**EWB Meeting – March 6, 2013**

* Reviewing RFP Responses
* Christie looked into connecting into the existing water line
* DP5 location – located further away and at a higher elevation
	+ Pressure issues
	+ Don’t have demands for sector 7 – need to know the number of homes or residences (Ask Anne Marie about chart for the number to send to Christie)
	+ Minimum service pressure: 10 (more is preferable)
	+ Would need a boost of 10-15 psi
	+ Might need more 3” pipe
	+ Big cost difference between 2” and 3” pipe – could tap in with 2” and expand to 3”
* There are plans for a hand-dug well near the highway
	+ What will the rate be if Apatut taps into the system
	+ Grant money – to expand the system (may not be affordable)
* Design Demand - 30 gallon/person/day
* Have yet to receive topo data form the college (have not yet started and they have no plans to go ahead yet)

**Next Steps**

* Christie will finish the modeling
* Start proposal for the water department (reduction in rates if we tie into the system)
* Walt, Octavio, Steve : will start working on the proposal
* Extra booster pump
	+ Christie will put together optional assemblies
* Review drilling proposals
	+ RB Rivera well-drilling
	+ Other proposal – unknown contractor
	+ Took several weeks to get the proposals back
	+ We can’t find a contractor who is willing to develop the well
	+ Ask Edgardo if he contacted drillers in the San Fernando area
	+ Bob has concerns about water chemistry issues
	+ Without good drilling contractors, bringing in the public water may be a better idea
	+ Matt was concerned that we’d lose Rotary support if we change course
	+ President of the Rotary – unresponsive
		- 1 or 2 weeks ago – Anne Marie heard from a local contact
	+ Water testing is expensive – difficult to find viable source
		- Bob tried to find one – have price list from SGS
	+ Ask Edgardo for names & addresses of contractor
		- Steph will email Edgardo
* Could perform an economic analysis between the two options for Rotary
	+ Might be more willing to find another water source option
* Summary of households – Steph/Amanda have it
* Upcoming trips
	+ Bob is willing to travel
	+ Before June or trip will be in the fall (Rainy season starts in June)
	+ Could to provide education & point of entry (POE) systems
	+ Limited funds
	+ Small travel team (2-3 people)
* Point of entry treatment option
	+ Steph did pricing on supplies – jugs and chlorine
* Contact Edgardo about supplies – contact beforehand
	+ Health Department
	+ Supplier for potable water jugs
* Pesticide testing – need sampling equipment
	+ Expensive – use SGS for testing $500 USD per sample
* The municipality uses deep wells (likely a cleaner source)
* Fundraising
	+ Grant writing – monthly session
		- Worked on 5 grant applications
		- Have a spreadsheet of applications and due dates
		- End of this month
			* National Groundwater Association (NGW)
				+ Grant (next month)
			* EWB Spring Grant
	+ Event
		- Sporting Event – Flyers, Union, Phillies
		- Orchestra show at the Mann Center

**Conference call summary from 3/28/2013**

Attendees: Bob DiFilippo, John Ciganik, Walt Walker, Sal Palalay, Steve Kim

1. Review of conference call between EWB-USA ( Joshua Knight ) and EWB-Philadelphia ( Stephanie Cook, Bob DiFilippo, Walt Walker, Steve Kim ) from 3/18/2013
	1. Feedback from Joshua Knight regarding the Point of Entry treatment option
		1. Community contribution: 5% to 10% of operating budget (~$0.10 to $0.20/household per month )
		2. Statistically significant: 180 households
		3. Ethics discussion: Chlorine treatment = higher consumption of potentially chemically contaminated drinking water
	2. Review of project by Stephanie Cook
		1. Assessment trip (Oct/Nov 2012) | Challenges with current water sources
			1. Deep well |Disinterest from Local Drillers regarding well development
			2. Shallow well | Contamination: Biological, Chemical
			3. Municipal Tie In | High rates (3% of income is well known acceptable rate)
	3. Deep Well development discussion: Bob DiFilippo, Joshua Knight
		1. Local Driller Challenges
			1. Incomplete: no screen, no casing
			2. Verification of well development to 100m?
				1. Yes: Bore log (but gap in data)
				2. Yes: EWB oversight of drilling (but not continuous)
		2. Manual Well Development
			1. Tripod, winch & pulley with hand bailers
	4. Travel planning / Reporting deadlines / Corrective Action
		1. Report reviewed and approved with June trip dates
		2. Travel in late May by EWB-Philadelphia will necessitate corrective actions from EWB-USA affecting grant eligibility for a time period (6 months?)
2. Discussion of water source options
	1. Deep well
		1. Continue to assess. Manual well development is attractive.
		2. Still a possible option with VOC, chemical testing
	2. Shallow well
		1. Confirmed to be biologically contaminated
		2. No longer an option as treatment is cost prohibitive
	3. Municipal Tie-in
		1. Current projected municipal rates are 3-4 times what the community can afford
		2. If rates can be negotiated, this is a viable option.
3. Travel dates and personnel availability (~10 days, 2-3 people)
	1. Historical Rainfall data: 5” in May, 13” to 16” in June
	2. Manila to San Fernando by smaller plane
	3. Team availability
		1. Bob DiFilippo: May 13 to 18th, Mid June (June 17th?)
		2. John Ciganik: Last week in May, 1st week of June
		3. Octavio Casavantes: TBD
		4. Steve Kim: May is no good. June TBD.

Action items / Next steps:

* Kagawad (Sector Leader) availability. Steve Kim to work with Edgardo Ayaquil
* Sal Palalay to look into May/June rainfall data
* Bob DiFilippo to check on indicator strip testing for VOCs
* Tentatively plan to have follow up call the week of April 1st.