

Meeting Minute Approval Sheet

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

2713 -S Conference Room 131 – Tour included

July 9th, 2019

8:00 am – 11:00 am

DOE:

Jeff Cheadle



8/26/2019

Date

Ecology:

Kelly Elsethagen



8/28/2019

Date

MEETING MINUTES

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Meeting Attendees:

- See Attachment 1 for the list of attendees.

Agreements, Commitments, and Action Items:

- Previous minutes approved, signed and submitted into the AR.
- No May meeting
- No other prior agreements

222-S TSD or Miscellaneous Issues:

- None

222-S RCRA TSD Permit Issues:

- None/ Workshop 07/10/19

222-S Laboratory Operations and Analytical Status:

Operational and analytical reports are attached to these minutes.

Keith Greenough, WRPS, discussed the operational activities performed and laboratory upgrades. Very busy quarter.

- Completed testing of 2-B sink and 1-E hotcell process water back flow preventers, which are used for rinse water.
- Completed non-destructive assay of 296-S-23 stack HEPA filter. Completed every two years.
- Performed cleaning and inspection of the strainer for 2-B Hood 16 sink. Completed annually.
- Completed annual sampling of 207-SL retention basin. Required to verify acceptance criteria for transfer to TEDF.
- Completed calibration of differential pressure instrument for 296-S-16 stack HEPA filter. Completed annual maintenance on EF-4 diesel engine.
- Completed air flow testing of 296-S-21 stack. This is the 222-S main stack.
- Completed Sampling and chemical addition of 219-S tank 102 contents.
- Completed hydrostatic leak testing of 219-S tank 102. Completed for integrity assessment.
- Completed 1E-1 and 1-F Hotcell air flow and aerosol testing. Completed annually.
- Completed quarterly Air Handling Unit 1 through 4 maintenance. Three are operating and one is on standby under normal operating conditions.
- Completed Electrical and Compressed air outage to support facility modification and preventative maintenance. Air outage was in preparation to replace 2 compressors; duration one week.
- **New Non-Rad Standards Laboratory:** Project has been placed on hold. Currently waiting on contract transition.

- **219-S Integrity Assessment:** Static pressure leak testing of 219-S tanks has been completed. T8 Tunnel and 2-B sink awaiting resources. Meier Engineering is doing the IQRPE assessment for this activity.
- **Analytical Equipment for FY 2019:** Replacement of two Ion Chromatographs- Completed. One is installed the other needs replacement part.
- Replacement Alpha Energy Analyzer scheduled for August 2019. Currently waiting on parts.
- **Analytical Equipment for FY 2020:** all on contract and on order.

Jacob Johnson, WRPS, discussed the waste shipments: Please see Waste Shipments table.

- Additionally, there are two containers of radioactive elemental mercury, which is considered mixed waste. This mixed waste has been in storage over one year.
- An additional container just surpassed the one year storage limit. This mixed waste was generated at Tank Farms, and contains absorbed gasoline.
 - Permafix Diversified Scientific Services facility in Kingston, Tennessee, cannot take the waste at this time due to changing treatment capacity limits. There is a potential in the future to ship but no known date is set. Cannot ship anywhere else due to no contracts with other facilities.
 - Contains waste codes: D001, D008, D018
 - Container is inspected weekly.
 - Currently no disposal path.
- In reference to the Tank Farms mixed waste container, Kelly Elsethagen, Department of Ecology, stated it needs to be identified in the next LDR report, along with identification of the disposal path.

Tony Scott, WHL, provided the 222-S Analytical Contractor Quarterly Report

- Discussed the small fire that took place on 5/30/19. Working with WRPS, and the Fire Department has provided report.
- Looking at an outside vendor to restore instrumentation/equipment.
- Also considering relocation of some instruments.
- May was the busiest month for deliverable packages. Completed over 5,000 analyses.
- IH samples increased due to downgrade of respiratory protection requirement from SCBA to Air Purifying Respirators.

Next Meeting:

September 11, 8 a.m. at Ecology along with workshop.

Attachment 1

1. Agenda
2. Attendance Roster
3. 222-S Lab Operations Report
4. Action Items/Parking Lot Items

**222-S Project Managers Meeting
And Miscellaneous Laboratory Issues**
222-S Complex, Bldg. 2713, CR 131, Hanford, 200 West Area, WA

July 9th, 2019

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**
 - 6.1. **Operations Report**
 - 6.2. **Analytical Report**
7. **Review of New Action Items**

Activities of Note	
Operational Activities	Date
Completed flow and aerosol testing of 296-S-23 stack.	3/19/19
Completed testing of 2-B sink and 1-E hotcell process water back flow preventers.	3/25/19
Completed non-destructive assay of 296-S-23 stack HEPA filter.	3/26/19
Performed cleaning and inspection of the strainer for 2-B Hood 16 sink.	3/28/19
Completed annual sampling of 207-SL retention basin.	4/1/19
Completed calibration of differential pressure instrument for 296-S-16 stack HEPA filter	4/3/19
Completed annual maintenance on EF-4 diesel engine.	4/15/19
Completed preventative maintenance on 222-S Primary Exhaust fans.	4/18/19
Completed air flow testing of 296-S-21 stack.	4/18/19
Completed Sampling and chemical addition of 219-S tank 102 contents.	5/6/19
Completed hydrostatic leak testing of 219-S tank 102.	5/7/19
Completed 1E-1 and 1-F Hotcell air flow and aerosol testing.	5/16/19
Completed aerosol testing of 222-SB and 222-SE filter buildings	5/28/19
Completed calibration of 219-S tank level transmitters.	5/29/19
Completed quarterly Air Handling Unit 1 through 4 maintenance.	6/4/19
Completed calibration of 296-S-16 and 296-S-21 stack sample instrumentation.	6/18/19
Completed Electrical and Compressed air outage to support facility modification and preventative maintenance.	6/19/19
Completed annual 296-S-21 stack sample probe and line inspections.	6/28/19

FY2019 222-S Laboratory Upgrades	
New Non-Rad Standards Laboratory: Project has been placed on hold.	Status as of 07/9/2019
Air Gap for potable water line: Air gap installation is needed to separate process water from the potable system. MSA water purveyor has determined that existing back flow prevention is not sufficient. Air Gap installation is scheduled to complete by September 2019.	
219-S Integrity Assessment: Static pressure leak testing of 219-S tanks has been completed. Visual inspection work packages are in planning. Field work for Integrity Assessment is scheduled to complete by December 2019.	
222-S Fire Alarm System upgrade: 90% design for replacement of the 222-S fire detection system has been completed. Final design is scheduled to complete in August 2019.	

Analytical Equipment

FY 2019:

- ICP/MS installation scheduled for July 2019. (FY-18 carry over)
- X-Ray Diffraction instrument upgrade scheduled for July 2019.
- 2 replacement Ion Chromatographs- Completed.
- GC/MS for Volatile Organic Analysis scheduled for July 2019.
- Purge and Trap for VOA scheduled for- Complete.
- Replacement or ICP/OES scheduled for July 2019.
- Replacement Alpha Energy Analyzer scheduled for August 2019.

Analytical Equipment

FY 2020

- Gamma Energy Analyzer.
- Gas Pycnometer.
- GC/MS for Semi-Volatile Organic Analysis.
- GC-ECD for Pesticide/PCB Analysis
- GC/MS with Thermal Desorption Unit (2).

Waste Shipments

Waste Type	Containers Shipped from 222S (3/13/19 –07/02/19)	Receiving Facility
LLW	40	PFNW and ERDF
DW	28	Stericycle
MW	3	Perma-Fix Northwest
MW	2	ERDF
TRU	0	CWC
Recycle	13	CCRC

LLW: Low-level radioactive waste

DW: Dangerous Waste (non-radioactive Dangerous Waste)

MW: Mixed Waste

TRU: Transuranic Waste

Wastren Advantage, Inc. Hanford Laboratory (WHL)

222-S Analytical Contractor Quarterly Report – May 31, 2019

Events of Interest

On May 30, 2019, a small fire was localized to a Gas Chromatograph configured with a Thermal Desorption Sampling Unit located inside the 222-S Laboratory Room 4TUV.

Recovery plans are underway.

Contract Performance Metrics
Report on Time Deliverables

Deliverable metric for FY 2019 is 98.9%

Monthly Completed Deliverable Packages													
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	TOTAL
FY 2019	32	21	26	21	25	33	47	61					266

QA Evaluations/Proficiency Tests:

Analytical Performance Evaluation for FY 2019 is 96.2%.

PROFICIENCY TESTING- STUDY SUMMARY RESULTS- May 2019				
Report Date	Study	Reported	Correct	Study %
Total Oct 2018		68	68	100
Total Nov 2018		177	163	92.1
Total Dec 2018		19	16	84.2
Total Jan 2019		45	42	93.3
Total February 2019		32	32	100
03/11/2019	ERA Soil 105	130	128	98.5
Total March 2019		129	128	98.5
04/11/19	ERA 022719M (WP)	88	87	98.9
04/22/19	BePAT 49	4	4	100.0

Total April 2019			92	91	98.9
05/15/19	IHPAT 217		12	12	100.0
05/17/19	Air PT- 31		16	16	100.0
05/21/19	MRAD 30	47		45	95.7
Total May 2019			75	73	97.3
TOTAL-YTD			637	613	96.2

Holding Time Performance:

The holding times metric for FY 2019 is currently at 99.1%.

PEMP Holding Time Metric for FY 2019				
Status as of 05/31/2019				
Month Performed	Total	Met	Missed	% Met
October	114	114	0	100.0%
November	182	178	4	97.8%
December	169	164	5	97.0%
1st Quarter	465	456	9	98.1%
January	122	122	0	100.0%
February	99	99	0	100.0%
March	208	208	0	100.0%
2nd Quarter	429	429	0	100.0%
April	434	432	2	99.5%
May	391	386	5	98.7%
3rd Quarter	825	818	7	99.2%
FY 2019	1719	1703	16	99.1%

Projects in Progress

- A105 Grab
- AZ-101 Grab
- AW-103 Grab
- AN-107 Grab
- EW-151 Catch Tank
- A-AX Focus
- TK102 POST

- 105-KW Settled Solids
- LERF Basin 44 Sample
- IE-911 Spent Media
- 2018 AW105 SPC
- AP-106 Corrosion Testing
- FY19 NH3 Vapor Tubes
- FY19 Hg Vapor Tubes

30-Day Forecast

- AY-101 Core
- AW-102 Grab
- A-AX Focus
- Caustic Hydrolysis (WTP effluent)
- T111 Corrosion Testing
- 2019 Jun Be Area/Source
- FY19 NH3 Vapor Tubes
- FY19 Hg Vapor Tubes

**222S TSD TPA PMM
Action Items and Parking Lot Items
07/09/2019 STATUS**

<i><u>ACTION ITEMS</u></i>			
#	Action	Due Date	Status
1	Identify Waste Container in LDR report	9/11/19	
2			
3			

<i><u>PARKING LOT ITEMS</u></i>		
#	Action	Resolution
PL1		
PL2		
PL3		

Meeting held on July 9, 2019

Attendance Roster

Name	Affiliation	Contact
Lucinda Berneman	WRPS	373-2821
maria Lopez	WRPS	maria-j-lopez@wr1.gov
Keith Greenough	WRPS	373-9541
Joe Sondak	DOE-ORP	373-9179
Don B. Hardy	WRPS	373-0364
Jacob Johnson	WRPS	373-3847
Ken Chapin	WRPS	373-4751
Jay Warwick	WRPS	373-5724
James T. Hamilton	WRPS	373-1511
Tony Scott	WHL	373-2129
Jensen Davis	ECY	372-7930
Ed Soto	ECY	372-7933
Kelly Elsethagen	ECY	372-7923
Deb Alexander	ECY	372-7896
Eric Van Mason	WRPS	373-7438

