

From: [Chet Myers](#)
To: [Colarusso, Phil](#); [Gregory Dolan](#)
Cc: [Jay Borkland](#)
Subject: RE: NBMCT - Fish Monitoring Surveys
Date: Wednesday, March 20, 2013 1:20:07 PM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)

Hi Phil,

We currently have a contingency in our specifications that indicate the requirement that the Contractor hire a fish observer.

They are tasked with halting blasting if schools of fish are observed nearby.

Here is the text:

- All blasting operations shall take place utilizing sonar to identify fish schools and with a fisheries observer (hired by the Contractor) who is approved by the Massachusetts Division of Marine Fisheries (and National Marine Fisheries Services) in attendance. The fisheries observer shall observe for fish mortality.

We anticipate that these fish observers will take counts of any stunned or dead fish. We will relay your concern regarding collection of stunned/dead fish.



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From: Colarusso, Phil [mailto:colarusso.phil@epa.gov]
Sent: Wednesday, March 20, 2013 12:53 PM
To: Gregory Dolan
Cc: Chet Myers
Subject: RE: NBMCT - Fish Monitoring Surveys

Greg, Chet,

This answer will suffice. Thanks for pulling this stuff together. Could I ask other related but different thing. I'm sure that you guys have already thought about this, but in the event that blasting is required, post each blast event, there should be an effort to look for dead or injured fish in close proximity to the blast zone. Any floating bodies should be collected if possible (before the

seagulls get them) and numbers of fish by species should be tabulated and forwarded to EPA and DMF.

Thanks
Phil

From: Gregory Dolan [<mailto:gdolan@apexcos.com>]
Sent: Monday, March 18, 2013 12:52 PM
To: Colarusso, Phil
Cc: Chet Myers
Subject: NBMCT - Fish Monitoring Surveys

Good Afternoon Phil,

Attached is a draft portion of the response to comments that the Commonwealth is preparing in regard to the March 6th meeting with the EPA. After speaking with you on Friday we thought you may be interested in reviewing the assembled papers, prior to the Commonwealth's more formal submission. Please note that this is not a formal response from the Commonwealth, but rather should be used as an informal basis of discussion so that we (Apex) may better guide our efforts in responding to your concerns.

I also spoke in length with Ward McIntyre from Fathom Research about how he has been conducting the fish monitoring surveys, and he confirmed that the majority of the surveys to date have been completed by divers and not by towed video camera. According to Ward (and the monitoring reports reflect this although the wording unintentionally leaves room for interpretation), the first six weeks of fish monitoring surveys were conducted by divers equipped with underwater video cameras and not by a towed camera. Weeks seven, eight and now nine were conducted using a combination of diver survey transects and towed video camera transects. All of the transects conducted during the most recent three weeks at the South Terminal exclusion area were completed by divers. During this same three week period, each week four of the six transects of CAD Cell 3 exclusion area were conducted using a towed video camera, and two were conducted by divers.

Please let us know if you would like any more information.

Sincerely,

Greg Dolan



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