



**Fish Contamination Education Collaborative Partners Meeting**

1 PM to 4 PM

NOAA Restoration Center  
501 West Ocean Blvd, Suite 3400  
Long Beach, California

**Attendees:**

**Boat People SOS (BPSOS):**

Hang Nguyen

**City of Long Beach:**

Monica Cardenas

**California Department of Toxic Substance Control (DTSC):**

Tim Chauvel

**California Department of Fish and Wildlife (CDFW):**

Patty Velez

**Heal the Bay (HtB):**

Frankie Orrala

Dana Murray

Oscar Torres

**Chinese Herald Community Center (CHCC):**

Rebecca Soong

**Los Angeles County Department of Public Health (LACDPH):**

Cindy Chen

**LACDPH Toxics Epidemiology Program:**

Eugene Loi

Robert Vasquez

Evenor Masis

Barbara DeRidder

**National Oceanic and Atmospheric Administration (NOAA):**

Jennifer Boyce

Gabrielle Dorr

**Santa Monica Bay Restoration Commission (SMBRC):**

Guang-Yu Wang

**EA Engineering, Science, and Technology, Inc. PBC (EA) (EPA Contractor):**

Sarah Babcock

Laura Levine

Sam Foley (HDR, Inc. [HDR] – team subcontractor)

**U.S. Environmental Protection Agency (EPA):**

Judy Huang

**1. Welcome – Sarah Babcock, EA Engineering, Science, and Technology, Inc., PBC (EA)**

Sarah Babcock opened the meeting by thanking partners for their time and requested that everyone sign in. She mentioned that this is a semi-annual check-in and that the past six months of data will be summarized in the presentations.

Judy Huang of EPA introduced herself and indicated she is taking over for Phillip Ramsey who recently retired. Ms. Huang will manage both the technical and community outreach portions of the project. She thanked everyone for their participation on the Palos Verdes Shelf community involvement program. Ms. Babcock asked that everyone introduce

themselves and then reviewed the agenda and thanked NOAA for use of the facility for the meeting.

Ms. Babcock introduced the new members to the group, who were in attendance:

- Laura Levine of EA will take over for Ms. Babcock as the project manager.
- Sam Foley of HDR is a community involvement specialist taking over for Kim Pallari.

Ms. Babcock indicated that the contract period is ending and went through a summary of the program data since the last meeting in November 2015. The data summary included the total number of people contacted through the various outreach programs as follows:

Angler Outreach:

- Angler outreach contacted 5,350 people
- 3,000 were new (~56 percent)
- Over 5,000 tip cards were handed out.

Community Outreach:

- 17 events attended, over 6,600 tip cards handed out
- Vietnamese and Chinese audiences
- Hispanic and African American audiences (new goal)
- 40 bait shops were visited, 1,080 tip cards distributed.

Gabrielle Dorr asked how the surveys determine if there are new or repeat anglers being interviewed. Ms. Babcock answered that this question is posed as part of the survey (i.e., is the respondent new and/or aware of the contamination). Dana Murray mentioned there was a study performed on a grant a couple years ago that included questions on ocean users versus anglers at Malibu, Manhattan, Hermosa, and Santa Monica piers. If interested, Ms. Murray indicated that she can obtain a copy.

Ms. Babcock gave an update on the print materials. Angler outreach groups have used up the print materials during the outreach activities. Ms. Huang told the group that it was difficult to get the print materials completed through the Government Printing Office (GPO) in a timely manner. However, she will attempt to expedite the request by using a previous cost estimate. The main focus of printing would be tip cards in English, Spanish, Vietnamese, and Chinese. Angler groups indicated Tagalong and Korean tip cards were of interest as well. Ms. Huang also mentioned that printing of crayons and coloring pages may be difficult to obtain approval. Ms. Dorr brought the printed NOAA publications to the meeting in the various languages for the outreach groups to take and distribute to anglers.

Ms. Babcock provided a graphic showing the total number of anglers contacted between November 2015 and May 2016 (combining data from Cabrillo and HtB), by month. There was a steady increase from March 2016 to when the contact reached its peak in May 2016.

November 2015 was the second highest month of contact, while January and February were the lowest.

Ms. Babcock provided an update on the pier sign removal since the last meeting. Based on Cabrillo Marine Aquarium (Cabrillo) pier monitoring activities, three damaged signs were identified in January 2016 for replacement on the Cabrillo pier. EA coordinated the replacement with LACDPH which occurred in February 2016. Additionally, an action item from the November 2015 FCEC partners meeting was evaluation of Do Not Consume (DNC) fish sign overlap with Marine Protection Areas. Because the messaging is conflicting, it was determined that DNC signs in these overlap areas would be removed. EA created a map of the overlap areas and determined that four areas required DNC fish sign removal. These four areas included Abalone Cove, Point Vincent, Portuguese Bend, and Long Point. EA coordinated the removal with LACDPH. In May 2016, LACDPH removed two signs, one each in Portuguese Bend and Point Vincent. The remaining two signs were missing from Abalone Cove and Long Point.

**ACTION ITEM: EA will provide EPA the high resolution tip card files for the GPO.**

## **2. Angler Outreach Updates**

### **Heal the Bay Update**

Frankie Orrala discussed the mission of HtB in general and then the objectives of the pier outreach program. He listed the eight piers where HtB conducts the educational outreach, noting that they generally conduct outreach three times per week. Mr. Orrala listed the names of the people on their outreach team, noting that most of them are bilingual with the capacity to conduct the outreach in Spanish, Chinese, or Tagalong.

He mentioned the tip card, distributed during outreach activities, are currently available in four languages. From March 2015 to June 2016, HtB's outreach team has contacted 12,952 anglers; 59 percent of those are "new" participants (meaning they hadn't received outreach previously). Mr. Orrala then provided a bar graph depicting the new and repeat participants in total (all piers), by month, and then several graphs that indicated the number of participants per month by pier. The numbers showed similar trends with increased numbers of participants as the summer reached its peak in August 2015. Between March and October the most new anglers were observed, approximately 80 people per pier. Since the last FCEC meeting in November 2015, the numbers of participants steadily increase between December 2015 and June 2016. Based on the data presented, spring and summer are the busiest months with the highest number of new anglers. The busiest piers with the maximum amount of new anglers are Belmont, Redondo Beach, and Venice Beach.

Mr. Orrala noted that outreach activities were performed during the day but there is a group of anglers observed until midnight. Pier outreach at this time could be considered but there are safety concerns. Ms. Dorr commented that 59 percent of new anglers seems high and wonders where they come from. Mr. Orrala responded that he has been involved

in the program since 2004 and noticed that second generation anglers continues to grow each year. Ms. Foley asked if HtB asks where the anglers come from (e.g., coastal communities). Mr. Orrala responded that they now ask for a zip code. During the summer many of the anglers are out-of-state tourists but most are from Los Angeles County. Jennifer Boyce asked if the tourists are consuming DNC fish. Mr. Orrala said we do not know for sure but they could be friends of locals or tourists that do not know about the contamination. Additionally, certain types of fish are present during certain times of the year which attract people. Ms. Babcock mentioned that the seafood consumption study (May 2014) has data from interview questions about angler consumption. Ms. Murray said that as part of the Shark Ambassador Program, the study/interview data showed that consumption was mostly subsistence anglers. The Shark Ambassador Program aimed to educate pier anglers about local shark populations and sustainable fishing techniques. During the study/interview, HtB collected data about local shark populations and sustainable fishing techniques, number of anglers per pier, demographics of pier anglers, species targeted and caught, fishing gear used, and whether the angling was for sport or subsistence. The link to the report and blog are the following:

- <http://www.healthebay.org/sites/default/files/pdf/Shark%20Ambassador%20Program%20Final%20Report%2012-23-2014.pdf>
- <http://www.healthebay.org/blogs-news/angling-solution-shark-fishing-piers>

Mr. Orrala added that sport anglers with plastic buckets on the piers are consuming fish in large amounts on Belmont Pier. Therefore, these are the anglers to target. Oscar Torres said the actual number of anglers could be higher than the outreach because some minority groups do not want to be interviewed. During the heavy periods, subsistence anglers with buckets and plastic bags are targeted but during the rest of the year, all anglers are. Therefore, it is not certain if they are missing anyone. Ms. Murray said that the outreach is conducted during the busiest time (10 a.m. to 2 p.m.) but there is a community that comes late at night that there is no data for. Mr. Orrala mentioned that there were no observed changes, white croaker was not observed at the piers. White croaker were observed once at Venice and Rainbow Harbor. Ms. Huang said the water temperature is changing back to 'normal' conditions and the fish may return.

Mr. Torres presented a summary of the DNC fish sign condition for each pier. He initially reported that total number of 38 signs were present. However, LACDPH indicated that this number decreased to 32 signs due to signs that were damaged (e.g., graffiti) or removed one week prior. Mr. Torres noted that signs located on Pier J are too high (11 feet) making them hard to read. Signs that are located too low are easy to vandalize and remove. Therefore, placing these signs at a mid-level height is recommended. Eugene Loi addressed a question on whether vandalism is more recent or a regular occurrence. He said that LACDPH routinely replaces signs twice a year due to vandalism, especially at popular beaches. However, Mr. Orrala said that the observation of broken signs is new. Mr. Loi and Monica Cardenas have extra signs and will ask Pier J and Rainbow piers to relocate. Ms. Murray mentioned that there is an anti-graffiti material that can be used on the DNC fish signs.

**ACTION ITEMS:**

- ***HtB to work with EA to replace and/or relocate signs, as necessary.***
- ***EA to look into anti-graffiti material options for the DNC fish signs.***
- ***LACDPH and City of Long Beach to relocate signs on Pier J and Rainbow Pier.***

**Cabrillo Marine Aquarium Update**

Ms. Babcock presented the update for Alfonso Montiel of Cabrillo, who performs similar work to HtB, at Cabrillo pier. More anglers are observed at Cabrillo pier now that it is summer. More families are spending time on the pier now that school is out. The Pacific Mackerel, Halibut, perch, short Barracuda, barred sand bass, few white croaker, scorpion fish, and topsmelt have been observed and reported on the pier. The DNC fish signs are in good condition and will continue to be monitored monthly. Signs that are damaged and need replacement will be reported to EA.

**3. Community Outreach Update**

**LACDPH Toxics Epidemiology Program**

Mr. Loi provided an update on the DNC fish sign inventory at the piers (Santa Monica to San Pedro areas). He mentioned that prior to himself, Barbara DeRidder and Evenor Masis (both present at the meeting) were in charge of maintaining the DNC fish sign inventory. In 2015, there were a total of 59 signs, of which 16 needed cleaning and 25 were replaced. In 2016, there were 53 signs, of which 24 required cleaning and 9 new signs were needed. DNC fish signs located at Pier J and Rainbow Harbor are part of Orange County, so they will not be monitored by LACDPH.

New public health nurses are being educated on fish contamination. Twenty nurses were educated in March 2016. LACDPH also performs community outreach during fairs where they have booths on toxics and epidemiology of contaminated fish. On the LACDPH website, there is a link to the FCEC partner website that they keep updated. Additionally, Dr. Cyrus Rangan, medical toxicologist and program director, continues to lecture on fish contamination.

**Vietnamese Outreach by Boat People SOS**

Hang Nguyen summarized the community outreach activities performed since November 2015. Specifically, the following events were attended:

- Service Fair at Vietnamese American Cancer Foundation on February 26, 2016
  - 200 attendees
  - 150 tip cards distributed
- Mental Health Awareness event on May 25, 2016
  - 75 attendees

- 50 tip cards distributed
- Quarterly Networking Luncheon for Vietnamese-American Human Service Providers on June 15, 2016.
  - 40 attendees
  - 30 tip cards distributed

Ms. Nguyen noted that the message does not appear to be reaching the Vietnamese community. BPSOS outreach activities were focused on health fairs which provided free flu shots. BPSOS is continuing to work with other organization to get invited to the events. For instance, now BPSOS is working the American Human Service Providers to distribute tip cards. BPSOS will target more events in August 2016. Some anglers requested materials in Spanish but BPSOS did not have any. The Vietnamese community is paying more attention to the fish contamination due to recent industrial pollution in Vietnam where millions of contaminated fish washed ashore (<http://www.latimes.com/world/asia/la-fg-vietnam-fish-20160504-story.html>). As mentioned previously, more printing materials are needed.

#### **Chinese Community Outreach by Chinese Herald Community Center**

Rebecca Soong summarized the community outreach activities performed since November 2015. Specifically, the following events were attended:

- Alhambra Lunar Festival on February 13, 2016
  - 10,000 attendees
  - 550 Chinese, 100 English tip cards distributed
- HCC Walkathon and Carnival on April 9, 2016
  - 800 attendees
  - 250 Chinese, 69 English tip cards distributed
- Spring Awakening Program on May 22, 2016
  - 500 attendees
  - 105 Chinese, 300 English tip cards distributed
- Salute to Veterans & Families on May 28, 2016
  - 5,000 attendees
  - 150 Chinese, 230 English tip cards distributed

Some of the events like the HCC Walkathon and Spring Awakening Program events were geared towards hikers that were not aware of the contamination. The remaining fairs attracted adults and families that fish. The majority of the individuals who approached the booth were families with young children. They showed concern about fish safety and took one or more tip cards and pamphlets. The fishing game attracted the families with children to approach the booth, giving CHCC the opportunity to explain the problem to the whole family while kids play the game. As mentioned previously, more printing materials are needed.

**HDR, Inc., EA team subcontractor**

Community Events

Ms. Foley summarized the community outreach activities performed since November 2015. Specifically, the following events, targeting Spanish, English, and African-American groups, were attended:

- African-American Festival on February 27, 2016
  - 5,000 attendees
  - 250 English, 20 Spanish, and 5 Vietnamese tip cards distributed
- Noche de Estrellas on March 18, 2016
  - 1,000 attendees
  - 75 English, 25 Spanish tip cards distributed
- International Children's Day on April 9, 2016
  - 5,000 attendees
  - 300 English, 50 Spanish, and 5 Vietnamese tip cards distributed
- Earth Day Celebration on April 23, 2016
  - 8,000 attendees
  - 350 English, 20 Spanish, and 10 Chinese tip cards distributed
- Fiesta Broadway on April 24, 2016
  - 15,000 attendees
  - 350 Spanish, 100 English, and 5 Vietnamese tip cards distributed
- Urban Ocean Festival on April 30, 2016
  - 6,000 attendee
  - 250 English, 10 Spanish tip cards distributed
- City of Torrance Environmental Fair on June 4, 2016
  - 700 event attendees
  - Distributed 100 English, 20 Spanish, 5 Chinese and 5 Vietnamese tip cards
- Lummi Day Festival on June 5, 2016
  - 1,000 attendees
  - 150 English, 100 Spanish, and 15 Chinese tip cards distributed

Ms. Foley indicated that there are potential upcoming events for the targeted angler groups scheduled in August through October 2016. Ms. Foley also indicated that the fishing game is popular and attracts many children and families to the booth. As mentioned previously, more printing materials are needed.

The FCEC partners discussed upcoming outreach activities. Ms. Murray mentioned that Diver Day in the spring and the Long Beach Scuba show in June host thousands of people. In March 2017, the Fred Hall Show will be held which focuses on fisherman. Ms. Dorr suggested the youth fishing events that are coming up in August (Kid's Fishing Rodeo and Huck Finn Fishing Derby). She found these more beneficial than the Scuba show. Ms. Boyce

thinks smaller events are better because at larger events people throw the outreach materials away. NOAA will be at these events in August and can be partnered with.

Ms. Foley asked about the King Harbor Sea Fair on the Redondo Beach pier. Ms. Dorr said it wasn't well organized when NOAA attended but it could be good since it is focused on the pier. It is a mix of commercial vendors and staff from Seagate. The events at the Cabrillo pier get attendees that paid for the aquarium. For the Fred Hall event, you need to commit to the entire week. Another option is to give materials to a FCEC partner that is already going.

Mr. Torres inquired about outreach to schools. HDR responded that they prepared a draft education strategy to educate parents through children for the Los Angeles Unified School District. In the past she talked to schools about distributing materials at health fairs. Ms. Dorr said that they currently work on the youth fishing program education but it will not continue after this year. She can direct us to the people doing the work. She thinks SeaLab is good because they use the comic books for teaching and then take the kids to the pier and go fishing. There is already an audience, interest, and structure for this type of outreach.

Ms. Murray mentioned four big events are coming up between July and November 2016 that have a lot of traffic (thousands of people). Approximately 80 percent of the demographic is Asian based and it brings a lot of college kids from California and Nevada. For some of these events, like the Fred Hall Show, CDFW will have a booth and may be able to hand out the tip cards. Carrie Wilson, who coordinates the CDFW booth for this event, can be contacted for coordination (see contact information below).

Ms. Velez mentioned that she did not think Spanish communities are being outreached. She is hopeful that more will be done to reach this demographic. Ms. Huang said this is the concept with the school program educating the parents through the children. It is hard to break into the Hispanic community due to trust issues. Ms. Huang has tried to talk to fisherman but they would not talk to someone from the government. Ms. Huang asked if someone has an in, to help reach this group. Ms. Murray suggested Spanish media like Telemundo or La Opinion newspaper. Mr. Orrala says they have contacts. Ms. Foley said that even when her team converses with the Spanish community in Spanish, they still request English tip cards for children.

#### Bait Shop Outreach

Ms. Foley also summarized the outreach activities performed at 40 bait shops located in Huntington Beach, Seal Beach, Long Beach, San Pedro, Redondo Beach, Hermosa Beach, Manhattan Beach, Hawthorne, Marina Del Rey, Venice and Santa Monica. The 41 bait shops bulleted below include the 40 reached and one bait shop that has not been reached.



- **Bay Market:** 5 English; 5 Spanish tip cards
- **Del Rey Landing:** 5 English; 5 Spanish tip cards
- **Lincoln-Pico Sporting Goods:** 5 English; 5 Spanish tip cards
- **Nick's Liquor Store:** 5 English; 5 Spanish tip cards
- **Santa Monica Pier Bait and Tackle:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **West Marine (1):** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Best Bait and Tackle:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Manhattan Grocery:** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Redondo Beach Sport Fishing:** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Redondo Coffee Shop & Bait:** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Redondo Food Mart:** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Roberts Liquor:** 5 English; 5 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **West Marine (2):** 5 Spanish tip cards
- **22nd Street Landing Sport Fishing:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Beach City Market:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Gaffey Liquor:** 10 English; 10 Spanish tip cards
- **Hello Liquor:** 10 English; 5 Spanish tip cards
- **Kelly Marine:** 10 English tip cards
- **M&P Liquor:** 5 English; 20 Chinese; 20 Vietnamese tip cards
- **The Rusty Hook:** 5 English; 5 Spanish tip cards
- **Vista Liquor:** 5 English; 10 Spanish tip cards
- **West Marine (3):** 5 English; 10 Spanish tip cards
- **Stanley's Liquor Jr. Market:** 5 English; 10 Spanish tip cards
- **Pete's Market:** 5 English; 10 Spanish tip cards
- **Rosa's Liquor Market:** 5 English; 10 Spanish tip cards
- **7 Eleven (Pine Ave.):** 5 English; 10 Spanish tip cards
- **Magnolia Liquor Jr. Market:** 5 English; 10 Spanish tip cards
- **West Marine (4):** 5 English; 10 Spanish tip cards
- **Big Fish Bait & Tackle:** 5 English; 10 Spanish tip cards
- **Rosa's Liquor Market:** 5 English; 10 Spanish tip cards
- **Buoy's on the Pier:** Still attempting
- **7 Eleven (Ocean Blvd.):** 5 English; 10 Spanish tip cards
- **ARCO:** 5 English; 10 Spanish; 10 Chinese; 10 Vietnamese tip cards
- **ABC Fine Wine:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **Jimmy Caivo Bait & Tackle:** 5 English; 10 Spanish; 20 Vietnamese tip cards
- **Seal Beach Liquor Store:** 5 English; 10 Spanish; 10 Chinese; 10 Vietnamese tip cards
- **Charkbait:** 5 English; 5 Spanish tip cards
- **Fisherman's Hardware:** 5 English; 10 Spanish; 20 Vietnamese tip cards

- **Let's Go Fishing:** 5 English; 10 Spanish; 20 Chinese; 20 Vietnamese tip cards
- **MahiTackle-Sport Fishing Supplies:** 20 Vietnamese tip cards
- **Pacific Edge Bait & Tackle:** 5 English tip cards

Of the 40 bait shops targeted, one shop (Buoys on the Pier) was unreachable after multiple visits (6). HDR will attempt again. A replacement shop was found across the street. Both the 7 Eleven and Arco sell bait. Two bait shops in the San Pedro and Seal Beach areas asked if information was provided in Korean. An email address was provided to bait shops if they have any questions or wanted to request more materials. Several managers and employees asked if there was a phone number they could call to make the same request. One bait shop located in San Pedro on the docks near many of the tourist and private fishing boats expressed an issue with local angler outreach. Some boat captains felt the outreach deters customers from boarding their boats. This manager gladly accepted the materials for distribution at the bait shop because it would be the choice of the customer to review the information, rather than FCEC partners trying to engage his customers directly, which he felt caused unnecessary alarm.

**ACTION ITEMS:**

- ***Follow-up with Gabrielle on the two upcoming youth fishing events in August 2016.***
- ***Ms. Velez to provide EA/EPA with Carrie Wilson's contact information for the CDFW booth at the Fred Hall event.***
- ***EA to evaluate 4 events proposed by Ms. Murray to determine if they are worthwhile based on demographic and zip codes of attendees to ensure they would reach the target community.***
- ***EA to follow-up with partners on proposed events and evaluate refreshing the program to bring new audiences and ensure outreach to everyone needed.***
- ***Ms. Murray to provide EA/EPA names of Spanish non-profit groups to target the Spanish community. Ask Mr. Orrala for his contacts.***
- ***EA to work the HtB and HDR to coordinate bait shop outreach on the piers to determine any duplicative efforts. Then obtain EPA approval for proposed locations that would be swapped out and how many tip cards would be needed.***

#### **4. Enforcement Update**

##### **City of Long Beach**

Ms. Cardenas provided an update on the City's activities and mentioned that they are short-staffed. They conduct 15 retail inspections per quarter and outreach to restaurants and markets. However, this quarter they only performed 9 inspections due to staff transitioning. No white croaker was found in the inspections. As part of the inspections, the market or restaurant is asked where the fish is from and the invoice is checked. Retailers are required to purchase fish from licensed vendors. Ms. Cardenas conducted a lot of training and went to the Kids in the Kitchen event to teach children how to cook healthy. The fishing game was used and the children loved it. There were 100 English and

100 Spanish tip cards distributed. In October, she will attend the Aquarium of the Pacific event.

Ms. Huang mentioned that EPA is in the process of changing the enforcement program because the contract is ending with Gilbane. EPA will ask them to stop collecting fish and instead document the fish at the markets. If enough issues are found in the markets then the fish collection program may be reinstated.

#### **Los Angeles County Department of Public Health (Update)**

Cindy Chen spoke briefly about her group's enforcement activities, including restaurants and market inspections. She said LACDPH is also undergoing staff reduction. The enforcement activities were pushed back to July 2016 and will start up in August 2016. The delay is attributed to providing assistance to the San Bernadino County Environmental Health Department after the December 2015 shooting and other LA County projects. As part of the inspections, they check invoices. They found that many restaurant owners don't keep the invoices and mix the fish. In those cases they bring out the experts to identify the fish. White croaker is a tricky fish to identify but based on the fish identification training they were able to. They are also looking for puffer fish because it is toxic. White croaker fish should be easier to identify but they don't know until they do the surveys. They will make sure food trucks and smaller markets are compliant, etc. They are not so concerned with chain supermarkets. By the next FCEC Partners meeting she hopes to have more information.

#### **California Department of Fish and Game**

Ms. Babcock presented a graphic of CDFW's commercial and recreational inspection results. Cyndy Pourroy was not present at the meeting due to the expiration of EPA grant funding. Based on the commercial inspection data, white croaker and other DNC fish were not observed. White croakers were more commonly found among recreational fishermen in approximately 58 percent of the inspections. Other DNC fish were less frequently observed with the exception of topsmelt, which was observed in approximately 69 percent of the inspections. Recreational anglers are mostly aware of fish contamination issues; in both the commercial and recreational inspections, over 70 percent of anglers reported awareness.

### **5. Message Changes?**

The following items, previously discussed, were re-iterated as part of the messaging discussion.

- Bring in a partner to address the Spanish speaking demographic
- Obtain more materials for outreach
- Attend new community events.

## **6. Meeting Adjournment**

Ms. Babcock closed the meeting with thanks to all. Ms. Levine reminded angler groups to pick-up the printed NOAA publications in English, Chinese, and Spanish from Ms. Dorr on the way out.