assemblies
 - ▶ 53 Motor Pump Assemblies
 - ▶ 32 West Bank Stations
 - ▶ 22 East Bank Stations
 - ▶ 41 Generators
 - ▶ This year we have added 2 new generators and upgraded the size of one.





Pump Stations



- ▶ Completed

- ▶ Willowdale
- ▶ Willowridge
- ▶ Magnolia
- ▶ Mimosa
- ▶ Cortez

- ▶ In Construction

- ▶ Oak Street
- ▶ Engineers Canal

- ▶ Upgrades In Design

- ▶ Fairfield
- ▶ East Oakland
- ▶ Montz Prescott
- ▶ Destrehan #2
- ▶ New Sarpy
- ▶ Schexnaydre
- ▶ Ama

- ▶ In Design

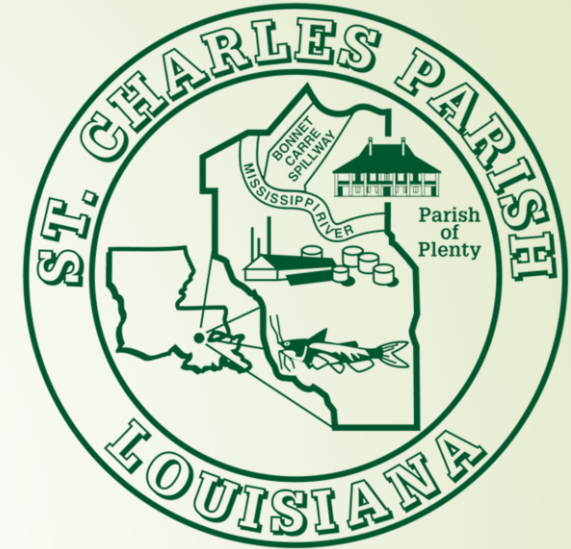
- ▶ Montz Prescott
- ▶ Turtle Pond



Work Orders



▶ 2016	8,591 Work Orders
▶ 2017	10,563 Work Orders
▶ 2018	11,256 Work Orders
▶ 2019	14,011 Work Orders



St. Charles Parish Enterprise Asset Management

EAM



Enterprise Asset Management

- ▶ One of the Parish's main goals for its new EAM system was to **create a preventive maintenance plan** for our current and future assets.
- ▶ The department wanted to **manage assets more efficiently** through technology.
- ▶ The department wanted to **go Paperless.**
- ▶ Now Parish employees can look up an asset to determine its location and maintenance history, and use that data to help in **repairing or replacing** of assets.

Enterprise Asset Management

The screenshot displays the Enterprise Asset Management web application. At the top, there is a navigation bar with the St. Charles Parish logo and various menu items: Home, Service Requests, Maintenance Foreman, Work Mgmt, AdHoc Query, Asset Mgmt, Notifications, Error Handler, MobileFocus, Reports, Dashboards, Capital Planning, Capital Projects, Storekeeper, and SR standalone. The user is logged in as TBREAUX.

The main content area is titled 'Asset Summary' and shows a summary for 'Generator Assembly (GENERATORS)' with 41 assets. Below this is a 'Map' section displaying an aerial view of the area with several asset markers. A 'Layers' panel on the left shows the 'GENERATORS' layer is active. Below the map is a table of assets.

Asset ID	Description	Manufacturer	Model	Asset Number	Station Location	Equipment Type
1001-GENERATOR A	GEN ASSEMBLY - WEST BANK YARD A - 100KW	BALDOR	IDLC1003JU	13107	PW WEST	GEN ASSEMBLY-BALDOR
1001-GENERATOR B	GEN ASSEMBLY - WEST BANK YARD B - 50KW	NEWAGE	992422902		PW WEST	GEN ASSEMBLY-NEWAGE
1003-GENERATOR	GEN ASSEMBLY - PW DIRECTOR'S OFFICE - 150KW	BALDOR	IDLC4803JU	12622	PW DIR	GEN ASSEMBLY-BALDOR
1101-GENERATOR	GEN ASSEMBLY - BOUTTE PS - 500KW	BALDOR	IDLC5002DU	13792	BOUTTE	GEN ASSEMBLY-BALDOR
1201-GENERATOR	GEN ASSEMBLY - 80 ARPENT PS - 500KW	BALDOR	IDLC5002DU	13101	80 ARPENT	GEN ASSEMBLY-BALDOR
2001-GENERATOR A	GEN ASSEMBLY - SECTOR GATE A - 100KW	CUMMINS	DGCM10011001		WDV 74	GEN ASSEMBLY-CUMMINS

At the bottom of the interface, there are buttons for 'Back', 'Create Capital Project', 'Create Work Project', 'Create Multi-asset WO', and 'Export CSV'. The Windows taskbar at the very bottom shows the date and time as 9/30/2019, 1:51 PM.

Enterprise Asset Management

Enterprise Asset Management

10.5.250.13/EAM_PROD/AssetPortal/

Messages | Screens | Reports | Admin

ST. CHARLES PARISH

Welcome TBREAUX | Help | Logoff GMT-5

Home | Service Requests | Maintenance Foreman | Work Mgmt | AdHoc Query | **Asset Mgmt** | Notifications | Error Handler | MobileFocus | Reports | Dashboards | Capital Planning | Capital Projects | Storekeeper | SR standalone

Asset Summary

Summary

Generator Assembly (GENERATORS)

Assets 41

Filter

Map

Assets

Asset Viewer

Equipment ID: **2307-GENERATOR** GEN ASSEMBLY - WILLOWRIDGE PS - 800KW

Service Status:

Manage Work | Work History

Basic Info

Year Manufactured 2017
 Manufacturer CUMMINS
 Model GENERATOR ASSEMBLY
 Equipment Type GEN ASSEMBLY-CUMMINS
 Description GEN ASSEMBLY - WILLOWRIDGE PS - 800KW
 Color
 Serial Number F160971913
 Asset Number
 Asset Category GEN ASSEMBLY - GENERATOR ASSEMBLY
 Asset Type STATIONARY

Assignment Info

Department DR ELEC - PW DRAINAGE ELECTRICAL

Position

Latitude 29.884584
 Longitude -90.344135

Motor Pool

Dispatch Status
 Dispatch Location
 Pool Vehicle Type

Locations

Assigned PM PW ELEC - PW ELECTRICAL
 Assigned Repair PW ELEC - PW ELECTRICAL
 Assigned Mobile
 Station WILLOWRIDG - WILLOWRIDGE PUMP STATION
 Stored
 Current
 Parking Stall

Acquisition

Delivery Date
 In Service Date
 Months Remaining 0
 Original Cost
 Capitalized Value
 Original Cost + Capitalized Value
 Estimated Replacement Month 0
 Estimated Replacement Year 0
 Estimated Replacement Meter
 Estimated Replacement Cost
 Planned Retirement Date

Historical Costs

Assets

Asset ID	Description	Manufacturer	Model	Asset Number	Station Location	Equipment Type
2305-GENERATOR	GEN ASSEMBLY - NOLA PS - 250KW	CUMMINS	DQDA806335	12262	NOLA	GEN ASSEMBLY-CUMMINS
2306-GENERATOR	GEN ASSEMBLY - WILLOWDALE PS - 50KW	OLYMPIAN	OLY00000KNPF018	10407	WILLOWDALE	GEN ASSEMBLY-OLYMPIAN
2307-GENERATOR	GEN ASSEMBLY - WILLOWRIDGE PS - 800KW	CUMMINS	DQCC1619219		WILLOWRIDG	GEN ASSEMBLY-CUMMINS
3001-GENERATOR	GEN ASSEMBLY - CROSS BAYOU PS - 135KW	ONSITE ENERGY	D000125D6SRAK05		CROSS BAYO	GEN ASSEMBLY-ONSITE ENERGY
3502-GENERATOR	GEN ASSEMBLY - DESTREHAN 1 PS - 350KW	ONAN	3500DFN17R/1B		SPARE	GEN ASSEMBLY-ONAN

Back | Create Capital Project | Create Work Project | Create Multi-asset WO | Export CSV

Type here to search

2:24 PM 9/30/2019



Enterprise Asset Management

- ▶ We can now track asset data
 - ▶ Schedule Services
 - ▶ Warranty
 - ▶ Parts used on an asset
 - ▶ Documents/Files of an asset
- ▶ Reporting
 - ▶ At any given time we can run reports based on equipment data

Enterprise Asset Management

The screenshot displays a web browser window with the URL 10.5.250.13/EAM_PROD/FAQuery/. The page content is organized into sections for different generator assemblies, each followed by a table of test results. The tables include columns for Task Code, Result, Work Order No., Date/Time Insert, Test Completed, Not Performed, Value Found, and Unit Measure.

PW ELEC, 3503-GENERATOR, GEN ASSEMBLY - SPARE - 60KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2448	9/3/2019	HOURS START	N	7.3	HRS
GEN-0053	PERFORMED	2555	9/10/2019	HOURS START	N	7.4	HRS
GEN-0053	NOT PERFORMED	2622	9/13/2019	HOURS START	Y		HRS

PW ELEC, 4202-GENERATOR, GEN ASSEMBLY - CORTEZ PS - 250KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2432	9/3/2019	HOURS START	N	653	HRS
GEN-0053	PERFORMED	2539	9/10/2019	HOURS START	N	653	HRS
GEN-0053	PERFORMED	2606	9/13/2019	HOURS START	N	654	HRS

PW ELEC, 4204-GENERATOR, GEN ASSEMBLY - PARADIS PS - 250KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2433	9/3/2019	HOURS START	N	175.3	HRS
GEN-0053	PERFORMED	2540	9/10/2019	HOURS START	N	176	HRS
GEN-0053	PERFORMED	2607	9/13/2019	HOURS START	N	177	HRS

PW ELEC, 4205-GENERATOR 1, GEN ASSEMBLY - SUNSET PS A - 22KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2434	9/3/2019	HOURS START	N	64.1	HRS
GEN-0053	PERFORMED	2541	9/10/2019	HOURS START	N	64.1	HRS
GEN-0053	PERFORMED	2606	9/13/2019	HOURS START	N	64.8	HRS

PW ELEC, 4205-GENERATOR 2, GEN ASSEMBLY - SUNSET PS B - 50KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2435	9/3/2019	HOURS START	N	289.3	HRS
GEN-0053	PERFORMED	2542	9/10/2019	HOURS START	N	290	HRS
GEN-0053	PERFORMED	2609	9/13/2019	HOURS START	N	290.5	HRS

PW ELEC, 4209-GENERATOR, GEN ASSEMBLY - RANDOLPH PS - 250KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2436	9/3/2019	HOURS START	N	527.2	HRS
GEN-0053	PERFORMED	2543	9/10/2019	HOURS START	N	528.09	HRS
GEN-0053	PERFORMED	2610	9/13/2019	HOURS START	N	528.91	HRS

PW ELEC, 5401-GENERATOR, GEN ASSEMBLY - 4TH STREET PS - 250KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2449	9/3/2019	HOURS START	N	136.1	HRS
GEN-0053	PERFORMED	2556	9/10/2019	HOURS START	N	137.4	HRS
GEN-0053	PERFORMED	2623	9/13/2019	HOURS START	N	138.1	HRS

PW ELEC, 5402-GENERATOR, GEN ASSEMBLY - DIANE PS - 100KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2450	9/3/2019	HOURS START	N	846.4	HRS
GEN-0053	PERFORMED	2557	9/10/2019	HOURS START	N	847.6	HRS
GEN-0053	PERFORMED	2624	9/13/2019	HOURS START	N	848.5	HRS

PW ELEC, 5403-GENERATOR, GEN ASSEMBLY - FAIRFIELD PS - 150KW, 2019

Task Code	Result	Work Order No	Date/Time Insert	Test Completed	Not Performed	Value Found	Unit Measure
GEN-0053	PERFORMED	2451	9/3/2019	HOURS START	N	688.8	HRS
GEN-0053	PERFORMED	2558	9/10/2019	HOURS START	N	689.4	HRS
GEN-0053	PERFORMED	2625	9/13/2019	HOURS START	N	690	HRS

PW ELEC, 5404-GENERATOR, GEN ASSEMBLY - OAK PS - 250KW, 2019



Enterprise Asset Management

- ▶ St. Charles Parish now has 2 departments using EAM with more coming in the future.
 - ▶ **Public Works**
 - ▶ Drainage
 - ▶ Electrical
 - ▶ Fleet
 - ▶ Roads (implementation)
 - ▶ **Government Buildings**



ST. CHARLES PARISH TELEMETRY SYSTEM

Alarm History Alarm Events Historian Client

Parish Map
Eastbank Stations
Westbank Stations

Eastbank Drainage Station
Bayou Trepagnier
Cross Bayou
Destrehan 1
Destrehan 2
Diane
Engineer's
Fairfield
4th Street
New Sarpy
Oakland
Oak Street
Prescott
Schenaydre
Walker

Today's Rain Totals
Yesterday's Rain Totals
Inlet Levels

ACK ALL	Time	Status	Station	Parameter	Alarm	EOC	Action
	10/2/2019 11:48:59 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data_Low_Level_P2	Alarm	EOC	Acknowledge All Alarms
	10/2/2019 11:48:58 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_2_Low_Level_Level	Alarm	EOC	Acknowledge All Alarms
	10/2/2019 11:48:43 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data_Low_Level_P4	Alarm	EOC	Acknowledge All Alarms
	10/2/2019 11:48:43 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_4_Low_Level_Level	Alarm	EOC	Acknowledge All Alarms
	10/2/2019 9:38:24 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data_Low_Level_P1	Alarm	EOC	Acknowledge All Alarms
	10/2/2019 8:35:24 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_1_Low_Level_Level	Alarm	EOC	Acknowledge All Alarms
	9/30/2019 8:57:24 AM	ACK	Oak_St_PS	Oak_St_Station_Data_City_Power	Alarm	EOC	Acknowledge All Alarms
	9/30/2019 1:35:36 PM	ACK	Destrehan2_PS	Destrehan2_Station_Data_City_Power	Alarm	EOC	Acknowledge All Alarms

System Login
User:
Password:
Login

St. Charles Parish SCADA System

SCADA System

- ▶ St. Charles Parish now has 31 stations on SCADA/Telemetry with 2 stations coming soon
 - ▶ Engineers Canal and Ellington Pump Station
 - ▶ The latest Pump Station added is Magnolia Ridge
 - ▶ 17 West Bank Stations
 - ▶ 14 East Bank Stations
- ▶ We are now implementing remote rain gauges with canal level data in areas up stream from the pumping stations.



SCADA System

MAGNOLIA RIDGE PUMP STATION

Fuel Data

Main Tank: 50.0
Day Tank: 100.0

Main Tank Valve: Closed
Day Tank Valve: Closed

Pump 1: Auto
Pump 2: Auto

Level Data

Level 1 Sump: -2.5 FT
Level 2 Sump: -2.6 FT
Level 3 Sump: -2.7 FT
Level 4 Sump: -2.7 FT

Inlet Level: 2.3 FT
Discharge Level: 2.6 FT

Station Data

PLC Clock: 11:38:5600 (H M S MS)

City Power: ●

Low Low Level P1: ●
Low Low Level P2: ●
Low Low Level P3: ●
Low Low Level P4: ●

Low DCUPS Voltage: ●
DC Surge: ●

Generator Data

Running: ●
Power On: ●

Transfer Switch Position: City Source

Structure: [Button]
Station 1: [Button]
Station 2: [Button]

15.0 FL

Pump 4: 0 RPM's
Pump 3: 0 RPM's
Pump 2: 0 RPM's
Pump 1: 0 RPM's

PLC: ● Float: ● Auto: ●

Discharge: [Button]

Bar Screens

Auto BarScreen 1: ■
Auto BarScreen 2: ■
Auto BarScreen 3: ■
Auto BarScreen 4: ■

Barscreens

Auto Exhaust Fan 1: ■
Auto Exhaust Fan 2: ■
Auto Exhaust Fan 3: ■
Auto Exhaust Fan 4: ■
Auto Exhaust Fan 5: ■
Auto Exhaust Fan 6: ■

Weather Data

Rain Total: 0.0 Inches
Yesterdays Rain Total: 0.0 Inches

Weather Data: [Reset Button]

System Login

User: tbreaux
Terry Breaux

9999

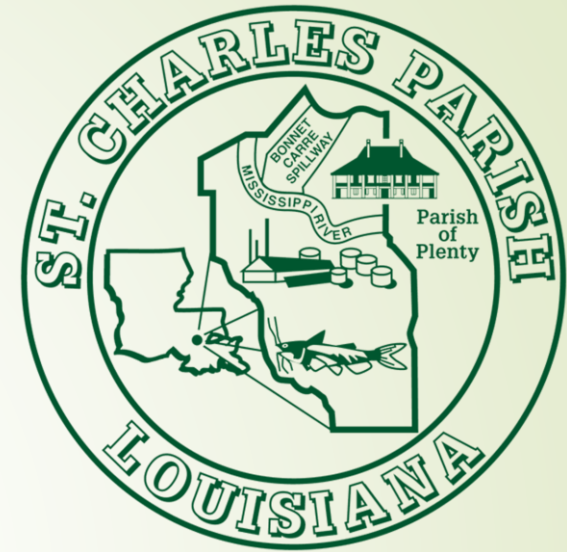
Logon [Button] LogOff [Button]

ACK ALL

10/2/2019 11:48:58 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data.Low_Low_Level_P2	Alarm	EOC	Acknowledge All Alarms
10/2/2019 11:48:58 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_2.Low_Low_Level	Alarm	EOC	Acknowledge All Alarms
10/2/2019 11:48:43 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data.Low_Low_Level_P4	Alarm	EOC	Acknowledge All Alarms
10/2/2019 11:48:43 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_4.Low_Low_Level	Alarm	EOC	Acknowledge All Alarms
10/2/2019 8:38:24 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Station_Data.Low_Low_Level_P1	Alarm	EOC	Acknowledge All Alarms
10/2/2019 8:38:24 AM	ACK	Magnolia_Ridge_PS	Magnolia_Ridge_Pump_1.Low_Low_Level	Alarm	EOC	Acknowledge All Alarms
9/30/2019 8:57:24 AM	ACK	Oak_St_PS	Oak_St_Station_Data.City_Power	Alarm	EOC	Acknowledge All Alarms
9/26/2019 1:35:36 PM	ACK	Destrehan2_PS	Destrehan2_Station_Data.City_Power	Alarm	EOC	Acknowledge All Alarms

10/4/2019

Parish Map [Button]
Eastbank Stations [Button]
Westbank Stations [Button]
West Bank Drainage Station [Button]
Ama Sellers [Button]
Cortez [Button]
Cousins Canal [Button]
Davis Barton [Button]
Davis Pond Diversion [Button]
80 Arpent [Button]
Hackberry [Button]
Kellogg [Button]
Magnolia Ridge [Button]
Old Kellogg [Button]
South Lakewood [Button]
Paradis [Button]
Sector Gate [Button]
SunSet Drainage [Button]
Tibby DA [Button]
Willowdale [Button]
Willowridge [Button]



THANK YOU

