Notes from meeting with Mr. Walker – 11/5/09

* Add clarification about “connection” to definitions section of SRS.
* Add requirement to save connection
  + Do not allow them to save an invalid connection
* We can assume they'll be using at least v5.0 of Google Earth.
* Extra requirement: be able to include an image in the description via a web link (we can just use an <a href> because HTML is supported in Google Earth v5.
  + Put note in deployment document about changing IP address used for link generation
* Requirement -> very minor: specify field name in description
* Upload icons: high priority is uploading from local machine. Other options are minor requirements.
* Use case: have fields with various values, e.g. for field 1 is storing whether this is a house or a rec center, etc. Based on field value 1, we want this icon to be A, B, C, or D depending on what that value is. Next field (#2) is condition, value from 0-100. Based on field 2, you'll set the  
     color of that icon, e.g. 0-33 = red, 34-66 = yellow, 67-100 = green. High priority because it's visual --> e.g. "Why is this building red?"
  + Basically, 1 field determines shape of an icon and another field  
          determines its color.
  + Waiting on answer from customer
* Already understood by us: one of our web services will be able to  
     accept a link to an image that exists in the/a database, and will return the  
     image. Inside a KML file, we will link an image with a <a href="web  
     service?db=blah?image=blah">.
* Can connection string (used to connect to db) be based on the type of database (e.g. oracle, mysql, etc)?
  + Don't need to worry about this because underlying connection stuff handles that generically.
  + We do not need to give them the option of adding connection string manually
  + We're requesting an example of what they use to connect.
  + Possibly add connection string parsing – very low priority
  + Connection string should have server IP, username, password, database name
* Add database field name to connection description
  + Low priority
* High priority: plain English description. Low priority: database info in description. Don't spend a lot of time on it.
  + Look into priority of database info in description
* Icons conditions: if this field is this value, use this icon. e.g. if table 1 field 1's value is 'tank', use the picture of the tank. If the first condition is true, display this icon; if not, but the second condition is true, display this other icon. Think of it like an ACL list with an "else, use this last image" at the end.
* Add the functionality to AND several fields to choose an icon.
  + Needs the ability to use multiple fields together to define a condition.
* Color overlays: DOES NOT apply to all icons, but does apply to all instances of a given icon. E.g. all tanks should be blue if the value of a field is 10-20, but not all busses will be blue for the same values of the same field.
  + The color overlay decisions are being tabled for now. We'll figure it out later after the customer gets back to us.
* When creating a connection, grey out / hide everything below the Connection Information section until user hits Connect button and it's successful.
  + Add create connection to main page as AJAX popup
* Error logging of KML on admin side: databases are gonna have errors. Values are gonna be out of range.
  + What we planned to do was to present the user with an error message as they're creating the connection. That's sufficient.
* Icon size: Google uses 64x64. They scale it accordingly. We put an artificial size limit so you get a meaningful icon when it's scaled down to 64x64. Require the aspect ratio be the same and Google earth will scale it down for you. Have a hard limit or let them upload any size image? Because this tool is for KML generation, it’s not meaningful for them to upload anything larger than 128x128. On the other hand, you're requiring your users to have photo editing skills. If they already have icons that they use that are 64x64, this doesn't matter. VERDICT: "I have no preference".
  + We are going to leave the 128x128 limitation. This can be changed or removed at the request of the customer
  + Add minimum size of 32x32.
  + Text recommendations for size of icon.
* Individual descriptions on a per-row basis (apart from the general description that describes all rows). Would they ever use it or would it be a waste? VERDICT: that'd be way overkill.
  + General description will be sufficient.
* Support for multiple tables per connection? VERDICT: "I have never come across that". Everything should be in the same table. It'd be a bonus.
  + We can make an assumption that the lat and long will be in the same table.