MISCELLANEOUS

FPOM INDEX OF DECISIONS MADE REGARDING MISCELLANEOUS ACTIVITIES

Updated 06 March 2020

QUICKLINKS

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[Fish Passage Plan](http://pweb.crohms.org/tmt/documents/FPOM/2010/Index%20of%20FPOM%20Meeting%20Final%20Results/Miscellaneous.doc#FPP)

[Process and Reporting](http://pweb.crohms.org/tmt/documents/FPOM/2010/Index%20of%20FPOM%20Meeting%20Final%20Results/Miscellaneous.doc#PROCESS)

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[HAZMAT spills](http://pweb.crohms.org/tmt/documents/FPOM/2010/Index%20of%20FPOM%20Meeting%20Final%20Results/Miscellaneous.doc#HAZMAT)

NOTES: How to use this document.

Year month (MOC/MFR) - this indicates a memo. The memo title follows and may be found on the website if you want more details.

Year month- this indicates the FPOM meeting at which the recommendation or decision was made. You may find the FPOM meeting folders on the web if you want more details.

LAMPREY

2020 February MOC/MFR

[20BON04 MOC Cascade Island lamprey trap location](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/20BON04%20MOC%20Cascade%20Island%20lamprey%20trap%20location.pdf)

2019 November MOC/MFR

[19BON63 MFR PH2 LFS ROV inspection](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON63%20MFR%20PH2%20LFS%20ROV%20inspection.pdf)

2019 September MOC/MFR

[19BON59 MFR WA LPS PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON59%20MFR%20WA%20LPS%20PL%20Mort.pdf)

2019 August MOC/MFR

[19BON47 MFR AFF SOC-PL-CHN Morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON47%20MFR%20AFF%20SOC-PL-CHN%20Morts.pdf)

[19BON48 MFR WA LPS PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON48%20MFR%20WA%20LPS%20PL%20Mort.pdf)

[19BON49 MFR WA AWS LPS PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON49%20MFR%20WA%20AWS%20LPS%20PL%20Mort.pdf)

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2019 July MOC/MFR

[19BON23 MFR AFF PL and Sockeye Morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON23%20MFR%20AFF%20PL%20and%20Sockeye%20Mort.pdf)

[19BON24 WA LPS PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON24%20WA%20LPS%20PL%20Mort.pdf)

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[19BON35 MFR AFF PL CHN Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON35%20MFR%20AFF%20PL%20CHN%20Mort.pdf)

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[19TDA15 MFR PL Mort EFL Picket leads](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/19TDA15%20MFR%20PL%20Mort%20EFL%20Picket%20leads.pdf)

[19TDA16 MFR CRITFC POT Traps PL Morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/19TDA16%20MFR%20CRITFC%20Pot%20trap%20PL%20morts.pdf)

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[19BON07 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON07%20MFR%20AFF%20PL%20Mort.pdf)

[19BON09 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/19BON09%20MFR%20AFF%20PL%20Mort.pdf)

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[18BON52 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON52%20MFR%20%20AFF%20PL%20Mort.pdf)

[18BON53 MFR AFF Salmonid Mortality](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON53%20MFR%20%20Adult%20Fish%20Facility%20Salmonid%20Mortality.pdf)

[18BON55 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON57%20MFR%20AFF%20PL%20Mort.pdf)

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[18BON20 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON20%20MFR%20%20AFF%20PL%20Mort.pdf)
[18BON18 MFR CI PL Morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON18%20MFR%20CI%20PL%20Morts.pdf)
[18BON17 MFR PL Morts in PH1 tail log slots](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON17%20MFR%20PL%20Morts%20in%20PH1%20tail%20log%20slots.pdf)
[18BON15 MFR CI PL Morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON15%20MFR%20CI%20PL%20Morts.pdf)

[18BON14 MFR CI LPS lamprey morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON14%20MFR%20CI%20LPS%20lamprey%20morts.pdf)

[18TDA04 MOC Lamprey Reduced Nighttime Flows](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/18TDA04%20MOC%20Lamprey%20Reduced%20Nighttime%20Flows%20Updated%2051518.pdf)

2018 May MOC/MFR

[18BON12 MFR WA SH AWS LPS PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON12%20MFR%20WA%20SH%20AWS%20LPS%20PL%20Mort.pdf)
[18BON10 MFR CI PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON10%20MFR%20CI%20PL%20Mort.pdf)
[18BON08 MFR AFF PL Mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON08%20MFR%20AFF%20PL%20Mort.pdf)
[18BON07 MFR CI PL mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/18BON07%20MFR%20CI%20PL%20mort.pdf)

2017 February MOC/MFR

[17TDA08 MFR CS Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/17TDA08%20MFR%20CS%20lamprey%20mort.pdf)

2017 October MOC/MFR [17BON70 MFR AFF PL mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/)

2017 August MOC/MFR

[17BON63 MFR PL mort CRITFC pot trap](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON63%20MFR%20PL%20mort%20CRITFC%20pot%20trap.pdf)

[17BON62 MFR PL morts CRITFC traps and holding tanks](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON62%20MFR%20PL%20morts%20CRITFC%20traps%20and%20holding%20tanks.pdf)

[17BON61 MFR PL morts CRITFC traps and holding tanks](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON61%20MFR%20PL%20morts%20CRITFC%20traps%20and%20holding%20tanks.pdf)

2017 July MOC/MFR

[17BON57 MFR PL Morts V15 AFF](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON57%20MFR%20PL%20Morts%20V15%20AFF.pdf)

[17BON55 MFR PL mort AFF V15](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON52%20MFR%20PL%20morts%20CRITFC%20traps%20and%20holding%20tanks.pdf)

[17BON52 MFR PL morts CRITFC traps and holding tanks](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON52%20MFR%20PL%20morts%20CRITFC%20traps%20and%20holding%20tanks.pdf)

[17BON51 MFR AFF V15 PL Mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON51%20MFR%20AFF%20V15%20PL%20Mort.pdf)

[17BON48 MFR AFF V15 PL Morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON48%20MFR%20AFF%20V15%20PL%20Morts.pdf)

[17BON45 MFR AFF PL V15 morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON45%20MFR%20AFF%20PL%20V15%20morts.pdf)

1[7BON44 MFR PL morts CRITFC traps](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON44%20MFR%20PL%20morts%20CRITFC%20traps.pdf)

[17BON43 MFR PL mort CRITFC trap](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON43%20MFR%20%20PL%20mort%20CRITFC%20trap.pdf)

[17BON42 MFR PL mort CRITFC traps](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON42%20MFR%20PL%20mort%20CRITFC%20traps.pdf)

[17BON41 MFR PL morts CRITFC holding tanks](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON41%20MFR%20PL%20morts%20CRITFC%20holding%20tanks.pdf)

[17BON39 MFR AFF PL V15 Mortalities](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON39%20MFR%20AFF%20PL%20V15%20Mortalities.pdf)

[17BON37 MFR AFF PL CRITFC holding tanks](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON37%20MFR%20AFF%20PL%20CRITFC%20holding%20tanks.pdf)

[17BON36 MFR AFF PL CRITFC holding tanks](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON35%20MFR%20PL%20CRITFC%20traps%20and%20holding%20tanks.pdf)

[17BON35 MFR PL CRITFC traps and holding tanks](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON35%20MFR%20PL%20CRITFC%20traps%20and%20holding%20tanks.pdf)

[17BON33 MFR AFF PL morts V15](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON33%20MFR%20AFF%20PL%20morts%20V15.pdf)

2017 June MOC/MFR

[17BON30 MFR AFF PL CRITFC traps](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON30%20MFR%20AFF%20PL%20CRITFC%20traps%20.pdf)

[17BON29 MFR AFF PL CRITFC traps](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON29%20MFR%20AFF%20PL%20CRITFC%20traps.pdf)

[17BON28 MFR AFF PL mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON28%20MFR%20AFF%20PL%20mort.pdf)

[17BON25 MFR AFF PL mort V15 trashrack](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON25%20MFR%20AFF%20PL%20mort%20V15%20trashrack.pdf)

[17BON18 MFR AFF PL mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/)

[17BON15 MFR AFF PL mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/17BON15%20MFR%20AFF%20PL%20mort.pdf)

2016 September MOC/MFR

[16BON105 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON105%20MFR%20CI%20PL%20mort.pdf)
[16BON104 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON104%20MFR%20CI%20PL%20mort.pdf)
[16BON103 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON103%20MFR%20AFF%20PL%20mort.pdf)
[16BON102 MFR BI Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON102%20MFR%20BI%20PL%20morts.pdf)
[16BON101 MFR WA AWS LPS Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON101%20MFR%20WA%20AWS%20LPS%20PL%20mort.pdf)
[16BON100 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON100%20MFR%20CI%20PL%20mort.pdf)
[16BON99 MFR WA AWS LPS Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON99%20MFR%20WA%20AWS%20LPS%20PL%20mort.pdf)
[16BON98 MFR WA AWS LPS Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON98%20MFR%20WA%20AWS%20LPS%20PL%20mort.pdf)

2016 August MOC/MFR

[16JDA03 MFR Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/16JDA03%20MFR%20Lamprey%20morts.pdf)

[16TDA06 MFR East weir lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/16TDA06%20MFR%20East%20weir%20lamprey%20morts.pdf)

[16BON95 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON95%20MFR%20AFF%20PL%20mort.pdf)
[16BON89 MFR WA SHORE DSM lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON89%20MFR%20WA%20SHORE%20DSM%20PL%20mort.pdf)
[16BON88 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON88%20MFR%20BI%20PL%20morts.pdf)
[16BON87 MFR AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON87%20MFR%20AFF%20CHK%20PL%20mort.pdf)
[16BON86 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON86%20MFR%20CI%20PL%20mort.pdf)
[16BON84 MFR BI Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON84%20MFR%20BI%20PL%20morts.pdf)
[16BON83 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON83%20MFR%20CI%20PL%20mort.pdf)
[16BON82 MFR BI Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON82%20MFR%20BI%20PL%20morts.pdf)
[16BON81 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON81%20MFR%20AFF%20PL%20mort.pdf)
[16BON80 MFR BI Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON80%20MFR%20BI%20PL%20morts.pdf)
[16BON79 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON79%20MFR%20AFF%20PL%20mort.pdf)

2016 July MOCs/MFRs

[16BON75 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON75%20MFR%20AFF%20PL%20mort.pdf)
[16BON74 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON74%20MFR%20AFF%20PL%20mort.pdf)
[16BON73 MFR CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON73%20MFR%20CI%20PL%20mort.pdf)
[16BON72 MFR WA SHORE sockeye and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON72%20MFR%20WA%20SHORE%20SOC%20PL%20mort.pdf)
[16BON71 MFR AFF steelhead and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON71%20MFR%20AFF%20STH%20PL%20mort.pdf)
[16BON70 MFR AFF Chinook, sockeye, and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON70%20MFR%20AFF%20CHK%20SOC%20PL%20mort.pdf)
[16BON69 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON69%20MFR%20BI%20PL%20morts.pdf)
[16BON67 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON67%20MFR%20AFF%20PL%20mort.pdf)

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[16BON66 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON66%20MFR%20AFF%20lamprey%20mort.pdf)
[16BON65 MFR WA Shore LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON65%20MFR%20WA%20SHORE%20LPS%20lamprey%20mort.pdf)
[16BON64 MFR AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON64%20MFR%20AFF%20Chinook%20and%20lamprey%20morts.pdf)
[16BON63 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON63%20MFR%20BI%20lamprey%20morts.pdf)
[16BON62 MFR BI LPS lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON62%20MFR%20BI%20LPS%20PL%20morts.pdf)
[16BON61 MFR CI Lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON61%20MFR%20CI%20PL%20morts.pdf)
[16BON59 MFR AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON59%20MFR%20AFF%20PL%20morts.pdf)
[16BON58 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON58%20MFR%20AFF%20lamprey%20mort.pdf)
[16BON57 MFR WA SHORE lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON57%20MFR%20WA%20SHORE%20PL%20morts.pdf)
[16BON55 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON55%20MFR%20WA%20SHORE%20PL%20mort.pdf)
[16BON54 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON54%20MFR%20CI%20PL%20mort.pdf)
[16BON53 MFR AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON53%20MFR%20AFF%20PL%20morts.pdf)
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[16BON48 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON48%20MFR%20AFF%20PL%20mort.pdf)
[16BON46 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON46%20MFR%20CI%20PL%20mort.pdf)
[16BON45 MFR AFF lamprey and Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON45%20MFR%20AFF%20PL%20CHK%20morts.pdf)
[16BON44 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON44%20MFR%20BI%20PL%20morts.pdf)
[16BON43 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON43%20MFR%20CI%20PL%20mort.pdf)
[16BON41 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON41%20MFR%20WA%20SHORE%20PL%20mort.pdf)
[16BON40 MFR AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON40%20MFR%20AFF%20PL%20morts.pdf)
[16BON39 MFR AFF Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON39%20MFR%20AFF%20PL%20mort.pdf)
[16BON38 MFR CI Lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON38%20MFR%20CI%20PL%20mort.pdf)
[16BON37 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON37%20MFR%20WA%20SHORE%20PL%20morts.pdf)
[16BON36 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON36%20MFR%20WA%20SHORE%20PL%20morts.pdf)
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[16BON34 MFR WA SHORE lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON34%20MFR%20WA%20SHORE%20PL%20morts.pdf)
[16BON33 MFR CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON33%20MFR%20CI%20PL%20mort.pdf)
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[16BON25 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON25%20MFR%20WA%20SHORE%20PL%20mort.pdf)
[16BON24 MFR WA SHORE lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON24%20MFR%20WA%20SHORE%20PL%20mort.pdf)
[16BON23 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON23%20MFR%20BI%20PL%20morts.pdf)
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[16BON21 MFR CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON21%20MFR%20CI%20PL%20mort.pdf)
[16BON19 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON19%20MFR%20AFF%20PL%20mort.pdf)
[16BON18 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON18%20MFR%20AFF%20PL%20mort.pdf)
[16BON15 MFR AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON15%20MFR%20AFF%20CHK%20PL%20morts.pdf)

2016 June FPOM. FPOM recommends turning lights off in the BON viewing areas to assist with lamprey passage at night.

2016 January MOC/MFR.

[16BON02 MOC BI lamprey crowder mods](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON02%20MOC%20Brad%20Is%20crowder%20mods%20for%20lamprey.pdf)
[16BON01 MFR Bradford Is forebay lamprey larval survey](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/16BON01%20MFR%20Bradford%20Is%20forebay%20lamprey%20larval%20survey.pdf)

2015 September MOC/MFR.

[15BON79 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON79%20MFR%20AFF%20PL%20MORT.pdf)
[15BON75 MFR BI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON75%20MFR%20BI%20LPS_PL%20MORT.pdf)
[15BON74 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON74%20MFR%20AFF%20PL%20MORT.pdf)

2015 August MOC/MFR.

[15BON73 MFR WA Shore LFS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON73%20MFR%20WA%20shore%20PL%20MORT.pdf)
[15BON72 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON72%20MFR%20AFF%20PL%20MORT.pdf)
[15BON71 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON71%20MFR%20AFF%20PL%20MORT.pdf)
[15BON70 MFR WA FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON70%20MFR%20WA%20AWS%20LPS%20PL.pdf)
[15BON68 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON68%20MFR%20AFF%20PL%20MORT.pdf)
[15BON67 MFR CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON67%20MFR%20CI%20PL%20MORTS.pdf)

[15BON66 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON66%20MFR%20BI%20PL%20MORTS.pdf)
[15BON65 MFR AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON65%20MFR%20PL%20MORTs.pdf)
[15BON64 MFR AFF Chinook sockeye and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON64%20MFR%20AFF%20CHK%20SOC%20PL%20MORT.pdf)
[15BON63 MFR AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON63%20MFR%20AFF%20CHK%20PL%20MORT.pdf)
[15BON62 MFR WA FV 6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON62%20MFR%20WA%20AWS%20LPS.pdf)
[15BON60 MFR WA FV6-9 lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON60%20MFR%20WA%20AWS%20LPS.pdf)[15BON69 MFR BI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON69%20MFR%20BI%20LPS_PL%20MORT.pdf)
[15BON59 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON59%20MFR%20BI%20PL%20MORTS.pdf)
[15BON58 MFR AFF sockeye Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON58%20MFR%20AFF%20SOC%20CHK%20PL%20MORT.pdf)
[15BON56 MFR AFF sockeye Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON56%20MFR%20AFF%20SOC%20CHK%20PL%20MORT.pdf)
[15BON55 MFR AFF sockeye and Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON55%20MFR%20AFF%20SOC%20CHK%20MORT.pdf)

[15TDA10 MFR TDA-E lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/15TDA10%20MFR%20east%20ladder%20PL.pdf)

[15JDA08 MFR JDA-S lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA08%20MFR%20south%20ladder%20PL.pdf)

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[15BON53 MFR BI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON53%20MFR%20BI%20PL%20MORT.pdf)
[15BON49 MFR AFF sockeye and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON49%20MFR%20AFF%20SOC%20PL%20MORT.pdf)
[15BON48 MFR AFF 37 sockeye 1 Chinook 3lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON48%20MFR%20AFF%2037SOC%201CHK%203PL%20MORT.pdf)
[15BON47 MFR BI AWS crowder LPS lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON47%20MFR%20BI%20AWS%20crowder%20LPS%202PL.pdf)
[15BON45 WS LFS air entrainment test](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON45%20WS%20LFS%20air%20entrainment%20test.pdf)<
[15BON44 MFR WA AWS LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON44%20MFR%20WA%20AWS%20LPS%201PL%20mort.pdf)
[15BON43 MFR AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON43%20MFR%20AFF%20PL%20SOC%20MORT.pdf)
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[15BON30 MFR WA LPS grating lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON30%20MFR%20WA%20LPS%20grating%20mort.pdf)
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[15BON27 MFR BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON27%20MFR%20BI%20%20PL%20MORTS.pdf)
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[15BON25 MFR AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON25%20MFR%20AFF%20PL_SOC.pdf)
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[15BON20 MFR AFF lamprey and salmonid morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON20%20MFR%20AFF%20PL%20salmonid%20morts.pdf)

[15BON19 MFR CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON19%20MFR%20PL%20CI%20MORT.pdf)
[15BON18 MFR AFF lamprey trap Chinook mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON18%20MFR%20AFF%20CHK%20MORT.pdf)
[15BON17 CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON17%20MFR%20PL%20CI%20MORT.pdf)
[15BON16 MFR Washington Shore lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON16%20MFR%20WA%20SHORE%20PL%20SOC%20MORT.pdf)
[15BON15 MFR BI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON15%20MFR%20BI%20LPS%20MORT.pdf)
[15BON14 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON14%20MFR%20AFF%20PL%20mort.pdf)
[15BON13 MFR WS Chinook jack mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON13%20MFR%20WS%20CH%20jack%20MORT.pdf)
[15BON12 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON12%20MFR%20AFF%20PL%20MORT.pdf)
[15BON11 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON11%20MFR%20AFF%20PL%20MORT.pdf)
[15BON10 MFR AFF Chinook mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON10%20MFR%20AFF%20CHK%20MORT.pdf)
[15BON09 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON09%20MFR%20BON%20AFF%20PL%20MORTS.pdf)

2015 February MOC/MFR. [15BON01 Univ. Idaho BI serpentine section hydraulic analysis](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON01%20BI%20Serpentine%20Section%20Hydraulic%20Analysis1%20UI%20Revised.pdf)

2014 December FPOM

BON CI picket leads. Fredricks said there is more head loss than he would like to see. Hausmann said the back panels could be removed and stored elsewhere. FPOM felt that might be something to look into.

2014 September MOCs/MFRs

[14BON74 MFR CI AWS trap lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON74%20MFR%20BON%20CI%20AWS%20TRAP%20PL%20MORT.pdf)
[14BON69 MFR BON CI LPS lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON69%20MFR%20BON%20CI%20LPS%20PL%20MORT.pdf)

[14BON67 MFR BON AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON67%20MFR%20AFF%20CHK%20PL%20MORTS.pdf)
[14BON64 MFR BON CI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON64%20MFR%20BON%20CI%20LPS%20PL%20MORT.pdf)
[14BON60 MFR CI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON60%20MFR%20CI%20LPS%20PL%20MORT.pdf)

2014 August MOCs/MFRs

[14BON58 MFR WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON58%20MFR%20WS%20FV6-9%20LPS%20MORT.pdf)
[14BON57 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON57%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON55 MFR WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON55%20MFR%20WA%20AWS%20LPS%20PL%20MORT.pdf)
[14BON54 BI Serpentine Underwater video](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON54%20BI%20Serpentine%20Underwater%20Video.pdf)

[14BON53 MFR CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON53%20MFR%20CI%20PLS%20PL%20MORT.pdf)
[14BON52 MFR AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON52%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON51 MFR AFF Chinook mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON51%20MFR%20AFF%20CHK%20MORT.pdf)
[14BON50 MFR CI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON50%20MFR%20CI%20LPS%20PL%20MORT.pdf)

2014 July MOC/MFRs

[14JDA11 MFR UI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/14JDA11%20MFR%20UI%20lamprey%20mort.pdf)
[14JDA10 MFR Lamprey Mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/14JDA10%20MFR%20Lamprey%20Mort.pdf)

[14TDA08 MFR TDA-E lamprey trap morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/14TDA08%20MFR%20TDA-E%20lamprey%20trap%20morts.pdf)

[14BON47 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON47%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON46 MFR BON CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON46%20MFR%20CI%20PLS%20PL%20MORT.pdf)
[14BON45 MFR BON AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON45%20MFR%20BON%20AFF%20SOC%20PL%20MORTS.pdf)
[14BON44 MFR BON CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON44%20MFR%20BON%20CI%20PL%20MORT.pdf)
[14BON43 MFR BON WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON43%20MFR%20BON%20WS%20FV6-9%20LPS%20PL%20MORT.pdf)
[14BON42 LFS attraction flow test](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON42%20LFS%20Attraction%20flow%20test.pdf)
[14BON42 attachment 1 LFS attraction flow test spreadsheet](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON42%20Attachment%201%20BON%20LFS%20Attraction%20flow%20test.xlsx)
[14BON42 Attachment 2 LFS valve rating curves](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON42%20Attachment%202%20BON%20Lamprey%20Flume%20Valve%20Rating%20Curves-2.pdf)
[14BON42 attachment 3 LFS attraction flow entrained air images](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON42%20Attachment%203%20BON%20WA%20Shore%20LFS%20entrained%20air%20images.pdf)
[14BON40 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON40%20MFR%20BON%20AFF%20PL%20MORTS.pdf)
[14BON38 MFR BON AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON38%20MFR%20BON%20AFF%20PL%20SOC%20MORTS.pdf)
[14BON37 MFR BON CI lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON37%20MFR%20BON%20CI%20PL%20SOC%20MORTS.pdf)
[14BON35 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON35%20MFR%20BON%20AFF%20PL%20MORT.pdf)

[14BON34 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON34%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON33 MFR BON WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON33%20MFR%20BON%20WA%20SHORE%20LPS%20PL%20MORT.pdf)
[14BON32 MFR BON AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON32%20MFR%20BON%20AFF%20PL%20SOC%20MORT.pdf)
[14BON29 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON29%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON28 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON28%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[14BON27 MFR BI LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON27%20MFR%20BON%20BI%20LPS%20PL%20MORT.pdf)
[14BON26 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON26%20MFR%20BON%20AFF%20PL%20MORTS.pdf)
[14BON25 MFR WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON25%20MFR%20WS%20AWS%20LPS%20PL%20MORT.pdf)
[14BON23 MFR AFF protocol incident](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON23%20MFR%20AFF%20protocol%20incident.pdf)
[14BON22 MFR WS FV6-9 LPS lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON22%20MFR%20WS%20AWS%20LPS%20PL%20MORT.pdf)
[14BON20 WS LFS venting](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON20%20WS%20LFS%20venting.pdf)

2014 June MOC/MFRs

[14JDA09 MFR CTUIR lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/14JDA09%20MFR%20CTUIR%20lamprey%20morts.pdf)

[14TDA06 MFR lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/14TDA06%20MFR%20lamprey%20mort.pdf)

[14BON18 MFR BON AFF lamprey and Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON18%20MFR%20BON%20AFF%20PL%20CHN%20MORTS.pdf)
[14BON17 MFR BON AFF Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON17%20MFR%20BON%20AFF%20CHN%20MORTS.pdf)
[14BON16 MFR BON AFF lamprey, Chinook, and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON16%20MFR%20BON%20AFF%20MORTS.pdf)
[14BON15 CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON15%20MFR%20BON%20CI%20PL%20MORT.pdf)
[14BON14 LFS attraction flow test and results](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON14%20LFS%20Attraction%20flow%20test.pdf)
[14BON14 LFS attraction flow test attachment 1](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON14%20LFS%20Attraction%20flow%20test%20attachment%201.xlsx)

[14BON12 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON12%20MFR%20BON%20AFF%20PL%20MORT.pdf)

2014 February MOC/MFR.

[14BON03 BI serpentine underwater video](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON03%20BI%20serpentine%20Underwater%20video.pdf)
[14BON01 BI Lamprey wetted wall](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/14BON01%20BI%20Lamprey%20wetted%20wall.pdf)

[14TDA02 MFR TDA-N lamprey and steelhead morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/14TDA02%20MFR%20lamprey%20steelhead%20morts.pdf)

2013 September MOC/MFR.

[13BON75 MFR BON AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON75%20MFR%20BON%20AFF%20CHK%20PL%20MORT.pdf)

[13BON74 MFR BON AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON74%20MFR%20BON%20AFF%20CHK%20PL%20MORT.pdf)

[13BON69 MFR BON AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON69%20MFR%20BON%20AFF%20PL%20CHK%20MORT.pdf)

[13BON67 MFR BON WS Lamprey Passage Structure OOS](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON67%20MFR%20BON%20WS%20LPS%20OOS.pdf)

[13BON66 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON66%20MFR%20BON%20AFF%20PL%20MORT.pdf)

**2013 September FPOM.** BON AFF dead fish test. FPOM was in agreement with tagging dead fish, releasing them just below the count window, and seeing where they end up. Lamprey would be kept and released later in the season.

2013 August MOC/MFR

[13BON64 MFR BON AFF Chinook and BI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON64%20MFR%20BON%20AFF%20CHN%20and%20BI%20PL%20MORT.pdf)

[13BON62 MFR BON AFF lamprey and Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON62%20MFR%20BON%20AFF%20PL%20CHN%20MORT.pdf)

[13BON59 MFR BON AFF lamprey and Chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON59%20MFR%20BON%20AFF%20PL%20CHN%20MORT.pdf)

[13BON58 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON58%20MFR%20BON%20AFF%20PL%20MORT.pdf)
[13BON57 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON57%20MFR%20BON%20AFF%20PL%20MORT.pdf)

[13BON56 MFR BON AFF chinook smolt mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON56%20MFR%20BON%20AFF%20CHN%20MORT.pdf)

2013 July MOC/MFR

[13BON54 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON54%20MFR%20BON%20AFF%20PL%20MORTS.pdf)

[13BON53 MFR BON AFF lamprey and sockeye morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON53%20MFR%20BON%20AFF%20PL%20SOC%20MORT.pdf)

[13BON50 MFR BON AFF and CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON50%20MFR%20BON%20AFF%20and%20CI%20PL%20MORT.pdf)

[13BON49 MFR BON AFF Chinook and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON49%20MFR%20BON%20AFF%20CHN%20and%20PL%20MORTS.pdf)

[13BON47 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON47%20MFR%20BON%20AFF%20PL%20MORT.pdf)

[13BON45 MFR BON WS FV6-9 LPS lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON45%20MFR%20BON%20WS%20PLS%20PL%20MORT.pdf)

[13BON44 MFR BON AFF Sockeye, Chinook, lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON44%20MFR%20BON%20AFF%20SOC%20CHN%20PL%20MORT.pdf)

[13BON43 MFR BON CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON43%20MFR%20BON%20Casc%20Is%20PL%20MORT.pdf)

[13BON41 MFR BON AFF Chinook, lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON41%20MFR%20BON%20AFF%20CHN%20PL%20MORT.pdf)

[13BON40 MFR BON AFF Sockeye, Chinook, lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON40%20MFR%20BON%20AFF%20SOC%20CHN%20PL%20MORT.pdf)

[13BON39 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON39%20MFR%20BON%20AFF%20PL%20MORT.pdf)

[13BON37 MFR BON AFF lamprey and steelhead morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON37%20MFR%20BON%20AFF%20PL%20STH%20MORT.pdf)

[13BON36 MFR BON CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON36%20MFR%20BON%20CI%20PL%20MORT.pdf)

[13BON35 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON35%20MFR%20BON%20AFF%20PL%20MORT.pdf)

[13BON34 BON WS LFS ROV](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON34%20BON%20WA%20Shore%20Lamprey%20Flume%20ROV%20inspection.doc)

[13BON34 Attachment 1 U of I Modifications to BON WA Shore flume LPS](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON34%20Attachment%201%20U%20of%20I%20Modifications%20to%20BON%20WA%20Shore%20flume%20LPS_12JUL2013.pdf)

[13BON34 Attachment 2 WA Shore LFS\_area where large boil is appearing](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON34%20Attachment%202%20WA%20Shore%20LFS_area%20where%20large%20boil%20is%20appearing.png)

[13BON33 MFR BON CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON33%20MFR%20BON%20CI%20PL%20MORT.pdf)

[13BON32 WS NDE LFS ROV inspection](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON32%20BON%20WA%20Shore%20Lamprey%20Flume%20ROV%20inspection130626.pdf)

[13BON29 MFR BON AFF lamprey sockeye chinook morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON31%20MFR%20BON%20AFF%20lamprey%20sockeye%20chinook%20MORT.pdf)

[13BON30 MFR BON AFF lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON30%20MFR%20BON%20AFF%20Lamprey%20MORT.pdf)

[13BON29 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON29%20MFR%20BON%20AFF%20lamprey%20MORT.pdf)

2013 June MOC/MFR.

[13BON27 MFR BON AFF CH and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON27%20MFR%20BON%20AFF%20CHN%20PL%20MORT.pdf)

[13BON24 MFR BON CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON24%20MFR%20BON%20CI%20Lamprey%20mort.pdf)

[13BON23 MFR BON CI lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON23%20MFR%20BON%20CI%20PL%20MORT.pdf)

[13BON22 MFR BON BI LPS mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON22%20MFR%20BON%20BI%20LPS%20MORT.pdf)

[13BON21 MFR BON CI lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON21%20MFR%20BON%20CI%20PL%20MORT.pdf)

[13BON20 MFR BON AFF CH and lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON20%20MFR%20BON%20AFF%20CH%20and%20lamprey%20mort.pdf)

[13BON19 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON19%20MFR%20BON%20AFF%20lamprey%20mort.pdf)

[13BON18 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON18%20MFR%20BON%20AFF%20lamprey%20mort.pdf)

[13BON17 MFR BON AFF and LPS lamprey morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON17%20MFR%20BON%20AFF%20and%20LPS%20lamprey%20morts.pdf)

[13BON15 MFR BON WS lamprey flume morts](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON15%20MFR%20BON%20AFF%20WS%20Lamprey%20flume%20lamprey%20morts.pdf)

[13BON13 MFR BON AFF lamprey mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON13%20MFR%20BON%20AFF%20Lamprey%20mort.pdf)

**2013 June FFDRWG**

JDA lamprey trap. Tackley said Nathan Zorich has been working with the tribes and there may be a way to rig the trap in the open position so the pot traps could be installed until the hoist can be installed. Lorz and Fredricks said that would be a fine interim operation.

BON WS Lamprey flume repairs. FFDRWG stressed that Bradford Island winter maintenance shall not be impacted.

Lamprey Minor Modifications. FFDRWG said they can live with the smooth caps but flush would be preferred and grinded would be the least preferred.

**2013 May MOC/MFR.**

[13BON07 BON WA shore flume and LPS](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON07%20BON%20WA%20Shore%20flume%20system%20LPS%20pumps.doc)

[13BON07 Attachment 3 Pumps and pump installation](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON07%20Attachment%203%20Pumps%20and%20pump%20installation.pdf)

[13BON07 Attachment 2 Temporary Pump](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON07%20Attachment%202%20TempPumpDescription.pdf)

[13BON07 Attachment 1 NMFS Passage Design 2011](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON07%20attachement%201%20NMFS%20Passage%20Facility%20Design%202011.pdf)

2013 March. JDA Lamprey collection protocols. FPOM said to wait on finalizing protocols until they can see the trap in operation and get a better idea of how the operation will impact the ladder passage.

2013 February MOC/MFR.

[13BON03 NDE lamprey flume IWW extension.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON03%20NDE%20lamprey%20flume%20IWW%20extension.doc)

[13BON03 Attachment 2 2013 2-5 BON Kelt Trigger for 2013.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON03%20Attachment%202%202013%202-5%20BON%20Kelt%20Trigger%20for%202013.doc)

[13BON03 Attachment 1 4FEB2013\_Updated Schedule\_BON WA Shore Lamprey Flume.xls](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON03%20Attachment%201%20%204FEB2013_Updated%20Schedule_BON%20WA%20Shore%20Lamprey%20Flume.xls)

[13BON02 Lamprey refuge box placement.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/13BON02%20Lamprey%20refuge%20box%20placement.doc)

2012 December. FPOM agreed with the move to 1.5” spacing at the BON WS picket leads for lamprey passage improvements.

2012 September (MOC/MFR). [12BON34 MFR BON Cascades Island lamprey mort.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/12BON34%20MFR%20BON%20Cascades%20Island%20lamprey%20mort.doc)

2012 September. TDA lamprey night tests. Lower entrance weirs to lower velocity rather than backing down on fish units. Cordie reported that night flow reduction is a proposed operation for lamprey passage. He needs to know if this is going forward so the Project can look ahead and investigate PLC reprogramming or backing off on turbines. The Lamprey Working Group will need to decide if this is going forward and then FPOM can provide feedback on the preferred method for getting lower velocities.

**2012 August (MOC/MFR)**

[12JDA19 MFR JDA juvenile lamprey morts.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/12JDA19%20MFR%20JDA%20juvenile%20lamprey%20morts.doc)

[12JDA17 MFR SMF lamprey mort.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/12JDA17%20MFR%20SMF%20lamprey%20mort.doc)

[12BON30 MFR BON WA shore lamprey mort.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/12BON30%20MFR%20BON%20WA%20shore%20lamprey%20mort.doc)

**2012 May (MOC/MFR)**

[12BON13 WS NDE and SDE lamprey trapping.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/12BON13%20WS%20NDE%20and%20SDE%20lamprey%20trapping.doc)

[12JDA10 lamprey in the cooling water strainers.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/12JDA10%20lamprey%20in%20the%20cooling%20water%20strainers.doc)

2012 April. BON lamprey trap locations. Rerecich suggested moving the lamprey trap at the old ice and trash chute (ITC) to the SDE so it is fishing adjacent to the flow. Moving the trap would include four anchor bolts. NOAA could do the work at night. Currently looking at the week of 16 April or 14 May to do the work. FPOM says do it 17-18 April, at night and place at the end of the south monolith pier, away from the main flow.

2012 February (MOC/MFR).

[12TDA03 TDA lamprey video mounts in fishways.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/12TDA03%20TDA%20lamprey%20video%20mounts%20in%20fishways.doc)

[12JDA03 JDA lamprey video mounts in fishways.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/12JDA03%20JDA%20lamprey%20video%20mounts%20in%20fishways.doc)

**2011 September (MOC/MFR).** [110911 BON WS LPS lamprey morts.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/110911%20BON%20WS%20LPS%20lamprey%20morts.doc)

2011 August (MOC/MFR). [110829 JDA SMF PDS lamprey mortalities.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/110829%20JDA%20SMF%20PDS%20%20lamprey%20mortalities.doc)

2011 July.

FPOM said the CTUIR traps in TDA south channel would be ok, but not in the other ladders.

FPOM requests all projects re-measure the openings created by the 1” spacers under the picket leads and provide some information as to where fish end up if they go through the openings.

2011 May (MOC/MFR)

110505 BON WA Shore NDE and SDE lamprey trapping

110505 UPDATED 110412 BON WS lamprey flume construction.

2011 April (MOC/MFR).

[110404 TDA Juvenile lamprey incident\_TDA\_MU12 cooling water strainer.pdf](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/110404%20TDA%20Juvenile%20lamprey%20incident_TDA_MU12%20cooling%20water%20strainer.pdf)

[110411 TDA Memorandum juv lamprey morts MU10.pdf](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/110411%20TDA%20Memorandum%20juv%20lamprey%20morts%20MU10.pdf)

2011 February (MOC/MFR). [110221 TDA Juvenile lamprey MU9 cooling water strainer.pdf](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/110221%20TDA%20Juvenile%20lamprey%20MU9%20cooling%20water%20strainer.pdf)

2011 January (MOC/MFR)

110110 BON WA Shore NDE entrance DIDSON rail details

110110 BON WA Shore and Cascades Island DIDSOON work.

2011 January. FPOM decided the NWW lamprey strainer issue will not be an FPOM task group, even though Lorz did request the opportunity to attend more meetings. Hevlin and Wills want the data to continue to be collected, even if it is only every two weeks.

2010 December (MOC/MFR)

101221 BON WA Shore Count Station Mods for Lamprey

101221 BON WA Shore count station pickets

2010 December. FPOM suggested the long term storage and analysis decision belongs with the lamprey task group and should be made there.

2010 November. FPOM says take out the lamprey orifice closure gates at MCN.

2010 September. Based on FPOM recommendation, Cordie will have the TDA picket leads raised to 1.5” and all other Projects will inspect the picket leads and figure out if they can go to 1.5”, except BON which has additional concerns about fish getting on the wrong side of the picket leads. This action is to provide improved lamprey passage.

FPOM concurs with the early removal of the avian wires at BON PH2 for lamprey work at NDE.

2010 August. Lorz says keep the lamprey samples from the cooling water strainers in ethyl alcohol and put in the freezer.

2010 July (MOC/MFR). 100713 BON WS lamprey outage.

2010 June. FPOM approves of CTUIR installing lamprey traps at TDA and BON, in addition to continuing at JDA. FPOM requested CTUIR report any incidental fish trapped.

2010 March. FPOM would like to see a monthly NWW cooling water strainer lamprey mortality report every month.

FPOM says send the NWW cooling water strainer lamprey mortality issue to FFDRWG.

2009 November. FPOM says ok with moving forward with the MCN lamprey orifice mods.

2009 October. FPOM recommends keeping the lamprey and sockeye nighttime counts separate on the fish count website, but having access to those counts on the website.

**2009 July.** FPOM says continue to replace galvanized 1” grate at critical areas at TDA but don’t replace just everywhere. ¾” is the direction the Region is headed but funding is an issue right now.

2009 July. FPOM was ok with starting the lamprey operations at IHR.

2009 May. BON NDE lamprey ramp installation. FPOM says ok to installing the ramp at 1300 on 19 May but they expressed concern about the timing.

2009 February. FPOM recommends the Projects look into a torpedo screen with an airburst to keep lamprey out of the cooling water strainers.

**2008 July.** FPOM is ok with lamprey trapping at JDA, as an experiment, for now. They would also like to see written protocols for minimizing foreign scents in the fishway.

**2008 February**. FPOM agrees to allow the lamprey counters to turn on existing lighting above the count station and to play with other options for maximizing visibility. Adding more lights was not agreed to.

**2007 September.** FPOM was updated on the transportation of lamprey to Umatilla. NWP has given approval for CTUIR to access TDA and JDA during winter dewatering activities to collect lamprey broodstock. Without any better guidance, NWP has stipulated that at least 50% of the collected lamprey must be returned to the river. CTUIR may take the other 50%, up to 500 lamprey. When asked why 50%, T. Mackey said there was no guidance given so she chose half to be somewhat conservative without being too restrictive. She would prefer better guidance from the management agencies. **FPOM didn’t express concern about the 50% split. USFWS will take the matter to FPAC.** D. Hurson asked if CTUIR had state collection permits and stated that all NWW researchers and contractors must have state transportation permits. T. Mackey couldn’t answer for sure. BPA says CTUIR will need the permits since this is a BPA funded project.

**2007 July.** Lamprey trapping. D. Clugston would like FPOM approval for increasing the temperature threshold for lamprey trapping from 70º F to 72º F. **FPOM agrees lamprey researchers can continue to trap at night up to 72º F.**

2007 March. Lamprey passage. There were questions as to how lamprey are addressed in the FPP. Lamprey are included in several areas. No operating criteria until the lamprey passages are turned over to the Projects (Bonneville should happen in 2009). FPOM recommends including a paragraph for lamprey and sturgeon in the FPP.

FISH PASSAGE PLAN

2015 February FPOM. Condition Monitoring. FPOM will continue to have discussions regarding monitoring at the dams and how that ties in with Smolt Monitoring. Fredricks said he does not want to see additional handling of fish. FPOM would like to see the RFP so they can better understand what is being requested by the contractor. Bailey will mail to FPOM.

2014 September FPOM. Project Weekly Reports. Fredricks noted there are some areas of the reports that could use some improvement. He would like to see a schedule included for items currently being worked on. Lorz agreed. This applies not only to BON but to all the dams.

2012 August.

Coordination/Notification forms. Discussion/review of the MOC process. Lorz recounted the issues that prompted this agenda item. There have been several coordination events that did not follow the FPP protocols. Setter agreed that follow-up is a problem, not only inter-agency but intra-agency (getting items posted to the web). FPOM requested follow up conference calls when there are differing recommendations.

Discussion/review of the MOC process. Fredricks said “emergency” needs to be defined more clearly. Fredricks also said disagreements in FPOM need to follow a dispute resolution process. FPOM requested follow up conference calls when there are differing recommendations.

2010 July. FPOM recommends drafting a FPP change form for new BON slow roll operations.

**2008 March.** FPOM says Boyd can put the FPP in a better word processing format but do not remove sections from the Projects and put them in an appendix.

**2007 October. FPOM** agreed the FPP font will be Times New Roman 12.

**2007 September.** D. Hurson said there was talk of combining the FPP and WMP. He indicated he would entertain the idea but wanted to see that the FPP portion remained in the hands of FPOM. G. Fredricks suggested the WMP could be an appendix to the FPP, but then the FPP becomes a huge document. S. Boyd mentioned the 2008 WMP will be done differently than the previous years. There are some people, developing the new WMP, who would like to break it up by Project. **FPOM doesn’t want to see the FPP combined with other documents. They don’t mind referencing other documents or including links in the appendices, but the FPP needs to stand alone so the users (Projects) can easily use it.**

PROCESS AND REPORTING.

2016 June FPOM. MFRs. NWP Project will continue to write MFRs for morts found at all fish facilities

2015 December FPOM. A shad passage task group was formed with Bettin as chair. Meyer, Conder, and Rerecich are members.

2015 September FPOM. Include “emergency” in title of emergency MOCs.

2015 June FPOM. FPOM has requested that Updates for MOCs have “no known changes” included.

2012 August.

Coordination/Notification forms. Discussion/review of the MOC process. Lorz recounted the issues that prompted this agenda item. There have been several coordination events that did not follow the FPP protocols. Setter agreed that follow-up is a problem, not only inter-agency but intra-agency (getting items posted to the web). FPOM requested follow up conference calls when there are differing recommendations.

Discussion/review of the MOC process. Fredricks said “emergency” needs to be defined more clearly. Fredricks also said disagreements in FPOM need to follow a dispute resolution process. FPOM requested follow up conference calls when there are differing recommendations.

2011 February. FPOM agrees that the location is no longer critical for temperatures. The report will have an asterisk notifying readers of the changes in temperature collection.

2010 April. FPOM says Fisheries must walk the fish ladder each and every time it is dewatered. This applies to all Projects.

2010 March. FPOM established the unit slow roll criteria task group. Meyer, Bettin, Wills, and Mackey will be on the task group as well.

FPOM will express their concerns to their upper management regarding the dispute resolution process, or lack there of.

FPOM says the May FPOM will consist of meeting at the SMF at 0930, tour the JDA, then meet at TDA Westrick room at noon.

2010 January. FPOM wants all the fish counts in one table for the FFU Annual Fish Passage Report. Also include an additional table that can be compared year to year.

FPOM says TDA and JDA should enter the water quality data at the end of the season. If a need for the data arises sooner, FPOM will let Cordie know.

2009 December. November FPOM minutes approved. Hevlin would like to see a summary of the minutes. He feels they are getting rather long and take too much paper to print out. Klatte reported that Mackey will be given additional tasks in providing summaries of the minutes in addition to the full minutes. Fredricks commented that he finds the digital recordings very helpful and appreciates them being posted to the web.

FPOM would like mortality reports on all native species.

2009 September. FPOM decided the NWW updates, normally provided by Bailey, is no longer needed.

2009 August. FPOM approved the spill response plans, noting that they expect each project to use some common sense and coordinate with multiple agencies and Project Fisheries before determining it is necessary to shutdown fish passage facilities.

2009 June. FPOM requests a separate meeting following the July FPOM meeting, to discuss the spill response plans for JDA, TDA, and BON.

2009 March. FPOM would like to move all the spill response plan discussions to an agenda item for a future meeting.

**2008 December.** FPOM wants to be coordinated with for dive ops and any other FPP deviation.

2008 October. FPOM suggested December might be a good time to look at unit priority, planned studies, and potential changes needed to accommodate critical unit outages.

2008 August. FPOM created a new SMP task group. 2009 February. FPOM decided that those who wanted to check out the system could meet on the morning of 24 February at FPC. 2009 April. For the SMP sub-sample size discussion, FPOM agreed to 100 fish of the dominant species and not more than 100 of the non-dominant species for the NWW sites. For the NWP sites there will be 100 of each species (two sampled one day, two the next) with no weights taken on any.

**2008 July.** FPOM says if LWD collected at the Projects by non-profits will be used for restoration, then go ahead. Firewood is not OK.

2008 April. FPOM says it is preferable to post RCC info to the website and to include the back page summary with the agenda packet.

FPOM will have a link on the TMT website where meeting agendas, minutes and handouts will be stored.

FPOM will review the annual and five year budgets every January.

**2007 October.** NWW and NWP will send update information to the facilitator for inclusion with the agenda. For 2007/2008, items should be sent to B. Klatte and T. Mackey.

2007 February. Weekly Reports. D. Wills requested TDA/JDA include unit status. D. Wills also requested all projects retain the outage date of a unit and the estimated time of return. FPOM members were fine with TDA/JDA and BON not having similar reports, therefore reporting format will remain status quo.

GALVANIZED GRATES

2012 November. TDA zinc testing update. This is a continuation of the zinc testing completed in previous years. The results were below the threshold for impacts to salmonids. More grating will be installed this winter; followed by another round of sampling. After this winter season, the entire fishway will have “new” grating; much of the grating has sat in the bone yard for a couple of years or more. The grating is 1”.

2011 September. FPOM requests another water sample be taken at TDA to test for zinc.

2011 July. FPOM suggested re-testing before making any knee jerk reactions to the elevated zinc levels found in the TDA junction pool.

**2009 July.** FPOM says continue to replace galvanized 1” grate at critical areas at TDA but don’t replace just everywhere. ¾” is the direction the Region is headed but funding is an issue right now.

**2008 December.** FPOM says ok. Fredricks still wants time to review the methodology used for sampling prior to full deployment of stockpiled grating.

**2008 August.** FPOM would like USACE to paint the galvanized grates to reduce the rate of leaching, if the water samples come back higher than the threshold of concern in the zinc studies (.026 mg/l)

**2008 January.** FPOM says it would be best to find a place to store grates away from the fishways at TDA.

**2007 November.** FPOM says it is ok to install the 1” galvanized grating in high priority areas, otherwise wait until the engineering evaluation is complete and FPOM has made a decision.

**2007 October.** FPOM says it is ok to install the 1” galvanized grating in high priority areas, otherwise wait until the engineering evaluation is complete and FPOM has made a decision.

AVIAN HAZING

2016 September MOC/MFR

[16JDA04 Attachment 1 Overview Avian Array](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/16JDA04%20Attachment%201%20Overview%20Avian%20Array.pdf)
[16JDA04 Attachement 2 JD Avian](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/16JDA04%20Attachement%202%20JD%20Avian.xlsx)

2016 July FPOM. JDA Avian array. FPOM expects the lines to be replaced before the start of next fish passage season.

2016 June FPOM. Avian Task Group meeting after the July FPOM.

2015 December FPOM. FPOM formally recommended that USACE NWP pursue lethal take as part of their strategy to diminish avian predation of salmonids.

2015 January FPOM. FPOM Avian Task Group will meet after the 12 February 2015 FPOM meeting.

2014 August FPOM.

Avian counting should go through 31 July and include foraging birds in the tailrace at Ice Harbor in future years.

2014 June FPOM. Avian Task Group Chairwoman Setter scheduled the next task group meeting for 10 July, following FPOM.

**2013 July FPOM.** Avian Task Group meeting after the September FPOM meeting

2013 February. Avian hazing and monitoring. This is the second year working to standardize the data collection at all Projects between NWW and NWP. The portal will be live and available to interested parties. You must contact Zorich to get an account set up.

2013 January. FPOM still has concerns about not having an expanded MCN avian array. Lorz recommends the MCN avian array issue go to NWW FFDRWG. Fredricks said he is going to elevate the issue.

2012 September.

Zorich is the lamprey rep for NWP Operations. Fone is the lamprey rep for NWW Operations. Both will report back to FPOM each month.

MCN Avian deterrents. NOAA, CRITFC, Stephenson agreed with exploring the options of installing an avian array. BPA does not have a position at this time. IDFG, ODFW, and USFWS were not available.

2012 August.

Limited Lethal Take – Gulls at NWW. FPOM supports limited lethal take.

FPOM will evaluate the avian predation data available and determine if a recommendation to provide an avian array at MCN is warranted.

2012 June.

NOAA says stop barging fish from MCN. CRITFC supports that position. The transport COP needs to be updated. Setter says it should be ready by the end of the year.

FPOM suggested:

1. Replacing the lines at the BON B2CC
2. Look at additional lines below the TDA bridge.
3. Stop barging at MCN and put in a spillway avian array, similar to JDA. Consider boat-based hazing. Setter suggested limited lethal take would be more effective.
4. Put weight on the barrels so when the barrels rotate to allow debris to pass, the weights will pull them back into position. This will keep the spider wire above water.
5. Devise a more flexible hazing program so hazers can move to problem areas (from one dam to another) overnight.
6. Look at limited lethal take.

FPOM said the restringing of the avian lines at the B2CC can wait until next winter maintenance season. Hausmann said they can have a hazer sit at the outfall to haze.

2012 May. TDA avian contingency plan. FPOM says make sure you can have adequate coverage. Make sure an additional boat is readily available.

2012 February. FPOM is ok with the proposed avian hazing plan but wants to make sure NWP is watching the impacts.

2012 January. FPOM requested the Avian Hazing discussion be carried over to February. They would like to see the plan for if it appears boat hazing may be needed.

2011 July. FPOM suggested removing the BON B2CC avian wires and monitoring the area for any increase in bird activity.

2011 January. FPOM would like standardized avian observation zones at each Project.

2010 October (MOC/MFR). [100107 04JAN2010 JDA avian array IWW extension.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/100107%2004JAN2010%20JDA%20avian%20array%20IWW%20extension.doc)

2010 October. FPOM is ok with the TDA avian array. Further tribal coordination will occur through other channels.

**2010 September (MOC/MFR).** [100920 FFU Avian 2010 JDA array.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/100920%20FFU%20Avian%202010%20JDA%20array.doc)

2010 August. NWP avian hazing plan for 2011. FPOM would like to see some data and hear about the survival at JDA and TDA as well as look at the TDA avian array.

2010 June. FPOM did not express any concerns with TDA’s preferred option for a new avian array.

2010 May (MOC/MFR).

[100520 TDA avian hazing increase.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/100520%20TDA%20avian%20hazing%20increase.doc)

[100512 TDA hazing response letter.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/100512%20TDA%20hazing%20response%20letter.doc)

2010 April (MOC/MFR). [100402 JDA avian lines.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/100402%20JDA%20avian%20lines.doc)

**2008 February.** FPOM suggests reviewing the 1995 SOR to see if lethal take of birds is covered. If it is not, then they recommend USACE pursue NEPA.

**2007 November.** FPOM says okay, and to add a provision to allow an earlier start if necessary, to the changes in the TDA/JDA avian hazing schedule. The hazing would take place over three months instead of five or six.

FISH COUNTING

**2019 December FPOM.** One hour of fish passing through a Bonneville count station window will be posted on the FPOM website for any future requests for video feed.

2015 February FPOM. FPOM and FPAC request that the rolling winter counts continue. NWW and NWP are in agreement.

2014 August FPOM. FPOM concurred with making the following improvements at TDA-N only. If they prove successful, there may be concurrence to do these improvements at other projects but not right now.

* + 1. Video counting at TDA-N. Yes.
		2. Paint the crowder. Go with battleship gray. May test other colors but start with gray.
		3. Add more light. Maybe, if shielding the camera and lightening the floor and crowder do not work. .
		4. Shield the camera. Yes.
		5. Plate fishway with Teflon to reduce algal growth and lighten the floor. Ok but have contingency plan if it turns out to be a barrier.

2014 April FPOM. Fish counting – no nighttime shad counting. FPOM agrees to end nighttime shad counting.

2012 December. FPOM says ok to BON switching fish counting lights to LED as long as the lights are similar to what is there.

2011 September. FPOM created a new Fish Count task group to be chaired by Klatte and Moody.

2011 August. FPOM is ok with the two separate pages for salmon counts and lamprey counts.

2010 November. FPOM recommends ceasing shad counting at TDA.

FPOM recommends continue as we have with fish counts. Continue the rounding and explain to those who ask for further clarification.

2010 July. FPOM said there is still a need to count shad at TDA and BON.

STURGEON

2019 June MOC/MFR

[19TDA10 MFR SS turbine sturgeon morts](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/19TDA10%20MFR%20SS%20turbine%20sturgeon%20morts.pdf)

2018 November MOC/MFR [18TDA12 MFR gatewell sturgeon mort](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/18TDA12%20MFR%20gatewell%20sturgeon%20mort.pdf)

2016 February MOC/MFR. [16TDA02 MFR TDA-N sturgeon mort.pdf](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/16TDA02%20MFR%20TDA-N%20sturgeon%20mort.pdf)

2015 October MOC/MFR.

[15JDA12 MFR MU1 digital governor testing](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA12%20MFR%20MU1%20digital%20governor%20testing.pdf)
[15JDA12 MFR Attachment 2 WDFW memo](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA12%20MFR%20Attachment%202%20Sturgeon%20entrapment%20JDA%202015%20Cfm%20Nov%205%202015.docx)
[15JDA12 MFR Attachment 1 sturgeon salvage report 2005-15](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA12%20MFR%20Attachment%201%20sturgeon%20Salvage%20Report%202005-15.xlsx)

2015 September MOC/MFR.

[15JDA10 MFR Sturgeon in MU16 gatewell updated](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA10%20MFR%20Sturgeon%20in%20MU16%20gatewell%20updated.pdf)
[15JDA09 MFR Sturgeon in MU15 gatewell](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA09%20MFR%20Sturgeon%20in%20MU15%20gatewell.pdf)
[15JDA09 MFR attachment 1 gatewell drawing](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/JDA%20MOC%20and%20MFR/15JDA09%20MFR%20attachment%201%20JDP-1-4-4_35.tif)

2015 July MOC/MFRs. [15BON39 MFR BON PH2 gatewell sturgeon mort](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/BON%20MOC%20and%20MFR/15BON39%20MFR%20BON%20PH2%20Sturg%20MORT.pdf)

2011 December. BON dewatering procedures to keep large sturgeon out of the draft tube during dewatering. Fredricks suggested submitting a change form with the process.

2011 November. BON U16 draft tube dewatering. FPOM agrees with the proposal to pull tail logs every four days IF fish numbers/size exceed reasonable salvage activities.

2010 February. FPOM requests the hazers to collect time and description of when sturgeon are seen.

2009 March (MOC/MFR). 090326 BON PH1 sturgeon kill.

2009 January (MOC/MFR). 090123 BON CI dewatered STHD and sturgeon.

2008 March (MOC/MFR). 080327 BON Unit 17 sturgeon.

2006 March (MOC/MFR).

060327 BON Sturgeon.

060317 BON 17 March 2006 sturgeon Unit 11

2000 September (MOC/MFR)

000911 BON PH1 Unit 6.

000905 BON PH1 Unit 4.

HAZMAT SPILLS

2018 June MOC/MFR [18TDA06 MOC Oil boom installation at EFL](http://pweb.crohms.org/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/18TDA06%20MOC%20Oil%20boom%20installation%20at%20EFL.pdf)

2016 June FPOM. Hazmat response Task Group meeting after the August FPOM.

2016 April FPOM. NWP Oil spill plans. This will be moved to a regular agenda item so FPOM will be sure to look at them. These plans address both small and large scale spills. The Projects will give short presentations at the May FPOM meeting.

2016 March FPOM. NWP Oil spill plans. This will be moved to a regular agenda item so FPOM will be sure to look at them. These plans address both small and large scale spills. The Projects will give short presentations at the April FPOM meeting.

2010 February (MOC/MFR). [100209 TDA Westrick oil spill clean-up.doc](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Memos%20of%20Coordination%20and%20Notification/TDA%20MOC%20and%20MFR/100209%20TDA%20Westrick%20oil%20spill%20clean-up.doc)

2005 October (MOC/MFR). 051008 BON oil spill.

2005 September (MOC/MFR).

050926 BON Spirit of Alaska incident.

050926 BON ECC Spirit of Alaska Report.

2004 September (MOC/MFR).

040928 BON PH1 oil/water separator.

040906 BON oil spill navlock.

2004 April (MOC/MFR). 040405 BON chlorinated water spill.