

Isom, Debra A (Debbi)

From: Huckaby, Alisa [AHUC461@ECY.WA.GOV]
Sent: Monday, May 14, 2001 2:00 PM
To: 'Debra_A_Debbi_Isom@RL.gov'
Cc: 'Glenn_Richardson@rl.gov'; 'Kevin_D_Leary@rl.gov'; 'Roger_W_Szelmezcza@RL.gov';
'Jamie_G_Granger@rl.gov'; Jamison, Fred; Caggiano, Joseph; Huckaby, Alisa
Subject: FW: LERF Basin Waste and Leachate Sampling Methods

Debbi,

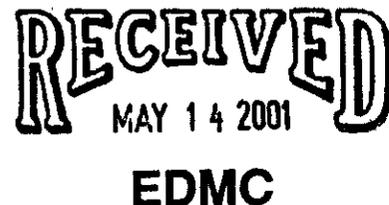
Ecology hopes to modify the RCRA permit for the Liquid Effluent Retention Facility (LERF) within the next 15 months. DOE and Contractors provided information that I would like to have placed on the administrative record. During a monthly project management meeting, I took an action item to request the below information be placed on the administrative record in support of the upcoming permit modification. Would you please place these electronic mail messages and attached files on the LERF administrative record? If you have any questions or would like to discuss, please call me at 736-3034. In advance, thank you for your assistance.

Alisa Huckaby
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> -----Original Message-----
> From: Kevin_D_Leary@RL.gov [mailto:Kevin_D_Leary@RL.gov]
> Sent: Thursday, March 08, 2001 2:40 PM
> To: Conaway, Kathy; Jamison, Fred; Caggiano, Joseph; Huckaby, Alisa
> Cc: john.fruchter@pnl.gov
> Subject: FW: LERF Basin Waste and Leachate Sampling Methods

>
> Information per Alisa's request. We are having PNNL prepare skeletal SAP for the effluent/leachate that will be brought to the Workshop in order that we all have input into the final draft SAP.

> -----Original Message-----
> From: Richardson, Glenn
> Sent: Thursday, March 08, 2001 12:06 PM
> To: Leary, Kevin D
> Subject: FW: LERF Basin Waste and Leachate Sampling Methods



> -----Original Message-----
> From: Szelmeczka, Roger W
> Sent: Monday, March 05, 2001 12:33 PM
> To: Richardson, Glenn
> Cc: Smith, Donald K (Kent); Crane, Paul J; Lueck, Kristi J; Granger, Jamie G
> Subject: LERF Basin Waste and Leachate Sampling Methods

> Glenn,
>
> Following is the information you requested this morning regarding sampling methods that were used for obtaining the LERF leachate and basin wastewater characterization data.
>
> LERF Basin Wastewater Sampling
> Each basin is equipped with eight sampling ports around the perimeter of the basin. Sampling was accomplished using a peristaltic pump and silicone tubing which is lowered into the sampling risers to the desired depth. Because there is no mechanical mixing in the basins, each riser

> was sampled at a different depth and analytical results were averaged for
> each basin.
>
> For Basin 42 wastewater, a combination of the above-method and a
> mass-balance calculation was applied. The contents of Basin 42 were
> sampled prior to 242-A Evaporator Campaign 00-01. During Campaign 00-01,
> the process condensate waste stream was sampled before it was discharged
> to Basin 42. Aggregate data for Basin 42 was calculated using the results
> of the basin sampling, process condensate analysis, and the respective
> waste volumes.
>
> LERF Basin Leachate Sampling
> Each basin is equipped with a leachate pump-out system that has a sampling
> valve. The leachate pump is turned on and the line purged before the
> sample was collected. Due to the large size of the sample port (1-1/2
> inches), a large container was used to collect leachate before
> transferring into small sample bottles. If we needed to use this system
> for collecting compliance samples, the sampling port should be upgraded so
> sample bottles could be filled directly from the valve to minimize
> contamination, reduce waste generated, and better adhere to sampling
> protocols.
>
> Let me know if there are further questions on the sampling methods.
>
> Roger Szelmeczka