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TRANSCRIPT AND PRESENTATION OF REMEDIATION ALTERNATIVES REGARDING THE
PROPOSED REMEDIAL ACTION PLAN MEETING FOR UNEXPLODED ORDNANCE 1 (UXO
1) HELD ON 21 AUGUST 2014 AT THE MULTIPLE USE CENTER VIEQUES ISLAND
PUERTO RICO
08/21/2014
VERBATIM REPORTING PUERTO RICO

UXO 1 PROPOSED REMEDIAL ACTION PLAN PUBLIC
MEETING,

held on Thursday, 21 August, 2014, at the Multiple Use
Center, Vieques, Puerto Rico, starting at 7:38 p.m.

UXO 1 PROPOSED REMEDIAL ACTION PLAN MEETING

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1 IN VIEQUES, PUERTO RICO
2 THURSDAY, 21 AUGUST 2014
3 P-R-O-C-E-E-D-I-N-G-S

4 ---

5 MS. ALMODOVAR: So please take your
6 seats. We are going to get started.
7 Thanks to all of you for staying with us
8 after the RAB meeting. We are going to
9 have a follow-up public meeting about the
10 proposed plan for the remediation action at
11 UXO 1 or Eastern Conservation Area.

12 And a couple of notes for you, kind of
13 what the process is going to be. That Dan
14 is going to present the plan to you, some
15 of the options, and after he's presented
16 the slides, we are going to give you an
17 opportunity, if you have any verbal
18 comments for the record.

19 We have Raquel here. She is going to
20 be transcribing everything that's being
21 said, so please make sure that you wait for
22 your turn. And when you get your
23 microphone, you are going to say your name.
24 If you are going to be representing a
25 specific organization, say your name, the

Verbatim Reporting Puerto Rico
787.626.5700

1 organization, and make sure you really
2 speak close to the microphone so she can
3 record everything.

4 At the end, if you have any written
5 comments about the plan or you want her to
6 record your comments, you can come up.
7 Talk to Dan or talk to Raquel. She's all
8 the way over here (indicating).

9 (Addressing the reporter) If you want
10 to stand up for a second.

11 There's our court reporter right
12 there.

13 And, again, we have the simultaneous
14 translation. "Si necesitan traducción,
15 tenemos los receptores aquí."

16 Dan...

17 MR. WADDILL: Thank you.

18 Again, thank you for coming. This is
19 our public meeting for the Eastern
20 Conservation Area, also called UXO 1. And
21 what I'd like to do is just present a
22 little bit about the site -- I'm sure most
23 of you are familiar with it -- and then
24 present the remedial action that the
25 technical team believes is the correct

1 remedial response, and then we'll like to
2 get your comments on it. So we'll dive in.

3 Yes, I think that's good. Let's go to
4 the next one (referring to the images on
5 the projector).

6 The Eastern Conservation Area is the
7 farthest eastern tip of the island. There
8 is a light-post out here now. It borders
9 the former live impact area where most of
10 the bombing occurred.

11 For a little bit of history, it was
12 established as a conservation area in 1983.
13 It was not used as an operational area by
14 the Navy, but it was so close to the live
15 impact area, that there were munitions that
16 fell on the ECA. And, you know, basically,
17 there's beach, there's uplands, lowlands, a
18 large lagoon. I know many of you went on a
19 site visit about a year ago and saw these
20 features of the ECA.

21 The Navy did some removal actions from
22 2005 to 2009. Munitions were cleared from
23 the surface. A number of munitions items
24 were identified and removed, along with
25 debris. And then another removal action

1 was carried out in 2011. So that's kind of
2 a brief history of what's gone on out there
3 already.

4 In 2011, we also did a remedial
5 investigation to look at environmental
6 contaminants that may be present out in the
7 ECA, collecting soil, surface-water and
8 sediment samples, and the data was
9 evaluated as part of the CERCLA process. A
10 risk assessment was done for human health
11 and ecological risk.

12 Just real briefly -- and we've
13 presented this information in more detail
14 in the past -- but as far as ecological
15 risks, there were no contaminants of
16 concern identified; the same situation for
17 human health risk. But there were
18 potential explosive hazards just from
19 munitions on site.

20 There are potentially munitions in the
21 subsurface which could become exposed as
22 erosion occurs. And some of the areas that
23 were unstable and just could not be safely
24 cleared were not cleared, so there's
25 potential munitions in those areas as well.

1 So the feasibility study considered
2 the various options or alternatives for
3 cleaning up the site based on the potential
4 for munitions to still be present there,
5 and we came up with a
6 big-picture-remedial-action objectives.
7 And, you know, in a nutshell, it was just
8 to limit access to the site, was one
9 objective. Because if people aren't going
10 there, then they are not exposed to any
11 hazards. And then, also, to allow for Fish
12 and Wildlife's land use plan, to allow them
13 to implement the monitoring and maintenance
14 activities that they need to do at that end
15 of the island.

16 And so, in the feasibility study, we
17 considered three alternatives. The first
18 one is to do no action. That's always
19 considered in a feasibility study. It just
20 serves as a baseline, a point of
21 comparison. That's always included. And
22 it doesn't mean "we're going to do no
23 action;" we just want to be able to
24 evaluate our actions by comparison.

25 Alternative 2 was focused additional

1 munitions removals as necessary and land
2 use controls. And so the goal was to allow
3 Fish and Wildlife to do their turtle
4 nesting monitoring and other management
5 activities. That alternative also includes
6 restoration of vegetation on the beach,
7 which is Playa Blanca out at the ECA, and
8 the upland dry forest.

9 Signs would be used to deter
10 trespassing, and we'll have long term
11 monitoring as part of this alternative to
12 be sure that the remedy is still
13 protective. That signs are in place. If
14 there is erosion and we see munitions,
15 they're removed, that kind of thing.

16 So this is a map that just shows
17 visually what alternative 2 would involve
18 (indicating). So here is the ECA
19 (indicating). And I know there's been a
20 lot of concern about the restoration of the
21 vegetation that was cut in the ECA in the
22 past. And so restoration would occur in
23 these upland areas here and here
24 (indicating), and then along Playa Blanca.

25 And that was determined -- A

1 restoration plan was prepared by the Fish
2 and Wildlife Service. They analyzed the
3 area in detail. Most of us went on a site
4 visit last year, and the idea there was to
5 see how the recovery of the vegetation is
6 going and what additional work needs to be
7 done.

8 So based on that evaluation, Fish and
9 Wildlife Services came up with a
10 restoration plan. They've talked about
11 this plan at past meetings, so you are
12 somewhat familiar with it. If you have
13 questions about that plan, then they can
14 certainly answer questions tonight.

15 But, you know, the real concern about
16 restoration. I mean, we've gotten that
17 feedback in the past, and this alternative
18 addresses restoration through the
19 development of this plan by Fish and
20 Wildlife Service.

21 Let's go back. Let me just walk
22 through... Here we go.

23 We're also going to put a gate here on
24 the road (indicating) and a warning sign to
25 deter trespassers. The other thing we are

1 going to do is put a couple of gates out
 2 here (indicating), to the west of the live
 3 impact area. And the reason we felt like
 4 that would be a good thing as part of the
 5 ECA -- I mean, it's a long way from the
 6 ECA, but this is the area (LIA)(on screen)
 7 that's most hazardous. And so we all felt
 8 that having some controls here (indicating)
 9 and some warning here (indicating) would
 10 just be appropriate. Because the final
 11 remedy for this area (indicating) is yet to
 12 come. So those are the essential features
 13 of alternative 2.

14 Alternative 3 would be, essentially, a
 15 complete subsurface clearance of the area,
 16 which would involve dewatering the lagoon,
 17 clearing all the vegetation, digging up
 18 munitions to a depth of two feet. And then
 19 the elements that were also in alternative
 20 2: the vegetation restoration would occur,
 21 signs and long-term monitoring.

22 So the remedial action that we are
 23 proposing is alternative 2, which is the
 24 focused additional munitions removal, as
 25 necessary, and the land use controls that I

1 described and that are on the map.

2 As I mentioned before, this is the
3 alternative that the regulatory team,
4 including Navy, EPA, Fish and Wildlife,
5 DNER and EQB support this remedy, and we
6 are asking for your comments tonight.

7 And here, if you would like more
8 information, these (indicating) are points
9 of contact, a reference to the
10 administrative record, points of contact
11 with each of the agencies.

12 Also, we are in a public comment
13 period for this proposed action, and that
14 comment period ends on September 17th. So
15 anytime between now and September 17th, you
16 can submit comments. We'll certainly take
17 them tonight. But if you have other
18 comments later, we'll be glad to take them.
19 If you know other people who would like to
20 provide comments, that comment period lasts
21 for about another month. And you are
22 welcome to talk with any of the
23 representatives that are here tonight.

24 And, as Madeline mentioned, if you
25 want your comments to be part of the

1 official record, please use the microphone,
2 or you may talk with the court reporter
3 here, or you could submit a written comment
4 to us now and it will become part of the
5 official record.

6 So what we'll do now -- I think that's
7 the end of the slide. If you have
8 questions or would like to make a comment,
9 now you can use the microphone. We've also
10 got posters on either side of the room. So
11 as we wind up here, we are going to move
12 back to the posters. You can talk with any
13 of us about the remedy, ask questions, make
14 comments. Just, again, be sure that if you
15 want it to be an official comment, be sure
16 that we get it in one of those official
17 ways.

18 So with that, I'll take some
19 questions, and also know that as we go, you
20 can also move back and we can start talking
21 around the posters as well.

22 MS. ALMODOVAR: Thank you, Dan.

23 I also wanted to mention, in the back
24 of the document copies that we have back
25 there, there is a page for your comments.

1 If you feel shy or don't want to talk on
2 the microphone, you can just write your
3 comment down and give it to any of the
4 people over here and we'll make sure that
5 it gets recorded.

6 When you came in, you signed up on
7 this nice sign-in sheet here. And it had a
8 question, if you had a comment or
9 something, to mark an "X." I'm going to
10 kind of call these people. If you have a
11 comment or question, that would be kind of
12 your turn, and then at the end, if you
13 didn't get a chance to sign up, then we'll
14 go ahead and take your comment or question.

15 So I have Mark Martin.

16 Is that you?

17 And please remember to speak very
18 close to the microphone, say your name and
19 the organization, please.

20 MR. MARTIN: Mark Martin Bras, Vieques
21 Conservation and Historical Trust.

22 I have a question. There is a term
23 which was regarding alternative 2, about --
24 I forgot, it was, like, "localized further
25 action" or some sort of LUC or -- where is

1 it?

2 MR. WADDILL: Maybe the focused --
3 additional focused removals.

4 MR. MARTIN: Yes.

5 So how would that be budgeted? Would
6 there be a specific amount of money saved
7 for that or earmarked for that? Is it all
8 focused? I mean, is there a decision
9 process where they determine, "Well, that's
10 something we are not going to deal with,"
11 or "That's something we definitely" --
12 there's a criteria? Or is a budgeting,
13 like, "We have this much for the additional
14 focused"?

15 MR. WADDILL: Sure.

16 There's two ways that additional work
17 may occur. Initially, if -- you know, Fish
18 and Wildlife has a land use plan for the
19 area. You know, if they identify
20 additional trails or activities that they
21 need, then it's possible that we can go out
22 and clear some additional areas that are
23 targeted to their specific needs. And that
24 would be budgeted generally as part of our
25 program.

1 And then, down the road, as we do
2 long-term monitoring, you know, that's a
3 regular part of the Navy budget at any site
4 like this. And so, if erosion occurred, if
5 anything arose that was unexpected, we
6 would have money to deal with that, and to
7 remove items if they were seen for whatever
8 reason.

9 MR. MARTIN: Mark Martin again.

10 And when you have the gates at the
11 eastern part of the live impact area -- put
12 me in terms of time and use of the western
13 lands that are towards those gates -- this
14 is all for the agencies? This is not
15 public access until then, right?

16 MR. WADDILL: That's right.

17 This is not public access. There are
18 trespassers who do come in. So the gates
19 and the signs would serve as a warning to
20 them. But you're right, people are not
21 allowed in this area. It's kind of a
22 precaution.

23 MR. MARTIN: And the signs that you
24 mentioned, they'd be regarding specific or
25 general warnings? Like, "Don't come here",

1 or "This is the type of munitions that you
2 could find that could hurt you in this
3 way"?

4 I find that that's one of the things,
5 that people have become sort of
6 "desensitized" to the actual dangers. And
7 although you provide a lot of
8 information -- because I've been to a very
9 limited amount of these because I have
10 other prio -- not priorities, but
11 engagements. But I know my friends have
12 come and there's a lot of information. But
13 I think the people are getting somewhat
14 "desensitized" to the general "Away.
15 Munitions."

16 A think a little more effective way
17 would be a more descriptive -- more
18 description of the type of dangers that you
19 have in that kind of place, especially in
20 the area where you have -- in the north,
21 that you have those -- I forgot what you
22 call those bumps that scatter.

23 MR. WADDILL: The sub-munitions.

24 MR. MARTIN: Yeah, yeah.

25 You know, I think that might be more

1 convincing.

2 MR. WADDILL: Okay. I mean, that's a
3 good comment and we'll be determining
4 specifically what the signs do say, so
5 that's a good comment that we can consider.

6 MS. ALMODOVAR: Thank you.

7 I have Lora Pride.

8 MS. PRIDE: I'm good.

9 MS. ALMODOVAR: You don't have any
10 comments. Okay.

11 So we are moving on to John Stocklosa.

12 MR. STOCKLOSA: I'm okay.

13 MS. ALMODOVAR: You're good.

14 MR. BARANDIARAN: Mike Barandiaran,
15 Fish and Wildlife.

16 I just want to address one of the
17 comments that Mark had. That is correct
18 for the time being, but everybody has
19 proposed: the Commonwealth, Fish and
20 Wildlife, EPA, everybody, Navy, everybody's
21 on board, that area west of those gates and
22 those fences and so on and so forth, that
23 area will eventually be open to the public.
24 So although the public can't go there now,
25 in some near future they will be, because

1 that's the road that they are going to take
2 to go up to OP 1. So, just wanted to make
3 sure and add that.

4 MR. MARTIN: Mark Martin Bras, Vieques
5 Conservation and Historical Trust.

6 In regards to that, I know that you
7 don't have an answer for this because,
8 obviously, we are talking smaller projects
9 and site-oriented questions here. But in
10 regard to opening to that side, is there a
11 timetable for that type of opening that
12 Mike is referring to, or the possibility,
13 in a range of years?

14 MR. HOOD: Mike was just talking about
15 access in general.

16 MR. MARTIN: Yes. So that's what I'm
17 referring to now, in that question.

18 MR. WADDILL: Yeah. You know, we
19 don't really have a good time estimate.
20 That's not coming up anytime soon.

21 MR. MARTIN: So it won't be here in
22 the next decade?

23 MR. WADDILL: Oh, probably in the next
24 decade.

25 MR. MARTIN: Okay, okay. I'm just

1 getting a range.

2 MR. WADDILL: Yeah. We're not
3 thinking next year or the year after.

4 MR. MARTIN: Okay.

5 MR. WADDILL: And, so, you know, we
6 feel that these gates and signs are
7 adequate given that no one is allowed out
8 here now. But when we develop a remedy for
9 this area and consider changes in land-use
10 to the west, then there might be something
11 added here.

12 MR. MARTIN: Okay. Thank you.

13 MS. ALMODOVAR: I have Gerardo
14 Cisneros.

15 He's gone. Okay.

16 I have Stacy Notine.

17 MS. NOTINE: My name is Stacy Notine
18 and I'm a community member of the VRAB.

19 So what you're saying is we are now in
20 an as-needed basis that Fish and Wildlife
21 would be in touch with you if they need the
22 services of UXO removal? It's a little
23 confusing. You are saying there is a
24 focused intention that everyone's agreed to
25 in terms of UXO. Are we talking about now,

1 to put up these signs? Or when is it that
2 we are talking about doing this focused UXO
3 removal?

4 And in regards to that, because you
5 now, as you know, have come out with -- in
6 terms of an agreement, obviously due to
7 problems with the Puerto Rican government
8 and with EPA concerning a field change
9 request in terms of the thresholds that
10 have been used in the past, with the
11 equipment you are using for detecting UXO
12 not being sufficient -- which really brings
13 into a whole other need for conversation.
14 But specific to this, because this field
15 change request is known to us and is being
16 referred to as needing to be "considered,"
17 are we clear that this field change
18 request, which in itself really deserves
19 conversation because it puts into doubt all
20 prior UXO investigation, will this be put
21 into effect for whenever it is that you are
22 going to be doing this focused UXO study
23 having to do with the ECA?

24 MR. WADDILL: Well, we are planning to
25 move ahead with this remedy and go ahead

1 and do the work in the upcoming year. And
2 so, the idea is that there is a little bit
3 of flexibility if Fish and Wildlife has
4 areas that they want us to address, we can
5 go ahead and do that. If they do not, then
6 there would not be any more UXO removal.

7 We've done the interim actions in the
8 past. You know, some people feel that we
9 did too much of that already and we've
10 impacted the environment too much already.
11 So, basically, this remedy focuses on land
12 use controls to be protective, and to be
13 sure that we are not missing anything that
14 might be exposed due to erosion. That if
15 that occurs, that we'll find it; and then
16 to restore the vegetation to an acceptable
17 level. And that restoration is a big part
18 of this remedy. And, as I mentioned, Fish
19 and Wildlife Service has taken on the
20 restoration plan for that.

21 MS. NOTINE: So then it is essentially
22 to be interpreted on an as-needed basis in
23 their restoration planting. Fish and
24 Wildlife will be in touch with you if they
25 need UXO assistance.

1 MR. WADDILL: Yes. I mean, we
2 would --

3 MS. NOTINE: And so, otherwise, it's
4 just fences and gates that are going up,
5 fences, gates and signs, like at the
6 lighthouse, like at UXO 15.

7 MR. WADDILL: Yes. And monitoring.
8 And we would definitely provide UXO support
9 to Fish and Wildlife during any kind of
10 work that they did for restoration. We
11 would also fund that work as well.

12 MS. NOTINE: You are funding the
13 restoration.

14 MR. WADDILL: Yes. The way we
15 envisioned doing it is the Navy would do
16 the work at the beach, Playa Blanca,
17 because that's straightforward and planting
18 additional plants down at the beach.

19 And, again, this is following Fish and
20 Wildlife's plan. But then, for the upland,
21 which is more complicated, they just have
22 the expertise to do that kind of work, and
23 we don't. So the plan there is to fund
24 them to do it. We've started looking into
25 the mechanism for that.

1 MS. NOTINE: So in terms of dig sheets
2 and all of this kind of typical terms
3 having to do with any intrusive acts in
4 these areas that are UXO areas, have taken
5 on another dimension. They don't need,
6 like, a dig permit to plant a tree.

7 MR. WADDILL: No. We would support
8 them. We would send out technicians who
9 would -- They'd say, "I want to put a tree
10 here. I want to dig here." We would clear
11 that area, make sure it's safe and then
12 they would go ahead and do that.

13 MS. NOTINE: In the as-needed basis.

14 MR. WADDILL: Yes. Just as they're
15 doing their work. Yes.

16 MS. NOTINE: This is the end of -- I'm
17 the last one of the list, I imagine.

18 MS. ALMODOVAR: We may have other
19 people that haven't signed up.

20 MS. NOTINE: If I could just -- This
21 doesn't have to do with the ECA. But no
22 one has spoken about SWMU 6 for a long
23 time, about Kiani. I'd really like to
24 know, because there was a ROD submitted, a
25 draft ROD. And, where are we with Kiani?

1 MR. WADDILL: Well, let me just answer
2 that real quickly and then we can talk
3 about it more, together. We are doing some
4 additional sampling out there to support a
5 potential dredging remedy, and so that's
6 where we are. We can talk about it more if
7 you like.

8 MS. ALMODOVAR: Thank you.

9 Is there anyone else that would like
10 to speak on the microphone to provide their
11 comments?

12 MR. BARANDIARAN: I just wanted to
13 offer some clarification, if I may, for
14 some of Stacy's questions. Mike
15 Barandiaran, by the way, Fish and Wildlife,
16 before I forget.

17 And in this particular case, in the
18 ECA, the ECA is not an area that's going to
19 be open to the public. Because that whole
20 area: the LIA and the ECA, unfortunately,
21 the risk is too high and it can't be
22 reduced enough to where the regulators will
23 allow for the public to go there.

24 So when we do work and we're going to
25 do restoration, we give our plans in

1 advance to the Navy and to the regulators,
2 and everybody says, "Okay, this is what you
3 are going to do and this is the kind of
4 support that you need to actually do this."
5 And the Navy provides that support.

6 This has nothing to do with other UXO
7 sites, where in other UXO sites, what the
8 Navy is talking about in terms of
9 additional support, is that we would say,
10 "We want to build a trail in this area. We
11 want to put an observation tower in this
12 other area. We want to do some parking lot
13 areas. We want to do," et cetera, et
14 cetera, et cetera additional facilities,
15 and we provide those in advance to the
16 Navy, and the Navy would then do the
17 pre-clearing for that.

18 And the idea is, in the other UXO
19 areas, they will be open to the public, and
20 no fences of any kind, except for maybe in
21 this area (indicating), which is the most
22 dangerous area. But we go back to SWMU 4
23 and so on and so forth, where there is no
24 fencing, and so on and so forth.

25 MS. MCNAMARA: Coleen McNamara,

1 community VRAB member.

2 Mike, when you are talking about "this
3 area" being the most dangerous area, are
4 you talking about the LIA or the ECA?

5 MR. BARANDIARAN: I am talking about
6 the LIA, but the ECA is also -- in order to
7 get to it, you have to go through the LIA.
8 So there is still no access. Now, it
9 doesn't mean that in the future -- and this
10 we have to consult with the regulators and
11 with the Navy -- but for official purposes,
12 like a category 1 scientific reserve area
13 only, for example, there may be researchers
14 that are not Fish and Wildlife. They might
15 be university researchers and so on and so
16 forth, who want to go and check the site.
17 So they would go as part of a group for
18 official purposes. But it wouldn't be
19 something that we are going to say, "Navy
20 just opened up some trails and the public
21 can just go hiking." That's not going to
22 happen.

23 The OP 1 will be the public area
24 furthest east that will be open. But the
25 rest of it will just remain, unfortunately,

1 closed.

2 MR. WADDILL: When I mentioned
3 potential trails in the ECA, that would be
4 for Fish and Wildlife to do their
5 monitoring or maintenance activities. It
6 would not be for public access, as Mike
7 says.

8 MR. MARTIN: Mark Martin, Vieques
9 Conservation and Historical Trust.

10 Just to put in perspective, I think we
11 are a little confused. In the ECA, the
12 removal was actually done -- when, for
13 example, they destroyed the dwarf forest,
14 they removed -- I forgot the amount, but an
15 amount -- so, like, this is why there's no
16 actual removal, because it already was
17 done, right?

18 MR. WADDILL: Correct.

19 MR. MARTIN: Okay. Thank you.

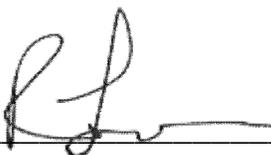
20 MR. WADDILL: All right. We will be
21 around the posters. We welcome the chance
22 to talk with you further, answer your
23 questions, and you make additional
24 comments, too. So we'll move in that
25 direction. Thank you.

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(Whereupon, the proceedings conclude
at 8:11 p.m.)

REPORTER'S CERTIFICATE

I, RAQUEL LEÓN MIRANDA, E.R. Reporter, do hereby certify that the following transcript is a full, true and correct record transcribed by me.



RAQUEL LEÓN MIRANDA



Proposed Remedial Action UXO 1, Eastern Conservation Area (ECA) Former Vieques Naval Training Range Vieques, Puerto Rico

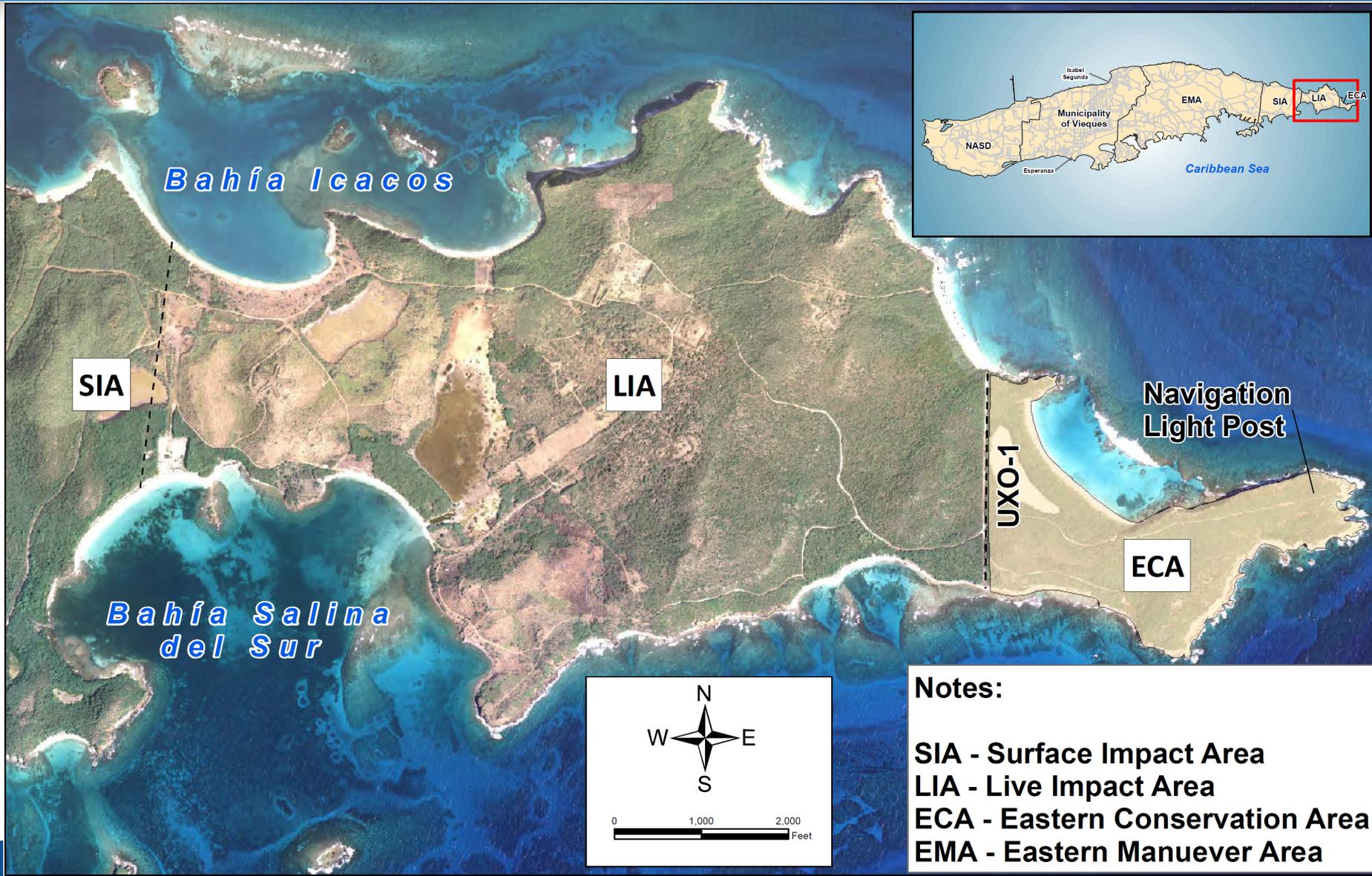
Atlantic Fleet Weapons Training Area - Vieques
Public Meeting
August 21, 2014



Meeting Outline

- **Historical Information**
 - Location
 - Past Site Use
 - Interim Removal Actions
 - Remedial Investigation
 - Contaminants and Risks
 - Feasibility Study
- **Proposed Remedial Action**
- **Questions and Comments**

UXO 1 (ECA) Location



History

- **Eastern Conservation Area (ECA)**
 - Established as a Conservation Area in 1983
 - Not used as a munitions operational area
 - Located adjacent to Live Impact Area (LIA) where artillery, air-to-ground bombing, naval gunfire, and open burn/open detonation activities occurred
 - Munitions and explosives of concern (MEC) identified



Interim Removal Actions

- **Time Critical Removal Action (2005 - 2009)**
 - MEC removed from surface within 125 acres of UXO 1
 - In total, 1,308 MEC, 784 munitions debris (MD), and numerous other debris removed
 - Implemented at a cost of \$5,800,000
- **Non-Time Critical Removal Action (2011)**
 - MEC removed from surface and subsurface of beaches and roads
 - In total, 97 MEC, 792 MD, and numerous other debris removed
 - Implemented at a cost of \$1,400,000

Remedial Investigation (2011)

- **Collected samples of soil, surface water, and sediment**
 - Data used to evaluate contamination in soil, surface water, and sediment, and the potential for groundwater contamination
- **Assessed potential human health and ecological risks**



Risk Assessment

- **Ecological Risk**
 - **No contaminants of concern**
- **Human Health Risk**
 - **No contaminants of concern**
- **Potential Explosive Hazards**
 - **Subsurface, which may become exposed on the surface due to erosion**
 - **Surface in inaccessible and unstable areas**

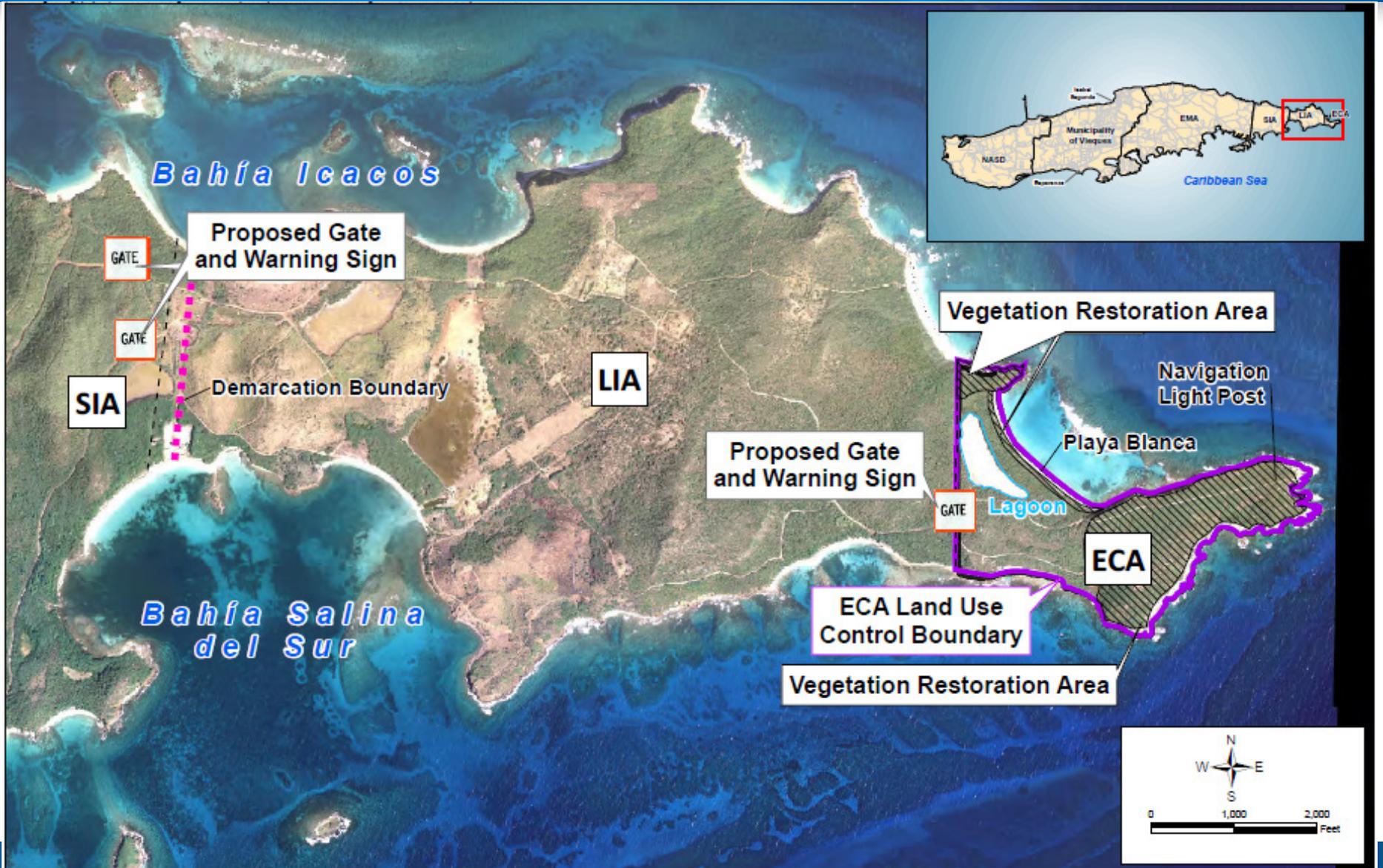
Feasibility Study

- **Basis**
 - **Although munitions have been removed across the vast majority of the site, there is the potential for munitions to be present**
- **Remedial Action Objectives**
 - **Limit access**
 - **Maintain USFWS land use**

Summary of Remedial Alternatives Evaluated

- **Alternative 1 – No action (basis of comparison)**
- **Alternative 2 – Focused Additional Munitions Removal and Land Use Controls (LUCs)**
 - **Allow for turtle nesting habitat monitoring and other USFWS management activities**
 - **Vegetation restoration at Playa Blanca and the upland dry forest**
 - **Signs to deter trespassing**
 - **Long-term monitoring**

Alternative 2



Summary of Remedial Alternatives Evaluated (cont.)

- **Alternative 3 – Subsurface Munitions Removal and LUCs**
 - **Complete vegetation clearance and lagoon dewatering**
 - **Subsurface munitions removal to a depth of 2 feet over the entire site except on steep slopes and cliffs**
 - **Vegetation restoration at Playa Blanca and upland dry forest**
 - **Signs to deter trespassing**
 - **Long-term monitoring**

Proposed Remedial Action

- **Alternative 2 - Focused Additional Munitions Removal and LUCs**
- **Navy, EPA, USFWS, DNER, and EQB support this alternative**

For More Information

- **Administrative Record File**
 - <http://www.navfac.navy.mil/vieques>
- **Navy Remedial Project Manager**
 - Kevin Cloe
- **Navy On-Island Site Manager**
 - Madeline Rivera
- **EPA Remedial Project Manager**
 - Julio Vazquez
- **EQB Remedial Project Manager**
 - Wilmarie Rivera
- **USFWS Refuge Complex Supervisor**
 - Susan Silander

What Next?

- **Public comment period ends on September 17, 2014**
- **Ask questions or provide comments at this meeting or by mail by September 17, 2014**
- **If you have questions or comments after the meeting:**
 - **Talk to representatives of the Navy, EPA, USFWS, and EQB**
 - **If you want your comments or questions to be part of the official record:**
 - **Let us know so we can ensure the court reporter records your comment**
 - **Write your comment or question on the comment sheet and hand it to one of the representatives or mail it to one of the representatives**

Acción de Remediación Propuesta UXO 1 Zona de Conservación del Este (ECA) Antiguo Campo De Entrenamiento Naval de Vieques Vieques, Puerto Rico

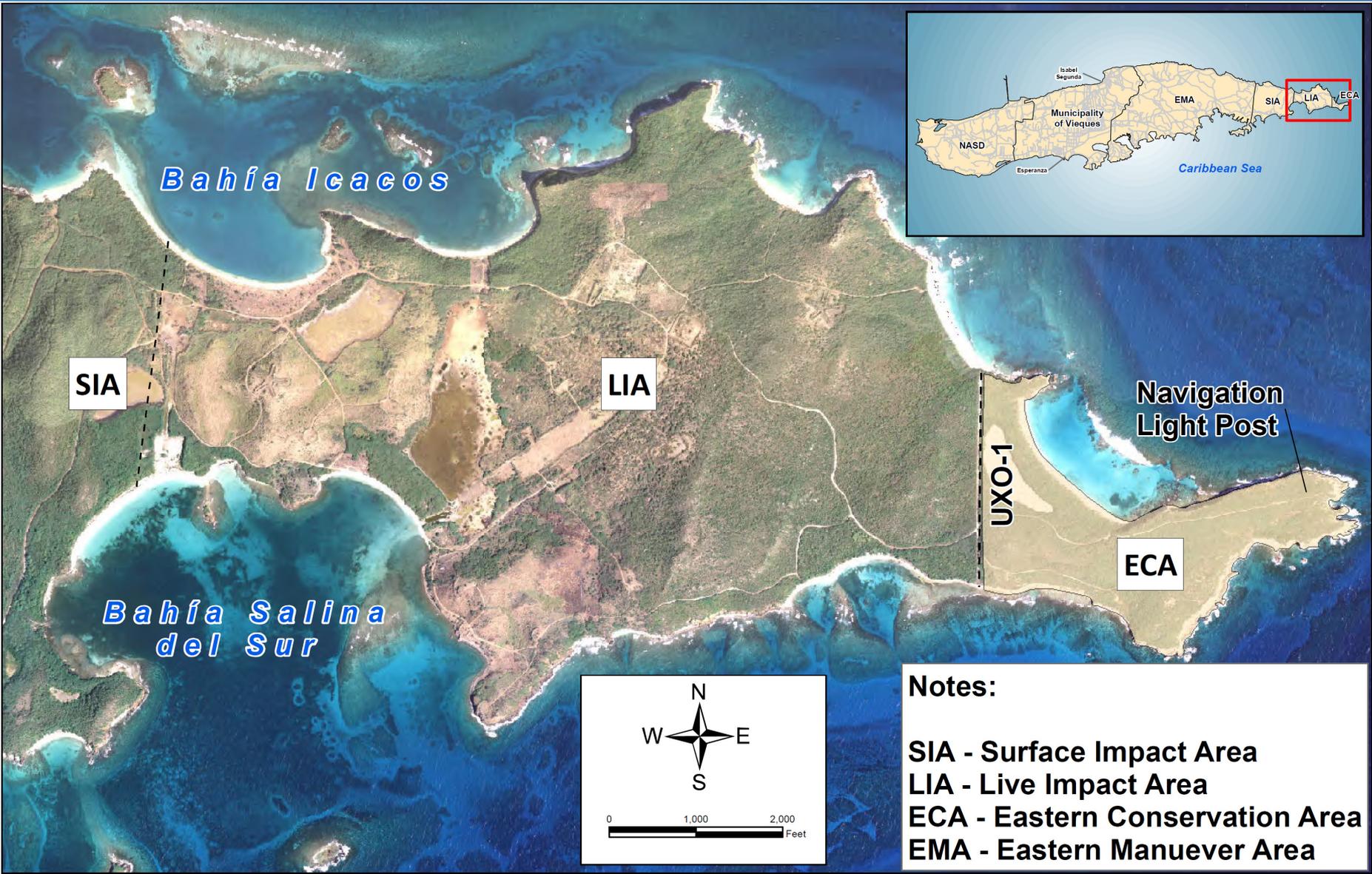
Área de Entrenamiento con Armas de la Flota Del Atlántico- Vieques
Reunión Pública
21 de agosto de 2014



Bosquejo de la Reunión

- **Información Histórica**
 - Localización
 - Usos pasados
 - Acciones de Remediación Interinas
 - Contaminantes y Riesgos
 - Estudio de Viabilidad
- **Acción de Remediación Propuesta**
- **Preguntas y Comentarios**

Localización del UXO 1 (ECA)



Historia

- **Área de Conservación del Este (ECA)**
 - Establecido como una área de conservación en 1983
 - No se usó como un área operacional de municiones
 - Localizado adyacente al Campo de Tiro con Bala Viva, donde ocurrieron actividades de artillería, bombardeos de aire a tierra, disparos navales, y quema y detonaciones a campo abierto
 - Se identificaron municiones y explosivos de preocupación



Investigación de Remediación (2011)

- **Acción de Remoción de Tiempo Crítico (2005-2009)**
 - Se removieron municiones de la superficie de las 125 cuerdas que componen el UXO 1
 - Se removieron en total 1,308 municiones, 784 escombros relaciones con municiones, y muchos más escombros
 - Se implementó a un costo de \$5,800,00

- **Acción de Remoción de Tiempo no Crítico (2011)**
 - Se removieron municiones de la superficie y debajo la superficie de las playas y caminos
 - Se removieron en total 97 municiones, 792 escombros relaciones con municiones, y muchos más escombros
 - Se implementó a un costo de \$1,400,000

Investigación de Remediación (2011)

- **Se tomaron muestras de suelo, agua superficial y sedimentos**
 - Los datos se usaron para evaluar la contaminación en el suelo, agua superficial y sedimentos; y el potencial de contaminación en el agua subterránea
- **Se evaluó el riesgo potencial a la salud humana y el riesgo ecológico**



Evaluación de Riesgos

- **Riesgo Ecológico**
 - No contaminantes de preocupación
- **Riesgo a la Salud Humana**
 - No contaminantes de preocupación
- **Potencial de Riesgo Explosivo**
 - Debajo de la superficie, los cuales podrían ser expuestos a la superficie debido a la erosión
 - La superficie de áreas inaccesibles y áreas inestables

Estudio de Viabilidad

- **Base**
 - Aunque municiones han sido removido de la vasta mayoría del área, todavía hay un potencial de que municiones estén presentes
- **Objetivos de la Acción de Remediación**
 - Limite el acceso
 - Mantener el uso de los terrenos por el Servicio de Pesca y Vida Silvestre

Resumen de las Alternativas de Remedación Evaluadas

- **Alternativa 1- No Acción (Sólo para comparar)**
- **Alternativa 2- Remoción Adicional de Municiones y Controles Para el Uso del Terreno (LUCs)**
 - **Permitir el monitoreo de las áreas donde anidan tortugas y otras actividades de manejo del Servicio de Pesca y Vida Silvestre**
 - **Restauración de la vegetación de Playa Blanca y el bosque seco en la parte alta**
 - **Letreros para disuadir el acceso no autorizado**
 - **Monitoreo a largo plazo**

Resumen de las Alternativas de Remediación Evaluadas (cont.)

- **Alternativa 3- Remoción de Municiones Debajo la Superficie y Controles de Uso de Terrenos**
 - Remoción de toda la vegetación y desaguar la laguna
 - Remoción de municiones debajo la superficie a una profundidad de 2 pies en toda el área, excepto en áreas muy elevadas y acantilados
 - Restauración de la vegetación de Playa Blanca y el bosque seco en la parte alta
 - Letreros para disuadir el acceso no autorizado
 - Monitoreo a largo plazo

Acción de Remediación Propuesta

- **Alternativa 2- Remoción Adicional de Municiones En Áreas Específicas y Controles Para el Uso del Terreno (LUCs)**
 - **La Marina, la EPA, el Servicio de Pesca y Vida Silvestre (FWS), el Departamento de Recursos Ambientales y Naturales y la Junta de Calidad de Puerto Rico apoyan esta alternativa**

Para Más Información

- **Record Administrativo**
 - <http://www.navfac.navy.mil/vieques>
- **Gerente de Remediación de la Marina**
 - **Kevin Cloe**
- **Gerente Local de la Marina**
 - **Madeline Rivera**
- **Gerente de Remediación de la EPA**
 - **Julio Vázquez**
- **Gerente de Remediación de La Junta De Calidad**
 - **Wilmarie Rivera**
- **Supervisora de los Refugios de Vida Silvestre de FWS**
 - **Susan Silander**

¿Qué Ocurre Luego?

- **El período de comentarios termina el 17 de septiembre de 2014**
 - **Haga preguntas o someta comentarios durante esta reunión o por correo no más tarde del 17 de septiembre de 2014**
 - **Si tiene preguntas o comentarios después de la reunión:**
 - **Hable con los representantes de la Marina, EPA, FWS y la Junta de Calidad**
 - **Si quiere que su comentario o pregunta sea parte del record oficial:**
 - **Déjenos saber para que el reportero de la corte grabe su comentario**
 - **Escriba su comentario o pregunta en la página de comentarios y entréguela a uno de los representantes o envíale por correo a uno de los representantes**