

**From:** "Donahue, Patrick J" <PDonahu@entergy.com>  
**To:** "Timothy Rice" <tbrice@gw.dec.state.ny.us>, "John White" <JRW1@nrc.gov>, "Robert P. Snyder" <rps02@health.state.ny.us>, <edgar.moreno@areva.com>, <condrad@orau.gov>, <kitto@wadsworth.org>  
**Date:** 05/01/2007 8:36:35 AM  
**Subject:** IPEC Special Fish Collection

Gentlemen,

As you may recall from our previous conversations Entergy will be coordinating with NYSDEC, NYSDOH and the USNRC to collect fish at various regions along the Hudson River. It was agreed that Entergy would provide the draft protocol for comment to the various participants.

Attached is the draft protocol as written by Normandeau Associates who will collect and prepare the samples for later analysis by the individual labs. I would ask that you disseminate this draft document for comment to the appropriate personnel in your agencies who are associated with this effort

The collection itself is proposed for May 28 - June 20, 2007. In order to support that schedule please return all comments to me no later than May 11, 2007.

Your assistance in this matter is greatly appreciated.

<<2007 Spring REMP Rev 1 Apr3007.pdf>>

Sincerely,

Patrick Donahue  
Sr. HP/Chemistry Specialist  
Entergy Nuclear Northeast  
Indian Point Energy Center  
450 Broadway, Suite 3  
Buchanan, NY 10511

pdonahu@entergy.com  
(914) 736-8405 Voice  
(914) 734-6247 Fax

This e-mail and any attachments thereto are intended only for the use by the addressee(s) named herein and contain proprietary and confidential information. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, or copying of this e-mail, and any attachments thereto, is strictly prohibited. If you have received this e-mail in error, please immediately notify me by telephone and permanently delete the original and any copy of any e-mail and any printout thereof.

**CC:** "Adler, Joseph J." <jadler@entergy.com>, "Wilson, Daniel" <DWilson@entergy.com>

B-14

## **NORMANDEAU ASSOCIATES**

### **4.1 Indian Point Region**

Number of Samples Scheduled for Collection during the Spring Period: 28 May through 20 June 2007.

<u>DATE</u>	<u>SLEDS</u>	<u>TUCKER TRAWLS</u>	<u>BEACH SEINE</u>	<u>TOTAL</u>
28 May-1 Jun	8	14	0	22
4-8 Jun	8	18	0	26
11-15 Jun	8	18	3	29
18-20 Jun	<u>8</u>	<u>18</u>	<u>0</u>	<u>26</u>
<b>TOTAL</b>	<b>32</b>	<b>68</b>	<b>3</b>	<b>103</b>

### **4.2 Poughkeepsie**

Number of Samples Scheduled for Collection during the Spring Period: 28 May through 20 June 2007.

<u>DATE</u>	<u>SLEDS</u>	<u>TUCKER TRAWLS</u>	<u>BEACH SEINE</u>	<u>TOTAL</u>
28-1 Jun	12	18	0	30
4-8 Jun	7	15	0	22
11-15 Jun	7	15	8	30
18-20 Jun	<u>7</u>	<u>15</u>	<u>0</u>	<u>22</u>
<b>TOTAL</b>	<b>33</b>	<b>63</b>	<b>8</b>	<b>104</b>

### **4.3 Catskill**

Number of Samples Scheduled for Collection during the Spring Period: 28 May through 20 June 2007.

<u>DATE</u>	<u>SLEDS</u>	<u>TUCKER TRAWLS</u>	<u>BEACH SEINE</u>	<u>TOTAL</u>
28-1 Jun	3	3	0	6
4-8 Jun	3	3	0	6
11-15 Jun	3	3	19	25
18-20 Jun	<u>3</u>	<u>3</u>	<u>0</u>	<u>6</u>
<b>TOTAL</b>	<b>12</b>	<b>12</b>	<b>19</b>	<b>43</b>

### **5.0 Sampling Equipment**

The following equipment (or equivalent) as applicable is needed:

- Appropriate sampling gear (e.g., epibenthic sled, Tucker trawl, beach seine, beam trawl, gill nets and electro-fishing equipment )
- Copy of Standard Operating Procedure

## **NORMANDEAU ASSOCIATES**

- U.S. Coast Guard approved PFD.
- Plastic bags.
- Sample labels.
- Data sheets, notebook, Chain of Custody Forms.
- Pen (waterproof ink only) or pencil.
- Weighing scales or balance.
- Cooler and ice
- Filet knife.

### **6.0 Fish Collections**

6.1 Fish samples required for REMP collection in each region shall include striped bass, white perch, catfish (brown bullheads, white catfish or channel catfish), American eel, sunfish family (Centrarchidae), carp and blue crab when available.

6.2 For each region and target species during this Spring sampling event collect sufficient numbers of fish to obtain 1600 grams of edible tissue from each fish species or group. For the larger species (striped bass, catfish and carp) collect 3200 grams.

6.3 Collect needed specimens by the gear listed in Section 5.0 or any acceptable fisheries gear/techniques if required weight quotas are not being filled. Use of sampling gear other than the gear listed in Section 5.0 must have prior approval of the Program Manager.

6.4 Complete a field data sheet (Figure 1) for each sample collection with the following pertinent information: region, task, sample number, date, time, river mile, GPS location, gear, taxon and number of retained specimens for each sample that REMP specimens are retained from.

6.5 Place retained REMP fish (separate by species in appropriate labeled containers (e.g., cooler, plastic bags, etc.).

6.6 Label each container of fish with internal and external labels with the following information region, species, task, sample number, date and time.

6.7 Return fish to the laboratory.

6.8 Upon returning to the laboratory place the retained REMP fish samples in the refrigerator or freezer.

6.9 Leave a copy of each Field data sheet that REMP fish were retained from for the Laboratory Supervisor.



## **NORMANDEAU ASSOCIATES**

### **7.0 Laboratory Processing**

7.1 Remove REMP samples from the refrigerator/freezer for thawing if frozen and sort samples by region, sample number and species.

7.2 Prior to the fish processing and between each sample the glass cutting boards, knives, blender and hands must be rinsed with tap water and lab reagent water. Rinsing cutting boards between samples may be eliminated if they are covered with heavy duty aluminum foil. Use a new piece of foil for each sample. Knife blades are rinsed with 30% HNO<sub>3</sub> solution prior to the tap water and lab reagent rise water.

7.3 Fillet edible tissue from each species and weigh. Do not remove the scales from the skin and the skin must remain attached to the fish carcass. Process sufficient quantities of fish until the 1600 gram weigh quota (3200 grams for larger species) for each species is filled.

7.4 The remaining fish carcass for each species is then packaged and sent to the New York State Department of Environmental Conservation for storage.

7.5 Once sufficient skinless fillets of edible tissue from each species has been obtained to fill a 1600 or 3200 gram sample place the tissue into the fish blender. Operate the blender until the sample is homogenized.

7.6 Remove the homogenized composite sample from the blender and separate the 1600 gram sample into two samples of 300 grams and one sample of 1000 grams as required by the three laboratories. The 3200 gram sample will be packaged into two samples of 600 grams and one sample of 2000 grams. Package the 3 homogenized samples by region, sample number, date and species in double plastic bags and freeze.

7.7 Label each bag of fillets with the information listed below

- Region, task, sample number, date and time.
- Species and number of individual fish each sample contains

7.8 Repeat above procedures until all samples have been processed.

### **8.0 Sample Delivery**

8.1 When the spring sample collection period is completed contact the Entergy REMP representative to arrange for sample transfer with prior approval of the Program Manager.

8.2 All samples are transferred only after a Chain of Custody form has been completed. See Section 9.0.

8.3 Tom Burns at 914-734-5690 is the Entergy REMP contact.

## **NORMANDEAU ASSOCIATES**

### **9.0 CHAIN OF CUSTODY FOR INDIAN POINT SPRING REMP PROGRAM**

#### **9.1 Purpose of this Procedure**

This procedure describes Normandeau Associates, Inc. (Normandeau) instructions for completing chain of custody (COC) forms (Figure 2) and the delivery of REMP samples to the Entergy Nuclear Operations Inc (Entergy).

**9.1.1** One or more COC forms will accompany REMP samples collected by Normandeau and delivered to the Entergy.

**9.1.2** Each COC form consists of three-part carbonless paper with an original (white) cover page, a yellow middle page, and a pink bottom page. The original (white) cover page remains with the samples at all times.

**9.1.3** When the samples are passed from one individual to another, each party retains a copy of the COC form.

**9.1.4** See Figure 2 Example of completed COC form.

