

Meeting Minute Approval Sheet

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

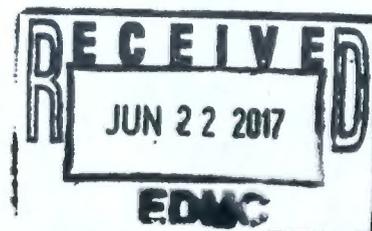
Ecology Offices, 3100 Port of Benton Blvd.

August 17, 2016

9:00 am – 10:00 am

DOE: *Lori Huffman* 10/19/2016
Lori Huffman Date

ECOLOGY: *Elis Eberlein* 10/19/2016
Elis Eberlein Date



MEETING MINUTES

Page 1 of 2

Meeting Attendees:

See Attachment 1 for the list of attendees.

Agreements, Commitments, and Action Items:

See Attachment 1 to the 5/17/16 meeting minutes for the list of Action Items and Parking Lot Items.

Two actions remain open. The status of each action was reviewed as follows:

- **Action Item #1:** WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.
 - **Status:** Action OPEN.

- **Action Item #2:** 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 work to replace the P-1 pump in the 219-S waste handling facility. The pump failed during an attempt to transfer Tank 102 contents to SY Tank Farm. The pump will need to be replaced and a work package to perform an investigative survey of the tank vault is in progress. The survey is expected to occur in September or October 2016.

- WRPS provided information on a crack that developed in the ventilation ductwork near fan EF-3. The EF-3 fan was shut down as a precaution, a repair patch was installed, and the fan was returned to service. WDOH was notified and visited 222-S to inspect the response and corrective actions.

- WRPS provided a briefing on a treatability study that was initiated at 222-S in August. The study is related to the Test Bed project and involved compositing several tank waste supernate samples, filtering for solids, and performing ion exchange to remove cesium. The treated waste is then planned for shipment to Permafix Northwest for solidification.

- WRPS provided information on an issue with the 11A hot cell supply damper. Following a power outage at 222-S, the air inlet supply damper on the 11A hot cells failed in the

closed position, resulting in restriction on hot cell use. Planning is underway to modify the damper to allow manual operation and restore the hot cells to use.

222-S RCRA TSD Permit Issues:

- Ecology discussed that they would host a workshop regarding the 222-S Part A. They related that this meeting would initiate a series of workshops where each Addenda would be evaluated with respect to the criteria provided in the relevant Conceptual Agreement Packages (CAPs) for each Addenda. Ecology stated they would send out comments on the Part A prior to the workshop.

222-S Laboratory Operations and Analytical Status:

Analytical and Operational reports are attached to these minutes.

Next Meeting:

October 18, 2016

3100 Port of Benton Blvd.

9-10 am

Attachments - 1

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

August 17, 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 August 17, 2016

Attendance Roster

Name	Affiliation	Contact
Eric Van Mason	WRPS	373-7438
Jacob Johnson	WRPS	373-3847
Joe Sondag	ORP	373-9179
Rob Schroeder	WHL	373-5810
James T. Hamilton	WRPS	373-1511
Jaff Cheadle	ORP	376-0755
Keith Greenough	WRPS	373-9541
Elis Eberlein	Ecology	372-7906
Ed Soto	Ecology	372-7933
Lucinda Borrerman	WRPS	373-2821

WRPS Operations/Analytical Report
May 17, 2016 – August 17, 2016

Activities of Note	
Operational Activities	Date
Completed installation of new Liquid Scintillation counter.	5/18/16
Removed Gas Chromatograph Mass Spectrometer from Lab 4-TUV to provide space for an instrument upgrade.	5/23/15
Performed flushing of liquid waste transfer lines from 1-A, 1E and 1-F hotcells to 219-S storage tank 104	6/7/16
Completed replacement of a new Gas Chromatograph Mass Spectrometer in lab 4-TUV.	6/8/16
Calibrated differential pressure instrument for the 296-S-16 stack HEPA filter, supporting 219-S tank ventilation system.	6/21/16
Issued WRPS-1602704, "Boildown Test Interim Report: 242-A Evaporator Campaign EC-06"	6/24/16
Completed temporary liquid nitrogen installations on analytical instruments. Temporary installations are needed due to the lack of freight elevator availability during the upgrade.	6/24/16
Completed installation of a new Cold Vapor Atomic Absorption instrument, utilized for Mercury analysis in Lab 2B-2.	6/28/16
Completed proof of concept for replacement of the 11-A hotcell #2 wall plug. The shield plug replacement is prerequisite to upgrading the potentiostat used for corrosion analysis of tank waste samples.	6/28/16
Completed annual sample probe inspection for the 296-S-21 (222-S Main) stack. Annual visual inspection is a permitting requirement.	6/28/16
Completed room lighting upgrades for labs 1-E, 1-F and 1G-C.	7/5/16
Completed 296-S-21 stack flow and HEPA filter buildings 222-SB and 222-SE testing.	7/12/15
Completed 219-S cell lighting repairs in preparation for P-1 pump replacement entries.	7/19/16
Completed set up and initiated operation of the Industrial Hygiene laboratory located in MO-648	7/28/16
Completed installation of new gas Chromatograph/Mass Spectrometer in lab 11-A. This instrument supports the TVAT program.	8/5/16
Performed calibration of 296-S-21 stack sampler components.	8/5/16
Completed removal of mobile office MO-037 sections.	8/10/16
Completed installation of sun shades for the 222-S substation capacitor banks.	8/12/16

FY2016 222-S Laboratory Upgrades	
EF-4 Diesel Engine Installation: Engine is installed and nearing turnover for operation.	Status as of 8/16/2016
Freight Elevator Upgrade: Construction has begun.	
TVAT instrument installations: Instrumentation will be installed to support increased vapor analysis.	
MO-O37 Demolition: Complete.	
New Non-Rad Standards Laboratory: Design is in progress and to be complete in FY16.	

Analytical Equipment
<u>FY2014 Carryover:</u>
<ul style="list-style-type: none"> Automated Solvent Extractor (ASE): Due to the need to install a larger hood, instrument installation is planned for FY17.
<u>FY2016:</u>
<ul style="list-style-type: none"> Cold Vapor Atomic Absorption Spectrometer (WHL Inorganic IH work). Installation is complete. (2) Multipotentiostats (WRPS Corrosion testing): Both units has been received. One installation is complete. The other installation is planned for FY16. Gas Chromatograph/Mass Spectrometer (WRPS Organic IH work). Installation is complete. Liquid Scintillation Counter (WHL Radiochemistry): Instrument received. Installation is complete.

Waste Shipments		
Waste Type	Containers Shipped from 222S (YTD)	Receiving Facility
LLW	83	PFNW
DW	119	Stericycle
MW	35	PFNW
Recycle	41	CCRC

LLW: Low-level radioactive waste
 DW: Dangerous Waste (non-radioactive Dangerous Waste)
 MW: Mixed waste

Wastren Advantage, Inc. Hanford Laboratory (WHL)

Analytical Report – August 2016

Report on Time Deliverables

In Calendar Year 2016, to date 99.81% of deliverables have been reported on time (1542 deliverables were on time or early).

On-Time Deliverables Metric for FY 2016 Status as of 7/31/2016 Detail by Month							
	Jan	Feb	Mar	Apr	May	Jun	July
Monthly Totals	20	18	28	15	31	22	26
CY2016 Total	20	38	66	81	112	134	160

QA Evaluations/Proficiency Tests:

The total number of analyses performed in FY 2016 is 452 with 427 being acceptable, resulting in 94.47%% performance level.

Study Summary Results Status of 7/32/2016 Detail by Month						
Report Data	Study		Reported	Correct	Study %	
2/6/2016	IHPAT -204		12	0	0.00	
3/7/2016	WP252		169	169	100.00%	
4/15/2016	BePAT 40		3	3	100.00%	
4/15/2016	IHPAT 204 Re-Test		12	12	100.00%	
5/17/2016	MRAD24		43	43	100.00%	

6/6/2016	SOIL94		164	164	100.00%	
6/7/2016	MAPEP-34		49	36	73.47%	
	2016 Total		452	427	94.47%	

Holding Time Performance:

The holding times metric for calendar year 2016 is 99.8% as of July 31, 2016.

Holding Time Metric for CY 2016				
Status of 7/31/2016				
Detail by Month				
	Total	Met	Missed	% Met
January	314	314	0	100.00%
February	118	118	0	100.00%
March	245	244	1	99.60%
April	188	186	2	98.90%
May	162	162	0	100.00%
June	273	273	0	100.00%
July	98	98	0	100.00%
FY 2016	1544	1541	3	99.81%

Projects in Progress

- NH3 & Hg Vapor Tubes
- AN101 Floating Solids APD
- AP102 Grab
- C105 Solids
- AZ301 Catch Tank 2016-05
- Airborne Rad Filter
- C111-CLO
- Separable Organics
- 2B2 Suspect Gloves
- 222-S Elevator Oil Sample
- SY103 Core

- AL Na Phosphate Cryst.

30-Day Forecast

- IH Vapor Sampling on going
- AW-103 Chemistry Control

**222S TSD TPA PMM
Action Items and Parking Lot Items**

<u>ACTION ITEMS</u>			
#	Action	Due Date	Status
2	WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.	-	OPEN
1	Ecology to review the synopsis of the status of piping staged in the T-8 tunnel alcove and determine a permitting path forward.	-	OPEN
<u>PARKING LOT ITEMS</u>			
#	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	