UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NOAA Marine and Aviation Operations
Marine Operations Center
439 W. York Street
Norfolk, VA 23510-1114

MEMORANDUM FOR: Lieutenant Commander Jeffrey Shoup, NOAA
Commanding Officer, NOAA Ship *Nancy Foster*

FROM: Captain Anne K. Lynch, NOAA
Commanding Officer, NOAA Marine Operations Center-Atlantic

SUBJECT: Project Instruction for NF-15-09
Brunswick/Fernandina Beach ODMDS Trend Assessment Survey

Attached is the final Project Instruction for NF-15-09 Brunswick/Fernandina Beach ODMDS Trend Assessment Survey, which is scheduled aboard NOAA Ship *Nancy Foster* during the period of August 9 to August 16, 2015 with a contingency day of August 17, 2015. Of the 9 DAS scheduled for this project, 9 days are Program Funded by EPA HQ through an Interagency Agreement. This project is estimated to exhibit a Medium Operational Tempo. Acknowledge receipt of these instructions via e-mail to **OpsMgr.MOA@noaa.gov** at Marine Operations Center-Atlantic.

Attachment

cc:
Karen Mitchell

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

Science and Ecosystem Support Division
980 College Station Road
Athens, GA 30605-2720

Survey Plan

Date Submitted:	July 15, 2015
Platform:	NOAA Ship *Nancy Foster*
Project Number:	NF-15-09
Project Title:	Brunswick/Fernandina Beach ODMDS Trend Assessment Survey SESD Project 15-0320/15-0321
Project Dates:	August 9, 2015 to August 16, 2015

Prepared by: _____ Dated: 7/15/15
Mel Parsons
Chief Scientist
U.S. EPA Region 4, Science and Ecosystem Support Division

Approved by: _____ Dated: 7/15/15
Stacey Box
Chief, Ecology Section
U.S. EPA Region 4, Science and Ecosystem Support Division

Approved by: _____ Dated: 7/15/15
Chris McArthur
Project Manager
U.S. EPA Region 4, Water Protection Division

Approved by: _____ Dated: 7/15/15
Jennifer Derby
Chief, Marine Regulatory and Wetlands Enforcement Section
U.S. EPA Region 4, Water Protection Division

Approved by: _____ Dated: 8/6/15
Captain Anne K. Lynch, NOAA
Commanding Officer
Marine Operations Center - Atlantic

I. Overview

A. Brief Summary and Project Period

In 1989, EPA designated the Brunswick ODMDS as an approved dumping site (40 CFR 228.15(h)(7)). The Brunswick ODMDS encompasses an area of approximately 2.0 square nautical miles (NM) within a 1.0 by 2.0 NM rectangular site located about 6.6 NM east of the coastline and 2 NM south of the whistle buoy at mile 8 of the Brunswick Bar Channel. The Brunswick ODMDS has received an annual average of approximately 1 million cubic yards (cy) of dredge material from the Brunswick Harbor Navigation Project (1976-2012). The ODMDS was not used in 2009, 2010 and 2011. It was most recently used in early 2015. Project sediments typically range from 2 to 72 percent fine-grained material depending on their location along the length of the channel.

The Brunswick ODMDS area has been used for the ocean disposal of dredged material since 1967. Material disposed prior to 1989 was disposed at an interim site located at the same location. The interim site designation was canceled by the designation of the current ODMDS. Approximately 40 million cubic yards have been disposed in the final and interim sites.

Brunswick ODMDS Boundary Corners: NW - 31° 2.58'/ -081° 17.67'
NE - 31° 2.58'/ -081° 16.50'
SE - 31° 0.50'/ -081° 16.50'
SW - 31° 0.50'/ -081° 17.70'

The designation of the Fernandina Beach ODMDS can be found in 40 CFR 228.15(h)(8). It was designated by EPA through promulgation of a final rule on February 23, 1987, effective March 25, 1987. The Fernandina Beach ODMDS is an approximately 2 nautical mile (nmi) by 2 nmi square area centered at the coordinates 30°32.00'N latitude and 81°18.00'W longitude (NAD 27). The site is 7.1 nmi (13.2 km) offshore (as measured to the center) and 11.8 nmi (21.9 km) from the entrance to the St. Marys River. It has an area of approximately 4 nmi^2 (13.7km^2). As of 2009, it had a depth range of 37 to 69 feet (11.4 to 21.2) meters, with an average depth of 53 feet (16.2 meters). There is a small mound in the center of the site with the deepest portions of the site to the southeast consisting of a north/south oriented depression. The benthos consists mostly of sands with some areas of gravel and low relief rock.

The Fernandina Beach ODMDS has been used for the ocean disposal of dredged material since 1987. Material disposed prior to 1987 was disposed at an interim site located north of the Fernandina Beach ODMDS, near the St. Mary's Entrance Channel. The interim site designation was canceled by the designation of the current ODMDS on March 25, 1987. Material from the Kings Bay Entrance Channel is a combination of a civil works project and U.S. Navy permitted work. Fernandina Harbor is a civil works project. A total of approximately 20 million cubic yards of dredged material has been disposed at the Fernandina Beach ODMDS. Most of the material is maintenance material from the Kings Bay Entrance Channel which averages 626,000 cubic yards of silty dredged material per year. Over 1.2 million cubic yards of dredged material was disposed in the southern portion of the ODMDS between 2011 and 2012 from deepening of Naval Station Mayport. Material was a combination of silts, clay, sand, and shell.

Fernandina Beach ODMDS Boundary Corners: NW- 30° 33.00'/ -081° 19.13'

NE - 30° 33.00’/ -081° 16.87’
SE - 30° 31.00’/ -081° 16.87’
SW- 30° 31.00’/ -081° 19.13’

B. Service Level Agreements

Of the 9 DAS scheduled for this project, 0 DAS are funded by an OMAO allocation, 0 DAS are funded by a Line Office Allocation, 9 DAS are Program Funded by EPA HQ through an Interagency Agreement. This project is estimated to exhibit a Medium Operational Tempo.

C. Operating Area (Tables 3, 4 and Figures 1, 2)

D. Summary of Objectives

There are two primary objectives to this survey: 1) Conduct routine trend assessments at the Brunswick and Fernandina Beach ODMDS consistent with the requirement of each ODMDS’s Site Management and Monitoring Plan (SMMP) and 40CFR228.13 by collecting and analyzing water, sediment and biota from each ODMDS; 2) Test Multi-beam/Split-beam technology for conducting fish biomass surveys in conjunction with ODMDS habitat assessment.

E. Participating Institutions

US-EPA R4, R4 Public Health Service

Crew of NOAA Vessel Nancy Foster

F. Personnel/Science Party: name, title, gender, affiliation, and nationality

Table 1: Science Personnel

Name (Last, First)	**Title**	**Date Aboard**	**Date Disembark**	**Gender**	**Affiliation**	**Nationality**
Blackburn, Steve	Life Scientist	8/9/15	8/17/15	M	EPA	USA
Derby, Jennifer	Supervisory Life Scientist	8/9/15	8/17/15	F	EPA	USA
Frungillo, Jaime	Life Scientist	8/9/15	8/17/15	F	EPA	USA
Hall, Rosemary	Ecologist	8/9/15	8/17/15	F	EPA	USA
Houda, Tara	Life Scientist	8/9/15	8/17/15	F	Public Health Service	USA
Kendall, Drew	Life Scientist	8/9/15	8/17/15	M	EPA	USA
McArthur, Chris	ODMDS Site Manager	8/9/15	8/17/15	M	EPA	USA
McMahan, Jon	Life Scientist	8/9/15	8/17/15	M	EPA	USA
Melgaard, Dave	Life Scientist	8/9/15	8/17/15	M	EPA	USA
Parsons, Mel	Chief Scientist	8/9/15	8/17/15	M	EPA	USA
Ruiz, John	Life Scientist	8/9/15	8/17/15	M	EPA	USA
White, Greg	Life Scientist	8/9/15	8/17/15	M	EPA	USA

G. Administrative

1. Points of Contacts:

Survey Chief Scientist: Mel Parsons

Organization: U.S. EPA Region 4, Science and Ecosystem Support Division

Organization Address: 980 College Station Rd., Athens, GA 30605

Organization Telephone No.: (706) 355-8714; personal cell (706) 202-5092

FAX No.: (706) 562-8726

Email: parsons.mel@epa.gov

ODMDS Site Manager: Christopher J. McArthur

Organization: U.S. EPA Region 4, Water Protection Division

Organization Address: 61 Forsyth, S.W., Atlanta, GA 30306

Organization Telephone No.: (404) 562-9391; personal cell (404) 909-0347

FAX No.: (404) 562-9343

Email: mcarthur.Christopher@epa.gov

NOAA Ship Nancy Foster

LT Lyndsey Davis, Operations Officer

Ship's Cell: 843-991-6326
Iridium: 808-434-5653
Email: ops.nancy.foster@noaa.gov

2. Diplomatic Clearances: N/A

3. Licenses and Permits: N/A

II. Operations

The Chief Scientist is responsible for ensuring the scientific staff are trained in planned operations and are knowledgeable of project objectives and priorities. The Commanding Officer is responsible for ensuring all operations conform to the ship's accepted practices and procedures.

A. Project Itinerary

Table 2: Project Schedule

Date/Time	**Activity**
8/09/15: 1400	Survey Team arrives at NOAA Ship Nancy Foster in Charleston, SC
8/09/15: 1400 - 1700	Load Equipment/Depart/Welcome aboard/orientation/drills
8/09-10/15: 1700 - 0900 (150 nm-16hrs@9.5 kts)	Depart Charleston: (Earlier if possible), Transit to Brunswick, GA ODMDS
8/10/15: 0900 - 2100	Sediment Sampling at Brunswick ODMDS
8/10/15: 2100 - 1159	Transit to Fernandina Beach ODMDS
8/11/15: 0800 - 1800	Sediment Sampling/Dive Ops at Fernandina Beach ODMDS
8/12/15: 0800 - 1800	Sediment Sampling/Dive Ops at Fernandina Beach ODMDS/Multi/Split-beam if time allows
8/13/15: 0800 - 1800	Multi/Split-beam/Dive Ops Operations at Fernandina Beach ODMDS
8/14/15: 0800 - 2100	Multi/Split-beam/Dive Ops Operations at Fernandina Beach ODMDS/WQ/Transit to Brunswick ODMDS
8/15/15: 0800 - 1000	WQ at Brunswick ODMDS
8/15/15: 1000 – 8/16/15 - 0830	Transit to Charleston – Entering Channel at 0600
8/16/15: 1000 - 1600	Demobilize/Drive Home
8/17/15: 0800 - 1159	Contingency Day

B. Staging and Destaging

Staging will occur at Charleston, SC. The survey team will arrive on 8/09/15 at approximately 1300-1400. Equipment will be loaded upon arrival and transit to the Brunswick ODMDS immediately after loading. The survey will demobilize the morning of 8/16/15 in Charleston.

C. Operations to be Conducted

<u>Sediment and Benthic Sampling at the Brunswick and Fernandina ODMDS</u>

Twelve locations will be sampled for sediment chemistry and benthic macroinvertebrates at both the Brunswick and Fernandina ODMDS. There will be six locations within each ODMDS and six outside (Tables 2, 3 and Figures 1, 2). Each sediment station will take approximately .75-1 hr. to complete. Sediment sampling will be conducted with a 0.04

double Young grabs. In addition, 3 stations at the Fernandina ODMDS will be sampled by divers for comparison purposes with the grab samples. All sediment grabs will be supplied by R4 EPA.

Due to the relatively shallow depths, the sampling in conjunction with dive operations and the time allotted for the survey, 24 hour operations are not anticipated for this survey. Some operations may extend until midnight, but would go no later.

Table 3: Brunswick ODMDS Sediment Stations				
Station	Latitude		Longitude	
BR01	31	2.477	81	15.928
BR02	31	0.923	81	15.928
BR03	31	0.000	81	16.309
BR04	31	0.000	81	17.592
BR05	31	0.850	81	18.001
BR06	31	1.676	81	18.494
BR07	31	2.283	81	17.380
BR08	31	2.295	81	16.661
BR09	31	1.579	81	17.310
BR10	31	1.567	81	16.675
BR11	31	0.923	81	17.324
BR12	31	0.923	81	16.703

Table 4: Fernandina Beach ODMDS Sediment Stations				
Station	Latitude		Longitude	
F01	30	34.000	81	18.000
F02	30	33.290	81	18.890
F03	30	33.280	81	16.580
F04	30	32.750	81	18.850
F05	30	32.750	81	17.150
F06	30	32.590	81	18.030
F07	30	32.000	81	19.700
F08	30	31.400	81	18.600
F09	30	32.000	81	18.000
F10	30	31.360	81	17.780
F11	30	30.260	81	16.600
F12	30	30.000	81	18.000

Water Sampling at the Brunswick and Fernandina Beach ODMDS

Water samples will be collected at three stations from both the Fernandina and Brunswick ODMDS on the last or next to last day of the survey (August 14/15, 2015) in order to meet sample holding times requirements prior to analysis. A top and bottom sample will be collected utilizing the Foster's CTD/Rosette at stations F01, F09, F12 and BR01, BR04 and BR09. Approximately 3 liters of water will be needed for samples at each depth (Top/ Bottom). An additional 3 liters will be needed at one depth from two locations

Multibeam/Splitbeam Analysis for Fish Biomass at the Fernandina ODMDS

Once sediment and biota are collected, testing and training will be conducted to determine the feasibility of utilizing the multibeam/splitbeam technology aboard the NOAA Vessel Nancy Foster for calculating fish biomass in areas of dredged material disposal at the Fernandina ODMDS. Habitat was unintentionally created in the northwestern section of the ODMDS and was evaluated during a survey aboard the Nancy Foster in September 2013. Diving will be conducted on multibeam/splitbeam transects in order to groundtruth and compare diver collected data. This effort will assist in developing a larger survey scheduled for next year to include the Wilmington, Charleston and Savannah ODMDS. These surveys will assist in efforts to utilize dredged material for the intentional creation of fish habitat as a beneficial use.

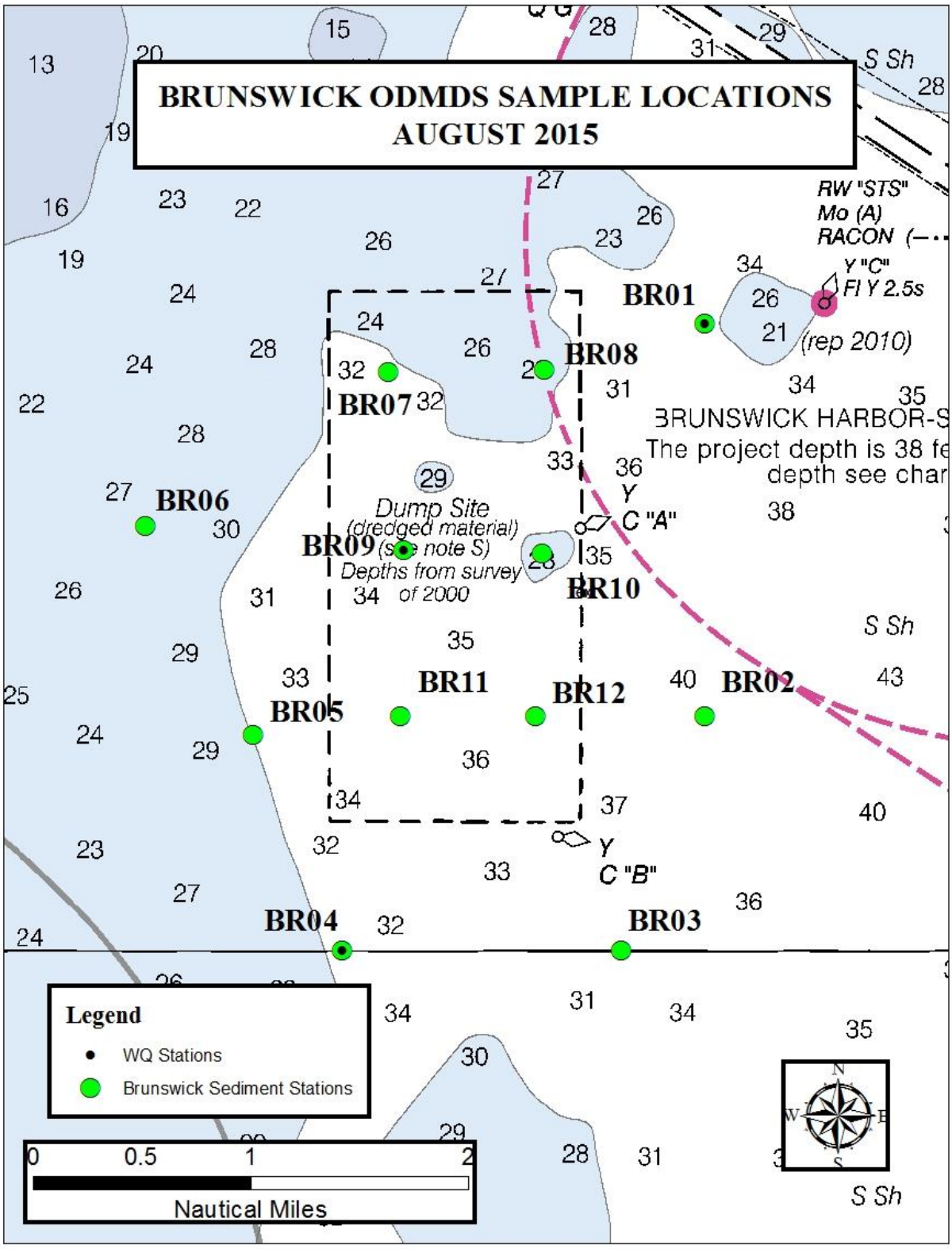


Figure 1: Brunswick ODMDS Sampling Stations

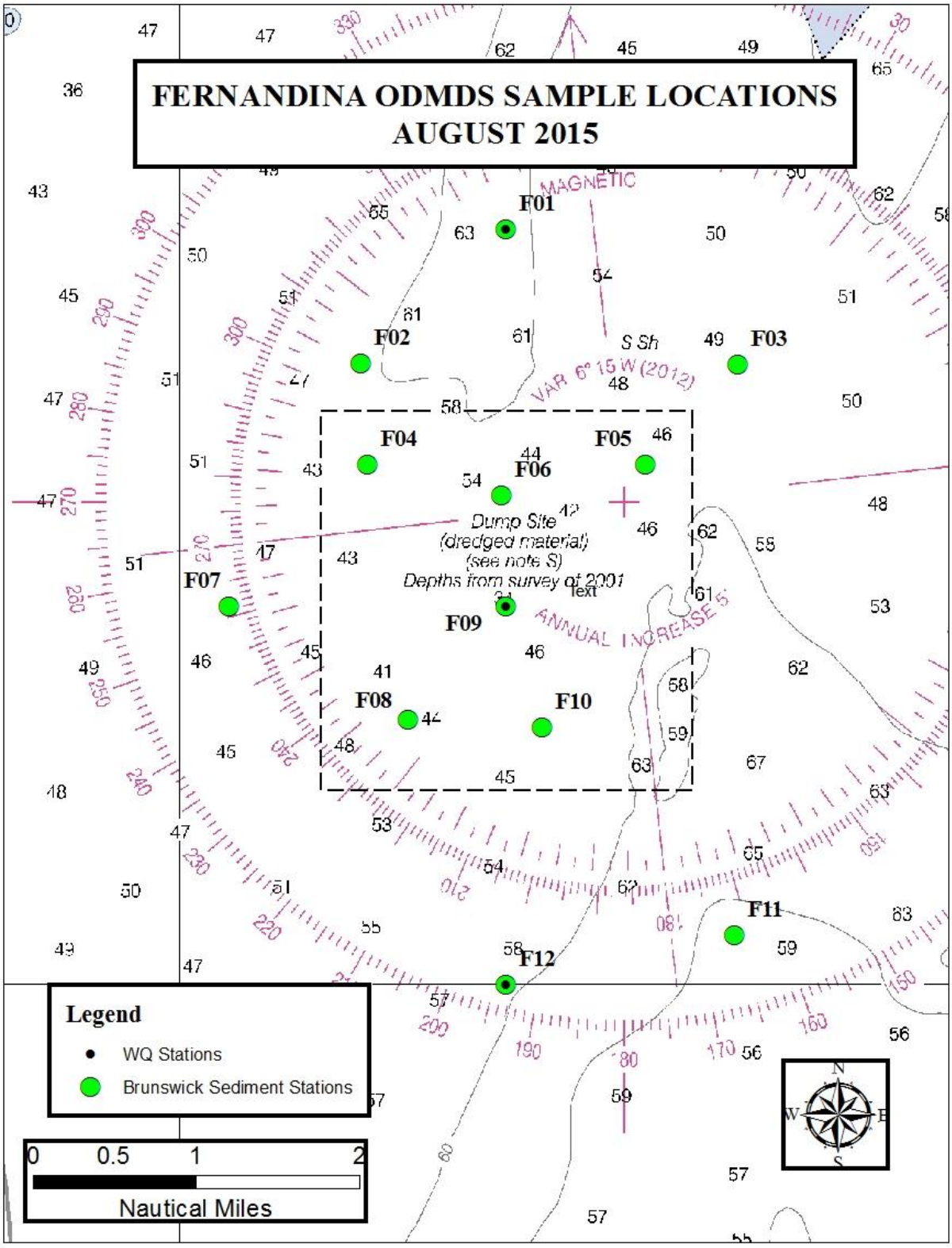


Figure 2: Fernandina ODMDS Sampling Stations

D. Dive Plan

All dives are to be conducted in accordance with the requirements and regulations of the EPA Diving Program pursuant to the February 3, 2015 Diving Reciprocity Agreement with the NOAA Diving Program (http://www.ndc.noaa.gov/dr.html) and require the approval of the ship's Commanding Officer.

The Dive Plan encompassing all legs of the survey is presented in Appendix A.

E. Applicable Restrictions

Conditions which preclude normal operations:

- Diving operations require good sea and weather conditions and good bottom visibility. Dive operations will only be undertaken when the CO, the Chief Scientist and the Dive Master all agree that conditions are safe. Dive operations should not be undertaken during a small craft advisory issued by the National Weather Service.
-

III. Equipment

A. Equipment and Capabilities provided by the ship (itemized)

Equipment	**Activity**
Main Deck Crane	Loading/Unloading Equipment/Dive Boats
A-Frame or J-Frame	Sediment Grabs/CTD
Winch	Sediment Grabs/CTD
Shallow water multi-beam echo sounder: Reson 7125 System (400 kHz and 200 kHz, 250m max)	Fish mapping at the Fernandina Beach ODMD
Seabird CTD/Rosette	Water Sampling/Profiling ODMD Sites
Refrigerator Space	50 Sediment Samples/90 Water Samples
Nitrox Dive Compressor (36%)	Dive Operation,
Dive Boat – 8 divers in two teams NF3 or NF4- Dive Boat	Dive Operations
Dive Tanks	Dive Operations
Diver Recall	Dive Operations
Dynamic Position	May be required dependent on sea conditions.
GPS feed in the wetlab	Position logging

B. Equipment and Capabilities provided by the scientists (itemized)

Equipment	**Activity**
GPS and antennae	Sampling Locations
HYPACK data acquisition and navigation software	Sampling Location Logging
Sediment Grabs	Sediment Sampling ODMD Sites
Sample Containers	Sediment and Water Sampling
Dive Tanks (12 steel 100s - DIN;	Dive Operations, Fernandina ODMDS
Dive Equipment, including O_2	Dive Operations, Fernandina ODMDS
Dive Buoys (2)	Mark station locations and provide down lines

IV. Hazardous Materials

A. Policy and Compliance

The Chief Scientist is responsible for complying with FEC 07 Hazardous Materials and Hazardous Waste Management Requirements for Visiting Scientific Parties (or the OMAO procedure that supersedes it). By Federal regulations and NOAA Marine and Aviation Operations policy, the ship may not sail without a complete inventory of all hazardous materials by name and the anticipated quantity brought aboard, MSDS and appropriate neutralizing agents, buffers, or absorbents in amounts adequate to address spills of a size equal to the amount of chemical brought aboard, and a chemical hygiene plan. Documentation regarding those requirements will be provided by the Chief of Operations, Marine Operations Center, upon request.

Per FEC 07, the scientific party will include with their project instructions and provide to the CO of the respective ship 60 to 90 days before departure:

- A list of hazardous materials by name and anticipated quantity
- Include a chemical spill plan the addresses all of the chemicals the program is bringing aboard. This shall include:
  - Procedures on how the spilled chemicals will be contained and cleaned up.
  - A complete inventory (including volumes/amounts) of the chemical spill supplies and equipment brought aboard by the program. This must be sufficient to clean and neutralize all of the chemicals brought aboard by the program.
  - A list of the trained personnel that will be accompanying the project and the training they've completed.

Upon embarkation and prior to loading hazardous materials aboard the vessel, the scientific party will provide to the CO or their designee:

- An inventory list showing actual amount of hazardous material brought aboard
- An MSDS for each material
- Confirmation that neutralizing agents and spill equipment were brought aboard sufficient to contain and cleanup all of the hazardous material brought aboard by the program.
- Confirmation that chemical safety and spill response procedures were brought aboard

Upon departure from the ship, scientific parties will provide the CO or their designee an inventory of hazardous material indicating all materials have been used or removed from the vessel. The CO's designee will maintain a log to track scientific party hazardous materials. MSDS will be made available to the ship's complement, in compliance with Hazard Communication Laws.

Scientific parties are expected to manage and respond to spills of scientific hazardous materials. Overboard discharge of scientific chemicals is not permitted during projects aboard NOAA ships.

B. Inventory

Chemical	Quantity	Use
NOTOXHisto	**2 x 5 gallons**	**Macroinvertebrate tissue preservative**
Nitric acid – 20%	**24 x 5 ml**	**Water sample metals preservative**

C. Chemical safety and spill response procedures

20% nitric acid used for preservative during the survey is dispensed in individual 5ml vials, therefore, it is anticipated that any spill that might occur would be small. Preservation will occur in the wet lab with absorbent mats beneath samples in case there are spills. Should an acid spill occur, the absorbent mat would be stored in a disposal bucket and taken back to the EPA laboratory for disposal. The area beneath the mat would be rinsed and cleaned with fresh water.

NOTOXHisto is a non-toxic tissue preservative. It is stored in cardboard reinforced plastic cube-containers. The preservative will be transferred to buckets containing sample for preservation outside on the quarterdeck area. Absorbent mats will be used under and around containers during transfer. Should a NOTOXHisto spill occur, absorbent mats would be used to thoroughly clean and dry the area surrounding the spill. Absorbent mats would then be stored in a disposal bucket and taken back to the EPA laboratory for disposal.

Material Safety Data Sheets (MSDS) are attached in Appendix B at the end of this document.

D. Radioactive Isotopes :No Radio Isotopes are planned for this project.

V. Additional Projects

A. Supplementary ("Piggyback") Projects: No supplementary projects are planned for this project.

B. NOAA Fleet Ancillary Projects: There are no ancillary projects planned for this project.

VI. Disposition of Data and Reports

A. Data Responsibilities

All samples and data collected are the responsibility of the Chief Scientist. An operational survey report will be developed and provided to EPA HQ within 21 days of survey completion. A Site Monitoring and Assessment Report for each ODMDS will be written and provided to EPA HQ by 6/1/14. Multibeam/Splitbeam bathymetry data will be collected and archived by NOAA personnel in accordance with NOAA policies. Copies of the data will be provided to EPA at the conclusion of the survey.

Disposition of data gathered aboard NOAA ships will conform to NAO 216-101 *Ocean Data Acquisitions* and NAO 212-15 *Management of Environmental Data and Information.* To guide the implementation of these NAOs, NOAA's Environmental Data Management Committee (EDMC) provides the *NOAA Data Documentation Procedural Directive* (data documentation) and *NOAA Data Management Planning Procedural Directive* (preparation of Data Management Plans). OMAO is developing procedures and allocating resources to manage OMAO data and Programs are encouraged to do the same for their Project data.

A. Data Classifications: *Under Development*

a. OMAO Data

b. Program Data

B. Responsibilities: *Under Development*

VII. Meeting, Vessel Familiarization, and Project Evaluations

A. Pre-Project Meeting: The Chief Scientist and Commanding Officer will conduct a meeting of pertinent members of the scientific party and ship's crew to discuss required equipment, planned operations, concerns, and establish mitigation strategies for all concerns. This meeting shall be conducted before the beginning of the project with sufficient time to allow for preparation of the ship and project personnel. The ship's Operations Officer usually is delegated to assist the Chief Scientist in arranging this meeting.

B. Vessel Familiarization Meeting: The Commanding Officer is responsible for ensuring scientific personnel are familiarized with applicable sections of the standing orders and vessel protocols, e.g., meals, watches, etiquette, drills, etc. A vessel familiarization meeting shall be conducted in the first 24 hours of the project's start and is normally presented by the ship's Operations Officer.

C. Post-Project Meeting: The Commanding Officer is responsible for conducted a meeting no earlier than 24 hrs before or 7 days after the completion of a project to discuss the overall success and short comings of the project. Concerns regarding safety, efficiency, and suggestions for future improvements shall be discussed and mitigations for future projects will be documented for future use. This meeting shall be attended by the ship's officers, applicable crew, the Chief Scientist, and members of the scientific party and is normally arranged by the Operations Officer and Chief Scientist.

D. Project Evaluation Report

Within seven days of the completion of the project, a Customer Satisfaction Survey is to be completed by the Chief Scientist. The form is available at http://www.omao.noaa.gov/fleeteval.html and provides a "Submit" button at the end of the form. Submitted form data is deposited into a spreadsheet used by OMAO management to analyze the information. Though the complete form is not shared with the ships, specific concerns and praises are followed up on while not divulging the identity of the evaluator.

VIII. Miscellaneous

A. Meals and Berthing

The ship will provide meals for the scientists listed above. Meals will be served 3 times daily beginning one hour before scheduled departure, extending throughout the project, and ending two hours after the termination of the project. Since the watch schedule is split between day and night, the night watch may often miss daytime meals and will require adequate food and beverages (for example a variety of sandwich items, cheeses, fruit, milk, juices) during what are not typically meal hours. Special dietary requirements for scientific participants will be made available to the ship's command at least seven days prior to the survey. One scientist will require vegetarian meals and one will require gluten free.

Berthing requirements, including number and gender of the scientific party, will be provided to the ship by the Chief Scientist. The Chief Scientist and Commanding Officer will work together on a detailed berthing plan to accommodate the gender mix of the scientific party taking into consideration the current make-up of the ship's complement. The Chief Scientist is responsible for ensuring the scientific berthing spaces are left in the condition in which they were received; for stripping bedding and linen return; and for the return of any room keys which were issued. The Chief Scientist is also responsible for the cleanliness of the laboratory spaces and the storage areas utilized by the scientific party, both during the project and at its conclusion prior to departing the ship.

All NOAA scientists will have proper travel orders when assigned to any NOAA ship. The Chief Scientist will ensure that all non NOAA or non-Federal scientists aboard also have proper orders. It is the responsibility of the Chief Scientist to ensure that the entire scientific party has a mechanism in place to provide lodging and food and to be reimbursed for these costs in the event

that the ship becomes uninhabitable and/or the galley is closed during any part of the scheduled project.

All persons boarding NOAA vessels give implied consent to comply with all safety and security policies and regulations which are administered by the Commanding Officer. All spaces and equipment on the vessel are subject to inspection or search at any time. All personnel must comply with OMAO's Drug and Alcohol Policy dated May 7, 1999 which forbids the possession and/or use of illegal drugs and alcohol aboard NOAA Vessels.

B. Medical Forms and Emergency Contacts

The NOAA Health Services Questionnaire (NHSQ, NF 57-10-01 (3-14)) must be completed in advance by each participating scientist. The NHSQ can be obtained from the Chief Scientist or the NOAA website http://www.corporateservices.noaa.gov/noaaforms/eforms/nf57-10-01.pdf.

All NHSQs submitted after March 1, 2014 must be accompanied by NOAA Form (NF) 57-10-02 - Tuberculosis Screening Document in compliance with OMAO Policy 1008 (Tuberculosis Protection Program).

The completed forms should be sent to the Regional Director of Health Services at the applicable Marine Operations Center. The NHSQ and Tuberculosis Screening Document should reach the Health Services Office no later than 4 weeks prior to the start of the project to allow time for the participant to obtain and submit additional information should health services require it, before clearance to sail can be granted. Please contact MOC Health Services with any questions regarding eligibility or completion of either form. Ensure to fully complete each form and indicate the ship or ships the participant will be sailing on. The participant will receive an email notice when medically cleared to sail if a legible email address is provided on the NHSQ.

The participant can mail, fax, or email the forms to the contact information below. Participants should take precautions to protect their Personally Identifiable Information (PII) and medical information and ensure all correspondence adheres to DOC guidance (http://ocio.os.doc.gov/ITPolicyandPrograms/IT_Privacy/PROD01_008240).

The only secure email process approved by NOAA is Accellion Secure File Transfer which requires the sender to setup an account. Accellion's Web Users Guide is a valuable aid in using this service, however to reduce cost the DOC contract doesn't provide for automatically issuing full functioning accounts. To receive access to a "Send Tab", after your Accellion account has been established send an email from the associated email account to accellionAlerts@doc.gov requesting access to the "Send Tab" function. They will notify you via email usually within 1 business day of your approval. The 'Send Tab" function will be accessible for 30 days.

Contact information:

Regional Director of Health Services
Marine Operations Center – Atlantic
439 W. York Street
Norfolk, VA 23510
Telephone 757-441-6320

Fax 757-441-3760
E-mail MOA.Health.Services@noaa.gov

Prior to departure, the Chief Scientist must provide an electronic listing of emergency contacts to the Executive Officer for all members of the scientific party, with the following information: contact name, address, relationship to member, and telephone number.

C. Shipboard Safety

Hard hats are required when working with suspended loads. Work vests are required when working near open railings and during small boat launch and recovery operations. Hard hats and work vests will be provided by the ship when required.

Wearing open-toed footwear or shoes that do not completely enclose the foot (such as sandals or clogs) outside of private berthing areas is not permitted. At the discretion of the ship CO, safety shoes (i.e. steel or composite toe protection) may be required to participate in any work dealing with suspended loads, including CTD deployment and recovery. The ship does not provide safety-toed shoes/boots. The ship's Operations Officer should be consulted by the Chief Scientist to ensure members of the scientific party report aboard with the proper attire.

D. Communications

A progress report on operations prepared by the Chief Scientist may be relayed to the program office. Sometimes it is necessary for the Chief Scientist to communicate with another vessel, aircraft, or shore facility. Through various means of communications, the ship can usually accommodate the Chief Scientist. Special radio voice communications requirements should be listed in the project instructions. The ship's primary means of communication with the Marine Operations Center is via e-mail and the Very Small Aperture Terminal (VSAT) link. Standard VSAT bandwidth at 128kbs is shared by all vessels staff and the science team at no charge. Increased bandwidth in 30 day increments is available on the VSAT systems at increased cost to the scientific party. If increased bandwidth is being considered, program accounting is required it must be arranged at least 30 days in advance.

E. IT Security

Any computer that will be hooked into the ship's network must comply with the *NMAO Fleet IT Security Policy* 1.1 (November 4, 2005) prior to establishing a direct connection to the NOAA WAN. Requirements include, but are not limited to:

(1) Installation of the latest virus definition (.DAT) file on all systems and performance of a virus scan on each system.
(2) Installation of the latest critical operating system security patches.
(3) No external public Internet Service Provider (ISP) connections.

Completion of these requirements prior to boarding the ship is required and applies to any operating system.

Non-NOAA personnel using the ship's computers or connecting their own computers to the ship's network must complete NOAA's IT Security Awareness Course within 3 days of embarking.

F. Foreign National Guests Access to OMAO Facilities and Platforms

Foreign National access to the NOAA Ship or Federal Facilities are not required for this project.

US-EPA REGION 4 DIVE PLAN

DATE OF REQUEST: JULY 15, 2015 **APPROVAL:** Mel Parsons (6 white) **DATE:** 7/15/15

LOCATION: OFF SHORE, FERNANDINA, FL **DIVE DATES:** AUG 11-14, 2015

SURVEY OBJECTIVES: CONDUCT HABITAT ASSESSMENTS AT THE FERNANDINA ODMDS

DIVEMASTER: MEL PARSONS **TENDER(s):** ANY DIVERS LISTED BELOW

DIVERS: MEL PARSONS, CHRIS McARTHUR, DREW KENDALL, TARA HOUDA, ROSEMARY HALL, GREG WHITE, JON McMAHAN, JOHN RUIZ

LAUNCH SITE/PLATFORM: R/V NANCY FOSTER

EMERGENCY ASSISTANCE - 911, COAST GUARD CH-16, DAN (919) 684 8111

HOSPITAL:

BAPTIST MED. CTR. - BEACHES **(904)627-2900** - NON-EMERGENCY, 1350 13TH AVE. S., JACKSONVILLE BEACH or BAPTIST MED. CTR. - NASSAU **(904)321-3500**, 1250 S. 18TH ST., FERNANDINA BEACH

CHAMBER LOCATION: FLORIDA HOSPITAL **(407)303-1549 EXT. 5** - MONO AND MULTIPLACE CHAMBER, 601 E. ROLLINS ST. ORLANDO, FL 32803. AFTER HOURS - **(800)824-0085** or CAPITAL REGIONAL MEDICAL CENTER, **(850)325-4542**, 2626 CAPITAL MEDICAL BLVD., TALLAHASSEE, FL 32308

***** OXYGEN WILL BE ON SITE *****

ANTICIPATED CONDITIONS: MAX DEPTH: 70' AIR/H2O TEMP: 90/80 MAX CURRENT: < 1kt. to 1kts.
TIDAL INFLUENCES: MODERATE VESSEL TRAFFIC: MODERATE
POLLUTION SOURCES: N/A
BIOLOG. HAZARDS: JELLYFISH STINGS
VISIBILITY: 2-10' OTHER: N/A

EQUIPMENT: VIKING DRY SUIT_____ AGA_____ SURFACE SUPPLY _____
STANDARD SCUBA___X_____ OTHER_____

SPECIAL INFORMATION: **DIVING WILL BE CONDUCTED UTILIZING NITROX II (36%)**

POST DIVE REPORT

WATER TEMP AIR TEMP/WEATHER CURRENTS
VISIBILITY
BIOLOG. HAZARD
OTHER (TIDES, POLLUTION, VESSEL TRAFFIC,ETC)
PROCEDURAL NOTES
EQUIP.NOTES (REPAIRS?,ETC)

DIVEMASTER SIGN. _____ DATE_____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

DIVING SAFETY
BOARD

FEBRUARY 3, 2014

Gregory B. McFall
NOAA Diving Program Manager
United States Department of Commerce
Office of Marine and Aviation Operations
NOAA Diving Program
7600 Sand Point Way N. E.
Seattle Washington 98115-0070

Dear Mr. McFall:

I am pleased to provide the enclosed "Reciprocity Agreement" between the United States Environmental Protection Agency Diving Safety Board (EPA) and the National Oceanic and Atmospheric Administration (NOAA), for the 2015 calendar year. Under this agreement, NOAA divers will be allowed to participate in EPA sponsored projects and operations

Maintenance of this agreement is contingent upon compliance with EPA diving regulations and standards. When participating on EPA dive operations, NOAA divers are required to provide the EPA project Unit Dive Officer with; a copy of the attached agreement, a current letter of authorization signed by their Diving Officer, and proof of coverage for workman's compensation.

I look forward to continuing this relationship with your program. If you have any questions please call me at 202-566-1267.

Sincerely,

Kennard W. Potts
Chairman, EPA Diving Safety Board

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Diver Authorization Reciprocity Agreement

Between

The United States Environmental Protection Agency
Diving Safety Board

and

The National Oceanic and Atmospheric Administration
Diving Program
Gregory B. McFall
NOAA Diving Program Manager

Period of Agreement: January 1, 2015 - December 31, 2015

The EPA Diving Safety Board (DSB) recognizes the National Oceanic and Atmospheric Administration (NOAA) Diving Program's authorization to dive as equivalent to EPA authorization. Under this agreement, NOAA divers are allowed to participate in EPA-sponsored projects and operations. Each diver will be required to present a current letter of authorization, signed by the NOAA Unit Diving Officer (UDO), a copy of this agreement to the project's Unit Diving Officer (UDO). This agreement can only be applied to personnel directly employed by NOAA unless agreed upon by both diving programs.

Maintenance of this agreement is contingent upon strict compliance with EPA diving regulations and standards, when diving on EPA projects, as set forth in the EPA Diving Safety Policy. The only exception to standard EPA procedures will be that all certification and medical information will be retained by the NOAA unit.

Please contact the EPA Diving Safety Board Chairman, Kennard Potts, (202-566-1267) if there are any questions regarding diver certification, physicals, operational protocols, or technical procedures. Compliance with the terms of this agreement is subject to inspection by the EPA DSB. This agreement may be terminated or modified by the DSB at any time. This agreement may be renewed annually by mutual consent of both diving programs.

Kennard W. Potts
Chairman, EPA Diving Safety Board

2/3/2015
Date

DIVING RECIPROCITY AGREEMENT

BETWEEN

THE NOAA DIVING PROGRAM

AND

THE UNITED STATES ENVIRONMENTAL PROTECTION AGRENCY

CHAIRMAN, EPA DIVING SAFETY BOARD: KENNARD POTTS

Period of Agreement: January 01, 2015 through December 31, 2015

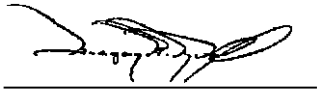
The NOAA Diving Program (NDP) hereby grants diving reciprocity to the United States Environmental Protection Agency (EPA) for the period of January 01, 2015 through December 31, 2015. Under this agreement, EPA personnel who hold a valid EPA Scientific Diver Certification and are covered with workers compensation while participating in diving operations under NOAA auspices, may participate in NOAA-sponsored projects and operations involving scientific diving activities as outlined in 29 CFR 1910.401 Subpart T. Diving operations that fall outside of the scope of the scientific exemption are not permitted under this reciprocity agreement.

In order to dive under this agreement, EPA divers must present a signed letter of reciprocity from you or your designee and verification of workers compensation coverage to the NOAA Divemaster. EPA divers must also have completed a minimum of three (3) dives within ninety (90) days of project start-up.

This agreement only applies to covered EPA personnel and is not transferable to other institutions with whom the EPA may have reciprocity.

Maintenance of this agreement is contingent upon strict compliance with the NOAA Scientific Diving Standards and Safety Manual Rev. 1 (available at: http://www.ndc.noaa.gov/pdfs/NSDSSM_rev1.pdf) when diving on NOAA projects. Compliance with these requirements is subject to inspection by NDP. This agreement may be terminated or modified by NDP at any time. Annual renewal of this agreement requires a written request from the initiating NOAA diving unit.

Contact the NOAA Diving Center (206-526-6705) if there are any questions regarding this agreement or changes to EPA diver certification, physical standards, operational protocols, or technical procedures.



December 30, 2014

Gregory B. McFall — Date

NOAA Diving Program Manager

Appendix B
Material Safety Data Sheets

Reviewed October 2011

Section 1. Identity

Product Name: **NOTOXhisto**

Cat#	Description		SDL Prod ID
614-01	NOTOXhisto	1 gallon/pkg	00344
614-05	NOTOXhisto 5 gallon	5 gallon/pkg	00345
614-15	NOTOXhisto 15 ML Containers	50 vials/pkg	00347
614-30	NOTOXhisto 30 ML Containers	50 vials/pkg	00351
614-60	NOTOXhisto 60 ML Containers	50 vials/pkg	00353
614-90	NOTOXhisto 90 ML Containers	50 vials/pkg	00354

Manufacturer/Supplier: Scientific Device Laboratory, 411 Jarvis Avenue, Des Plaines, IL 60018
Phone 847-803-9495

Emergency Information: In case of a chemical emergency, spill, fire, exposure or accident contact Scientific Device Laboratory (847) 803-9495 or CHEMTREC 1-800-424-9300 or 703-527-3887

Section 2. Hazardous Ingredients/Identity Information

Components: Aqueous alcoholic solution with other hydroxlated compounds. (90% non aromatic alcohols)
Product consists of an aqueous solution of stabilizing chemicals.

Section 3. Physical/Chemical Characteristics

Boiling Point: 165°F
Flash Point 118°F
Specific Gravity: 1.044
Vapor Pressure (mmHg): N/A
Vapor Density (AIR=1): N/A
Melting Point: N/A
Evaporation Rate: vd >1
Solubility in H_2O: souble
Appearance: clear
Odor: none
Consists of: aqueous solution of stabilizing chemicals

Section 4. Fire and Explosion Hazard Data

Flash point: 118°F
Flammable limits: unknown
LEL/UEL: N/A
Extinguishing medium: water
Special Fire Fighting Procedures: none found
Unusual Fire and Explosion Hazards: none known

Section 5. Reactivity Data

Stability: stable
Condition to avoid: swallowing
Reagent incompatibility: not known
Hazardous decomposition or By-products: none known

Hazardous polymerization: does not occur

Conditions to avoid: freezing or mixing with organic solvents

Section 6. Health Hazard Data

Routes of entry: ingestion: unknown

Inhalation unknown

Skin: unknown

Ingestion: avoid ingestion

Health Hazards: none known in final concentration

Carcinogenicity: none known

Signs and symptoms of exposure: unknown

Medical conditions aggravated by exposure: unknown

Emergency First Aid Procedures: skin contact: wash hands or area thoroughly for 15 minutes with water and soap. Respiratory: Wash with water

Section 7. Precautions for Safe Handling and Use

Steps to be taken if material is spilled: clean with cloth - Discard in flame retardant receptacle.

Waste Disposal Method: no special treatment, can be discarded down drain barring any local restrictions for alcohol

Precautions to be taken in Handling and Storage: store at room temperature

Other Precautions: none

Section 8. Control Measures

Respiratory Protection: mask preferred

Ventilation: respiratory mask suggested

Protective Gloves: chemical resistant gloves

Protective Clothing: Chemical resistant

Work/Hygiene Practices: good general microbiology techniques

Eye Protection: chemical safety goggles

Section 9. Transportation

UN 1987 Alcohol N.O.S. (Aqueous Ethanol Solutions) Class 3 Group III

Revision History

CR NUMBER	REVISION
0908-001	00
0211-001	01
0511-001	02
0911-007	03