Ex. 5 Deliberative Process (DP)

From: LEE, LILY
Sent: Friday, May 26, 2017 12:26 PM
To: Kayaci, Hamide G CIV <hamide.kayaci@navy.mil>
Cc: Robinson, Derek J CIV NAVFACHQ, BRAC PMO (derek.j.robinson1@navy.mil) <derek.j.robinson1@navy.mil>; 'Janda, Danielle L CIV' <danielle.janda@navy.mil>
Subject: Parcel E-2 Phase V Rad background sampling- a few questions

Dear Hamide,

Thank you for sending the air monitoring report. Could I call you some time with a few questions? What is a convenient time for you?

I was talking with Derek this morning about the various ways of determining background in the Shipyard's history, and I told him I've been looking at the Parcel E-2 FS Rad Addendum:
http://www.envirostor.dtsc.ca.gov/public/deliverable_documents/8203643620/Final%20Rad%20Addendum%20Parcel%20E-2.pdf

But neither of us knew some more specifics. Can you help? I wanted to learn more about the Phase V work. I was wondering if you know where I can find more information about the reference background samples. I have attached a scan w/excerpts. It says "Reference (background) readings consisted of 16 1-minute static gamma readings taken on the hillside of Parcel A and 16 samples collected at various areas within Parcels B, C, D, and E." Below I cut & pasted a summary table of sample results. The attachment has data from individual sample locations from various parcels.

It looks like ERRG did the Addendum report overall. Did they also do the Phase V sampling? Or if not, do you know who did?
Do you know where to find the locations of these samples?
Do you have any information on how the locations were selected as reference locations?

I can explain the context for my questions by phone.

I would appreciate your help!

- Lily

Grid	Sample Number	Date	Time	^{137}Cs	Results[1] ^{90}Sr[2]	^{226}Ra
Reference Area	1	3/21/2002	13:25:00	0.077	0.279	0.508
	2	3/20/2002	7:05:00	0.027	0.088	1.303
	3	3/4/2002	10:50:00	0.041	0.149	0.519
	4	3/20/2002	8:40:00	0.045	0.163	0.714
	5	3/20/2002	10:45:00	0.018	0.068	0.462
	6	3/20/2002	11:15:00	0.042	0.152	1.058
	7	3/20/2002	11:25:00	0.017	0.062	0.462
	8	3/21/2002	12:35:00	0.065	0.236	0.711
	9	3/20/2002	13:00:00	0.023	0.083	0.990
	10	3/20/2002	13:10:00	0.050	0.181	0.819
	11	3/20/2002	13:15:00	0.071	0.257	0.924
	12	3/20/2002	13:20:00	0.073	0.265	0.678
	13	3/20/2002	7:30:00	0.072	0.261	0.838
	14	3/20/2002	7:45:00	0.068	0.247	1.386
	15	3/20/2002	7:50:00	0.064	0.232	0.795
	16	3/20/2002	11:00:00	0.026	0.094	0.887
			Mean	0.049	0.178	0.818

Notes:
[1] Analytical results for ^{137}Cs and ^{226}Ra from on-site laboratory
[2] 10 percent of samples were analyzed by off-site laboratory for ^{137}Cs, ^{90}Sr, and ^{226}Ra; ratio of ^{90}Sr to ^{137}Cs results from off-site laboratory was used to estimate ^{90}Sr concentrations for the 90 percent of the samples that were not analyzed directly for ^{90}Sr.
[3] Net results present the mean concentrations for each grid less the mean background concentration (from reference area).
Sample numbers 1 through 16 in each grid represent the systematic soil samples; sample numbers greater than 16 represent biased soil samples (many of which were associated with point source anomalies)
Sample results shown in **bold text** exceed the release criterion
All sample results are in picocuries per gram (pCi/g)
< Sample result was below minimum detectable activity

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