

## MEMORANDUM FOR THE RECORD

Subject: FINAL minutes for the 8 May 2014 FPOM meeting.

The meeting was held in the Columbia Room at CRITFC. In attendance:

Last	First	Agency	Office/Mobile	Email
Baus	Doug	USACE-RCC	503-808-3995	<a href="mailto:Douglas.m.baus@usace.army.mil">Douglas.m.baus@usace.army.mil</a>
Benner	Dave	FPC		<a href="mailto:dbenner@fpc.org">dbenner@fpc.org</a>
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Conder	Trevor	NOAA		<a href="mailto:Trevor.conder@noaa.gov">Trevor.conder@noaa.gov</a>
Cordie	Bob	NWP-TDA		<a href="mailto:Robert.p.cordie@usace.army.mil">Robert.p.cordie@usace.army.mil</a>
Dugger	Carl	NWW-MCN		<a href="mailto:Carl.r.dugger@usace.army.mil">Carl.r.dugger@usace.army.mil</a>
Fredricks	Gary	NOAA	503-231-6855	<a href="mailto:Gary.fredricks@noaa.gov">Gary.fredricks@noaa.gov</a>
Hausmann	Ben	NWP-BON	541-374-4598	<a href="mailto:Ben.j.hausmann@usace.army.mil">Ben.j.hausmann@usace.army.mil</a>
Hevlin	Bill	NOAA	503-230-5415	<a href="mailto:Bill.hevlin@noaa.gov">Bill.hevlin@noaa.gov</a>
Iverson	Tom	Yakama Nation		<a href="mailto:t.k.iverson@comcast.net">t.k.iverson@comcast.net</a>
Kiefer	Russ	IDFG	208-334-3791	<a href="mailto:Russ.kiefer@idfg.idaho.gov">Russ.kiefer@idfg.idaho.gov</a>
Klatte	Bern	USACE-NWP	503-808-4318	<a href="mailto:Bernard.a.klatte@usace.army.mil">Bernard.a.klatte@usace.army.mil</a>
Kostow	Kathryn	ODFW		<a href="mailto:Kathryn.E.Kostow@state.or.us">Kathryn.E.Kostow@state.or.us</a>
Lorz	Tom	CRITFC		<a href="mailto:lor@critfc.org">lor@critfc.org</a>
Lut	Agnes	BPA		<a href="mailto:axlut@bpa.gov">axlut@bpa.gov</a>
Mackey	Tammy	NWP	503-961-5733	<a href="mailto:Tammy.m.mackey@usace.army.mil">Tammy.m.mackey@usace.army.mil</a>
Meyer	Ed	NOAA		<a href="mailto:Ed.meyer@noaa.gov">Ed.meyer@noaa.gov</a>
Moody	Greg	NWW		<a href="mailto:Gregory.p.moody@usace.army.mil">Gregory.p.moody@usace.army.mil</a>
Petersen	Christine	BPA		<a href="mailto:chpetersen@bpa.gov">chpetersen@bpa.gov</a>
Rerecich	Jon	NWP	503-808-4779	<a href="mailto:Jonathan.g.rerecich@usace.army.mil">Jonathan.g.rerecich@usace.army.mil</a>
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Zyndol	Miro	NWP-JDA		<a href="mailto:Miroslaw.a.zyndol@usace.army.mil">Miroslaw.a.zyndol@usace.army.mil</a>

Dugger, Iverson, Meyer Sears, Rerecich called in.

No known May birthdays. **HAPPY BIRTHDAY!**

### 1. Decisions made at this meeting.

1.1. April FPOM meeting minute were approved.

1.2. Pending change forms - 2014:

- 1.2.1. **14BON001**- PH2 Mid-Range Operation. Approved in the task group on 7 May 2014. **Approved at FPOM on 8 May. Wills arrived later and stated USFWS will neither support nor oppose the change form.**
- 1.2.2. **14LWG007** - Alternative Operations for Adult Passage. **Pending.**
- 1.2.3. **15MCN001** – No night-time flow reduction at Oregon fish ladder entrances. **Approved.**

- 1.3. LWG use of JDA screens. **FPOM agrees the JDA screens can safely go in B and C slot. If a screen goes in A slot, then FPOM will be notified.**
- 1.4. LGS spillway moving from manual to GDACS control. **FPOM recommends delaying the testing a week and doing it after 1300.** Wright came back and reported there is no flexibility in the schedule so this work will be done 13 – 15 May. Hevlin said this will not have an impact to adults but will have a potential to impact juvenile egress. **FPOM expressed concerns about the delay in bringing this to the group and overlaying this work with the peak of juvenile spring migration.**
- 1.5. BON Unit 13 priority. **FPOM is ok with moving it up in priority but will revisit this in June.**
- 1.6. BON TIES removal. The contractor will cut up the TIES, remove the old fish lab pipes, and the unused PH1 JMF aluminum flume. **FPOM concurred.**
- 1.7. TDA split flows. **Will meet prior to the ERDC trip.**
- 1.8. **Coordination/Notification forms (need concurrence).**
  - 1.8.1. **14 IHR 003** Ice Harbor Ogee & Deflector Modification. Lorz and Conder said they didn't see any change to the unit priority in the updated MOC. **FPOM recommends moving Unit 6 to the end of the priority list. Approved with the unit priority change recommended above.**
  - 1.8.2. **14TDA04** EFL AWS excavation. ODFW had concerns about the timing. Van Dyke said the timing overlays with the sturgeon spawning timing. Cordie said the test digs are over 50' from the shoreline of the cul de sac. Rerecich said this action will have minimum impacts due to the short duration. Rerecich said he felt the project may be negatively impacted if there is continued delay. **FPOM recommended the first week of June.** There were concerns about where vibration is going to be measured. Cordie said there will be measurements at the Junction Pool wall, above the water line. *Pending. Need to confirm the first week of June is acceptable.*
  - 1.8.3. **14TDA05** EFL AWS BRZ flows. **FPOM is ok with this work as long as the second survey occurs in the first week of August or in November. Later in August isn't approved.**
  - 1.8.4. **14BON08** BI bridge overlay. Fredricks suggested halting bay 18 attraction flow and delaying work until after daylight to allow fish to pass or not work weekends. PH2 will be the priority powerhouse. Fredricks also noted he would like to see the fish numbers broken out by species. *Pending. Need to know if the proposed changes can be adopted.*

2. The following documents were provided or discussed. Documents may be found at <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/>

- 2.1. *Agenda, Fish Passage O&M Coordination Team.*
- 2.2. *Cooling Water Strainers Lamprey Counts.xls.*
- 2.3. *Coordination/Notification Forms (NWW/NWP)*
- 2.4. *FPP change forms. (NWW/NWP)*
- 2.5. *BPA outages.*

### 3. Action Items

#### 3.1. NWW Action Items.

- 3.1.1. [Apr 14] LMN ladder repair schedule/out of criteria. **ACTION:** Moody will report back to Conder about the PLC schedule and the ability to maintain criteria. **STATUS:** *The PLC is on-site, is getting programmed and will be installed around the end of June. The PLC are at LGS and LWG as well. Moody said NWW is looking at adding it to AMRIP and getting spares.*
- 3.1.2. [Apr 14] MCN Lamprey entrance vibration issues. **ACTION:** Dugger will provide a MFR after testing different methods to reduce vibration. **STATUS:** *Dugger reported the engineers are doing a redesign of the adjustment wheels. The rods*

*are on downward pressure. That seems to have reduced vibration but not eliminated it. This will be a follow up for next month.*

- 3.1.3. [May 14] MCN mechanical screen sweep. **ACTION:** Dugger will provide an update later in the summer after ETS has completed scoping alternatives.
- 3.1.4. [May 14] LWG use of JDA screens. **ACTION:** Setter will find out more details about differences between the two screens and report back to FPOM.
- 3.1.5. [May 14] LGS spill – going from manual to GDACS control. **ACTION:** Wright will provide an update to FPOM after the work is complete.
- 3.1.6. [May 14] 14LWG007. Kiefer recommended those who support the change form put together a memo that has data supporting the proposed operation for the team to review. **ACTION:** Setter will further develop a draft white paper to meet Kiefer’s request.

### 3.2. NWP Action Items.

- 3.2.1. [Apr 14] JDA ArcFlash requirements and what it means for JDA-N AWS pumps. **ACTION:** Zyndol will draft a FPP change form reflecting the new requirements. **STATUS:** *Zyndol said this is still pending. There may not need to be a change form. The Project may have a way to avoid impacting the AWS pumps. This will remain an update.*
- 3.2.2. [Apr 14] NWP BON weekly reports. **ACTION:** Project Fisheries will include differential readings in the weekly reports. **STATUS:** *Hausmann asked for clarification of what is wanted. Lorz said fish unit drawdown and raking. Wright asked if the 14BON001 triggers should be included in the weekly report. If the trigger is met, that should be included in the weekly reports.*
- 3.2.3. [May 14] Willamette Falls Locks gate operation. **ACTION:** ODFW will provide run timing information to Hausmann. Hausmann will come back to FPOM with a proposed exercising schedule.
- 3.2.4. [May 14] Oil spills. **ACTION:** Klatte will confirm the process and notification chain with Dykstra.
- 3.2.5. [May 14] TDA split flows. **ACTION:** Rerecich will piggyback TDA on the IHR trip.

### 3.3. Action items discussed later in the agenda.

- 3.3.1. [Apr 14] BON BI bridge repair schedule heads up. **ACTION:** Hausmann will draft a MOC for this item. **STATUS:** *MOC sent on 6 May. To be discussed later in the agenda.*
- 3.3.2. [Apr 14] LWG Thermal spill operations. **ACTION:** NWW will resend the FPP change form 14LWG007. **STATUS:** *completed.*
- 3.3.3. [Apr 14] Min Gen tables and coordination. **ACTION:** Klatte will discuss this with NWD and report back to FPOM in May. **STATUS:** *discussed later in the agenda.*
- 3.3.4. [Apr 14] 14JDA04. **ACTION:** NWP will work with the lamprey group (Zorich) representative to try to develop some criteria to help protect the out-migration of juvenile lamprey when dewatering units. **STATUS:** *Zorich sent a letter of response to Mackey. It is included with the supplemental docs for the May meeting.*

## 4. Updates

### 4.1. NWW Updates

- 4.1.1. MCN mechanical screen cleaner. Dugger reported the mechanical screen sweeper stopped about two weeks ago and he came upon it shortly after it stopped. He reset it and ran it a couple of cycles. MCN hasn’t seen a problem with it since. The only back-up is the bubbler system. The bubbler system cannot keep up with heavy debris loads. Dugger is looking for a drawing of the bubbler system and will provide that. Fredricks said this sounds like a serious issue and would like to be included in the re-design. Fredricks asked how often the mechanical sweep runs. Dugger said the rectangular brushes run every two hours right now but if debris increases it will run once an hour. Setter said the re-design is in the preliminary phase. Regional input would be asked for in about a year. Setter said right now they are looking at

alternatives of redesign v new build. **ACTION:** Dugger will provide an update later in the summer.

**4.1.2.** LWG use of JDA ESBSs. Setter reported the results of the last gateway dipping were not much different than the previous gateway dipping test. Setter said descaling ranges were in the 1-2%. When the screens were used in the A slot, the descaling was around 4%. Setter asked if FPOM is comfortable with the screens or will summer testing be required. Lorz said no. He feels the screens are doing as well, if not better, than the original LWG screens. Lorz asked if there were plans to put them in A slot. Setter said no, but the Project uses these screens as spares. If a screen is OOS in B or C slot, then the JDA ESBSs can be used but the question will come up if an A slot screen goes down, can the JDA screens be used. Setter said just using smolt monitoring descaling data might not be appropriate for determining if the descaling is coming from the screens. Fredricks said testing is intensive and hard on fish so if we do not need to test, we shouldn't. Bettin said if the A slot has more flow and the JDA screens has more open space then maybe these are better. Fredricks said more open space may not be a benefit since it could create more hot spots. He would like to know the percent difference in porosity between the new and the old screens. **ACTION:** Setter will find out more details about differences between the two screens and report back to FPOM. Lorz suggested if a screen goes in A slot, LWG should let FPOM know so we could evaluate the need for more testing. Fredricks asked about using the JDA screens as permanent B and C slot screens and using the old B and C slot screens as spares, which could go in any slot if needed. **FPOM agrees the JDA screens can safely go in B and C slot. If a screen goes in A slot, then FPOM will be notified.**

**4.1.3.** LWG RTS Fish Pump #3 – Returned to Service April 21.

**4.1.4.** LGS spill. Wright reported the Project is putting the spill gates on GDACS. This requires some testing. It will not change the spill volume but it will change the pattern for three days next week. Lorz and Moody expressed concerns about the timing. **FPOM recommends delaying the testing a week and doing it after 1300.** Wright came back and reported there is no flexibility in the schedule so this work will be done 13 – 15 May. Hevlin said this will not have an impact to adults but will have a potential to impact juvenile egress. **FPOM expressed concerns about the delay in bringing this to the group and overlaying this work with the peak of juvenile spring migration.** **ACTION:** Wright will provide an update to FPOM after the work is complete.

## 4.2. NWP Updates

**4.2.1.** BON Unit 11 update. RTS schedule is still set for December 2014. PH2 units currently OOS include 11 and 15.

**4.2.2.** BON U13 Priority. Hausmann said U13 is showing wobble at start up and shut down but not so much during operation. He would like to have it move up in priority so the unit isn't on/off as much. **FPOM is ok with moving it up in priority but will revisit this in June.**

**4.2.3.** BON pinniped update. No catches this week. Most stellar have left BON. 15 California sea lions have been removed, many new young animals. 21 California sea lions have been branded. There are about three sea lions still up at TDA.

**4.2.4.** Fish counts. 6600 on 7 May with a daily peak of 18,000.

**4.2.5.** BON TIES removal. The contractor will cut up the TIES, remove the old fish lab pipes, and the unused PH1 JMF aluminum flume. **FPOM concurred.**

**4.2.6.** WFL steelhead salvage. Hausmann reported the Locks are in caretaker status. The seven gates are exercised monthly. This allows fish to pass through into the pools. Meyer said you should not exercise the gates when fish are there. He said this is the first time he has seen steelhead spawning in the locks. Fredricks asked what the proposed schedule might be. Hausmann said the exercising could be reduced but not eliminated. Kostow said the wild fish are not passing in the fall so that would be a good time to exercise the gates. August through November would be good months

for operating the gates. Hausmann said this is a monthly exercise. Conder asked if the operation could be done at night for December – July. **ACTION: ODFW will provide run timing information to Hausmann. Hausmann will come back to FPOM with a proposed exercising schedule.**

**4.2.7.** JDA U2 draft tube. The Project found too many fish in the draft tube so they are going to pull tail logs, spin the unit, and then dewater it next week. This is no longer a potential coordination issue.

**4.2.8.** JDA oil spills. Lorz asked about the oil spill reported. Zyndol said there were fewer fish on the Oregon side but that was probably due to a lack of flow not the oil spill. Lorz asked about the reporting procedures. Klatte and Setter explained the process. Lorz will talk with Dykstra about getting on the email distribution. Van Dyke asked about the timeline for reporting. Klatte said it is nearly instantaneous once a spill is found. It goes through District ECC and then out to States, EPA, etc. Cordie asked if NWD expects Projects and Districts to notify each other. Klatte said he thought it all came from Dykstra. **ACTION: Klatte will confirm the process and notification chain with Dykstra.**

**4.3.** Research/FFDRWG updates. Approval letters, permits, etc located at [www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/NWP%20Research/Research.html)

**4.3.1.** FGE mods. Rerecich reported the flow control plate is in Unit 15. Unit 15 is OOS so it is no longer available for testing. If the unit returns to service in time, there may still be some testing that could be completed but the high flows will be missed. Getting the high flow data points may have to wait until spring 2015. This could be a substantial setback though. Unit 14 testing at high flows will occur in June. This was previously coordinated.

**4.3.2.** CRITFC AFF PIT tag detector. (J. Fryer) Postponed until June.

**4.3.3.** LWG research reported fish mortalities. More details will be provided in a MFR.

**4.4.** RCC update.

Project	Previous day average (kcfs)	5 day forecast average (kcfs)	10 day forecast average (kcfs)
LWG	93	86	100
MCN	280	279	301
BON	307	296	315

**4.5.** Lamprey updates.

**4.5.1.** MCN Lamprey entrance vibration issues. Dugger reported the engineers are doing a redesign of the adjustment wheels. The rods are on downward pressure. That seems to have reduced vibration but not eliminated it. This will be a follow up for next month.

**4.5.2.** BI & CI LPS count logger & telecom work still needed. Traylor coordinated a lift for this on 6 May. Redundant impedance counters have been installed at BI & WS AWS exit pipes. Two counters: Smith Root impedance & mechanical paddle counters with new waterproof event loggers.

**4.5.3.** BON LFS/LPS. As of 5 May: U of I has installed the last 3 boxes (rest, upwelling, and trap). Schloser Metal fab in Hood River is tweaking one section of the LPS that was puddling water. One of two pumps was installed but we're waiting on electricity. Start up deadline is May 15th.

**4.5.4.** Lamprey counts. Lorz asked if there is a consolidated place to get counts. FFU is looking into ways to get more real-time counters for lamprey.

**4.6.** Avian.

**4.6.1.** MCN sprinkler has been working since the performance testing started.

**4.6.2.** Fredricks asked for an update on the avian plans. Setter said Fone is replacing Plummer at IHR. Plummer is retiring. The Avian Task Group needs to plan another meeting and address updated monitoring and hazing plans. Teleconference scheduled for 1300 on 13 May.

**4.7.** Critical Infrastructure. Presentation of the spreadsheet to occur in summer 2014.

4.8. BPA updates. No updates.

5. **Expectations of RIOG vs FPOM in relation to development of the FOP.** After a fair bit of hazing regarding whether or not everyone has seen the FOP... Klatte explained the FOP is a RIOG document. FPOM was advised to talk to their RIOG rep if they have concerns about the document. ODFW is disappointed with this topic.

6. **Coordination/Notification forms (need concurrence).**

6.1. **14 IHR 003** Ice Harbor Ogee & Deflector Modification. Lorz and Conder said they didn't see any change to the unit priority in the updated MOC. **FPOM recommends moving Unit 6 to the end of the priority list. Approved with the unit priority change recommended above.**

6.2. **14TDA04** EFL AWS excavation. ODFW had concerns about the timing. Van Dyke said the timing overlays with the sturgeon spawning timing. Cordie said the test digs are over 50' from the shoreline of the cul de sac. Rerecich said this action will have minimum impacts due to the short duration. Rerecich said he felt the project may be negatively impacted if there is continued delay. **FPOM recommended the first week of June.** There were concerns about where vibration is going to be measured. Cordie said there will be measurements at the Junction Pool wall, above the water line.

6.3. **14TDA05** EFL AWS BRZ flows. **FPOM is ok with this work as long as the second survey occurs in the first week of August or in November. Later in August isn't approved.**

6.4. **14BON08** BI bridge overlay. Fredricks suggested halting bay 18 attraction flow and delaying work until after daylight to allow fish to pass or not work weekends. PH2 will be the priority powerhouse. Fredricks also noted he would like to see the fish numbers broken out by species.

7. **Fish Passage Plan:** The 2014 FPP website is at: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2014/index.html>.

7.1. The following updates have been posted after printing the Final 2014 FPP:

7.1.1. BON. Spill pattern Table BON-17 modified to show values in feet rather than gate stops.

7.1.2. TDA. Spill pattern Table TDA-6 reformatted; values to 1 decimal point.

7.1.3. LGS. Corrected table numbers in text of sections 2.11 and 2.3.1.2.g. The spill pattern table numbers changed in 2014 when Table LGS-6 was deleted, but the text referring to the tables was not updated.

7.2. Pending change forms - 2014:

7.2.1. **14BON001-** PH2 Mid-Range Operation. Approved in the task group on 7 May 2014. **Approved at FPOM on 8 May.** Hausmann expressed concerns about scheduling his biologists to be at work during times when the information would need to be collected.

7.2.2. **14LWG007 -** Alternative Operations for Adult Passage. Setter said NWW looked at alternatives including getting big pumps to get cooler water from deeper in the forebay; using diffuser 14 however the intake is at 10' and the cooler water is deeper so that won't help. The third option is to look at Hevlin's suggestion of finding operational changes. Kiefer said he saw no evidence that the U1 operation increased overall passage. He said the U of I draft memo showed that during the period of passage issues, fish enter the ladder and then turn around and leave on average multiple times before passing. The U1 operation may improve ladder entrance but those fish don't appear to be passing. Kiefer said it may be better to let the fish hold below the ladder until water in the ladder cools enough to allow fish to pass. Kiefer also said he prefers to have multiple in-season calls to adjust to real time conditions rather than putting procedures in the FPP to be implemented without further coordination. Kiefer noted there was a hypothesis last year that a heavy unit operation might pull enough cool water to the diffuser 14 intake to allow cooler water to be in the ladder. He said if anyone has that data he might reconsider, but until then he doesn't support the change form. Setter clarified the hypothesis wasn't

to pull cool water to the diffuser intake but to allow for mixing in the tailrace and a better ladder entrance condition. She also noted that there were days when the water was cooler in the ladder and there still wasn't passage. Bettin added that 2013 was a difficult year because of the roof repair work and the abnormal operations. He asked if there is temperature data for years earlier than 2013. Setter said the issues arose in July with the sockeye passage, the roof repair was later in the summer. Wright said once the pumps were turned on, and especially pumps with U1, seemed to show the best improvement. Conder concurred and said the count data seemed to show a beneficial effect. Van Dyke said the approach was haphazard last year, it wasn't a fully thought out approach. Lorz tried to claim he didn't say U1 wouldn't work but Conder has a memory like an elephant and rebutted that he clearly remembers Lorz commenting "Oh my Trevor's idea of using Unit 1 actually worked." Hevlin stressed that the goal is to reduce temperatures to get fish to move. Conder said the data we have is mostly anecdotal but it seems to indicate a benefit. The University of Idaho draft report has errors and is missing information but it is a preliminary collection of data for the operation from 2013. Kiefer recommended those who support the change form put together a memo that has data supporting the proposed operation for the team to consider.. **ACTION: A draft white paper to meet Kiefer's request will be developed and distributed.**

**7.3. Pending change forms - 2015:**

**7.3.1. 15LGS001 – Unit 5 Restricted Operation (draft in development)**

**7.3.2. 15MCN001 – No night-time flow reduction at Oregon fish ladder entrances.**

**Approved.**

**8. Task Group Updates.**

**8.1. TDA split flows.** (Cordie) Team members include: Bettin, Cordie, Fredricks, Klatte, Lorz, Mackey, Rerecich, Stansell, Wills. Met on 10 April, after FPOM. PM-E working on a 1-pager for SRWG. Is a model trip necessary? Cordie doesn't think an ERDC trip is necessary. Fredricks believes the ERDC trip would be valuable. He would like to see how far downstream egress flows go. Cordie said he figured two scenarios: 10K or 20K with flow through two bays. Fredricks said he isn't sure how far downstream the spill carries. Fredricks said he is going to be at ERDC for IHR so NOAA doesn't need travel funds. Lut asked when TDG limits are reached. Fredricks said around 25K. He doesn't want to do a treatment test; he would rather do an operation test. **ACTION: Rerecich will piggyback TDA on the IHR trip. Will meet prior to the ERDC trip.** Fredricks said he has a new change form to send to the group once it goes through internal review.

**8.2. BON Ops group.** (Lorz). Meeting scheduled for 7 May at 1300. We will meet at CRITFC to update/review FPP change form 14BON001. Updated form will be re-submitted for approval. **ACTION: NWP will find out the due date for the PNNL report.** The report is expected in three weeks. This task group may now disband.

**8.3. Avian task group.** (NWW). Team members include: Cordie, Dugger, Fone, Fredricks, Hausmann, Madson, Roberts, Setter, Skidmore, Trachtenbarg, Zorich, and Zyndol. Meeting held on 13 March. **Need to approve March meeting minutes.** Next meeting is scheduled for 13 May 2014 as a conference call.

**8.4. AFF mods (Rerecich).** Team members include: Benner, Fredricks, Lorz, Mackey, Meyer, Rerecich, Royer, Stephenson, Traylor, and Whiteaker. Appendix G will be modified to reflect the recommended raking level and the recommended water elevation.

**8.5. Sea Lion task group.** (Stansell). Team members include: Conder, Cordie, Fredricks, Hausmann, Mackey, J. Skidmore, Whiteaker, Van der Leeuw.

**9. Other**

**9.1. JDA U3. Return to service on 31 May.**