



Meeting Summary

DATE: January 6, 2010

FROM: Jerry M. Salsano

TO: Coquina Coast Representatives (via email only)

CC: Staff and Interested Parties (via email only)

SUBJ: Coquina Coast Seawater Desalination Alternative Water Supply Project Business Meeting Summary, December 16, 2009

Purpose

Conduct business as required to accomplish the Coquina Coast Seawater Desalination Alternative Water Supply Project PDR. The meeting agenda is at Attachment 2.

Action Items

Person/Agency	ACTION ITEM(s)	Due/Status
Garland/Salsano	Update SJRWMD-maintained Coquina Coast webpage as necessary but no less than quarterly until the Pirnie-maintained website is active	Ongoing
Pirnie	For both Suppliers and Ex Officio Members collect required data and generate all cost data so that all Parties can determine whether to participate in Phase 2.	Ongoing
Pirnie/Salsano	When distributing TM files for review, avoid attaching and simply send link to ftp file location. Use the email notifying of the TM availability/review cycle and only identify the files and provide the link.	Ongoing
Salsano	If deliverables are too large for emailing, consider parsing into smaller files for those recipients who cannot access ftp site for technical reasons.	Ongoing
SJRWMD	Seek STAG funds for Phase 2 of the project at this time, with the option to pursue funds for subsequent design or construction phases.	Ongoing
Suppliers	Examine how conservation is treated on Supplier websites and consider increasing the prominence of that process.	Ongoing
SKM/Pirnie	Provide partners a representative Australian integrated water resources plan that addresses sources and conservation	ASAP
SKM/Pirnie	Provide partners common operating pressure data on most recent RO plants	ASAP
Pirnie	Provide the existing FAC Chapter 373 and proposed FAC Chapter 373 legislation for review by partners.	ASAP
Pirnie	Provide bullet list of project points for partners' use with their lobbyists.	ASAP

Note: The author prepared this work product from notes taken during the meeting or teleconference. The work product is not intended to be verbatim text of the conversations, but a summary of the important points covered. If an addressee finds that an error in fact was made please contact the author and corrections will be made with a revised version circulated.

Person/Agency	ACTION ITEM(s)	Due/Status
Salsano/Adams	Coordinate with Palm Coast Contracts office to authorize use of excess and contingency funds for interim/transition work by Pirnie under direction of Governance team.	ASAP
SJRWMD staff/ Linda Shelley	Schedule and invite Supplier and Ex Officio member policy makers to first governance meeting. Scheduled the meeting for all the existing partners and then invite the universe of potential partners SJRWMD should send two letters: <ul style="list-style-type: none"> • One to partners encouraging proper participation (managers/attorneys/elected officials) • One to the universe of potential new partners with additional project background and the same encouragement. 	ASAP
Pirnie	Update project fact sheet.	ASAP
Pirnie	Provide two-page news release to Suppliers for review.	ASAP
Governance Team/Pirnie	Upon guidance and approval by governance team, Pirnie shall develop the following: <ul style="list-style-type: none"> • LIST 1—potential partners and partner groups that might benefit from this project • LIST 2—materials available (PowerPoint, fact sheet, talking points, etc.) • LIST 3—speaking opportunities and publications with a plan to touch as many as possible. • LIST 4 (Lobbying)—materials/techniques/opportunities related to lobbying Federal and State agencies and legislators. • LIST 5—tracked/published potential partners meetings schedule • The governance group must meet as soon as possible and also resolve the Pirnie tasks and authorizations. 	ASAP
Pirnie	Adjust web page parameters such that it is returned at the top of any Google, Bing or similar web searches for Coquina Coast.	ASAP
SJRWMD Staff/ Linda Shelley Suppliers	Form the governance committee quickly and make it active in decisions for moving forward, especially during the transition phase. Also, the facilitation and assistance work must start.	ASAP
Fitzgerald	Provide partners District study on the effectiveness of conservation strategies <u>(Study currently in draft form, with no firm plans for publication)</u>	TBD
Pirnie	Retain the capability to support that first governance meeting on an hourly basis within the tasks of Phase 1.	TBD
Linda Shelley/ Governance Team	Provide Pirnie the guidance necessary to more accurately develop the interim scope for such things as (but not limited to): <ul style="list-style-type: none"> • Further information to west Volusia utilities • Present at January 23 meeting on the state of water supply in west Volusia County 	TBD
Suppliers	Provide Pirnie comments on first draft final report	1/4/10
Pirnie	In the final report, appropriately note the new population/growth data, how it differs, how it would have altered the decision (if at all) and how it will be addressed during the Phase 2 work.	1/5/10

Person/Agency	ACTION ITEM(s)	Due/Status
Pirnie	Coordinate new logo development with Marsha Lidskin at Palm Coast. Distribute new logo options in time for consideration and vote at the January meeting.	1/8/10
Pirnie	Provide second draft final report to Suppliers	1/8/10
Suppliers	Provide Pirnie comments on draft web site	1/8/10
Pirnie	Support Volusia County League of Women Voters	1/9/10
All	Next business meeting/workshop	1/13/10
Suppliers	Provide Pirnie comments on second draft final report	1/15/10
Pirnie	Provide final report to Suppliers	1/22/10
Pirnie	Provide transition presentation to Palm Coast City Council	ASAP after 1/22/10
Governance Team	Decide whether Ex Officio will be allowed in Phase 2 and, if so, the flat rate to participate.	ASAP after 1/22/10
Pirnie	Regarding the Website, the Suppliers requested the following changes: <ul style="list-style-type: none"> • Use scroll bar navigation rather than page selection navigation • Add a print option to each navigable page • Refine the logo • Add conservation to the “quick picks” area and include a conservation page with focus on what is being done by the Suppliers and why • Add reference on conservation web page on the matter of how conservation is a long-term process and will not immediately yield results 	Check Status when site is up.

Welcome and Introductions

The business meeting started at 9:10 a.m. Chairman Richard Adams, Palm Coast, welcomed attendees who introduced themselves.

Public Comments—none.

Governance and Lobbying Scope Review

Ed Balchon noted that the Partners had requested at the last business meeting a scope for consideration that would bridge the gap between Phase 1 and Phase 2 to accomplish governance assistance and funding representation. He provided the following in the presentation, Attachment 3.

Timing:	Phase 1 ends January 22, 2010 Phase 2 begins ~ May 2010
Governance:	Begins January 2010 Assistance/Participation
Project Representation (Lobbying)	
State	Funding Representation
Federal	Monitoring of Legislative activities
Local	

Ed noted that Jerry Salsano had distributed the interim scope by email and he advised the Partners that he is seeking their input by 1/4/10 prior to making it final. He outlined the services provided in that draft scope, shown at Attachment 4. **ACTION ITEM**

Tim Sheehan asked if there were funds available from Phase 1 or if this interim work required additional funds. Ed responded that there would be approximately \$25K to \$30K of funds remaining in their contract that could be used. Jerry also noted that there would be some contingency funds available as well if the Suppliers choose to use it. Richard asked if those funds would cover the proposed scope. Ed responded that the scope was not provided in the form of a proposal because the governance team needs to meet to decide specifically what they want first. Richard asked Jerry what contract requirements would be necessary. Jerry agreed to coordinate with Palm Coast contracts office. **ACTION ITEM.**

Discussion ensued about the governance process with confirmation by Tom Bartol that Linda Shelley is confirmed to support the process but that Jerry's availability is in question due to contract funding. The District intends to support Linda to the extent possible with in-house staff.

The group turned their discussion to composition of the governance team. Jerry suggested that the first meeting should be almost exclusively policy makers, possibly with support of their utility managers (for first meeting only). Jim Landon also asked that the District send invitations to the first governance meeting to the wide range of potential partners for the project. **ACTION ITEM**

Richard noted that Linda must schedule the meeting for all the existing partners and then invite the universe of potential partners. He suggested that the meeting be scheduled to accommodate the partners and then the District should send two letters—one to partners encouraging proper participation (managers/attorneys/elected officials) and one to the universe of potential new partners with additional project background and the same encouragement. **ACTION ITEM**

Neal Shinkre asked if there was additional support needed beyond what District was providing with Linda Shelley. His focus was on whether funds should be reserved for that purpose in Phase 2. He suggested budgeting for Pirnie providing such support, perhaps in the form of an additive item. Ed noted that the original and most recent Phase 2 scopes include tasks specifically to provide governance assistance. Pirnie envisioned that the interim scope would bridge that task.

Chris Hill asked for confirmation from the Suppliers that in the interim they are looking for a scope on an as-needed basis with and understanding of the fees and where in the existing contract the dollars are coming from. Richard responded that this was not necessary—only that we retain the capability to support that first governance meeting on an hourly basis within the tasks of Phase 1. Then the governance team will provide the guidance necessary to more accurately develop the interim scope. This issue should also be conveyed to Linda Shelley and District staff. **ACTION ITEM.**

Ed noted that there is a second component to the interim scope--the funding representation, some of which is lobbying (with a recognition lobbying is prohibited when District funds are used). That would include providing project and cost data presentations to the existing Suppliers to fill in the blanks on Phase 1 for their use to make the Phase 2 decision and to present the project to potential new Suppliers in order to sell the project to those that might benefit.

Jim Landon stressed that he believes getting this story out to existing and potential new partners is imperative to the success of the project. He also noted that the story-teller is as important as the story itself. After Phase 1 is published--that is the time when we should start touching the people that count.

Keith Riger noted that there have been discussions among west Volusia utilities about remaining in the project through Phase 2. He noted that a meeting to be held on January 23 on the state of water supply in west Volusia County would be where a focused 15 minute presentation would be invaluable to support such a move by those utilities affected. Richard noted that this kind of support is important and because timing is critical, the interim scope would need to include this work without the need for Supplier approval before hand. **ACTION ITEM**

Chris noted that Michelle Robinson has created a two-page news release now available for review by the Suppliers. Jim Landon requested a fact sheet and Pirnie noted that they will update the existing fact sheet based on Phase 1 completion. **ACTION ITEM**

Ray Sharp agreed that it is imperative that the word must get out to all those potential partners and partner groups and that this is critical over the next few months for success of the project.

Jim would like a list of materials available (PowerPoint, fact sheet, etc.) and list of speaking opportunities and publications with a plan to touch as many as possible. Richard described the materials list as a menu from which to choose. Each tool would be focused on a specific type audience. **ACTION ITEM**

Neal Shinkre noted that conservation and reuse is still held by many, including some elected officials and many of their constituents, as a solution to the AWS problem. St. Johns County is proceeding with a conservation study to determine what can be accomplished with conservation. The County recognizes that we are going to be questioned and we have to be prepared to support the AWS need that we represent for the project. He recommended that all partners give adequate consideration to conservation before they give their final demand projections. Each utility understands that conservation will not entirely solve the problem, but each must demonstrate that it is being given adequate consideration. Richard agreed with Neal and noted that the work underway on the Phase 2 scope does contemplate conservation-based work to support the planning numbers and to support the public relations work for the project overall. He also acknowledged the problem transferring the demand from the public supply system to individual wells does not make the demand go away. Neal agreed. Jim added how growth projections have changed so dramatically and that, despite the current notch in growth, the lead times on these types of projects is long enough that we must continue the process.

Returning to the discussion of the true lobbying task in both the interim and Phase 2 stages, Ed stressed that this work should begin now to maximize the possibility of receiving funds from Federal and State agencies. There was recognition that such work cannot be District-funded and that it would therefore have to be segregated from the MOA-based contract. Ed suggested that there actually be four lists as follows:

- LIST 1—potential partners and partner groups that might benefit from this project
- LIST 2—materials available (PowerPoint, fact sheet, talking points, etc.)
- LIST 3—speaking opportunities and publications with a plan to touch as many as possible.
- LIST 4 (Lobbying)—materials/techniques/opportunities related to lobbying Federal and State agencies and legislators.

Jim cautioned about creating too many lists and letting them overlap where possible. The governance group must meet as soon as possible and can resolve the taskings. **ACTION ITEM**

Public Relations for Phase 2

Michele Robinson covered this topic and lead with the premise that the Coquina Coast partners must: "*Be the first and best source of project information.*" From her slide on the topic she suggested the following efforts:

- Media Relations
 - News Releases
 - Editorial Board Briefings
 - Letters to the Editor
 - Media outreach, interview coordination, media coverage monitoring
- Media Training
- Project Web Site Updates
- Social Media
 - Facebook fan page linked with Twitter
 - Project announcements
 - Blog monitoring/ commenting
- Public Outreach
 - Supplier council/commission meetings
 - Small group or one-on-one meetings
- Public Meetings
 - Facility siting
 - Facility design
 - EPA requirements for EID

She cautioned that there should be a focused but limited use of social pages—such as Facebook and Twitter—not a huge effort, but a presence. She noted that the partners will want to stay tuned to the blogs to show that they are listening and to correct misinformation where appropriate. She advised that the team will want to continually update key messages, Q&A's and fact sheets and that will want to develop specific materials dealing with key components and issues, such as siting, intake, discharge, etc. to meet specific needs. Also consider a project quarterly e-news letter.

Keith Riger suggested that we do whatever is necessary to get our site at the top of search results. There was consensus on this recommendation. **ACTION ITEM.**

Jim agreed that touching editorial boards and generating letters to editor are important. He cautioned, however, you will generally lose any dialogue that uses the editorial page. Be strategic in your approach, not tactical. On blogging and social sites—be careful about the local

blogs in that you'll never win in that sphere. He cautioned about the approach we take. He again stressed the need to coordinate with the right personnel for each Supplier and that the right person is contacted and that generally the right person is not from the technical side.

Draft Web Site Review

Chris noted that there is no conservation link or page shown in this demo but they will be added. Two new logo options were shown, neither of which was approved by the Suppliers. Pirnie received comments and will produce a new logo for consideration. Jim Landon asked that Michele get with Marsha Lidskin at Palm Coast for her input. New logo options will be distributed in time for consideration and vote at the January meeting. **ACTION ITEM**

Chris went on to show the remaining web pages including in hard copy. They are looking for Supplier comments by January 8, 2009. **ACTION ITEM**

Jim asked that the conservation page include the matter of how conservation is a long-term process and will not immediately yield results. **ACTION ITEM**

Michele also suggested that each Supplier examine how conservation is treated on their own websites and consider increasing the prominence of that process. **ACTION ITEM**

Draft Final Report Review Workshop

Chris noted that the Suppliers have the draft final report. He noted that package contains the prior technical memoranda and the following new material:

- Preliminary Site Investigations
- Recommendations (Preliminary Staging)
- Funding Implementation Plan
- Summary

Chris offered that the primary recommendation is to move forward with land-based desalination. Vessel-based treatment has some advantages, particularly if time is critical and land costs are extreme, among others. However, none of the conditions exist to the extent that they would drive the recommended decision to vessel-based treatment.

The criteria included cost and Chris showed that data in slides, which demonstrated that vessel-based costs ranged from comparable to much higher, again not presenting a compelling case for using vessel-based treatment.

Neal asked that Pirnie not lose sight in the final report of the issues that were not explored in great detail because of the very focused nature of the Phase 1 work.

Chris then transitioned into the issue of risk, using the following slide to guide discussion.

Criteria	Option with Least "Risk"	
	Land-Based	Vessel-Based
1. Degree of control (ownership and operations)	✓	
2. Dependability of water supply - Experience of operators - Storm vulnerability (impact to production) - Facility/site security - Regulations applicable to operators	✓	
3. Financial exposure, including bonding and insurance requirements		?
4. Litigation exposure, including challenges to permits and regulatory approval(s)		?

There was consensus agreement with the risk assessment provided.

Chris covered the final recommendations:

- Proceed with land-based desalination
- Revise water demand projections
- Determine where to site the facility
- Conduct necessary water quality, hydrogeological, geotechnical and other studies to define “the project”
- Conduct pilot-testing to confirm treatment process requirements

Neal raised the issue of revised population and demand projections. He noted and Tom Bartol confirmed that the revised District-wide 2030 demand projections are down about 14% with a range from a by-utility low of 3-4% up to a high of about 20%. The final data will not be available until the end of December. It was discussed and agreed that Pirnie would, in the final report, appropriately note the new data, how it differs, how it would have altered the decision (if at all) and how it will be addressed during the Phase 2 work. **ACTION ITEM**

Chris transitioned into the technical aspects beginning with fatal flaws analyses of the various components, starting with siting.

- Fatally flawed areas eliminated
 - Federal lands, mitigation banks, parks and recreation areas, aquatic preserves, and Florida-managed areas
- Airspace
- Wetlands
- Flood zones
- Bathymetry
- Distance to power source
- Cost of land

The consultant arrived at five potential plant site areas (not sites). They also noted that the piping cost (distance from shore) was the most significant factor affecting siting, followed by power cost. It turned out that, among the five areas, land cost was the least significant factor.

He covered the recommendations for extensive raw water quality investigations and the bases for the need.

- Better define pretreatment and process requirements
- Establish baseline for concentrate modeling and future discharge
- Includes water quality and biological monitoring
- Coordinate with FDEP prior to monitoring
 - Assures we establish proper baseline
 - Facilitates future permitting activities
 - Protects Suppliers after facilities are constructed

He did the same for hydrological and geotechnical investigations.

- Determine feasibility of well options
 - Screening level evaluation w/Marineland?
- Identify pipeline/tunnel construction requirements
- Better determine intake and discharge costs
- Ocean survey to determine best location(s)
- Current ocean monitoring
 - Impacts concentrate plume modeling and design

He summarized the seawater intake evaluation results noting that the screened intakes and horizontal beach wells may be carried forward to Phase 2. Regarding discharge options he noted that the tunnel with dispersion field, a subsurface dispersion field and a pipeline with dispersion field are the three options that will likely carry forward to phase 2.

He then covered pilot testing. The selection criteria favored conventional sedimentation and dissolved air flotation, along with either gravity media or pressure filters. Membrane filtration and diatomaceous earth filtration did not score as well. Membrane filtration might rise in scoring if beach wells are used for intake.

He noted that Phase 2 will require an accounting of participants to develop a revised demand curve and transmission system layout.

Pirnie will investigate innovative ways to reduce power consumption and incorporate renewable/green energy into the project.

Interim Tasks Issues

There was discussion and general agreement that the governance committee must be formed quickly and become active in decisions for moving forward. Also, the facilitation and assistance work must start. **ACTION ITEM**

Deliverable Timing—ACTION ITEMS

<u>Element</u>	<u>DATE</u>
Suppliers provide Pirnie comments on draft final report.....	1/4/10
Pirnie provides second draft final report to Suppliers	1/8/10
Suppliers provide Pirnie comments on draft web site	1/8/10
Distribute new logo options to Suppliers.....	1/8/10
Next business meeting/workshop	1/13/10
Suppliers provide Pirnie comments on second draft final report.....	1/15/10
Pirnie provides final report to Suppliers	1/22/10

Jim asked Pirnie what the plan was once the final report is published. Chris responded that we move forward with the press releases, preparing target presentations, delivering presentations to potential partners, etc. Jim noted that he wants a presentation at council. Chris asked who wants the same, noting that Neal had indicated he would do that himself. There were no other partners that indicated they want a presentation. **ACTION ITEM**

Jerry noted the importance of touching potential participants as soon as possible in the process. Jim again stressed that those meetings should be on a tracked/published schedule so that that process is understood and that other Suppliers are aware. **ACTION ITEM.**

Confirm next meeting(s) and agenda(s)

- Next Business Meeting and 2nd Draft Final Report Review Workshop—January 13, 2010. 9:00 a.m., Palm Coast Community Center
- Next Phase 2 Scope Workshop—January 15, 9:00 a.m. to 12:00 a.m. Palm Coast WTP 2

Major AGENDA Items for January 13, 2010, Business Meeting/ Workshop

Population Projections (District).....	20 minutes
Website and Logo Review (Pirnie).....	15 minutes
Presentation Tool/Schedule Discussion (Pirnie).....	30 minutes
Phase 2 Scope Workshop Update (Pirnie).....	60 minutes
2 nd Draft Final Report Review Workshop (Pirnie)	Balance of Meeting

Member Comments

Keith Riger complemented Pirnie on the final report.

Jerry Salsano alerted the Suppliers to the matter of deciding whether they would allow Ex Officio member status in Phase 2 now that they are considering accomplishing Phase 2 in two parts—Phase 2A and Phase 2B. There was discussion on this matter with a recognition that the decision should be made by the governance team. **ACTION ITEM**

Tom Bartol noted that the DWSP 2010 process and the Volusia County work both may increase interest in the Coquina Coast project.

Jim Landon stressed that this is certainly a period of uncertainty but that we should expect the same success going forward as we have experienced thus far.

Public Comments

John Mampe cautioned that the public viewed this as an evaluation to select ship vs. land-based treatment. With plant siting, as an example, affecting the total cost \$40 million to \$200 million you may have a perception problem that you have not adequately evaluated the impact of your siting decision on the overall land versus ship outcome. Regarding conservation—why go to Phase 2 if you have not determined the effects of the increased conservation efforts? Also, you send a bad message when schools and other government facilities water during times when they should not or need not. Finally, with respect to governance and ownership—who is going to bond and bear the expenses? These issues are in the minds of the people I talk to.

Jim thanked John for his comments particularly that the message that we send is important and as it relates to conservation and the importance of setting the example. Jim noted that in some cases that watering you see at government facilities is to avoid putting treated reuse water in the Intercoastal Waterway. However, the negative perception is a result of an education/perception problem. A project like Coquina Coast causes us to change our message and ways of doing business more quickly than we might do otherwise.

Tim Brodeur suggested that the partners perform and demonstrate the conclusions of a gap analysis that shows what conservation can and cannot do.

- Our current per capita consumption:.....X
- An achievable per capita goal by 2030 (or another date): Y% of X
- Our 2030 projected demand deficit at current per capita consumption: Z
- Our 2030 projected demand deficit at the achievable per capita goal:A% of Z

Tim Sheahan asked if governance will consider the possibly of one business model/ownership for treatment and another for transmission. Richard responded that no options have been taken off the table.

David Fitzgerald wished everyone a happy and safe holiday.

Adjourn—meeting adjourned 12:25 p.m.

Attachments

1. Attendance List and Appointee Attendance List
2. Agenda
3. Consultant Slides (included in PDF version of this summary only)
4. Interim Scope Draft (included in PDF version of this summary only)

Coquina Coast Seawater Desalination Project Business Meeting Agenda

Wednesday, December 16, 2009, 9:00 a.m. – 4:00 p.m.

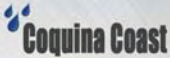
City of Palm Coast Community Center
305 Palm Coast Parkway NE, Palm Coast, FL 32135

Directions: Exit I-95 at Palm Coast Parkway (Exit 289). Drive east through two stop lights to Club House Drive. Turn left – the entrance to the Community Center is immediately off Club House Drive to the left.




<u>ITEM</u>	<u>WHO</u>	<u>START</u>
• Welcome and Introductions	Chair	9:00
• Public Comments	Chair	9:05
• Governance and Lobbying Scope Review	Pirnie	9:10
<i>(NOTE: This item will be time-certain as the second item. Suppliers are encouraged to broaden attendance to senior staff and elected officials if possible.)</i>		
• Public Relations for Phase 2	Pirnie	10:10
• Draft Web Site Review	Pirnie	11:10
• LUNCH OFF SITE (not provided)	All	11:25
• Draft Final Report Review Workshop	Pirnie	12:45
<i>(NOTE: This agenda item and the remainder of the meeting are scheduled to run until 4:00 p.m. If the workshop is completed earlier, the meeting will end earlier.)</i>		
• Confirm agenda for next meeting	Chair	3:45
○ Next Business Meeting – January 13, 2010		
• Member Comments	Chair	3:55
• Adjourn.....	Chair	4:00

NOTE: The alternative project delivery presentation by Pirnie, originally scheduled for October, then November, has been delayed until a more appropriate time during Phase 2.



Governance and Lobbying – Interim Scope 

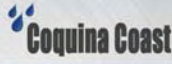
- **Timing:** Phase 1 ends January 22, 2010
Phase 2 begins ~ May 2010
- **Governance:** Begins January 2010
Assistance/Participation
- **Project Representation (Lobbying)**
 - ✓ State Funding Representation
Monitoring of Legislative activities
 - ✓ Federal
 - ✓ Local






Public Relations for Phase 2

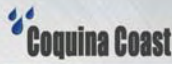
Coquina Coast Seawater Desalination
Alternative Water Supply Project

Public Relations 

Be the First and Best Source of Information

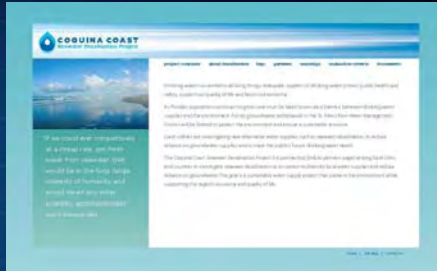


- Media Relations
 - News Releases
 - Editorial Board Briefings
 - Letters to the Editor
 - Media outreach, interview coordination, media coverage monitoring
- Media Training


  

Public Relations 

Be the First and Best Source of Information

- Project Web Site Updates
- Social Media
 - Facebook fan page linked with Twitter
 - Project announcements
 - Blog monitoring/ commenting

Public Relations 

Collaboration ensures community values incorporated into decision-making

- Public Outreach
 - Supplier council/commission meetings
 - Small group or one-on-one meetings
- Public Meetings
 - Facility siting
 - Facility design
 - EPA requirements for EID





Draft Website Review – Round 2

Coquina Coast Seawater Desalination
Alternative Water Supply Project

COQUINA COAST
Seawater Desalination Project

project overview | about desalination | faqs | partners | meetings | evaluation criteria | documents

Drinking water is essential to all living things. Adequate supplies of drinking water protect public health and safety, support our quality of life and boost our economy.

As Florida's population continues to grow, care must be taken to ensure a balance between drinking water supplies and the environment. Future groundwater withdrawals in the St. Johns River Water Management District will be limited to protect the environment and ensure a sustainable resource.

Local utilities are investigating new alternative water supplies, such as seawater desalination, to reduce reliance on groundwater supplies and to meet the public's future drinking water needs.

The Coquina Coast Seawater Desalination Project is a partnership (link to partners page) among local cities and counties to investigate seawater desalination as an option to diversify local water supplies and reduce reliance on groundwater. The goal is a sustainable water supply project that protects the environment while supporting the region's economy and quality of life.

"If we could ever competitively, at a cheap rate, get fresh water from seawater, that would be in the long-range interests of humanity and would dwarf any other scientific accomplishment."
John F. Kennedy, 1962

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MALCOLM PIRNIE | VEOLIA WATER | SKM

COQUINA COAST
Seawater Desalination Project

January 1, 2010

Mr. Salt
Water Department
4902 E. Manatee Street
Tampa, FL 33620-0070

Dear Mr. Salt:

When typing letters on "COQSD" letterhead, leave 1/2" inches of white space below the logo banner line and use 1/2" margins on the left and right sides. Align all type flush left with no paragraph indentations. Double space between paragraphs. The font *Helvetica* or *Helvetica Light* - set at 10 pts. on 14 pt. leading.

As for other spacing, it's traditional to triple space between the date and the address block, double space between the address block and the salutation, double space after the salutation and leave four lines for the signature. However, it's fine to only double space after the date, especially if doing so will save the letter from running on to a second page.

This block style is the current business letter setting style standard and has been approved by efficiency experts throughout the world. So readers, the block left style looks more contemporary than the indented paragraph style. Finally, adjusting the style will help convey a consistent image for all COQSD correspondence.

Sincerely,

Name
Title

MALCOLM PIRNIE
100 Corporate Blvd. One
West Tower, 9th Floor
San Diego, CA 92161
619.594.8200 ext. 2222

MALCOLM PIRNIE
100 Corporate Blvd. One
West Tower, 9th Floor
San Diego, CA 92161
619.594.8200 ext. 2222

COQUINA COAST
Seawater Desalination Project

Attention: Mr. Salt
Water Department
4902 E. Manatee Street
Tampa, FL 33620-0070

Robert Smith
Project Coordinator

COQUINA COAST
Seawater Desalination Project

Attention: Mr. Salt
Water Department
4902 E. Manatee Street
Tampa, FL 33620-0070

Project Positioning Line Here

MALCOLM PIRNIE | VEOLIA WATER | SKM

Coquina Coast
Seawater Desalination Project

project overview | about desalination | faq | partners | meetings | evaluation criteria | documents

Drinking water is essential to all living things. Adequate supplies of drinking water protect public health and safety, support our quality of life and boost our economy.

As Florida's population continues to grow, care must be taken to ensure a balance between drinking water supplies and the environment. Future groundwater withdrawals in the St. Johns River Water Management District will be limited to protect the environment and ensure a sustainable resource.

Local utilities are investigating new alternative water supplies, such as seawater desalination, to reduce reliance on groundwater supplies and to meet the public's future drinking water needs.

The Coquina Coast Seawater Desalination Project is a partnership (link to partners page) among local cities and counties to investigate seawater desalination as an option to diversify local water supplies and reduce reliance on groundwater. The goal is a sustainable water supply project that protects the environment while supporting the region's economy and quality of life.

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Coquina Coast
Seawater Desalination Project

January 1, 2008

Mr. Sak
Water Department
4200 E. Manatee
Tampa, FL 33605-6810

Dear Mr. Sak:

When typing letters on COCEP letterhead, leave 1.5 inches of white space below the logo base line and use 1 inch margin on the left and right sides. Align all logo text left with no paragraph indentations. Double space between paragraphs. The font must be a Helvetica Light - and at 10 pts. on 14 pt. leading.

As for other spacing, it is traditional to triple space between the date and the address block, double space between the address block and the salutation, double space after the salutation, and leave four lines for the signature. However, to be in only double space after the date, especially if doing so will save the letter from running on to a second page.

The block style or the current business letter writing style standard used has been approved by efficiency experts because it saves paper. In addition, the font size looks more contemporary than the indented paragraph style. Finally, adopting this style will help convey a consistent image for all COCEP correspondence.

Sincerely,

Name _____
Title _____

Recycle Time:
100% Recycled Ink
90% Recycled Paper
100% Recycled

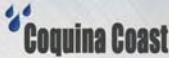
Robert Smith
Project Coordinator

Coquina Coast
Seawater Desalination Project




Malcolm Pirnie
100 Corporate Park Drive
Wilmington, NY 10897
609.692.2200
www.malcolmpirnie.com

Project Planning Line Here

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Project Web Site Actions 

- Select Logo - today
- Distribute revised web content – today
- Receive comments on web content – NLT January 8
- In the meantime
 - ✓ Complete web programming
 - ✓ Ready website for public launch
 - ✓ Time public launch with issuance of final report (Jan/Feb)

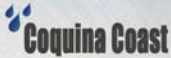
  



Draft Final Report Review Workshop

Coquina Coast Seawater Desalination
Alternative Water Supply Project


Report Outline



- Executive Summary
- Introduction
- Demand and Water Quality Requirements
- Treatment Process Requirements
- Intake and Concentrate Disposal
- Post-Treatment and Finished Water
- Transmission and Supplier POC
- Evaluation of Alternatives
- Preliminary Permitting Requirements
- Preliminary Site Investigations
- Recommendations (Preliminary Staging)
- Funding Implementation Plan
- Summary

Phase 1 TMs


NEW Material



Final Report – Additional Notes

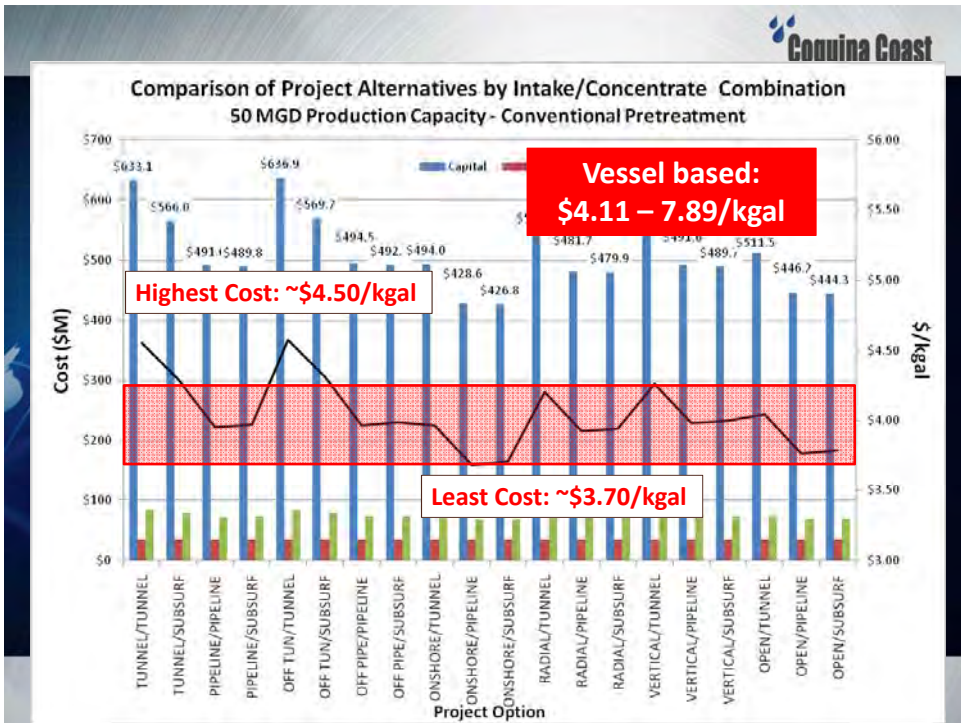


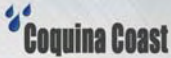
- Final report will include all Phase 1 TMs in Appendices
- Items to add:
 - ✓ Cost comparison of this project to other SWRO projects
 - ✓ Discussion of other staging alternatives?
 - ✓ Revisit and clarify Phase 2 recommendations






Vessel-Based Desalination

Advantages	Condition Exists for this Project?
1. Need for short-term or emergency water supplies (and infrastructure exists to deliver water)	✖
2. Cost/availability of land makes land-based cost prohibitive	✖
3. Local geotechnical conditions require "extraordinary" construction methods for land-based facilities	✖
4. Vessel can be sited near shore and landside facility	✖
5. Sea conditions are conducive to a permanent vessel-based facility (limited/no need to unmoor ship)	✖
6. Intake and concentrate discharge permitting may be easier, less costly, or have other environmental benefits	?



Risk 

Criteria	Option with Least "Risk"	
	Land-Based	Vessel-Based
1. Degree of control (ownership and operations)	✓	
2. Dependability of water supply - Experience of operators - Storm vulnerability (impact to production) - Facility/site security - Regulations applicable to operators	✓	
3. Financial exposure, including bonding and insurance requirements		?
4. Litigation exposure, including challenges to permits and regulatory approval(s)		?

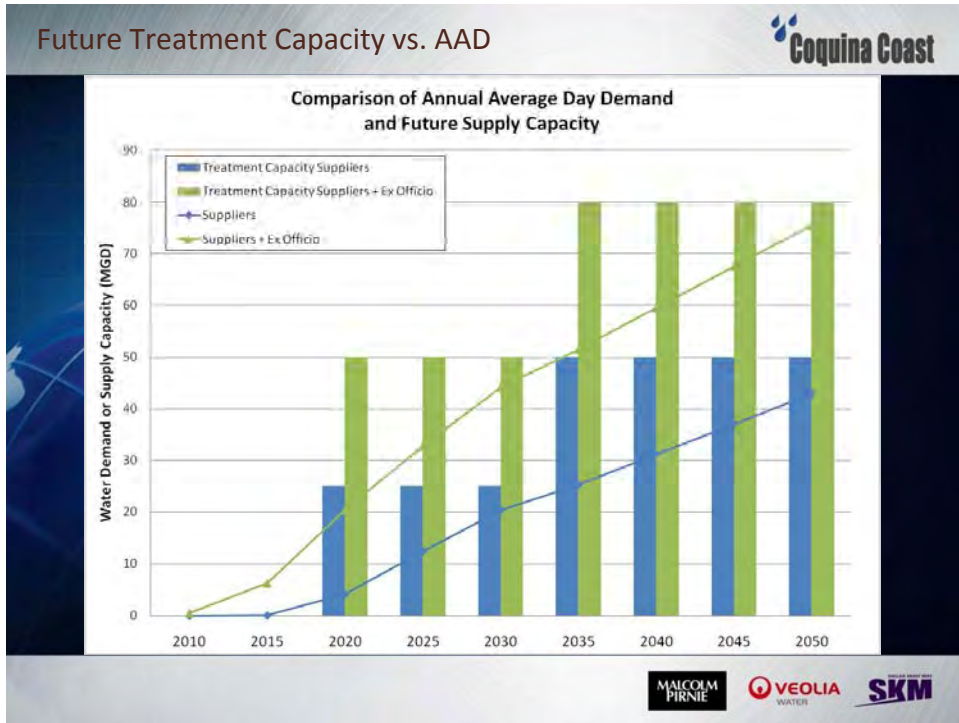
  

Recommendations 

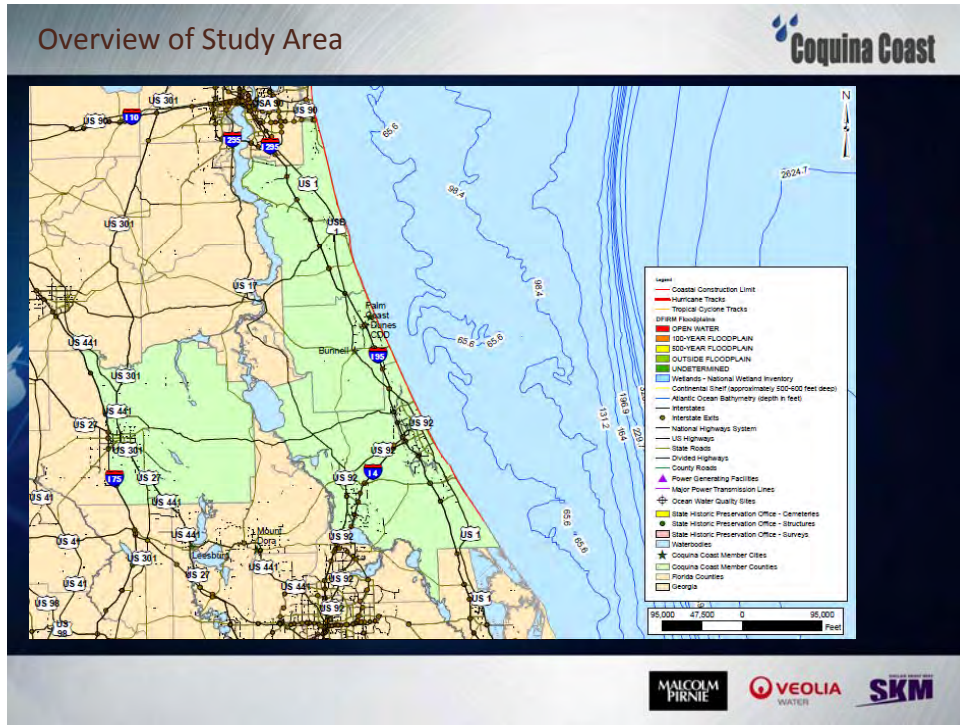
1. Proceed with land-based desalination
2. Revise water demand projections





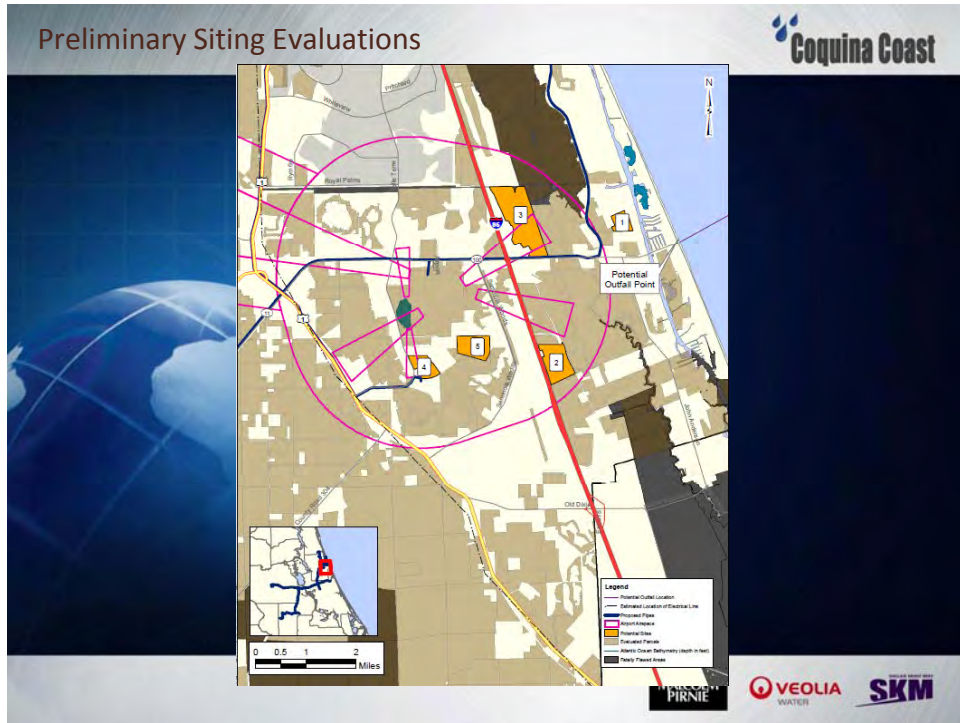
- ### Recommendations
- Coquina Coast
1. Proceed with land-based desalination
 2. Revise water demand projections
 3. Determine where to site the facility
-
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Siting Considerations

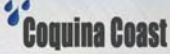
- Fatally flawed areas eliminated
 - ✓ Federal lands, mitigation banks, parks and recreation areas, aquatic preserves, and Florida-managed areas
- Airspace
- Wetlands
- Flood zones
- Bathymetry
- Distance to power source
- Cost of land

The slide features a background image of a globe showing the Earth. The text is overlaid on the right side of the globe. The logos for MALCOLM PIRNIE, VEOLIA WATER, and SKM are located at the bottom right of the slide.







Preliminary Siting Evaluations - Observations

Area No.	Onshore Piping to Plant		Electrical Transmission		Onshore Piping from Plant to Shore		Land Cost	TOTAL (\$M)
	Distance (mi)	Cost (\$M)	Distance (mi)	Cost (\$M)	Distance (mi)	Cost (\$M)	Cost (\$M)	
1	1.8	\$12.5	3.6	\$20.0	1.8	\$10.2	\$0.5	\$43.1
2	5.1	\$35.0	0.7	\$4.1	5.1	\$28.6	1.10	\$68.8
3	3.3	\$22.0	0.9	\$4.7	3.3	\$18.7	\$4.3	\$50.6
4	12.4	\$85.0	8.4	\$46.1	12.4	\$69.4	\$5.7	\$206.2
5	6.1	\$41.0	0.4	\$2.0	6.1	\$34.0	\$1.4	\$79.8

Preliminary Siting Evaluations - Observations 

- Distance from shore is most significant cost factor
- Electrical transmission can be significant
- Land cost is least significant factor
- Siting will require significant community vetting
- Key component of Phase 2 Public Involvement



Recommendations 



1. Proceed with land-based desalination
2. Revise water demand projections
3. Determine where to site the facility
4. Conduct necessary water quality, hydrogeological, geotechnical and other studies to define “the project”

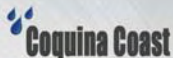





Raw Water Quality Investigations 

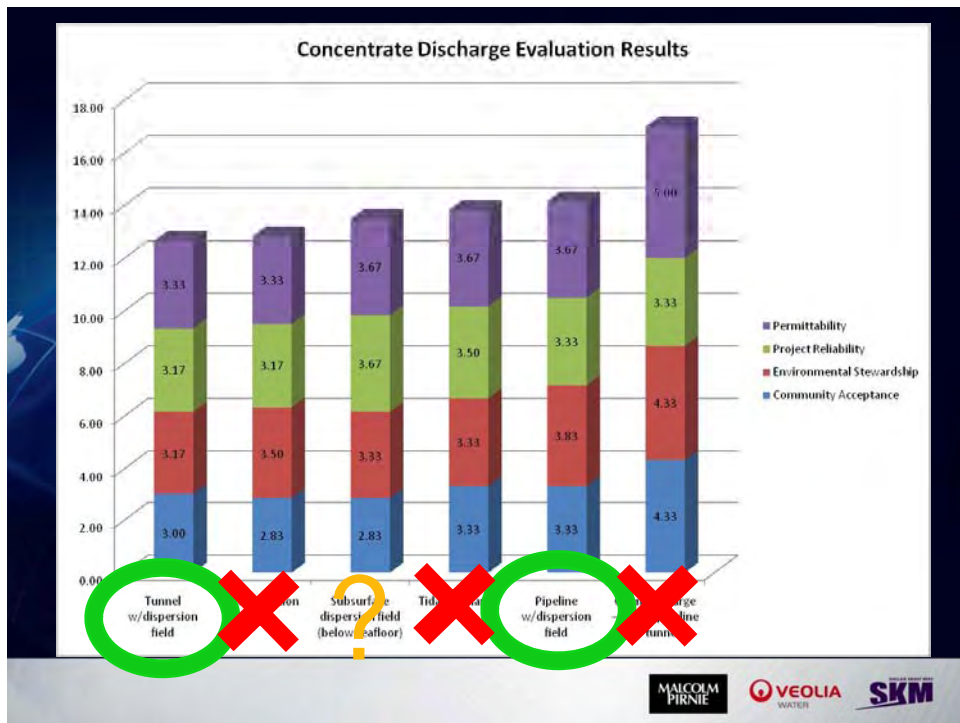
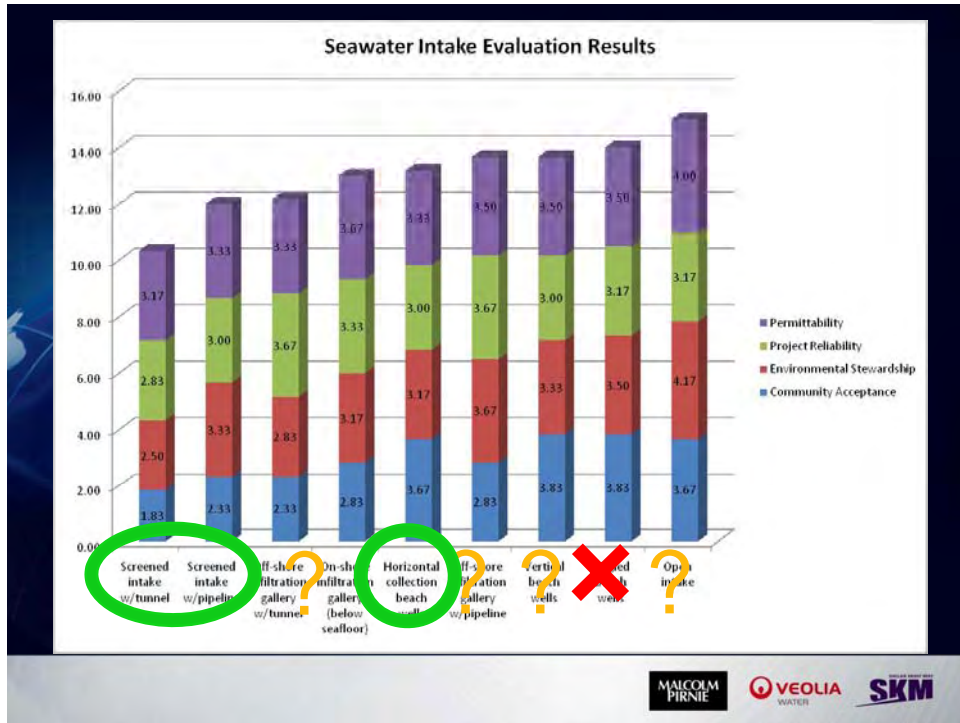
- Better define pretreatment and process requirements
- Establish baseline for concentrate modeling and future discharge
- Includes water quality and biological monitoring
- Coordinate with FDEP prior to monitoring
 - ✓ Assures we establish proper baseline
 - ✓ Facilitates future permitting activities
 - ✓ Protects Suppliers after facilities are constructed

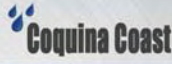
Hydrogeological and Geotechnical Investigations 

- Determine feasibility of well options
 - ✓ Screening level evaluation w/Marineland?
- Identify pipeline/tunnel construction requirements
- Better determine intake and discharge costs
- Ocean survey to determine best location(s)
- Current ocean monitoring
 - ✓ Impacts concentrate plume modeling and design

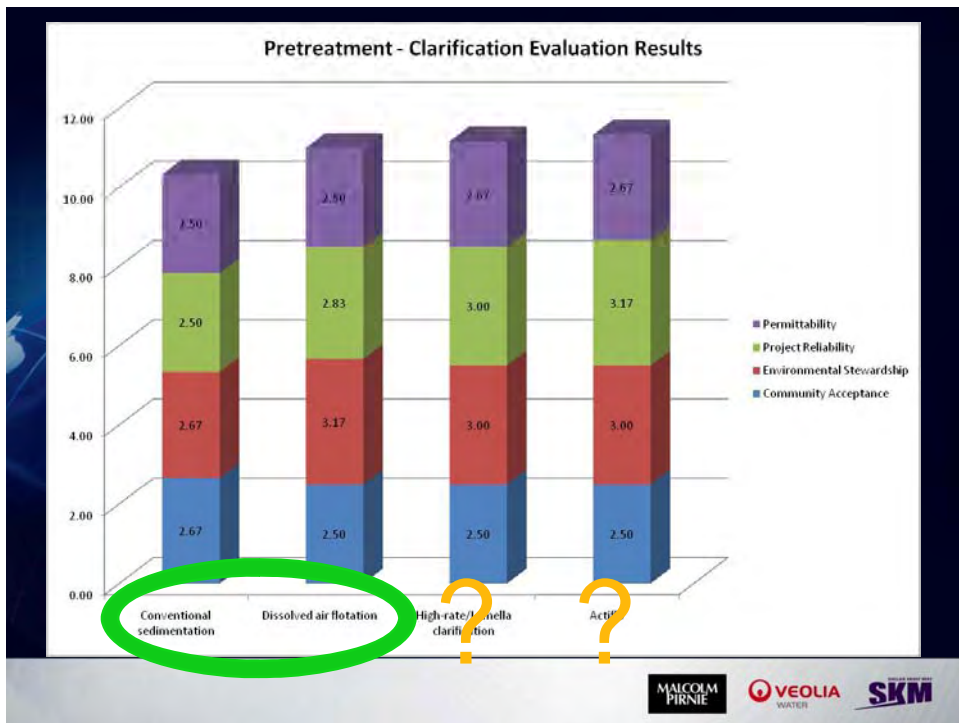

  

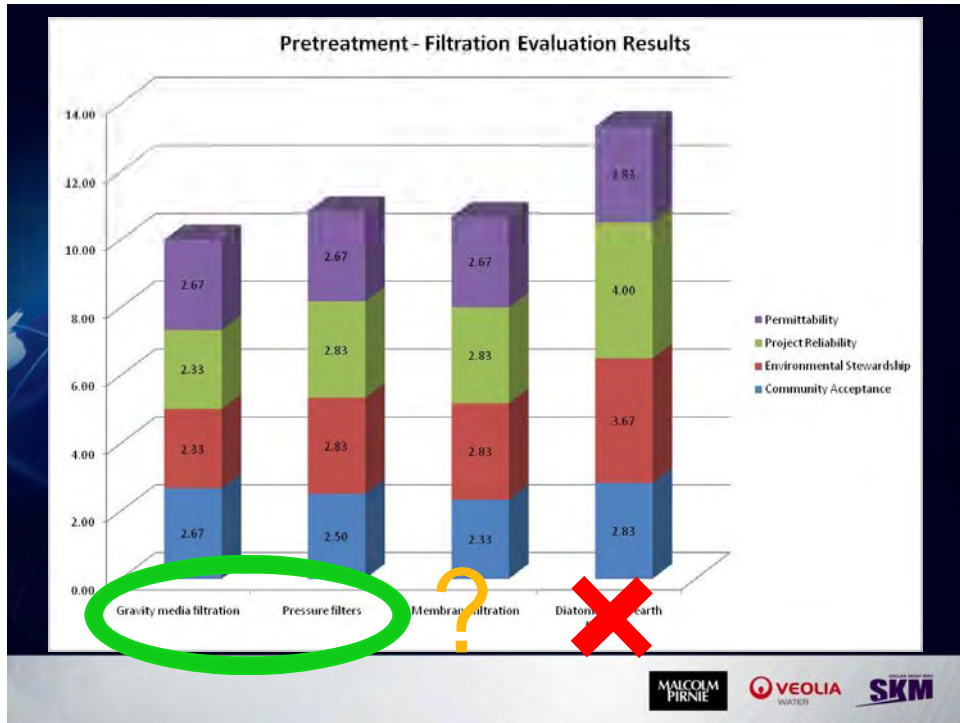


Recommendations



1. Proceed with land-based desalination
2. Revise water demand projections
3. Determine where to site the facility
4. Conduct necessary water quality, hydrogeological, geotechnical and other studies to define “the project”
5. Conduct pilot-testing to confirm treatment process requirements

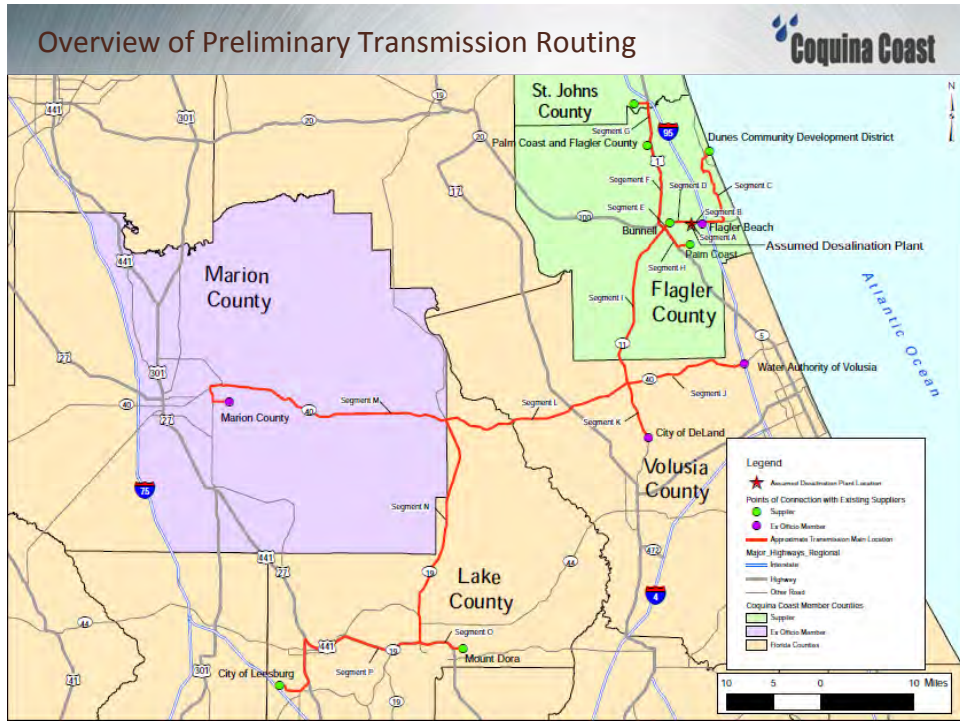




Recommendations

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5. Conduct pilot-testing to confirm treatment process requirements
6. Refine transmission system modeling and confirm routing

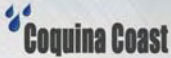
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Recommendations

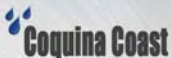
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7. Investigate options to reduce power consumption and incorporate renewable/green energy into the project

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Recommendations 

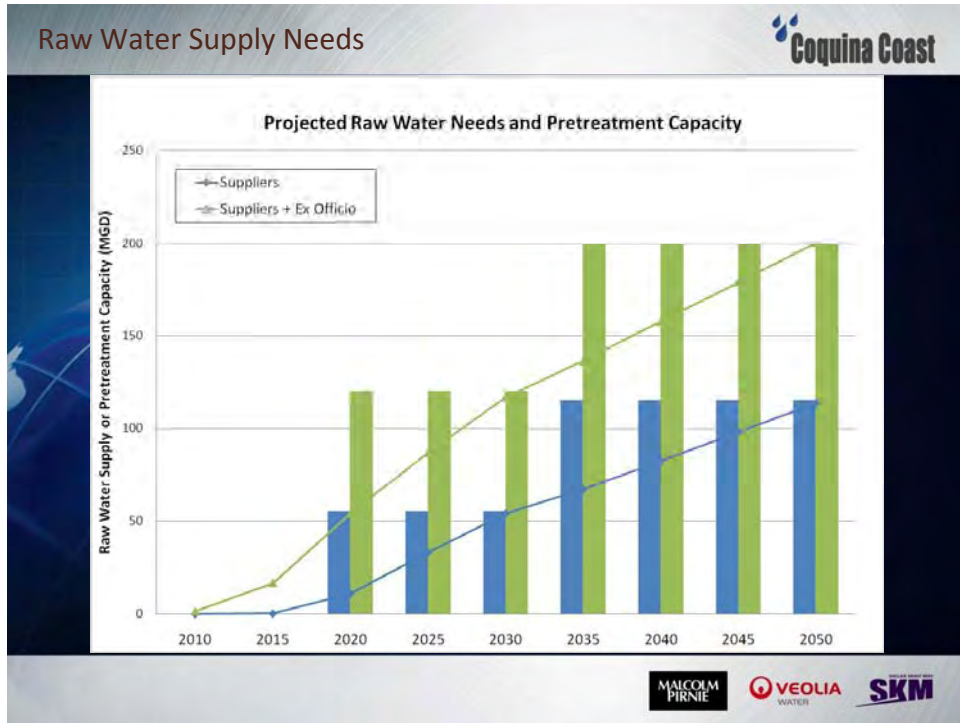
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7. Investigate options to reduce power consumption and incorporate renewable/green energy into the project
8. Form “Governance Committee” and begin meeting regularly
9. Develop Funding Implementation and Legislative Action Plans

Final Recommended Project Report – Action Items 

- Receive Comments by January
- Issue Draft 2 by January 8
- Review Draft 2 at January 13 Business Meeting
- Issue Final Report January 22



- ### Recommendations
- Coquina Coast
1. Proceed with land-based desalination
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- MALCOLM PIRNIE VEOLIA WATER SKM

Coquina Coast Seawater Desalination Alternative Water Supply Project

Scope of Services for

Interim Governance and Project Representation Assistance Services

December 11, 2009

Introduction

At the monthly Coquina Coast Business Meeting held on Thursday, November 12, 2009, Palm Coast City Manager Jim Landon requested a scope of services from the Malcolm Pirnie Team (Consultant) for services to the Coquina Coast Suppliers (Suppliers) related to Governance and Project Representation Assistance.

The Consultant's services under Phase 1 of the Coquina Coast Project (Project) are scheduled to conclude on about January 22, 2010 with the submittal of the Final Recommended Project Report. It is currently planned by the Suppliers that the Governance process will begin in late January. The Consultant's Phase 1 scope of services does not include any assistance during the Governance process, nor does it include Project Representation Assistance, each as defined below. Consultant services under the Phase 2 scope of services are not scheduled to begin until approximately May, 2010. The Phase 2 scope of services will include these services to begin in May upon the start of Phase 2. The scope of services included herein is to provide for Consultant services for Governance and Project Representation Assistance during this interim period from the end of Phase 1 until the beginning of Phase 2.

Description of Services

Task 1 – Governance Assistance

The Coquina Coast Suppliers have determined that the Governance facilitation will be conducted by Linda Shelley, through the St. Johns River Water Management District (SJRWMD). The Consultant team will participate in the process to bring any necessary technical, cost, operations, funding potential or requirement, or other such details to the process, as may be necessary and beneficial to the process. Services under this interim task will include attendance at the Governance meetings during the interim period, as well as certain assistance outside of the meetings as may be required by request of the Suppliers.

Task 2 – Project Representation Assistance

This task will include the interim services of the Consultant team to represent the Project as may be required and beneficial, and will include:

2.1 – Local Project Representation: During the interim period, the Consultant will:

- Assist with representing the technical and regionally beneficial project elements to local municipalities not currently included among the Suppliers, as District and individual water supply planning completes, for the purpose of getting the positive word out about the Project and attracting additional municipalities to the group of Suppliers.
- Assistance with representing the technical and beneficial project elements to the individual Supplier entities, including political bodies, utility groups, public meetings, or other interaction as may be desired or necessary. This effort may include development of technical flyers, development and giving of presentations, public information assistance, etc., as may be requested, or necessary.

2.2 – Project Legislative and Funding Updates: The Consultant team will provide periodic update to the Suppliers as to any legislative or funding development either at the State or Federal level during this interim period. Information provided through these updates will enhance and build upon the legislative and funding information provided in the Phase 1 Financial Implementation Plan (FIP). As may be advantageous, the Consultant will represent the Project to various state or federal agency personnel for the purpose of assisting with the securing of preconstruction funds, or related to the ultimate procuring of construction funds for the Project.

Task 3 – Miscellaneous Project Assistance

This task will include any requested or required effort for the benefit of the Project during the interim period, not specifically included in the Tasks defined above. Such effort will be as requested by the Suppliers in support of the Project as it moves to Phase 2.