

Update:

Haiti Partners Meeting  
St. Marie Madeline School and  
Church, Bondeau, Haiti



Water for Small Villages, Inc.

an IRS 501 (c)(3) organization

[www.waterforsmallvillages.org](http://www.waterforsmallvillages.org)

Steve Krupa , Epiphany Lutheran Church

Rick Miessau, Bethesda by the Sea

Almond Alexis, Port-Au-Prince

Steve Rowland, St. Andrews Episcopal Church. Palmetto Bay

March 21, 2015

Bethesda by the Sea Episcopal Church

Palm Beach, Florida

# Update on Generator Status and the Solar Proposal



## Current Generator Issues:

Phanrod says the generator is not working correctly, Aimond called him and spoke with him. It appears that the generator is working partially, “but it might just be the wiring”?

2<sup>nd</sup> Generator Oil Analysis came back with a slight improvement in metals from the oil analysis.

Table 1. Summary Table of Key Metal Parameters from SDMO Generator Oil Analysis

Parameter Analyzed	1 <sup>st</sup> Sample Date: January 17, 2014	2 <sup>nd</sup> Sample Date: November 3, 2014	Normal Values from Lab	Source of Value
ALUMINUM	12	11	2	Pistons, bearings, cases (heads & engine block)
CHROMIUM	17	12	1	Rings, a trace element in steel
IRON	63	61	9	Cylinders, rotating shafts, the valve train, and any steel part sharing the oil.

Possibly ?



### Generator Action Items:

Internally the generator engine is deteriorating. Manufactured Date: 2009

Question is, should the generator be replaced now:

- 1.) from the United States while we have a container or
- 2.) should we purchase one in Haiti and have it Installed
- 3.) Should this effort be picked up by someone else within the group?

## Solar Issues:

### Update

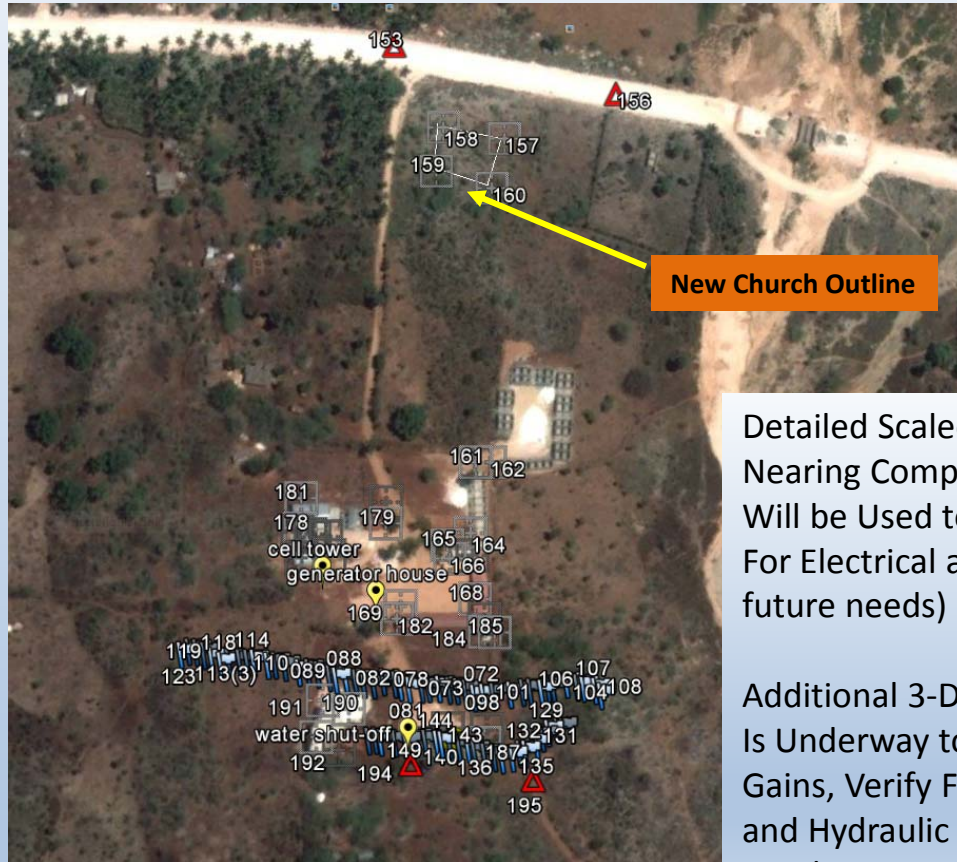
1. After a detailed site visit by Green Energy on November 3, 2014,
2. Sharing photographs, repeated calls by Aimond, emails and a visit to Green Energy
3. They have not delivered a proposal as of yet. I suggest we write a review about them so others don't go down the same path.
4. Maybe they:
  - a. don't think we have the funding
  - b. Or the overall wiring is in to much of a mess and problematic for them to install an operational system.

### Solar Action Items:

1. Plan B: Get another company to do the work
2. Behind the scenes a lot of energy/time is being spend on this effort also.
3. If we get a United States company to do the work should we ship the supplies (solar panels, batteries, mounting supplies etc.) down in the container?

Note: Once the solar is in, it will require a full time guard on the property 24 hours a day. This will require funding.

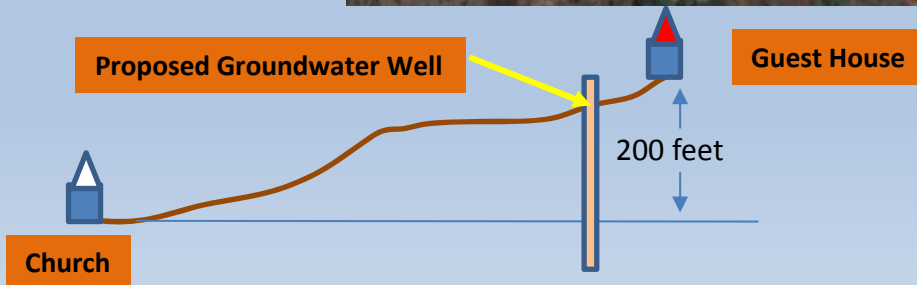
# Generalized Site Diagram for Bondeau Project



New Church Outline

Detailed Scaled Drawings  
Nearing Completion in AutoCAD  
Will be Used to Estimate Pipes  
For Electrical and Water (present and  
future needs)

Additional 3-D Topographic Analysis  
Is Underway to Evaluate Elevations  
Gains, Verify Fault Locations  
and Hydraulic Head Loss  
For the Water System

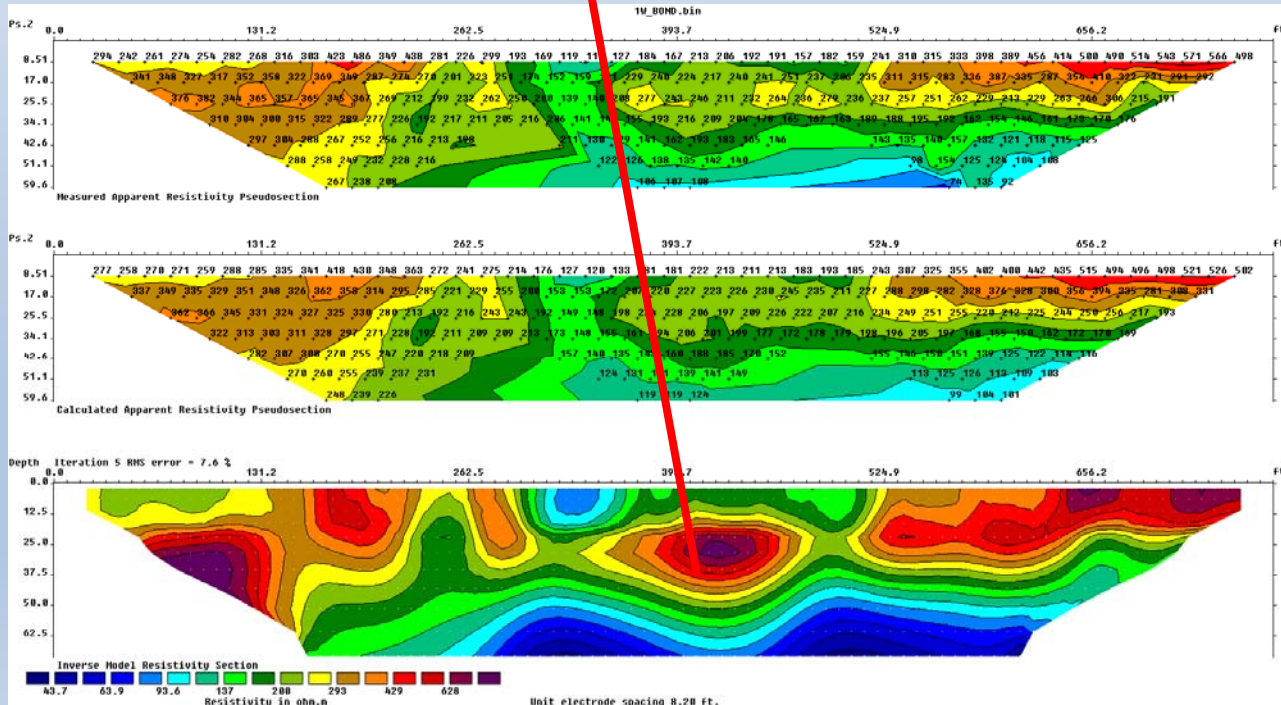


# Preliminary Geophysical Survey Results (Wenner Solution)

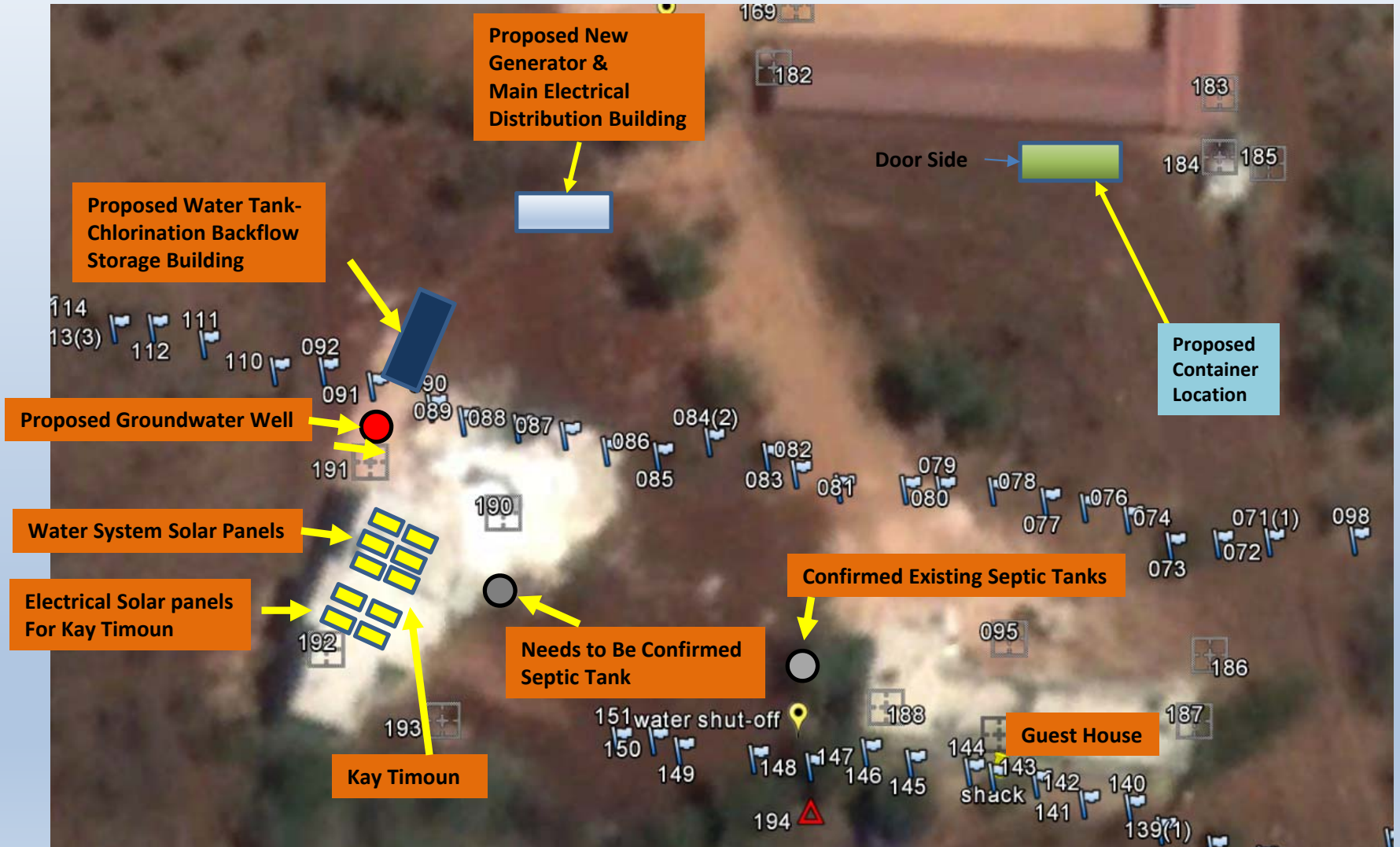


East Side

West Side



# Proposed Groundwater Well and Building Diagram for Bondeau Project



## Current Status of WFSV Efforts

1. Check has cleared the bank last week
2. Water system is going to be a stand alone solar driven system.
3. Met with distributors of pipes, water system and pumps already. Have decided which equipment to use.
4. Finalizing the list of supplies to purchase, will begin to order after this meeting. Estimated time to be ready to go is 3-4 weeks to ship.
5. Started dialogue with Water for Life in Haiti ([www.wflhaiti.org](http://www.wflhaiti.org)) for drilling of the well and the costs.
6. Decided where to place the solar panels and build a small water treatment building. This building will house the battery banks for the water system, control panel for the water system, chlorination tanks, water pressure tanks and also store extra chlorine tablets.



## Discussion

### Most Important Action Items for WFSV :

1. If a new Generator is Purchased a New Generator/Electrical Building will need to Be Constructed
2. Solar Installation – Next Step ?
3. Money needs to be allocated for the “Pump House” Building
4. Do you want to outfit the container with shelves, electrical connection and a workbench now, versus in Haiti?
5. Is the container going to ship partially filled?
6. Person in Delray Beach that is going to receive items.

### For Longer Term Issues:

Do we ship the pipes for Electrical and Water to the Church Now?

Distance is 1,200 feet/10 feet pieces = 120 pipes

120 pipes and junction boxes for electricity

120 pipes for water pipes

**If** we hit water do you want to send pipe and supplies in this container to install a hand pump as a backup out in the common area outside the gates?