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MEETING NOTES

Waste Management Area A-AX HFFACO Appendix I Performance Assessment
Monthly Update Meeting

MEETING DATE: April 26, 2017

LOCATION: Ecology Conference Room 3A, Richland, WA

ATTENDEES:

Jim Alzheimer (Ecology)	Jim Field (WRPS)	Beth Rochette (Ecology)
Mike Barnes (Ecology)	Bill McMahon (CH-PRC)	Cindy Tabor (WRPS)
Alex Pappas (WRPS)	Dib Goswami (Ecology)	Arun Wahi (INTERA, Inc.)
Jan Bovier (DOE-ORP)	Bob Hiergesell (WRPS)	Jerry Yokel (Ecology)
Joe Caggiano (Ecology)	Sunil Mehta (INTERA, Inc.)	Marysia Skorska (Ecology)
Ryan Childress (WRPS)	Jeff Lyon (Ecology)	

By phone: Damon Delistraty (Ecology)

PURPOSE OF MEETING: The purpose of these meetings is to provide monthly updates to Ecology on progress made for the Waste Management Area (WMA) A-AX Hanford Federal Facility Agreement and Consent Order (HFFACO) Appendix I Performance Assessment (PA). These updates are provided to inform and solicit feedback and comments from Ecology and to accommodate concerns at an early stage.

BACKGROUND INFORMATION: DOE-ORP initiated efforts on the PA for WMA A-AX in FY 2015 and, after a 1-year hiatus, the effort was restarted in FY 2017. The two major efforts in FY 2017 for the PA are to develop the Draft conceptual (geologic framework) and numerical models along with their documentation and to document these efforts

QUESTIONS AND DISCUSSIONS:

Mr. Hiergesell handed out an agenda for the first monthly PA update meeting (refer to Attachment 1) and walked through the schedule of each of the main work tasks being undertaken in FY2017 and reported on the latest status of each task. The schedule and statuses are listed in Attachment 1. He then opened the meeting up for questions.

Note that rather than follow the agenda, the meeting consisted of an open discussion with questions and discussion initially pertaining to modeling then extending to project integration, scope, and schedule. There was additional discussion on geology and Tank A-105.

Modeling Questions

Mr. Yokel inquired if the Geologic Framework Model (GFM) was going to reflect the area solely under WMA A-AX. Mr. Mehta identified it would focus on WMA A-AX and high discharge liquid waste sites in the vicinity, which is similar to what was done for WMA C - where the modeling domain was much larger than the WMA.

Ms. Skorska asked if WMA C is in the domain for the WMA A-AX model and noted that the vadose zone at WMA C is predicted to have a long-term release to groundwater. Mr. Wahi identified that the domain of the WMA A-AX PA model doesn't incorporate WMA C vadose zone; however, groundwater impacts could hypothetically be incorporated as an upgradient boundary condition. The extent to which existing and upgradient contamination are modeled depends on the objectives of the PA. In any case, WMA A-AX past leaks and residuals are modeled as separate sources from upgradient sources in order to track impacts

from each source. Mr. Mehta elaborated on modeling upgradient contamination and stated that the past leaks document for WMA C has the 200-BP-5 Operable Unit information combined with past leaks results and the PA for WMA A-AX will do the same.

Mr. Goswami requested an update of boundary conditions being used for the model. Mr. Wahi and Mr. Metha stated that once the numerical model was developed, the approach could be presented.

After some specific questions on modeling were asked, the discussion moved to the topics of integration, scope and schedule.

Integration Discussion

Ms. Skorska and Mr. Lyon asked about the overall integration and identified the need to establish this information upfront (lesson learned from WMA C efforts). Mr. Lyon indicated that Ecology wants to ensure that they get the information needed to make informed decisions.

Ms. Skorska requested the scope of the PA and context within DOE's broader approach to closure be made clear. She stated that if the PA objective is to evaluate A-AX residuals, then the 200-BP-5 Operable Unit information is not needed. She indicated that it needs to be identified where upgradient contamination is addressed. She also identified that Ecology needs a total impact analysis. Mr. Hiergesell indicated that collective impacts (at least for radionuclides) are typically evaluated in a Composite Analyses, such as the Hanford Site Composite Analysis currently being conducted by CH2M Hill Plateau Remediation Company (CHPRC) for DOE-RL.

Mr. Lyon asked for the schedule of WMA A-AX document deliverables (new action 2017-4-26-1) and identified that there is Tri-Party Agreement regarding the integration process for tank farms. Ms. Tabor agreed and indicated that this requirement is in Appendix I of the HFFACO Action Plan and asked if Mr. Lyon was interested in re-initiating integration discussions (e.g., roadmap development). A new action (2017-4-26-2) by Mr. Bovier was taken to re-initiate these activities.

Mr. Lyon also identified that it would be good to identify lesson learned associated with the WMA C PA process and agreed to compile and share this information (new action 2017-4-26-3).

Additionally on this topic, Ms. Rochette indicated that the separation of vadose zone and groundwater operable units and sources will continue to pose a problem for understanding the integration of analyses. Mr. Delistraty added that presentation of the individual component analyses tends to increase the difficulty of persuading the public that risk calculations are defensible.

Mr. Pappas identified that he is working on geology interpretation and that integration on this effort is occurring with CHPRC. This geologic information will be used in various models including the ones for WMA A-AX PA. It was identified the development of the Geologic Framework Model would be discussed at the next monthly meeting.

Mr. Alzheimer stated concern about Tank A-105 inventory and that the current inventory might be the residual inventory. He indicated that Tank A-105 will be very important to both residual and past leaks. He also identified the importance that the temperature in the soil be modeled correctly and that temperature could affect transport (e.g., potentially driving vapors downward). He noted that temperatures may recently be dropping off and asked for some information on what the PA would do with elevated temperatures at Tank A-105. Mr. Wahi agreed that Tank A-105 is warranting special attention and that an approach to modeling energy together with contaminant transport around Tank A-105 is being actively being explored. He also indicated that the PA team is arranging a discussion with Mr. Olander who has been evaluating Tank A-105 information.

EXPECTATIONS, AGREEMENTS, AND ACTIONS: Refer to the tables below.

NEXT MEETING: The next meeting is tentatively set for the morning of June 13, 2017 and will provide a status of the Geologic Framework Model as well as a schedule for the broader scope of the multiple closure documents.

Jan B Boyer
DOE Project Manager (print)

Jan B Boyer
DOE Project Manager (signature)

7/26/2017
Date

Jeffery J. Lyon
Ecology Project Manager (print)

[Signature]
Ecology Project Manager (signature)

8/4/2017
Date

DATE	AGREEMENTS
3/22/2017	The preparation of data packages describing the material presented in Workshops 1 and 2 is underway. These data packages will be made available for Ecology to review after they have through an internal review and have be approved for public release by ORP. Meeting notes to be provided. Slides presented are to be cleared and provided at that time. Continue the monthly briefings with Ecology. The next monthly update of WMA A-AX PA activities is scheduled for June 13, 2017.
4/26/2017	WRPS will provide an agenda prior to these ongoing monthly meetings.
4/26/2017	Meeting notes will be provided in a timely manner.

ACTIONS			
Action Number	Actionee	Description	Status
2016-10-25-1	Marcel Bergeron/Bob Hiergesell	Define the purpose of the WMA A/AX PA in a short white paper. In this paper, describe how the PA will assist closure, etc. If possible, articulate this in a 1-page summary.	Completed
2016-10-25-2	Cindy Tabor	Define what the DQO RFI process is for the WMA A/AX PA	In progress
2016-10-25-3	Marcel Bergeron/Bob Hiergesell	Make a plan for scheduled meetings for the remainder of the FY.	Completed
2017-02-14-01	Marcel Bergeron/Bob Hiergesell	Report back on the status of non-RCRA wells inside of the WMA.	In progress
2017-3-22-1	Bob Hiergesell	Prepare meeting minutes from Workshop 1 and Workshop 2.	In progress
2017-4-26-1	Marcel Bergeron/Bob Hiergesell	Provide a schedule of schedule of WMA A-AX document deliverables.	New
2017-4-26-2	Jan Bovier	Re-initiate activities associated with integration.	New
2017-4-26-3	Jeff Lyon	Provide lessons learned on WMA C PA process.	New

Attachment 1
WMA A-AX PA Monthly Update with Ecology
April 26 2017

Schedule

- Two major work WMA A-AX efforts in FY2017:
- Conceptual model and documentation
- Numerical model and draft documentation

Status of Data Package Reports

- WMA A-AX Soil and Residual Inventory Data Package – Currently in clearance process; to be posted on PA website for public release in FY2018
- WMA A-AX Engineered System Data Package – Under development; to be posted on PA website in FY2018

Status of Geologic Framework Model Development

- Preparation of initial draft document in progress
- Internal review of draft report – June
- Submittal to ORP for review – late July/August

Status of Numerical (STOMP) Model Development

- Initial numerical model development/testing – currently underway
- Preparation of Model Package Report (MPR) initiated
- Internal review of draft Report – July/August
- Submittal of draft MPR to ORP – September

Initial Analysis of Tank Residuals and Past Leaks

- Initiate analysis in June/July
- Bulk of analysis to be performed in FY2018