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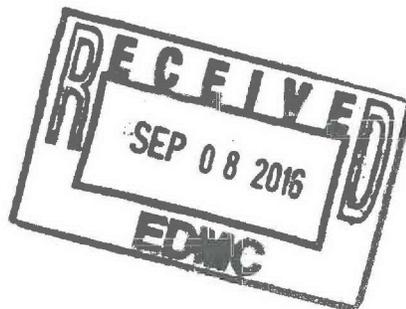
Meeting Minute Approval Sheet

**222-S Project Managers' Meeting
And Miscellaneous Laboratory Issues
(TSD: TS-2-1; Operating Unit 8)**

Ecology Offices, 3100 Port of Benton Blvd.

May 18, 2016

9:00 am – 10:00 am



DOE: *Lori Huffman*

Lori Huffman

8/17/2016

Date

ECOLOGY: *Elis Eberlein*

Elis Eberlein

8/17/2016

Date

TS-2-1

MEETING MINUTES

Page 1 of 2

Meeting Attendees:

See Attachment 1 for the list of attendees.

Agreements, Commitments, and Action Items:

[Meeting minutes from the 2/17/16 meeting were signed after this meeting and added to the administrative record.] See Attachment 1 to the 2/17/16 meeting minutes for the list of Action Items and Parking Lot Items.

Two actions were closed, one action remains open, and one new action was created during this meeting. The status of each action was reviewed as follows:

- **Action Item #1:** WRPS to provide a brief synopsis of the condition of Tank 103. Synopsis will include statement about the condition the tank was left, knowledge of the contents/heel, DOE/Ecology communications, and agreements.
 - **Status:** WRPS provided a synopsis. Analytical data for a Tank 103 sample was also located. See attachment.
- **New Action:** WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.
- **Action Item #2:** WRPS to provide a brief synopsis of the status of the piping staged in the T-8 tunnel alcove. Synopsis will include information about the flushing of the pipes, DOE/Ecology communication and agreements.
 - **Status:** Action confirmed CLOSED
- **Action Item #3:** WRPS to provide the most recent 207-SL sample analysis results to Ecology.
 - **Status:** Action confirmed CLOSED
- **Action Item #4:** Ecology to review the synopsis of the status of piping staged in the T-8 tunnel alcove and determine a permitting path forward.
 - **Status:** Action OPEN

222-S TSD or Miscellaneous Issues:

The following miscellaneous issues were discussed:

- WRPS provided a briefing on the 222-SE (EF-4) engine replacement. The engine is not yet put in operation. Vibration problems when the fan is engaged have been encountered during testing. A parallel path approach is being worked. The engine will be realigned

and tested. A skid plate is also being fabricated to allow engine alignment and will be installed if needed.

- On March 23, 2016 a notification (TOC-ENV-NOT-2016-4220) was provided to Ecology regarding a container pressurization and rupture within a Satellite Accumulation Area (SAA) in a fume hood. WHL provided a summary of the incident and the measures taken to prevent recurrence. The summary is provided with the Analytical Report in Attachment 1.
- Ecology inquired about the Operator Aid conversion process to Multiple Procedure Chemical Compatibility Review (MPCC) process that will be used for combining compatible waste streams in SAAs. WHL and WRPS related that that the new process is being tested and that Ecology approval is not considered necessary since the term of the 222-S settlement agreement (which specified how waste compatibilities were to be conducted) has expired.
- WRPS announced a reorganization within the Waste Services organization at 222-S resulting in creation of a 222-S Waste Operations Manager position to allow for greater coordination of waste designation and management at the laboratory.

222-S RCRA TSD Permit Issues:

- Ecology related that there have been no further developments since the last PMM (February 2, 2016).

222-S Laboratory Operations and Analytical Status:

Analytical and Operational reports are attached to these minutes.

Next Meeting:

July 20, 2016 (postponed to August 17, 2016)

3100 Port of Benton Blvd.

9-10 am

Attachment 1

1. Agenda
2. Attendance Roster
3. 222-S Lab Operations and Analytical Reports
4. Action Items/Parking Lot Items
5. Tank 103 Summary

222-S Project Managers Meeting
And Miscellaneous Laboratory Issues
Washington State Department of Ecology Offices
3100 Port of Benton Blvd., Richland, WA

May 18, 2016

Agenda

1. Introductions
2. Approval of Previous Meeting Minutes
3. Agreements, Commitments, and Status of Action Items
4. 222-S TSD or Miscellaneous Issues
5. 222-S RCRA TSD Permit Issues
6. 222-S Laboratory
 - a. Operations Report
 - b. Analytical Report
7. Review of New Action Items

Meeting held on May 18, 2016

Attendance Roster

Name	Affiliation	Contact
Eric Van Nieuw	WRPS	373-7438
Jacob Johnson	WRPS	373-3847
Alan Turner	WRPS	373-3173
Rob Schroeder	WHL	373-5810
Eli Eberlein	Ecology	372-7906
Jef Szwarc	ORP	373-9179
Kath Stenograph	WRPS	373-9541
Tanner T. Hawthorn	WRPS	373-1411
Lucinda Roman	WRPS	373-3821
Rana Evans	ORP	376-7889

WRPS Operations/Analytical Report
February 18 – May 17, 2016

Activities of Note	
Operational Activities	Date
Performed sampling of the 207-SL retention basin to support future transfers to the Treated Effluent Disposal Facility.	2/22/16
Performed ground scan around MO-037 for disposal of mobile office.	3/3/16
Disassembled EF-4 drive coupling for alignment verification.	3/4/16
Issued WRPS-1601078 "Boildown Test Interim Report: 242-A Evaporator Campaigns EC-04 and EC-05."	3/8/16
Cleaned & inspected Room 2B Hood 16 strainer to allow waste transfer to 219-S tank.	3/14/16
Replaced Backflow Preventer for the RO water system which supplies demineralized water to the lab.	3/24/16
Received approval of Baseline Change Request for the installation of the Exhaust Fan #4 diesel engine.	3/29/16
Repaired water leak on the HVAC chilled water makeup line.	4/14/16
Completed replacement of belts on primary exhaust fan #1	4/20/16
Completed quarterly testing of the public address system.	4/28/16
Completed HEPA filter and flow testing of the 296-S-16 exhauster and 296-S-23 exhauster. These supply ventilation to the 219-S tank headspace and sample hood.	5/16/16

FY2016 222-S Laboratory Upgrades	
EF-4 Diesel Engine Installation: Engine installation re-work is in progress.	Status as of 5/16/2016
Freight Elevator Upgrade: Planned for FY16	
TVAT instrument installations: Instrumentation will be installed to support increased vapor analysis.	
MO-037 Demolition: Planned for FY16.	
New Non-Rad Standards Laboratory: Design is in progress and to be complete in FY16.	

Analytical Equipment

FY2014 Carryover:

- Inductively Coupled Plasma/Optical Emissions Spectrometer (ICP-OES): Instrument installation is complete.
- Automated Solvent Extractor (ASE): Due to the need to install a larger hood, instrument installation is planned for FY16.

FY2016:

- Cold Vapor Atomic Absorption Spectrometer (WHL Inorganic IH work) has been received. Installation planned for FY'16.
- (2) Multipotentiostats (WRPS Corrosion testing): Both units has been received. Installation is planned for FY16.
- Gas Chromatograph/Mass Spectrometer (WRPS Organic IH work). Unit has been received. Installation planned for FY'16.
- Liquid Scintillation Counter (WHL Radiochemistry): Instrument received. Installation to be complete 5/18/16.

Waste Shipments

<i>Waste Type</i>	<i>Containers Shipped from 2225 (11/18/15 - 5/16/16)</i>	<i>Receiving Facility</i>
LLW	61	PFNW
DW	76	Stericycle
MW	32	PFNW
Recycle	33	CCRC

LLW: Low-level radioactive waste

DW: Dangerous Waste (non-radioactive Dangerous Waste)

MW: Mixed waste

Wastren Advantage, Inc. Hanford Laboratory (WHL)

Analytical Report – April 2016

Report on Time Deliverables

In Calendar Year 2016, to date 100% of deliverables have been reported on time (95 deliverables were on time or early).

PEMP ON-Time Deliverables Metric for FY 2016				
Status as of 5/10/2016				
Detail by Month				
Month Delivered	Completed Deliverables	On-Time or Early	Late	Percent On-Time
1st Quarter	61	61	0	100.00%
January	15	15	0	100.00%
February	18	18	0	100.00%
March	28	28	0	100.00%
2nd Quarter	17	17	0	100.00%
April	12	12	0	100.00%
May	5	5	0	100.00%
FY 2016	95	95	0	100.00%

QA Evaluations/Proficiency Tests:

The total number of analyses performed since start of the contract is 425 with 408 being acceptable, resulting in 96% performance level.

Study Summary Results				
Report Date	Study	Reported	Correct	Study %
11/24/2015	MRAD23	47	47	100.00%
12/2/2015	MAPEP-33	53	48	90.57%
12/7/2015	SOIL92	125	125	100.00%
12/15/2015	BePAT-39	4	4	100.00%
2015 Total:		229	224	97.82%
2/16/2016	RHPAT - 204	12	0	0.00%
3/7/2016	WFP252	169	169	100.00%
4/15/2016	BePAT 40	3	3	100.00%
4/15/2016	RHPAT 204 Re-Test	12	12	100.00%
2016 Total:		196	184	93.88%
Report Total:		425	408	96.00%

Holding Time Performance:

The holding times metric for calendar year 2016 is 99.8% as of May 10, 2016.

PEMP Holding Time Metric or CY 2016 Status as of 5/10/2016 Detail by Month				
Month Performed	Total	Met	Missed	Met
1st Quarter	690	690	0	100.00%
January	314	314	0	100.00%
February	120	120	0	100.00%
March	256	256	0	100.00%
2nd Quarter	223	221	2	99.10%
April	202	200	2	99.00%
May	21	21	0	100.00%
FY 2016	1059	1057	2	99.81%

Projects in Progress

- NH3 & Hg Vapor Tubes
- 2016 Headspace
- AN101 Grab 2016-04
- C102 CLO

- AY101 Evap
- C Farm (Vadose)
- AP102 Grab
- AX Farm Caustic Demand
- C105 Solids
- SY103 Core

30-Day Forecast

- AP107 Core
- AP107 Chemistry Control
- AZ301 Catch Tank

Chemical waste container over-pressurization –

On March 21, 2016 a glass bottle containing approximately 1 liter of mixed waste was discovered broken inside a satellite accumulation area fume hood in room 4L. The majority of the container contents flowed onto the fume hood floor where it dried over the weekend prior to discovery. There was no evidence of waste flowing outside of the fume hood containment. The waste was generated as part of a Tc-99 extraction process. The cause of the breakage was determined to most likely be overpressurization caused by reaction of organic solvent and acid. The analytical process includes mixing of the organic solvent with acid. The residual organic solvent is separated from the waste container prior to waste storage. This was an isolated event associated with a method performed thousands of times for over 20 years without such an event.

WHL has taken a couple of corrective actions to prevent recurrence. First, the broken bottle contained waste from a trainee's proficiency standards and it was later capped and bagged by the same trainee. The trainee did not adequately remove the organic waste before capping the bottle. Second, the procedure instructions were revised to require full bottles to be vented and stored in a secondary container until disposed to allow for any incomplete reaction gas to evolve safely.

222S TSD TPA PMM
Action Items and Parking Lot Items

<i>ACTION ITEMS</i>			
#	Action	Due Date	Status
5	WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.	-	New Action
4	Ecology to review the synopsis of the status of piping staged in the T-8 tunnel alcove and determine a permitting path forward.	-	OPEN
3	WRPS to provide the most recent 207-SL sample analysis results to Ecology.	2/17/16	CLOSED
2	WRPS to provide a brief synopsis of the status of the piping staged in the T-8 tunnel alcove. Synopsis will include that statement about the flushing of the pipes, DOE/Ecology communication and agreements.	2/17/16	CLOSED
1	WRPS to provide a brief synopsis of the condition of Tank 103. Synopsis will include statement about the condition the tank was left, knowledge of the contents/heel, DOE/Ecology communication, and agreements.	4/20/16	CLOSED

<i>PARKING LOT ITEMS</i>		
#	Action	Resolution
PL1	Revise permit text regarding Tank 103 to better describe why Tank 103 is being left in place until Closure.	To be resolved during Permit Working Group meetings

Tank 103 Summary

219-S Tank 103 has been isolated and taken out of service. Samples of the tank contents were taken for RCRA closure purposes. On May 11, 1999 Tank 103 contents were transferred to tank farms and a 500 gallon water flush was performed to reduce dose for isolation activities. A heel of 19.6 gallons remained in tank 103 after transfers were complete. Isolation activities included disconnecting all piping and installing a pressure relief valve on a riser.

Supporting Correspondence and documents

Date	Reference	Content
1/20/1999	TPA Change Request Form, M-32-01	Requests change to extend deadlines for milestone due to resolving PCB issues. Includes statement: "Completion of this interim milestone will include the removal of tank 103 from service. The tank waste inventory will be transferred to another tank. A small residual heel will remain (<1% of tank capacity). Tank 103 will be isolated and the heel allowed to evaporate to dryness. All service piping will be removed and a pressure relief valve installed. RCRA closure of tank 103 will not take place until RCRA closure of the 219-S Waste Handling Facility."
2/11/1999	Jaraysi to Sanders, Re: Change Control Form M-32-98-01, 219-S Construction Upgrade Schedule Revision, Interim Milestone M-32-02	Ecology concurs with request to delay final closure of Tank 103 to coincide with final closure of the 219-S facility. Ecology requests formal notification of when Tank 103 field activities are complete.
4/2/1999	Ecology letter 9952354	Ecology specifies sampling and analytical protocols for the Tank 103 sample prior to final transfer.
4/29/1999	W-187 Project Ecology Interface Meeting Minutes	Mentions plans for flush of Tank 103 prior to isolation to reduce dose during isolation activities. A sample will be taken prior to the 500 gallon flush and results placed in the operating record. Ecology agrees a sample post-flush is not necessary. Final transfer will occur after May 6, 1999.
5/5/1999	Tank 103 analytical results	The RCRA protocol sample specified in previous correspondence was logged in on 5/5/1999. Analytical results available.
5/11-12/1999	219-S daily surveillance sheets	Shows the final rinse and transfer of tank 103. Tank 103 was pumped down to a level of 19.6 gallons before being removed from service.
6/28/1999	99-EAP-361	Letter formally notifying Ecology of completion of M-32-02 including completion of all field activities necessary to isolate Tank 103. Attached: Official Acceptance of Construction.
	Drawing H-2-827566	Piping plan for Cell B showing Tank 103 isolation.