Wickham, Jerry, Env. Health

From: Schwartz, James [JSchwartz@haleyaldrich.com]
Sent: Monday, September 23, 2013 6:38 AM
To: Wickham, Jerry, Env. Health
Cc: jrigter@lpfire.org; Sebik, Joanna; brendan@albionpartners.com; Guthrie, Kristin; Bajsarowicz, Voytek
Subject: RE: Former Hanson Facility: Stockpiles Proposed for Reuse On Site
Attachments: 0920913_HAI Analytical Results v1.1.4_Stockpile.pdf; J51739-1 UDS Level 2 Report Final Report.pdf; J51739-2 UDS Level 2 Report Final Report.pdf; J51795-1 UDS Level 2 Report Final Report.pdf; J51795-2 UDS Level 2 Report Final Report.pdf; J51890-1 UDS Level 2 Report Final Report.pdf; J51890-2 UDS Level 2 Report Final Report.pdf; J51599-1 UDS Level 2 Report Final Report.pdf

Hi Jerry,

Apologies for the delay on getting back to you regarding this! Please see below for answers to your questions/requests for information:

1) The location and volume of the stockpiles and volume that each sample represents to assure compliance with the proposed sample to soil volume ratios.

Locations: The locations of the stockpiles are shown on the air photo I sent previously; based on your response, it sounds like that worked for you, but please let me know if you need any additional info.

Volumes and Sampling frequency: Stockpiles BP2, BP3, and BP4 were estimated to be 3000 cubic yards (cy), 900 cy, and 1200 cy, respectively. Per the DTSC backfill sampling guidance1 sample per every 250 cy was collected up to 1000 cy, with 1 sample per 500 cy of additional fill material. Each sample was a 4-point composite collected from the surface to 0.5 ft due to access limitations (see below).

2) Distribution of samples within the stockpile (depth, etc.)

All samples were from surface to 0.5 ft due to access limitations. Samples were collected from all areas of the stockpiles, i.e., at various heights along the slopes as well as from the tops of the piles. Each composite was from the same side or general area of the pile, depending on the volume of the stockpile.

3) The source of the fill material (Do each of the stockpiles appear to be left from Hanson operations?)

Yes, the piles all appear to be left from Hansen operations.

4) The type of fill and the heterogeneity

All stockpiles appear to be processed aggregate material with silt and sand. The piles appear to be generally uniform both as a group (i.e. all 3 piles are similar) and within the stockpiles.

5) Whether the fill contains any debris or construction material

No debris or construction material was observed during sampling. Should any debris, construction material, or otherwise suspect material be observed during preparation of the fill material we will assess the extent of foreign materials in the stockpile. No such materials will be used as backfill.

6) Laboratory analytical results consistent with the analytical suite from the attached set of emails.

Samples were run for the agreed upon analytes: TPH-d/mo, CAM17 metals, PAHs, pH, and asbestos (as bulk PLM). Please see the attached for original laboratory analytical reports.

Hope this helps! Please let me know if you need any other information.

Thanks,
-Jym

-----Original Message-----
From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Monday, September 16, 2013 10:57 AM
To: Schwartz, James
Cc: jrigter@lpfire.org; Sebik, Joanna; brendan@albionpartners.com; Guthrie, Kristin
Subject: RE: Former Hanson Facility: Stockpiles Proposed for Reuse On Site

Jym,

I will need some additional information to go along with the analytical results. I have attached our last chain of emails which established a standard sampling scheme consistent with DTSC guidance and analytical suite for stockpile approvals. In order to know whether the soil meets these criteria, I would need the following for each stockpile:

1) The location and volume of the stockpiles and volume that each sample represents to assure compliance with the proposed sample to soil volume ratios. (the air photo is good for location)

2) Distribution of samples within the stockpile (depth, etc.)

3) The source of the fill material (Do each of the stockpiles appear to be left from Hanson operations?)

4) The type of fill and the heterogeneity

5) Whether the fill contains any debris or construction material

6) Laboratory analytical results consistent with the analytical suite from the attached set of emails.

Regards,

Jerry Wickham

Alameda County Environmental Health

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From: Schwartz, James [JSchwartz@haleyaldrich.com]
Sent: Friday, September 13, 2013 11:16 AM
To: Wickham, Jerry, Env. Health

Cc: jrigter@lpfire.org; Sebik, Joanna; brendan@albionpartners.com; Guthrie, Kristin
Subject: Former Hanson Facility: Stockpiles Proposed for Reuse On Site

Hi Jerry,

Attached please find a summary of analytical data for “Borrow Piles” 2, 3 and 4, as well as an air photo showing their locations. Kindly let us know if we are approved to reuse this soil on site as excavation backfill at your earliest convenience, and if there are any recommendations or restrictions on that reuse if approved.

I am available if you have any questions!

Thanks,
-Jym

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Shed
BP2
BP3
BP4

TABLE I
SUMMARY OF ANALYTICAL RESULTS
USL PLEASANTON, BORROW PILES 2, 3 AND 4

		Chemical Group	Inorganic Compounds																	Other
		Chemical Name	Antimony	Arsenic	Asbestos	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	pH (lab)
		Units	mg/kg	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	su
		Action Level	20	11		750	4	12		22	230	80	6.7	40	150	10	20	0.78	200	600	
Location Name	**Sample Date**	**Sample Name**																			
BP2	08/23/2013	BP2-1-082313	< 1.9	4	< 1	110	< 0.39	< 0.49	38	9.7	26	7.9	0.11	< 1.9	55	< 3.9	< 0.97	< 1.9	30	48	8.07
BP2	08/23/2013	BP2-2-082313	< 1.9	< 3.8	< 1	100	< 0.38	< 0.48	43	10	37	6.6	0.19	< 1.9	55	< 3.8	< 0.96	< 1.9	35	48	7.54
BP2	08/23/2013	BP2-3-082313	< 2	4.1	< 1	130	< 0.39	< 0.49	52	10	67	9.1	0.13	< 2	66	< 3.9	< 0.98	< 2	33	52	7.55
BP2	08/23/2013	BP2-4-082313	< 1.9	5.1	< 1	150	< 0.38	< 0.48	46	11	34	7.2	0.11	< 1.9	62	< 3.8	< 0.96	< 1.9	35	50	7.8
BP2	08/23/2013	BP2-5-082313	< 2	< 4	< 1	160	< 0.4	< 0.5	47	11	32	7.6	0.16	< 2	68	< 4	< 0.99	< 2	39	58	7.78
BP2	08/23/2013	BP2-6-082313	< 1.9	< 3.8	< 1	140	< 0.38	< 0.48	46	10	32	8.2	0.1	< 1.9	63	< 3.8	< 0.95	< 1.9	35	60	7.81
BP2	08/23/2013	BP2-7-082313	< 1.8	< 3.7	< 1	130	< 0.37	< 0.46	43	8.9	29	7.4	0.093	< 1.8	57	< 3.7	< 0.92	< 1.8	32	48	7.94
BP2	08/23/2013	BP2-8-082313	< 1.9	< 3.9	< 1	120	< 0.39	< 0.49	47	8.9	27	8	0.085	< 1.9	64	< 3.9	< 0.97	< 1.9	33	49	7.85
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-2	< 2	< 4	< 0.25	140	< 0.4	< 0.5	45	9.9	32	5.3	0.12	< 2	65	< 4	< 1	< 2	30	42	7.9
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-3	< 1.9	4.2	< 0.25	150	< 0.37	< 0.47	43	11	30	6.6	0.12	< 1.9	64	< 3.7	< 0.93	< 1.9	35	52	8.2
COMPOSITE-BP4-1	08/20/2013	COMPOSITE-BP4-1																			
COMPOSITE-BP4-2	08/20/2013	COMPOSITE-BP4-2	< 2	< 4	< 1	130	< 0.4	< 0.5	37	8.4	40	5.6	0.12	< 2	53	< 4	< 1	< 2	30	44	8.18
COMPOSITE-BP4-3	08/20/2013	COMPOSITE-BP4-3	< 1.9	< 3.9	< 1	130	< 0.39	< 0.49	40	9.7	28	5.2	0.056	< 1.9	54	< 3.9	< 0.97	< 1.9	31	43	7.89
COMPOSITE-BP4-4	08/20/2013	COMPOSITE-BP4-4	< 1.8	< 3.7	< 1	130	< 0.37	< 0.46	36	7.8	23	5.9	0.066	< 1.8	50	< 3.7	< 0.92	< 1.8	29	39	7.85
COMPOSITE-BP4-5	08/20/2013	COMPOSITE-BP4-5	< 2	< 4	< 1	120	< 0.4	< 0.5	39	8.7	23	5.1	0.062	< 2	58	< 4	< 0.99	< 2	29	44	7.8
COMPOSTE-BP3-1	08/20/2013	COMPOSTE-BP3-1																			
COMPOSTE-BP3-2	08/20/2013	COMPOSTE-BP3-2	< 1.9	< 3.8	< 1	120	< 0.38	< 0.48	44	9.6	26	5.6	0.071	< 1.9	57	< 3.8	< 0.96	< 1.9	32	44	7.86
COMPOSTE-BP3-3	08/20/2013	COMPOSTE-BP3-3	< 1.9	3.9	< 1	150	< 0.38	< 0.48	43	9.5	26	6.4	0.11	< 1.9	56	< 3.8	< 0.95	< 1.9	30	45	7.82
COMPOSTE-BP3-4	08/20/2013	COMPOSTE-BP3-4	< 1.8	< 3.7	< 1	130	< 0.37	< 0.46	38	8.6	26	5.7	0.23	< 1.8	56	< 3.7	< 0.92	< 1.8	30	46	7.83

TABLE I
SUMMARY OF ANALYTICAL RESULTS
USL PLEASANTON, BORROW PILES 2, 3 AND 4

		Chemical Group	Semi-Volatile Organic Compounds (SIM)									
		Chemical Name	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
		Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
		Action Level	16000	13000	2800	380	85000	40000	27000	380	3800	110
Location Name	**Sample Date**	**Sample Name**										
BP2	08/23/2013	BP2-1-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
BP2	08/23/2013	BP2-2-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
BP2	08/23/2013	BP2-3-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
BP2	08/23/2013	BP2-4-082313	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
BP2	08/23/2013	BP2-5-082313	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
BP2	08/23/2013	BP2-6-082313	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
BP2	08/23/2013	BP2-7-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
BP2	08/23/2013	BP2-8-082313	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-2										
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-3										
COMPOSITE-BP4-1	08/20/2013	COMPOSITE-BP4-1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSITE-BP4-2	08/20/2013	COMPOSITE-BP4-2	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSITE-BP4-3	08/20/2013	COMPOSITE-BP4-3	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSITE-BP4-4	08/20/2013	COMPOSITE-BP4-4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
COMPOSITE-BP4-5	08/20/2013	COMPOSITE-BP4-5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSTE-BP3-1	08/20/2013	COMPOSTE-BP3-1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSTE-BP3-2	08/20/2013	COMPOSTE-BP3-2	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9
COMPOSTE-BP3-3	08/20/2013	COMPOSTE-BP3-3	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
COMPOSTE-BP3-4	08/20/2013	COMPOSTE-BP3-4	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9

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USL PLEASANTON, BORROW PILES 2, 3 AND 4

		Chemical Group							Total Petroleum Hydrocarbons		Volatile Organic Compounds
		Chemical Name	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	Total Petroleum Hydrocarbons (C5-C12) GRO
		Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	mg/kg	ug/kg
		Action Level		8900	380	1200	11000		2.2	< 49	
Location Name	**Sample Date**	**Sample Name**									
BP2	08/23/2013	BP2-1-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 1	< 50	< 220
BP2	08/23/2013	BP2-2-082313	6.1	< 4.9	< 4.9	< 4.9	< 4.9	5.5	1.9	< 50	< 250
BP2	08/23/2013	BP2-3-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.3	< 50	< 250
BP2	08/23/2013	BP2-4-082313	< 5	< 5	< 5	< 5	< 5	< 5	1.8	< 50	< 240
BP2	08/23/2013	BP2-5-082313	< 5	< 5	< 5	< 5	< 5	< 5	1.9	< 50	< 250
BP2	08/23/2013	BP2-6-082313	< 5	< 5	< 5	< 5	< 5	< 5	1.4	< 49	< 240
BP2	08/23/2013	BP2-7-082313	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.1	< 50	< 250
BP2	08/23/2013	BP2-8-082313	< 5	< 5	< 5	6.2	< 5	< 5	< 0.99	< 49	< 250
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-2							< 1	< 50	< 230
COMPOSITE-BP2	08/19/2013	COMPOSITE-BP2-3							2.5	< 49	< 240
COMPOSITE-BP4-1	08/20/2013	COMPOSITE-BP4-1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9			
COMPOSITE-BP4-2	08/20/2013	COMPOSITE-BP4-2	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.9	< 50	< 250
COMPOSITE-BP4-3	08/20/2013	COMPOSITE-BP4-3	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.3	< 50	< 240
COMPOSITE-BP4-4	08/20/2013	COMPOSITE-BP4-4	< 5	< 5	< 5	< 5	< 5	< 5	1.7	< 49	< 250
COMPOSITE-BP4-5	08/20/2013	COMPOSITE-BP4-5	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.8	< 50	< 240
COMPOSTE-BP3-1	08/20/2013	COMPOSTE-BP3-1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9			
COMPOSTE-BP3-2	08/20/2013	COMPOSTE-BP3-2	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	2	< 50	< 240
COMPOSTE-BP3-3	08/20/2013	COMPOSTE-BP3-3	< 5	< 5	< 5	< 5	< 5	< 5	2.3	< 49	< 240
COMPOSTE-BP3-4	08/20/2013	COMPOSTE-BP3-4	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	1.9	< 50	< 230