Plant Cost Calculator Task List

May 16, 2014

Our tasks associated with the calendar will be associated with our challenges:

- Find and verify reliable cost data from Honduras medium-flow treatment facilities
- Create a formula to estimate cost using existing empirics and AguaClara's population-flow rate recommendation
- Develop a front-end interface that is easy to use and provides intuitive foundation for sharing estimated cost
- Develop our cost calculator in a modular and robust way such that our interface may be inserted into any AguaClara webpage and so we can analyze future plant design costs
- Upon completion of the medium-flow calculator, begin extending our program to encompass low-flow plants and various international cost discrepancies (e.g. differences in operator wages between Honduras and India).

Our tentative calendar of tasks is as follows:

Task	Description	Target	Actual	Oversight
		Completion	Completion	
Collect and	Use the existing Matchad sheets	2/12	_	Andy,
organize Honduras	and discuss relevant data with			ensuring we
cost data	Prof. Monroe. Ask questions			have
	about certain cost parameters			necessary
	and determine which existing			data to
	data is valid and which must be			create the
	revised. Assess which costs are			calculator
	appropriate.			

Develop a	Design a visual graphic on	2/19	_	Derek,
calculator	paper to outline the user			ensure a
front-end outline	interface for the front-end			concrete
	calculator. This will allow us to			display
	have a concrete idea of what			outline has
	user inputs we will use to			been written
	estimate cost in our back-end			up.
	formula (i.e. population, water			
	quality, and perhaps a			
	futuregeographic location).			
Develop Cost	Have a mathematical formula	2/26	_	Chris, check
formula	using the finalized input			with
	parameters to develop a cost			AguaClara
	estimate. This formula will use			staff to
	our equations set into a Java or			ensure
	other programming file that will			formula is
	use modular sub-calculations			accurate.
	and a method that accepts the			Test formula
	initial user inputs.			with various
				inputs.
Integrate Cost	Have a basic UI that	3/4	_	Derek, test
formula into	accomodates our cost formula.			UI with cost
display	This should be a demo mode for			code.
	Honduras only.			
Finalize cost	Clean up our UI display and	3/11	_	Andy,
calculator	clear cost calculation with			collaborate
	AguaClara staff.			with team
				members
				and
				AguaClara
				staff.
Begin India	Begin working to acquire India	3/11	_	Chris,
Research	data and extend our cost			develop new
	calculator to other countries.			task list and
				talk with
				Monroe
				regarding
				obtaining
				new data.
Report Proof	Review language and formatting		N/A	Chris (unless
Reader	in written assignments.			rotated to
				another
				group
				member)

Team Coordinator	Facilitate Team Meetings, Keep	N/A	Andy
	track of project progress		
Data Coordinator	Keep track and maintain cost	N/A	Chris
	data and back-end code		
Structural	Work to ensure smooth	N/A	Derek
Coordinator	integration of project		
	components (i.e. front-end,		
	back-end). Review layout for		
	cost calculators and modularity		
	details.		