To: Jose Cedeño-Maldonado, District Engineer, US Army Corps of Engineers

From: David Silverman

Kelly Finch, US Army Corps of Engineers
 Sharon Coldren, Coral Bay Community Council
 Robert Fox, Manko-Gold
 Mark Chertok, Sive, Paget & Riesel

Subj: Additional Information Requested in Public Comments

Dear Mr. Cedeño,

Thank you, again, for your visit to Coral Bay on October 3, 2015. You suggested that it would be useful for us to summarize the public comments and provide them to you to assist in your drafting the request for additional information from the applicant. Consistent with your suggestion, we have compiled the most salient comments and questions of the public, the Friends of the Park, the Coral Bay Yacht Club, and the Coral Bay Community Council into a concise list of questions and requests for additional information.

We have also reviewed the template which you provided for a Corps Environmental Assessment and have coded each of the public concerns and questions to a specific topic in the template. For completeness we have included in the table the studies and information requests identified by five federal agencies (EPA, USFWS, NMFS, NOAA HCD, and NPS). The requested information must be provided by the applicant.

We are still strongly of the opinion, for all of the reasons cited in our comments of August 25, 2015, that the applicant's permit application should be denied by the Corps. Barring denial, a complete Environmental Impact Statement, as also requested by the EPA and the NPS and thousands of public letters, is, in our opinion, the correct approach to evaluating the extensive adverse impacts on the human environment.

Sincerely,

If the

David Silverman 13 Oct 2015

In order to provide some organization to these questions, concerns, and requests for additional studies, we have referenced the Corps regulations, specifically 33 CFR 320.4 – "General policies for evaluating permit applications" which is included (in part) in the Public Notice. The notice states:

"EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, aesthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act of the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest."

	Additional Information and/or Answers Required from the Applicant	Source for	EA
	to Complete the Environmental Assessment	Request	Section
โรรเ	les related to Conservation	•	
1	Marine mammals are regularly found in Coral Bay harbor. Dolphins	Public	7.0(a)
	are frequent visitors (a video and still photograph has been provided),	Comments,	
	and migratory humpback whales are seen almost every year just	CBCC	
	outside the harbor. The acoustic impacts of the pile driving, and the	Comments	
	impacts of marine traffic and water quality on marine mammals needs		
	to be studied and quantified.		
2	Protected Resources: The extensive concerns of the public relating to	Public	7.0(a)
	marine turtles, corals, and other protected resources, including sea	Comments,	
	grass meadows, are all included in the comments of NOAA, NMFS and	Agency	
	USFWS, below.	Letters	
3	Virgin Islands National Park and Coral Reef National Monument: The	Public	7.0(a)
	concerns and extensive issues raised by the public concerning impacts	Comments,	
	to park resources are all included in the comments of the National	NPS	
	Park Service, below.		
4	Impacts to an Aquatic Resource of National Importance: The impacts	Public	7.0(a)
	to habitat, species and water quality in an ARNI have not been	Comments,	
	justified, particularly concerning given the practical alternative	CBCC	
	locations available for a marina on St John.	Comments	
โรรเ	les related to Economics		
5	Economic Viability: What is the estimated time and cost to construct	Public Letters,	7.0(b)
	the marina, with sufficient detail to independently analyze the	Expert	

	estimate and assess the risks. What are the operating costs (including	Opinion	
	Trust Land Lease, insurance, utilities, maintenance, debt service,		
	staff)?		
6	Economic Viability: Given the costs identified in (5), what fees will be	Public Letters	7.0(b)
	charged for slip rental in order to ensure an adequate return on		
	investment and does this demonstrate economic viability for the		
	marina?		
7	Water Dependent Use: Is the water dependent use (the offshore	Public Letters	7.0(b)
	marina) economically viable? Indications are that the marina cannot		
	be economically sustainable due to the lack of demand, the remote		
	location, and the short season. The land project (shops, restaurant,		
	crew quarters) is not water dependent.		
8	Project Need: The applicant has not demonstrated a market need for	Public Letters,	7.0(b)
	a marina located in Coral Bay. A detailed marketing analysis based	Expert	
	upon current data is required to demonstrate that a marina in this	Opinion	
	location would be sufficiently attractive to yacht owners to cause		
	them to utilize this facility. An analysis of the relative market		
	attractiveness of this location with other locations on St John,		
	including Enighed Pond and Cruz Bay Creek is also required.		
9	Net Economic Impact to Coral Bay and St John: What is the projected	Public Letters,	7.0(b)
	net economic impact to Coral Bay (and St John), including any positive	CBCC	
	contribution from the marina construction and operation, plus the	Comments	
	economic impact on the existing Coral Bay economy (either positive		
	or, as public comments have stated, very negative). Sufficient detail		
	to analyze these estimates is required.		
10	Economic Impact: The construction and operation of the marina will	Public Letters,	7.0(b)
	adversely impact the appeal of Coral Bay as an ecotourism destination.	CBCC	
	How is this factored into the economic model? What market research	Comments	
	on the existing tourism economy of Coral Bay has been done and		
	where is that data and what are the results of that research?		
11	Impact on Real Estate Values and Taxes: Will the construction and	Public Letters,	7.0(b)
	operation of the marina increase, decrease, or have no effect on	Realtor	
	property values in Coral Bay? Will the construction and operation of	Letters	
	the marina tend to increase, decrease or have no effect on real estate		
	taxes? Where is the data and detailed real estate analysis supporting		
	conclusions on this subject?		
12	Funding: What evidence does the Summer's End Group, LLC, have to	Public Letters	7.0(b)
	demonstrate the availability of sufficient funding to complete this		
	project? There is a history of large projects that were begun on St		
	John and never completed due to lack of sufficient funding. What		
	assurance does the community have that this will not happen in Coral		
	Bay resulting in permanent damage to the public harbor.		
13	Construction Experience: What experience does the Summer's End	Public Letters	7.0(b)
	Group, LLC (or its principals) have in marina construction? What		
	experience does the Summer's End Group, LLC (or its principals) have		
	in large scale commercial construction of any type?		
Issu	es related to Aesthetics		

14	Aesthetic Impacts: Substantial documentation has been supplied to	Public	7.0(c)
	demonstrate how this project would fundamentally, and adversely,	Comments,	
	change the aesthetics of Coral Bay. The historic character, the historic	CBCC	
	usage of the waters, the viewshed over historic properties, would all	Comments	
	be dramatically transformed. No evidence has been supplied to		
	indicate that this change either would not happen, or would not be		
	deleterious to the aesthetics of Coral Bay Market research based on		
	social, cultural and historic values needs to be provided to assess the		
	impact to aesthetic values		
Issi	related to General Environmental Concerns		<u> </u>
15	Construction / Substrate Analysis – Has any analysis been done of the	Public Letters	7 0(d)
15	substrate in the location of the proposed nilings? The applicant		7.0(u)
	indicator uso of a vibratory pile driver "where possible " Has the		
	avtent of vibratory driving vorcus impact driving been quantified?		
	Without this information (double monthed of driving substrate) how		
	without this information (depth, method of driving, substrate) now		
	can the construction time be accurately estimated? If "blue bitch"		
	(extremely hard basaltic rock) is encountered, now will this impact		
	construction?		
16	Acoustic Impacts on the Human Environment: Has the applicant	Public Letters	7.0(d)
	assessed the acoustic impacts on the human environment from pile		
	driving during the construction phase? Residents and tourists value		
	Coral Bay for its quiet atmosphere (this is frequently cited in comment		
	letters). How will the reverberation of the acoustic impacts during		
	potentially several years of construction impact the environment, the		
	health and well being, and overall quality of life for residents and		
	visitors to Coral Bay ?		
17	Light Pollution: What levels of light will be emitted by boats at the	Public Letters,	7.0(d)
	marina, and by lighting on the marina structures? What impacts will	Expert	
	this have on fish, marine turtles, birds, and other flora and fauna in	Opinion	
	the region? Quantification of night lighting and scientific data on its		
	impact in similar habitats is required.		
18	Sound Pollution: What level of sound will be generated by yachts in	Public Letters	7.0(d)
	the marina through operation of their generators, air conditioners,		
	and other utilities? During what hours will these sounds be		
	generated? What impacts will this have on residential units in Coral		
	Bay? Have sound transport studies been done in the Coral Bay		
	environment to measure the impact of ambient sounds emanating		
	from the marina on residents of the area? Where is the data and		
	analytical results of all of these environmental studies?		
19	Air Quality – Diesel Generators: What is the quantity of diesel	Public Letters	7.0(d)
	generator exhaust that will be created by electric generators operating		
	on yachts while in the marina? What are the air quality standards		
	applicable to these exhaust fumes and how will air quality be		
	monitored to ensure compliance with these standards? What studies		
	have been done to ascertain the public health issues associated with		
	this exhaust under the geographic conditions of Coral Bay?		
20	Cumulative Impacts / Sediments: Given the extensive sediments that	Public Letters,	7.0(d)

	have been deposited in Coral Bay harbor and the considerable federal	CBCC	
	and local investment to remediate the land-based sources of these	Comments.	
	sediments, the proposed marina will cause vast amounts of sediment	Expert	
	to be released due to die-off of sea grasses (which retain the	Opinion	
	sediments in their root systems). The notential for release of large	opinion	
	quantities of sediment needs to be scientifically analyzed in the		
	context of recent history of the harbor. The notential for the marina		
	to destroy the positive impacts of federal investments in watershed		
	improvements needs to be studied		
lecu	Inplovements needs to be studied.		
1550	Incorrect Computation of Son Cross Impacts The estimates of son	CRCC Opinion	7.0(0)
21	areas across imported by construction and exerction of the maxima	CBCC Opinion	7.0(e)
	grass acreage impacted by construction and operation of the marina		
	do not agree with independent estimates. Most comments suggest		
	that as much as 20-30 acres of sea grass could be lost through a		
	combination of construction, shading, and sediment release. An		
	accurate scientifically based estimate of the impact to sea grass and		
	other special aquatic sites must be created and the data presented in		
	a format suitable for independent review.		
22	Lack of Compensatory Mitigation: The applicant has provided no	Public	7.0(e)
	mitigation to compensate for the loss of aquatic function from the	Comments,	
	destruction of 20-30 acres of sea grass and Essential Fish Habitat. The	CBCC	
	loss of these resources, which are critical for the health and vitality of	Comments	
	Coral Bay, must be mitigated so that there is no net loss of aquatic		
	function. Please explain how this will be done.		
Issu	es related to Historical Properties		
23	Impacts on Historic Viewshed: The view of multiple listed properties	Public	7.0(f)
	will be partially or wholly obscured by the proposed marina	Comments,	
	(Fortsberg, Emmaus Church, Usher Quay).	CBCC	
		Comments	
24	Historic Marine Archeology: A comprehensive survey of the seabed	Public	7.0(f)
	for historic wrecks over the entire marina footprint has not been	Comments,	
	conducted. The construction of the marina will forever preclude the	СВСС	
	use of magnetometry due to the large number of steel pilings. A	Comments	
	complete survey of at least the entire marina site (28 acres) must be		
	conducted.		
Issi	ues related to Fish and Wildlife Values		
25	Water Transport and Current Studies: A thorough analysis of water	Public	7 ((g)
25	transport in Coral Bay harbor is needed in order to ascertain the	Comments	1.0(6)
	impact of the marina on the water transport patterns. Surface	CBCC	
	transport by wind and wave action tidal transport eddy currents and	Comments	
	all other modes of water exchange (both longitudinally as well as	Comments	
	an other modes of water exchange (both longitudinally as well as		
	vertically, must be documented during a typical twelve month cycle,		
	as wen as during extreme weather events. The interaction and impact		
	of the marina on existing water transport patterns needs to be		
	scientifically analyzed so that its impact on fish, wildlife, protected		
L	resources, and adjacent water bodies can be understood.		
			1 7 0(~)

	northwest of the proposed marina are a pursery for many marine	Comments	
	species. The interaction of the marina structures with the water	Evport	
	flushing of these mangroves need to be evaluated particularly since	Opinion	
	the fuel dock is directly unstream of these mangroues. The marine	Opinion	
	nilings substantially reduce the reach of this parties of the barbar and		
	plings substantially reduce the reach of this portion of the harbor, and		
27	the impact of this reduced reach on species needs to be studied.		7.0(1)
27	water Transport Studies / Hurricane Hole: There has been no data	Public	7.0(g)
	provided to demonstrate the extent of water exchange between Coral	Comments,	
	Bay harbor and Hurricane Hole. Boats waiting to enter the marina	CBCC	
	may be positioned in a location from which water may flow directly	Comments	
	into Hurricane Hole. Waters of Coral Bay may be flushed out of the		
	inner harbor, around Fortsberg, and into Hurricane Hole. Scientific		
	study over an annual cycle of winds, tides, and waves needs to be		
	performed to demonstrate the potential impacts to Hurricane Hole		
	resources from pollutants entering Coral Bay harbor.		
28	Water Transport Studies / Peak Storm Surge Events: During a tropical	Public	7.0(g)
	storm, the storm surge at the northern end of Coral Bay could	Comments,	
	transport water into the salt pond and potentially across the Usher	CBCC	
	Cay peninsula into Hurricane Hole. If this water is contaminated from	Comments	
	marina toxic substances, the impact to Hurricane Hole could be		
	substantial. The potential for contamination of Hurricane Hole during		
	peak storm surge events needs to be scientifically analyzed.		
29	Impacts to Shark Habitat: The site is a known pupping ground for	CBCC	7.0(g)
	Black Tip, Lemon, and Nurse shark. What impact would the marina	Comments,	
	structures, boat traffic, and adverse water quality have on this shark	Expert	
	habitat? How would this impact be mitigated?	Opinion	
Issu	es related to Flood Hazards and Floodplain Values		
30	Floodplain Analysis: The site is designated VE14 according to FEMA	CBCC	7.0(h)
	flood plain maps. Please explain what damage the marina, boats	Comments	
	docked at it, and the upland facilities would incur if the maximum		
	expected impacts in a VE14 zone were to impact the site.		
31	Above Ground Fuel Storage: Fuel storage tanks in a VE14 hazard zone	CBCC	7.0(h)
	present risks that have not been analyzed or reported. The risk of	Comments	
	above ground fuel storage in this zone needs to be scientifically		
	evaluated to ensure that it does not create a public or environmental		
	safety hazard.		
Issu	les related to Land Use		
32	Land Use Concerns: Large numbers of Coral Bay home owners have	Public Letters	7.0(i)
	said that the marina construction and operation will significantly		07
	destroy the value of their personal investments in their home.		
	vacation rental property, and/or land. How can the proponents justify		
	impairing the value of 500 owner occupied and rental properties and		
	how will they propose to mitigate this economic impact?		
Issu	les related to Navigation		1
33	Size / Draft of Vessels: Has any study been performed to ascertain the	Public Letters	70(k)
	maximum draft of power vachts that will be able to utilize the marina?		,(N)
	Many vachtsmen and captains have stated that 200' mega vachts will		

	scour the bottom with propeller wash and cannot possibly navigate		
	safely in the shallow waters of Coral Bay harbor. What evidence is		
	there that the marina can safely accommodate the size of vessels		
	described in their application?		
34	Vessel Traffic Studies: Although the applicant supplied a land traffic	Public Letters	7.0(k)
	study (primarily for automobiles), there was no marine traffic study		
	supplied. What analysis has been done to demonstrate that the size		
	and number of boats proposed for the facility will be able to safely		
	navigate in the proposed configuration, without danger to		
	themselves, to the marina, or to other boats? This applies to marine		
	daytime traffic, nighttime traffic, and navigation under adverse wind		
	and wave conditions.		
35	Marina Location: Many residents of Coral Bay have commented that	Public Letters,	7.0(k)
	the location proposed for the marina is the worst, most dangerous	Expert	.,
	location in Coral Bay harbor for a marina. It is the location where	Opinion	
	boats are wrecked on the shoreline during virtually every major storm.		
	How can the applicant justify construction of the marina in a known		
	hazardous location without protection from the open ocean?		
36	Wind and Wave Data: We believe that the applicants may not have	Public Letters	7 0(k)
50	used the correct data sets for their wind and wave analysis, and in any		7.0(1)
	case their conclusions about site conditions do not comport with		
	extensive local knowledge. Please refer to our comment letters on		
	this subject and provide sufficient data so that the wind and wave		
	conditions at the proposed site can be correlated with actual		
	evnerience		
27	Hurricane Prenaredness: The facilities for safe anchorage in Hurricane	Public Lattors	フ ()()
57	Hole are fully subscribed. How will up to an additional 145 hoats find	FUDIIC LELLEIS	7.0(K)
	safe anchorage in the case of a major weather event. Although it is		
	sale anchorage in the case of a major weather event. Although it is		
	there may be a number of heats berthed at the marina on a year		
	there may be a number of boats bertheu at the marina of a year-		
	number and size of vessel, by menth, and how will they find sofety in		
	number and size of vessel, by month, and now will they find safety in		
20	the event of a storm?		7.0(1)
38	Dock Design / Slip Orientation: Roughly 2/3 of the marina slips are	Public Letters,	7.0(K)
	oriented broadside to the prevailing calm weather waves. All slips are	Expert	
	double-wide. These features mean that the marina will be	Opinion	
	uncomfortable and unsafe ever during calm weather conditions. How		
	does the applicant justify this design?		
Issu	es related to Shoreline Erosion and Accretion		
38	The applicant proposes to plant mangroves on a portion of eroded	Public Letters,	7.0(l)
	shoreline, currently protected by a rip-rap revetment. Mangroves are	CBCC	
	not currently growing in this location due to the wind and wave	Comments	
	exposure. How will this eroded shoreline be protected?		
Issu	es related to Recreation		
39	The marina is opposed by the Kids and the Sea (KATS) program, by the	Public Letters,	7.0(m)
	Coral Bay Yacht Club, and by the St John Yacht Club. Each of these	Organization	
	organizations has stated that the marina would make it difficult or	Letters	

	impossible for their members to continue to enjoy use of the harbor		
	as they do today.		
40	Vast numbers of tourists have said that if the marina were built they		7.0(m)
	would no longer visit Coral Bay or St John – they would choose to		
	enjoy their vacations elsewhere. The existing visitors to the island are		
	not requesting a mega marina, and the negative impacts to		
	recreational values are severe. How does the applicant justify these		
	impacts to recreational values?		
Issu	es related to Water Supply and Conservation		
41	Potable Water: What volume of potable water will need to be trucked	Public Letters,	7.0(n)
	in on a weekly basis during peak periods of marina use? What is the	CBCC	
	profile (by month) of water usage that will need to be trucked in ?	Comments	
	Please supply details including water for consumption, for bathrooms,		
	for boat washing, for laundry, etc. sufficient for independent analysis.		
42	Waste Water: How will the effluent from waste water treatment	CBCC	7.0(n)
	facilities be dispersed? Analysis indicates that there is insufficient	Comments	
	vegetation on the small upland site to accommodate the volume of		
	waste water. Has the applicant considered recirculating waste water		
	for use in toilet flushing? What assurances are there that waste water		
	effluent will not result in water quality impacts in the harbor?		
Issu	es related to Water Quality		
43	Marine Toxic Effluents from Yachts: Numerous yachtsmen as well as	CBCC	7.0(o)
	Marine Engineers and Captains have written letters detailing the types	Comments,	
	of toxic chemicals leached or directly discharged into the water by	Public Letters	
	large yachts. This includes toxic ablative bottom paints (including TBT		
	which is available in neighboring islands), bleaches, detergents, paint		
	residues, other cleaning compounds, etc Has the applicant		
	quantified the release of these pollutants from the boats utilizing the		
	marina and analyzed their impact on the flora and fauna and		
	protected resources of the harbor?		
44	Water Quality Impacts from Construction of Piling Field: The extensive	Public Letters,	7.0(o)
	piling field (1333 pilings supporting a structure covering 1.7 acres) will	Expert	
	directly and adversely impact water quality both during construction	Opinion	
	as well as throughout its operational life. During construction the		
	sediment released from the bottom will create sediment plumes that		
	will smother surrounding sea grasses and other benthic organisms.		
	The applicant has supplied no information on the type of sediment		
	curtains to be employed, their efficacy under typical Coral Bay		
	conditions, their interaction with marine life, their ability to restrain		
	sediment spread while they are moved, or any other aspect of		
	construction sediment management, nor has the applicant supplied		
	scientific data on the composition of Coral Bay sediments in the		
4-	location of the marina.		7.0(1)
45	water Quality Impacts from Presence of Piling Field: The extensive	Public Letters,	7.0(0)
	pling field (1333 plings supporting a structure covering 1.7 acres) will	Expert	
	create increased sedimentation, reduced water circulation and	Opinion	
	increased holding time for toxic pollutants in the water column		

	throughout its operational life. These factors individually and		
	cumulatively will caused degraded water quality. The applicant has		
	not provided any scientific information or data on the impact of the		
	piling field on water quality.		
46	Piling Field Impacts on Reach and Aquatic Function: The extensive	Public Letters,	7.0(o)
	piling field, traversing half of Coral Bay harbor and directly	CBCC	
	perpendicular to the main surface water flows, will have the effect of	Comments	
	reducing the reach of the entire northwest portion of the harbor,		
	where some of the densest mangroves are found. The mooring field		
	will cause die-off of sea grasses and adversely impact the aquatic		
	function performed by the benthic flora. For these and other reasons		
	the piling field is clearly subject to 404 permitting under 33 CFR		
	323.3(c)(1): "Placement of pilings in waters of the United States		
	constitutes a discharge of fill material and requires a section 404		
	permit when such placement has or would have the effect of a		
	discharge of fill material. Examples of such activities that have the		
	effect of a discharge of fill material include, but are not limited to, the		
	following: Projects where the pilings are so closely spaced that		
	sedimentation rates would be increased; projects in which the pilings		
	themselves effectively would replace the bottom of a waterbody;		
	projects involving the placement of pilings that would reduce the		
	reach or impair the flow or circulation of waters of the United States;		
	and projects involving the placement of pilings which would result in		
	the advarge alteration or elimination of equatic functions."		
	the adverse alteration of elimination of aquatic functions.		
lssu	res related to Energy Needs		
lssu 47	Public Electric Power: The applicant has estimated a demand for	Public Letters	7.0(p)
lssu 47	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power	Public Letters	7.0(p)
lssu 47	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in	Public Letters	7.0(p)
Issu 47	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough	Public Letters	7.0(p)
lssu 47	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through	Public Letters	7.0(p)
I ssu 47	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through sustainable means should be conducted.	Public Letters	7.0(p)
Issu 47 Issu	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through sustainable means should be conducted. tes related to Safety	Public Letters	7.0(p)
Issu 47 Issu 48	Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through sustainable means should be conducted. The solar power is a priority for the USVI. A thorough the sustainable means should be conducted. The solar power is a priority for the USVI. A thorough the sustainable means should be conducted.	Public Letters Public Letters	7.0(p) 7.0(q)
Issu 47 Issu 48	The adverse alteration of elimination of aquatic functions.ies related to Energy NeedsPublic Electric Power: The applicant has estimated a demand for1.5MW of power, which is approximately 1/3 of the total poweravailable in Coral Bay. There is no mention of use of solar power inspite of the fact that this is a priority for the USVI. A thoroughevaluation of energy needs and the ability to satisfy them throughsustainable means should be conducted.ies related to SafetyPublic Safety / Storm Wreckage: How will road access to south sideCoral Bay be maintained if a hurricane deposits boats and marina	Public Letters Public Letters	7.0(p) 7.0(q)
Issu 47 Issu 48	The adverse alteration of elimination of aquatic functions. The adverse alteration of elimination of aquatic functions. The series related to Energy Needs Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through sustainable means should be conducted. Tes related to Safety Public Safety / Storm Wreckage: How will road access to south side Coral Bay be maintained if a hurricane deposits boats and marina debris on the sole access road? How long will this take and how will	Public Letters Public Letters	7.0(p) 7.0(q)
Issu 47 Issu 48	The adverse alteration of elimination of aquatic functions. res related to Energy Needs Public Electric Power: The applicant has estimated a demand for 1.5MW of power, which is approximately 1/3 of the total power available in Coral Bay. There is no mention of use of solar power in spite of the fact that this is a priority for the USVI. A thorough evaluation of energy needs and the ability to satisfy them through sustainable means should be conducted. related to Safety Public Safety / Storm Wreckage: How will road access to south side Coral Bay be maintained if a hurricane deposits boats and marina debris on the sole access road? How long will this take and how will emergency services access this region while the road is blocked ? How	Public Letters Public Letters	7.0(p) 7.0(q)
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	crime rate. Has this been analyzed and what is proposed in the way of		
	public safety and police presence (if necessary) to manage this? If		
	additional police presence is required, has the VIPD agreed to the		
	required staffing levels?		
Issu	les related to Considerations of Property Ownership		
51	Rights of Landowners: How will the rights of other shoreline property		7.0(t)
	owners be preserved? How will their rights to utilize the waters in		
	front of their property be respected? Have adjacent land owners on		
	Coral Bay harbor agreed that the proposed footprint does not impair		
	their littoral rights? What justification in law or public policy is there		
	to allow an entity who controls 15% of the shoreline to control 40% of		
	the harbor?		
52	Lack of Property Ownership, Control, or Authorization: The applicant	CBCC	7.0(t)
	does not own any of the property associated with the project. The	Comments	
	applicant has not supplied any evidence of control of the property,		
	and the only evidence of authority to apply for permits has expired.		
	Some of the property has been listed on the open market. If the		
	applicant does not control, and can provide no evidence that they will		
	control the property, then how can they have standing to apply for a		
	permit?		
Issu	es related to the Needs and Welfare of the People	1	-
53	The project is clearly not responsive to the needs of the people of	Public	7.0(u)
	Coral Bay (see petition, thousands of letters, business owners); the	Comments	
	project does not address the welfare of the people of Coral Bay		
	(adverse economic impacts, sound, light, air pollution); the project		
	would significantly affect the quality of the human environment.		
	Conversely the applicant has only demonstrated extremely limited		
	support for the project, primarily from early investors. How does the		
	applicant justify proceeding given the extraordinary level of public		
	opposition from all segments of Coral Bay and St John?		
Issu	es raised by the United States Environmental Protection Agency	Γ	
54	Comprehensive benthic survey of the complete project area, including	EPA Letter	
	the transit routes that would be used by vessels entering or exiting the		
	marina and any other areas of the bay that would be affected by		
	the proposed upland elements of the project, is needed in order to		
	properly quantify all potential impacts on these aquatic resources of		
	national importance.		
55	A comprehensive mitigation plan that includes the methodology to be	EPA Letter	
	used to compensate for all unavoidable impacts to sea grass and		
	corals, an estimate of the area to be restored as compensation, and		
	proposed performance measures to ensure that unavoidable impacts		
	are ultimately mitigated.		
56	Benchmark of water quality data and monitoring plan	EPA Letter	ļ
57	An in-depth evaluation of the proposed watershed management	EPA Letter	
	measures to determine their compatibility with existing management		
	programs and initiatives in the area and the benefits to be derived.		
58	Detailed plans for the removal of sunken vessels from the bay, and the	EPA Letter	

	measures to protect subaquatic vegetation and water quality during		
	the removal process are needed.		
59	A description of in-water and shoreline construction measures to	EPA Letter	
	control sedimentation and turbidity.		
60	The applicant should layout plans for waste reduction, compo sting	EPA Letter	
	and recycling, and provide descriptions of the processes, the		
	procedures to be followed, and the estimated reduction of solid		
	wastes that would result from such strategies. This information should		
	be incorporated into the solid waste management plan for the		
	proposed development.		
61	The applicant should provide information regarding the estimated	EPA Letter	
	wastewater volume that may be generated by all facilities (boats and		
	upland facilities), whether additional holding tanks might be required,		
	the estimated frequency of wastewater hauling and the capacity of		
	the proposed treatment facility at Cruz Bay. EPA is concerned that the		
	treatment facility targeted to receive wastewater from the project		
	could exceed its capacity as a result of the increased loads, resulting in		
	additional impacts to water quality elsewhere in the U.S. Virgin		
62	Islands.		
62	The potential contribution to greenhouse gas emissions during the	EPA Letter	
	construction and operation of the marina should be thoroughly		
	mitigate these emissions		
62	Climate change will continue to occur and therefore the effects of	EDA Lottor	
05	climate change on Coral Bay, such as sea level rise, should also be	LFA Letter	
	considered.		
64	In view of the high degree of interest and controversy that this project	FPA Letter	
• ·	has generated, the unique characteristics of the area, its proximity to		
	the Virgin Islands National Park, the uncertain risks associated with		
	the proposed development, and the extent of the potential impact to		
	aquatic resources, EPA continues to advise that a full Environmental		
	Impact Statement (EIS) be prepared for this project.		
Issu	es raised by the National Marine Fisheries Service (NOAA)		
65	An Essential Fish Habitat Assessment	NMFS Letter	
66	Assessment of impact on ARNI species	NMFS Letter	
67	An Endangered Species Act Section 7 Consultation	NMFS Letter	
68	A revised EAR that addresses any project changes since the issuance of	NMFS Letter	
	the last USACE public notice, as well as addressing previous comments		
	regarding potential project impacts to ESA resources.		
69	An adequate alternatives analysis that includes on and offsite	NMFS Letter	
	alternatives and alternatives to the full marina project must be		
	completed. At this time, the alternatives analysis does include some		
	offsite alternatives, but only considers full build out and does not		
	adequately analyze the environmental impacts of each alternative.		
70	Sea turtles are known to use Coral Bay and areas along the most	NMFS Letter	
	common transit routes to and from the bay proposed as part of this		
	project but, despite several requests, no sea turtle surveys have been		

	conducted for the project. A sea turtle survey plan should be		
	developed in coordination with the National Marine Fisheries Service		
	(NMFS) Protected Resources Division and implemented in order to		
	determine the use of the project area by different species of turtles so		
	that avoidance and minimization measures can be developed for the		
	project. An analysis of potential vessel strikes, including the time,		
	number and size vessels are expected to be moored (in the marina or		
	on mooring buoys) versus outside the marina in order to determine		
	the potential extent of impacts to sea turtles from operation of the		
	marina.		
71	A complete benthic survey to include transit routes into and out of the	NMFS Letter	
	bay needs to be conducted. To date, detailed benthic information has		
	been presented only for the immediate area of the marina.		
72	Details of pile driving and quantification of potential acoustic impacts	NMFS Letter	
	to sea turtles given that 1,333 piles will be driven in order to construct		
	the proposed facilities, as well as proposed impact minimization		
	measures. These calculations and measures should be specific to the		
	proposed marina project and should also include pile driving		
	associated with shoreline construction as appropriate.		
73	Details of the fuel barge operation for refueling the marina facilities,	NMFS Letter	
	including where barge will dock and its draft.		
74	Information regarding the number of vessels currently within the	NMFS Letter	
	proposed marina footprint and the relocation plan for these vessels to		
	determine whether this will result in additional impacts to other areas		
	of Coral Bay.		
75	Details of the construction plan for inwater and shoreline	NMFS Letter	
	construction, including sediment and turbidity control measures,		
	maintenance and monitoring schedules for these controls, and		
	information regarding the proposed spud barge and work vessel		
	anchor locations, including information as to whether spud holes will		
	be backfilled.		
76	Copies of recent water quality monitoring data for the project area,	NMFS Letter	
	including the area of the marina and mooring field, as well as the		
	proposed water quality and sediment monitoring program to be		
	implemented for pre, during, and post construction and throughout		
	project operation. This program should include the ghut as it will		
	receive discharges from the upland portion of the project, the marina		
	basin, the mooring field, and control sites in Coral Bay, as well as other		
	sites that are downstream of the marina and mooring field based on		
	current patterns in the bay.		
77	Current data for Coral Bay, including tidally influenced and wind driven	NMFS Letter	
	transport patterns, as well as patterns during large storms such as		
	hurricanes and tropical storms.		
78	Details of the anticipated transit locations of users of the marina and	NMFS Letter	
	mooring field to determine the potential extent of impacts to ESA		
	resources due to the introduction of up to 235 new vessels to the area		
	given the locations of FSA listed corals, acroporid coral critical habitat.		

	and habitat for ESA listed sea turtles, as well as the presence of ESA		
	listed sea turtles in relation to the proposed project and likely transit		
	routes and use of different areas around St John.		
Issu	es raised by the National Park Service		
79	The realistic estimate of vessels associated with the project is far	NPS Letter	
	above the 157 listed in the permit application. What is a realistic		
	estimate of the peak number of vessels associated with the project?		
80	The EAR does not contain a section on Vessel Traffic impacts to any	NPS Letter	
	marine resource. What are the impacts of vessel traffic on marine		
	resources, specifically within the Park and Monument?		
81	Evaluation of impacts to park and monument soundscapes,	NPS Letter	
	lightscapes, cultural and archeological resources and visitor use and		
	experience.		
82	Revised EAR to address potential impacts to Virgin Islands Natural Park	NPS Letter	
	and Virgin Islands Coral Reef National Monument, and in particular		
	Hurricane Hole.		
83	The proposed development has proven to be so controversial and can	NPS Letter	
	reasonably be expected to cause significant long term harm and		
	impairment to the resources of Virgin Islands National Park and Virgin		
	Islands Coral Reef National Monument as to require the permitting		
	agency to complete a full Environmental Impact Statement.		
Issu	es raised by the US Fish and Wildlife Service		
84	The applicant should address all direct and indirect impacts to sea	USFWS Letter	
	grasses within the project areas.		
85	The project's footprint should be superimposed on a benthic habitat	USFWS Letter	
	map in order to determine the extent of marine habitat that would be		
	occupied by the project and to assess the potential impacts to marine		
	habitat from the project's footprint		
86	The applicant should develop a compensatory mitigation plan that	USFWS Letter	
	reflects not only the direct impacts of the placement of piles, boat		
	slips and decking, but also reflects the long term degradation of the		
	construction and operation of the marina for the entire project limits.		
87	The applicant should assess the possible long term effects of	USFWS Letter	
	contaminants on marine habitats in and around the proposed marina.		
	Measures to mitigate or minimize these long term impacts should be		
	included in the mitigation plan.		
lssu	es raised by NOAA Habitat Conservation Division		1
88	A complete impact assessment that quantifies all potential direct and	NOAA HCD	
	indirect impacts to corals and seagrass, including work vessel spudding	Letter	
	areas, shading by barges during construction, fuel barge operations,		
	deck shading long-term, and mooring placement and potential		
	impacts due to vessel shading in mooring field. The information		
	provided should include a map clearly depicting and quantifying		
	impacts by location and habitat type.		
89	Description of on-site and off-site project alternatives that	NOAA HCD	
	demonstrate avoidance and minimization of impacts to corals and	Letter	
	seagrass to the maximum extent practicable.		

90	A biological monitoring plan that gauges actual impacts relative to	NOAA HCD	
	those predicted in the impact assessment and triggers additional	Letter	
	compensatory mitigation when appropriate. The plan should include		
	pre-construction, during construction, and post-construction water		
	quality monitoring. In addition, the plan should include examination of		
	long-term on-site stormwater management measures to reduce runoff		
	created by the impervious surface constructed for the parking area.		
91	A spill contingency plan that includes precautionary measures,	NOAA HCD	
	emergency actions should a spill occur, and spill reporting criteria. The	Letter	
	plan also should demonstrate a tiered approach for minor versus		
	major spills.		
92	An amended compensatory mitigation plan that describes how	NOAA HCD	
	unavoidable impacts to seagrass and corals would be fully offset. The	Letter	
	plan shall include a description of mitigation activities and the		
	mitigation site(s), expected results from the mitigation, and a		
	monitoring plan with schedule that will gauge how the performance		
	criteria will be met. The mitigation plan shall demonstrate that the		
	amount of seagrass and coral mitigation is sufficient through a		
	functional assessment or appropriate analytical tool.		
93	A list of BMPs that will be implemented during construction and	NOAA HCD	
	operation of the upland infrastructure, docking facility, and mooring	Letter	
	field to ensure that impacts to coral and seagrass habitats are		
	minimized to the maximum extent practicable.		