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Meeting Minute Approval Sheet

222-S Project Managers Meeting & Misc. Lab Issues (TSD: TS-2-1)

2440 Stevens Center, Room 1200
June 14 (informational meeting)
October 11, 2007
9:30 – 10:15 p.m.

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EDMC

DOE: AJ Stevens 12/13/07
Andrew Stevens Date

ECOLOGY: 12/10/07
Deborah Singleton Date

MEETING MINUTES

222-S Project Manager's Meeting and Miscellaneous Lab Issues (TSD:TS-2-1)

Meetings held on: 6/14/07, and 10/11/07

Meeting Attendees:

See attached list of attendees.

Previous Meetings:

The June meeting was an informational meeting and no meeting minutes were taken. The Operational and Analytical reports for June are included in this report for the Administrative Record. Meeting minutes are being provided for the October meeting in this report.

Action Items:

There are no open Action Items.

222-S Laboratory TSD, RCRA Permit, or Miscellaneous Issues:

- June 2007:
  - Ecology reported that work on the 222S Unit Specific Permit is targeted to resume in December 2007 after completion of technical work on the Hanford Site wide Permit. Ecology also indicated the format of the 222S application and permit will change.
  - Ecology is working with EPA to get their comments on the Waste Analysis Plan and application.
- October 2007:
  - Ecology reported that the Site Wide RCRA Permit is targeted to undergo public comment in December 2007.
  - Ecology is working with EPA on their comments on the Waste Analysis Plan and application.

222-S Laboratory Operations and Analytical :

The Operations Report and Analytical Report were presented and are attached.

Next Meeting:

December 13, 2007	2440 Stevens, room 1200	9:30 – 10:00 a.m.

Attachments - 2

222-S Project Managers Meeting & Misc. Lab Issues (TSD: TS-2-1)

Attachment 1
June 2007
List of Attendees
Agenda
222-S Lab Operations and Analytical Reports
Handouts

222-S Project Managers Meeting & Misc. Lab Issues

2440 Stevens, Room 1200
June 14, 2007
9:30 – 10:15 a.m.

Agenda

1. Introductions
2. Approval of Previous Meeting Minutes
3. Status of Action Items
4. 222-S TSD
5. 222-S Permit Issues
6. 222-S Laboratory
   6.1. Operational and Analytical Report
7. Misc. Issues
8. Review of New Action Items

222-S Laboratory
Project Managers' Meeting
2440 Stevens, room 1200
June 14, 2007
9:30 – 10:15 am

ATTENDEES

Name	Affiliation	MSIN	Phone
Borneman, Lucinda	CH2		373-2821
Hwang, Jim	ATL		373-4414
Wallace	[illegible]		[illegible]
Hill, Barbara	CH_2		372 3076
Andy Stevens	ORP		376 [illegible]

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222-S Project Managers Meeting & Misc. Lab Issues

2440 Stevens, Room 1200
June 14, 2007
9:30 – 10:15 a.m.

Agenda

1. Introductions
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ANALYTICAL REPORT
222-S Laboratory
June 2007

- An American Industrial Hygiene Association (AIHA) accreditation better positions the laboratory to service the site cleanup and closure activities. ATL staff performed and passed all rounds of AIHA Proficiency Analytical Testing (PAT) beryllium and metals testing since April 2005. A site assessment for accreditation was performed the week of 02/12/2007, and ATL provided responses to the findings and observations on 03/30/2007, which was accepted. ATL is waiting for the Technical Advisory Panel's review and recommendation.
- ATL is initiating development of a diesel analytical procedure to support Fluor Hanford. This procedure has been requested to support a project later this summer.
- A blue user procedure for Microwave Assisted Acid Digestion for Wipes for Beryllium Analysis by ICP was released for testing in January. The procedure worked satisfactorily and is currently going through the review process for routine operation. This procedure will be used to support IH Be analyses and will be applicable to high-fired BeO.
- ATL is committed to safety and is working toward applying for VPP Star status. Several assessments have been conducted this quarter in preparation for submitting ATL's VPP application. Findings and observations from the assessments have been addressed, and our draft application and supporting documentation were submitted to DOE-ORP for review and feedback on 6/13/07.

STATUS REPORT
222-S Laboratory
OPERATIONS AND TECHNOLOGY DEVELOPMENT
May – June 2007

- The 1F Hot Cell drain line replacement activities continue. The drain pan and drain lines have been removed, the leak test of the intact line has been performed, and the replacement line has been installed. Work continues on the final welding of the secondary line. The failed portion of the line has been subjected to a preliminary visual examination. Foreign objects have been removed from the failed drain line. The exact location and mode of failure are still under evaluation.

- Housekeeping activities on the 219S Waste Handling Facility platform were completed during this reporting period. This activity was pre-requisite for the Tank 104 dip tube repair. Repair of the dip tubes on Tank 104 in the 219-S Waste Handling Facility was completed during this reporting period.

- 1E1 Hot Cell is on restricted access due to low air flow through the HEPAs and work was stopped mid-project. Work was initiated to replace HEPA filters but stopped due to unexpectedly high levels of beta and gamma radiation that voided the radiological work permit. The job will be re-planned using new radiological data collected during the original entry. The HEPA replacement is now classified as high radiological risk work and will continue when the additional planning has been completed.

- The Cathodic Protection system for the underground mixed waste lines leading to the 219S Waste Handling Facility was taken out of service to determine static potential of the system. The cathodic protection system was returned to service at the end of May; collected data indicate that the 222S system passed NACE 3 criteria. This activity is part of a company wide initiative to determine the status and effectiveness of the Cathodic Protection systems.

- IH Accreditation of 222S Laboratory Analyses. The American Industrial Hygiene Association informed CH2M HILL that the analyses on performance evaluation samples were acceptable. The auditor has also accepted the corrective actions from the audit and has recommended approval by the board. Final approval of the accreditation package is anticipated in July.

- 222S is on track for a July 2007 transfer of waste from the 219S Waste Handling Facility to the Double Shell Tank System.

- 222S is coordinating a transfer of waste from the 207-SL Basin with the 242SEvaporator cooling water discharges the 200 Area TEDF.

- The Hanford Site Air Operating Permit specifies that the 219-S Waste Handling Facility Sample Gallery Hood HEPA (Stack 296-S-23) undergo non-destructive assay every two years to verify low radioactive emissions. This verification was completed during May; the next verification is due in May 2009.

- Waste Shipments:
    - Hazardous or Nonregulated waste: 18 containers
    - Low Level Waste: 1 Connex
    - PCB waste: 2 drums

222-S Project Managers Meeting & Misc. Lab Issues (TSD: TS-2-1)

Attachment 2
October 2007
List of Attendees
Agenda
222-S Lab Operations and Analytical Reports
Handouts

222-S Project Managers Meeting & Misc. Lab Issues

2440 Stevens, Room 1200
October 11, 2007
9:30 – 10:15 a.m.

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222-S Laboratory
Project Managers' Meeting
2440 Stevens, room 1200
October 11, 2007
9:30 – 10:15 am

ATTENDEES

Name	Affiliation	MSIN	Phone
Lucinda Borkowski	CH2M HILL		
Joi Huang	ATL		373-4414
Andy Stevens	ORP		376-8235
Joanne Wallace	Ecology		372-7931
Karen Singleton	Ecology		372-7923
Barbara Hall	CH2M HILL		372-3076
Don Hardy	CH2M	via	telecon

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ANALYTICAL REPORT
222-S Laboratory
Through October10, 2007

- To better position the laboratory to service site cleanup and closure activities:
  - ATL has achieved an American Industrial Hygiene Association (AIHA) accreditation. Certificates of Certification and Scope of Certification were received in August 2007. Workplace Analysis Scheme for Proficiency (WASP) performance results were received in September. Proficient performance was attained on all 4 analytes. Upon demonstration of proficiency on the upcoming round (expected to be received week of October 8), ATL will request GC / GC-MS as an additional Field of Testing to our AIHA scope of accreditation. This schedule supports the goal of transitioning this field of testing to ATL by the end of the calendar year.
    - Based on the recent AIHA accreditation, ATL is providing analytical support to CH2M HILL for mercury and ammonia IH vapor desorption tube sample analysis.
  - ATL is pursuing WA Dept of Ecology accreditation for inorganic, organic, and radiochemistry analyses. The application was submitted in April 2007; the required onsite assessment has been scheduled for October 22-23.
  - ATL has completed the development of a procedure for Microwave Assisted Acid Digestion for Wipes for Beryllium Analysis by ICP. ATL has retained a project requiring IH Beryllium qualification. Approximately 200 of the 400 IH samples have been prepared by the new microwave digest for high-fired BeO and successfully analyzed. More samples are expected later this year.
  - CH2M HILL transferred their work scope for the breakdown and preparation of summa canisters to ATL in August. A procedure supporting these activities was approved and issued for training on 9/28/07.
- ATL continues to work toward VPP recognition. ATL submitted its application for VPP status to ORP on October 4, 2007. The application is now in the 40 day review and approval period with the field office. The ATL VPP Coordinator is working to schedule the DOE-HQ team to perform the on-site certification review in January 2008. The ATL VPP Champions Team will perform the annual self-assessment during the week of November 5 to identify issues and opportunities prior to the on-site review.
- During the month of September, CH2M HILL instituted a safety pause and a work pause that affected ATL's laboratory operations. ATL participated in a work process review committee to evaluate the hazards, mitigation of the identified hazards, and the level of oversight needed to restart work in the 222-S Laboratory. The evaluation covered more than 100 analytical and operational procedures. As a result of these efforts, ATL is nearly 90% operational.

STATUS REPORT
222-S Laboratory
OPERATIONS AND TECHNOLOGY DEVELOPMENT
July – October 2007

- The low level leak alarm in Sump 9 of the 219S Tank System was received on 9/4/07, shortly after a significant storm event. Pumping of the sump was attempted on 9/4/07 but the pump failed. Liquid in the sump was confirmed with completion of the electrical troubleshooting work package on 9/6/07. CH2MHILL provided Ecology a courtesy call to let them know of the low level alarm and pump malfunction. As compensatory actions, 222S restricted use of Tank 104, suspended waste addition to Tank 104 drain lines, and initiated twice a day tank level and sump level surveillances. In addition, the removable roof of the 219S vault was inspected and cracks were found and repaired over the area served by the P9 sump. No change in sump or tank levels indicated that the tank was not leaking. The 219S vault entry occurred on 10/3 and found no evidence of leak from the mixed waste lines or tank (i.e., no evidence of leak visually or from radiological smears). There was evidence of liquid on the vertical walls of the 219S Vault, which was consistent with wind driven rainwater intrusion. Pump 9 was cycled a few times and worked correctly. The sump alarm cleared after the pump was cycled. CH2M HILL concluded that the cause of the liquid in Sump 9 was rainwater and that Pump 9 is operable. Therefore CH2M HILL put the 219S drain lines back in service. Ecology was informed of these developments as they occurred.

- CH2M HILL instituted work reviews for activities involving radioactive liquids. The reviews were initiated to address safety concerns identified during the recent radioactive liquid spills in Tank Farms. Procedures and work packages were reviewed to evaluate and strengthen radioactive-liquid handling controls. Use of the procedures and work packages were allowed only after reviews were completed and controls strengthened. Safety and compliance inspections were allowed to proceed during this time.

- The 1F Hot Cell drain line replacement activities have completed. The drain line failure mode was determined to be a pipe failure in the heat affected zone of 1980 vintage piping. This older piping is located just under the 1F Hot Cell sink and was tied into the piping installed in the mid-1990 project to upgrade the 219S Tank systems and ancillary equipment to meet RCRA standards. The IQRPE report will be transmitted to Ecology prior to declaring the drain line back in service.

- HEPA filters on the 1E1 Hot Cell were replaced during this reporting period. The air flow had fallen out of specification and work was stopped mid-project. The HEPA replacement did not increase air flow enough to remove the Hot Cell from restricted access. Further engineering evaluations are in progress to determine the best path forward.

- 222S transferred waste from the 219S Waste Handling Facility to the Double Shell Tank System in July. 222S also transferred waste from the 207-SL Basin with the 242A Evaporator cooling water discharges the 200 Area TEDF during this reporting period.

- IH Accreditation of 222S Laboratory Analyses. The American Industrial Hygiene Association issued CH2M HILL accreditation in August. This accreditation allows 222S to perform IH analyses.

- The Hanford Analytical Services Quality Assurance Requirements Document (HASQARD) was updated in June 2007. The update aligns 222S analytical procedures with SW-846 for general

analytical methods. This general update includes specific criteria for identification of Tentatively Identified Compounds (TICs) and clarified other technical requirements.

- 222S transferred waste from the 219S Waste Handling Facility to the Double Shell Tank System in July. 222S also transferred waste from the 207-SL Basin to the 200 Area TEDF during this reporting period.

- Waste Shipments:
  - Hazardous or Nonregulated waste: 2 containers
  - Low Level Waste: 8 containers
  - PCB waste: 2 containers
  - TRU: 2 containers