

From: "Timothy Rice" <tbrice@gw.dec.state.ny.us>
To: "Joseph J. Adler" <jadler@entergy.com>, <PDonahu@entergy.com>, "John White" <jrw1@nrc.gov>
Date: 05/23/2007 2:37:08 PM
Subject: Latest State Results

Attached are the latest State analytical results for the IP split samples.
The LAF-2 sample for 3/7/07 shows a very low level positive for Sr-90, 0.8+/-0.4 pCi/l.
The DOH lab has reviewed the results and is confident it is a positive results.
I have requested a Sr-90 analysis on another aliquot of this sample.
There is no H-3 at this location and my understanding is that it is hydraulically upgradient for the U-1 Sr-90 source.

The state plans to discuss this result at tomorrow's 3:30 stakeholder call.

I will either be at IP or on the road, and will attempt to call in.
If you can not reach me tomorrow please contact Barbara Youngberg.

Tim

CC: "Barbara Youngberg" <bayoungb@gw.dec.state.ny.us>, "Larry Rosenmann" <larosenim@gw.dec.state.ny.us>, "Robert P. Snyder" <rps02@health.state.ny.us>

B-34

Sampling Date	Sample ID	Sample Location	Tritium pCi/l	Sr-90 pCi/l	Gamma Spec	GB pCi/l	GA pCi/l
10/21/2005	200520855628	U2 CST	<110	NA	NA		
10/21/2005	200520855629	U3-T2	1420 +/- 160	NA	NA		
10/21/2005	200520855630	U3-2	510 +/- 130	NA	NA		
10/21/2005	200520855631	MW-111	267000 +/- 8000	1.9 +/- 0.7 *	ND	9.0 +/- 6.0	5.0 +/- 2.0
10/21/2005	200520855632	U3-4	340 +/- 120	NA	NA		
10/21/2005	200520855633	U3-1	<110	NA	NA		
10/21/2005	200520855634	U3-3	<110	NA	NA		
10/21/2005	200520855635	U3-T1	<110	NA	NA		
11/30/2005	200520855645	Trap Rock Quarry	90 +/- 60	<0.5 ***	ND		
11/30/2005	200520855646	Algonquin Creek	<60	<0.5 ***	RDP		
11/30/2005	200520855647	5th Street Well	<60	<0.5 ***	RDP		
11/30/2005	200520855648	Gypsum Plant Outfall	<60	<0.5 ***	RDP		
12/6/2005	200520855658	LeFarge Gypsum Well #1	<50	NA	NA		
12/6/2005	200520855659	LeFarge Gypsum Well #3	<50	NA	NA		
12/8/2005	200520855654	MW38	700 +/- 120	NA	NA		
12/8/2005	200520855655	MW101	<50	NA	NA		
12/8/2005	200520855656	MW105	100 +/- 90	NA	NA		
12/8/2005	200520855657	MW107	<50	NA	NA		
1/30/2006	200620865011	Doodletown Bight @ PIP Maint.	<90	<0.5	ND		
1/30/2006	200620865014	Lake Kanawauke	<90	<0.4	ND		
1/30/2006	200620865015	Ramapo River @ Arden Rd	<90	<0.4	ND		
2/7/2006	200620865001	MW-30 72'	3.76E5 +/- 0.11E5	<0.5	ND		
2/7/2006	200620865002	MW-31	3.38E4 +/- 0.12E4	<0.5	ND		
2/7/2006	200620865003	MW-32	1.92E4 +/- 0.07E4	<0.6	ND		
2/7/2006	200620865004	MW-33	2.02E5 +/- 0.06E5	<0.5	ND		
2/7/2006	200620865005	MW-34	1.74E5 +/- 0.05E5	<0.6	ND		
2/7/2006	200620865006	MW-35	8.9E4 +/- 0.3E4	<0.5	ND		
2/7/2006	200620865007	MW-36	2.1E4 +/- 0.08E4	1.1 +/- 0.6	ND		
2/7/2006	200620865010	MW-111	1.96E5 +/- 0.06E5	1.6 +/- 0.05	ND	9.9 +/- 1.7	2.6 +/- 0.9
2/8/2006	200620865008	MW-38	<110	<0.5	ND		
2/8/2006	200620865009	MW-48	290 +/- 110	<0.5	ND		
2/8/2006	200620865012	Algonquin Creek	<90	<0.6	ND		
2/8/2006	200620865013	Trap Rock Quarry	<90	0.9 +/- 0.6	ND		
2/8/2006	200620865016	Hudson River Middle of waterfront	<90	<0.4	ND		
2/8/2006	200620865017	Hudson River Unit 2 Outfall	<90	<0.4	ND		
2/8/2006	200620865018	Hudson River Off Manhole 1	<90	<0.4	ND		
2/8/2006	200620865019	Gypsum Plant Outfall	<90	<0.4	ND		
2/8/2006	200620865020	Hudson River North of IPEC	<90	<1.0	ND		
2/28/2006	200620865024	MW-37 22'	1.48E4 +/- 0.06E4	INS	ND		
2/28/2006	200620865025	MW-37 32'	2.89E4 +/- 0.10E4	INS	ND		
2/28/2006	200620865026	MW-37 40'	1.61E4 +/- 0.06E4	INS	ND		
2/28/2006	200620865027	MW-37 57'	1.54E4 +/- 0.06E4	INS	ND		
3/10/2006	200620865028	MW-37 22'	2.20E4 +/- 0.08E4	6.3 +/- 0.7	ND	26 +/- 4	<1.7
3/10/2006	200620865029	MW-37 32'	2.79E4 +/- 0.10E4	23.9 +/- 1.1	ND	56 +/- 4	3.8 +/- 1.7
3/10/2006	200620865030	MW-37 40' **	1.63E4 +/- 0.06E4	22.3 +/- 1.2	ND	73 +/- 7	67 +/- 4
3/10/2006	200620865031	MW-37 57'	1.54E4 +/- 0.06E4	27.3 +/- 1.2	ND	62 +/- 4	2.9 +/- 1.8
3/22/2006	200620865040	MW-49 25.5'	1.53E4 +/- 0.06E4	17.0 +/- 0.9	ND	44 +/- 4	<1.5
3/22/2006	200620865041	MW-49 42'	9.4E3 +/- 0.4E3	24.1 +/- 1.1	ND	58 +/- 4	3.2 +/- 1.6
3/22/2006	200620865042	MW-49 65.5'	6.7E3 +/- 0.3E3	23.8 +/- 1.1	ND	53 +/- 4	8.4 +/- 1.6
3/22/2006	200620865043	MW-50 42'	7.7E3 +/- 0.4E3	25.9 +/- 1.2	ND	63 +/- 4	3.6 +/- 1.2
3/22/2006	200620865044	MW-50 67'	9.8E3 +/- 0.4E3	31.6 +/- 1.3	ND	76 +/- 4	<1.2
3/23/2006	200620865045	MW-42 49'	2.7E3 +/- 0.2E3	60 +/- 2	Cs137, Co60	1.32E4 +/- 0.04E4	68 +/- 3
		MW-42 49' with solids, Cs-137			1.99E4 +/- 6.12E2		
		MW-42 49' decanted, Cs-137			1.31E4 +/- 0.04E4		
		MW-42 49' with solids, Co-60			23 +/- 6		
		MW-42 49' decanted, Co-60			21 +/- 11		
3/23/2006	200620865037	MW-36 26'	3.53E4 +/- 0.12E4	0.9 +/- 0.4	ND	16 +/- 3	8.1 +/- 1.5

Sampling Date	Sample ID	Sample Location	Tritium pCi/l	Str-90 pCi/l	Gamma Spec	GB pCi/l	GA pCi/l
3/23/2006	200620865039	MW-36 52'	2.65E4 +/- 0.09E4	6.1 +/- 0.5	ND	21 +/- 3	9.9 +/- 1.4
3/24/2006	200620865038	MW-36 41'	5.97E4 +/- 0.19E4	4.4 +/- 0.5	ND	17 +/- 3	3.7 +/- 1.1
3/24/2006	200620865046	MW-42 78'	4.7E2 +/- 1.2E2	<1.0	Cs137, Co60, K40, RDP	94.8 +/- 6.8	6.9 +/- 3.8
		MW-42 78' with solids, Cs-137			1.12E3 +/- 0.04E3		
		MW-42 78' decanted, Cs-137			1.85E2 +/- 0.4E2		
		MW-42 78' with solids, Co-60			3.4 +/- 0.9		
		MW-42 78' decanted, Co-60			<5.9		
		MW-42 78' with solids, K-40			40 +/- 10		
		MW-42 78' decanted, K-40			<98		
4/11/2006	200620865058	Fishkill Creek	<130	<0.4	ND	<4.0	1.2 +/- 1.0
4/11/2006	200620865059	Philpse Brook	<90	<0.4	ND	<1.1	0.35 +/- 0.19
4/11/2006	200620865050	MW-40 200'	<100	0.7 +/- 0.4	ND	16 +/- 8	15 +/- 4
4/11/2006	200620865051	MW-51 200'	1.5E2 +/- 1.1E2	<0.4	ND	15 +/- 6	20 +/- 2
4/12/2006	200620865049	MW-46 30'	1.78E3 +/- 0.18E3	<0.9	ND	20 +/- 8	15 +/- 4
4/12/2006	200620865052	MW-48 37.5'	1.2E2 +/- 1.0E2	<0.7	RDP	24 +/- 4	29.5 +/- 1.7
4/12/2006	200620865053	MW-48 52'	3.7E2 +/- 1.3E2	<0.7	ND	25 +/- 8	13 +/- 3
4/12/2006	200620865054	MW-41 41'	5.8E2 +/- 1.4E2	5.0 +/- 0.8	ND	18 +/- 4	4.2 +/- 1.6
4/12/2006	200620865055	MW-41 63'	4.7E2 +/- 1.3E2	5.7 +/- 0.5	ND	16 +/- 4	3.1 +/- 1.6
4/12/2006	200620865056	MW-43 28'	2.9E2 +/- 1.2E2	<0.4	K40, RDP	<20	20 +/- 7
4/12/2006	200620865057	MW-43 62'	<110	0.6 +/- 0.4	ND	14 +/- 6	26 +/- 20
4/13/2006	200620865047	MW-47 56'	5.0E2 +/- 1.4E2	0.8 +/- 0.7	ND	25 +/- 8	21 +/- 4
4/13/2006	200620865048	MW-47 80'	2.1E3 +/- 0.2E3	3.9 +/- 0.4	ND	15 +/- 4	1.7 +/- 1.5
4/17/2006	200620865060	MH-5 U2 Curtain prior to outage	2.3E2 +/- 1.0E2	<0.4	ND	7 +/- 4	<1.1
4/18/2006	200620865061	Hudson River near MH1 Discharge	<90	<0.5	ND	13 +/- 4	7.9 +/- 1.2
8/18/2006	200620865087	MW-30 74'	2.49E5 +/- 0.08E5	<0.7	ND	11 +/- 4	9 +/- 3
8/22/2006	200620865088	MW-30 88'	4.52E4 +/- 0.18E4	<0.7	ND	11 +/- 4	6 +/- 3
8/23/2006	200620865124	MW-53 80'	1.21E4 +/- 0.05E4	9.3 +/- 0.6	ND	29 +/- 7	11 +/- 4
8/24/2006	200620865122	MW-57 45'	4.1E3 +/- 0.3E3	24.9 +/- 1.1	ND	45 +/- 9	<7
8/25/2006	200620865123	MW-55 78'	1.47E4 +/- 0.06E4	30.2 +/- 1.2	ND	70 +/- 5	<3
8/30/2006	200620865125	MW-53 120****	4.0E3 +/- 0.2E3	20.1 +/- 0.9	Ra226	43 +/- 9	62 +/- 8
		MW-53 120' unfiltered, Ra226			22 +/- 9		
		MW-53 120' filtered, Ra226			6 +/- 5		
9/7/2006	200620865126	MW-54 206'	2.47E3 +/- 0.19E3	15 +/- 0.9	ND	44 +/- 5	16 +/- 3
9/8/2006	200620865127	MW-56 85'	8.3E2 +/- 1.3E2	2.2 +/- 0.5	ND	11 +/- 4	<2
9/8/2006	200620865128	MW-65 80'	2.3E2 +/- 1.1E2	<0.5	ND	30 +/- 8	32 +/- 6
9/15/2006	200620865141	MW-59 70'	2.4E2 +/- 1.2E2	<0.5	Ra226	36 +/- 8	8 +/- 7
		MW-59 70', Ra226			6 +/- 4		
9/19/2006	200620865138	LAF-001 (003)	<120	<0.4	ND	33 +/- 8	8 +/- 5
9/19/2006	200620865139	LAF-002 (003)	<120	<0.5	ND	35 +/- 8	70 +/- 6
9/19/2006	200620865140	LAF-003 (003)	<120	<0.5	ND	6 +/- 3	2.6 +/- 1.9
11/15/2006	200620865158	MW-49 65'	3.4E3 +/- 0.2E3	19.9 +/- 1	ND	49 +/- 5	9 +/- 4
11/15/2006	200620865159	MW-50 42'	2.9E3 +/- 0.2E3	13.1 +/- 0.8	ND	41 +/- 5	<3
11/15/2006	200620865160	MW-49 26'	7.9E3 +/- 0.4E3	15.5 +/- 0.9	ND	40 +/- 5	<5
11/15/2006	200620865161	MW-49 42'	6.7E3 +/- 0.3E3	24.9 +/- 1.2	ND	58 +/- 5	5 +/- 4
11/15/2006	200620865162	MW-50 67'	5.7E3 +/- 0.3E3	30.4 +/- 1.3	ND	70 +/- 5	<5
11/16/2006	200620865166	MW-58 65'	1.9E2 +/- 1.0E2	<0.4	ND	15 +/- 4	12 +/- 2
11/16/2006	200620865167	MW-58 26'	3.3E2 +/- 1.1E2	<0.4	ND	12 +/- 4	4 +/- 2
11/16/2006	200620865169	MW-59 45'	2.0E2 +/- 1.0E2	<0.3	ND	17 +/- 4	4 +/- 3
11/16/2006	200620865170	MW-59 31'	1.9E2 +/- 1.0E2	<0.3	ND	14 +/- 5	7 +/- 3
11/16/2006	200620865171	MW-59 68'	2.6E2 +/- 1.0E2	<0.3	ND	10 +/- 5	11 +/- 3
11/16/2006	200620865164	MW-42 43'	2.48E3 +/- 0.19E3	12.9 +/- 0.7	Cs137	8.5E3 +/- 0.3E3	5.4 +/- 1.9
		MW-42 43', Cs137			8.4E3 +/- 0.3E3		
11/16/2006	200620865163	MW-42 45.5'	2.45E3 +/- 0.19E3	12.5 +/- 0.7	Cs137	7.7E3 +/- 0.2E3	11 +/- 2
		MW-42 45.5', Cs137			8.0E3 +/- 0.3E3		
11/16/2006	200620865165	MW-42 48'	2.25E3 +/- 0.19E3	9.5 +/- 0.6	Cs137	8.1E3 +/- 0.2E3	3.8 +/- 1.8
		MW-42 48', Cs137			8.1E3 +/- 0.3E3		
11/17/2006	200620865172	MW-42 41'	1.93E3 +/- 0.17E3	9.8 +/- 0.6	Cs137	7.7E3 +/- 0.2E3	20 +/- 2

Sampling Date	Sample ID	Sample Location	Thium pCi/l	Sr-90 pCi/l	Gamma SpEc	GB pCi/l	GA pCi/l
11/17/2006	200620865168	MW-42 41'	3.1E2 +/- 1.1E2	2.3 +/- 0.6	8.1E3 +/- 0.3E3	18 +/- 4	4 +/- 3
11/22/2006	200620865185	MW-48 23'	<100	<0.5	ND	3.1 +/- 1.0	0.8 +/- 0.6
11/22/2006	200620865186	MW-48 38'	<90	<0.4	ND	10 +/- 4	26 +/- 3
11/22/2006	200620865187	MW-38	<90	<0.4	ND	2 +/- 0.8	0.6 +/- 0.5
11/30/2006	200620865188	MW-60	200 +/- 110	<0.4	Ra226	26 +/- 4	47 +/- 3
		MW-60, Ra226			16 +/- 6		
11/30/2006	200620865195	MW-62	460 +/- 120	<0.4	Ra226	17 +/- 5	41 +/- 3
		MW-62, Ra226			18 +/- 7		
12/4/2006	200620865175	LAF-001	<110	<0.4	ND	18 +/- 5	16 +/- 5
12/4/2006	200620865176	LAF-002	<110	<0.4	ND	26 +/- 5	69 +/- 5
12/4/2006	200620865177	LAF-003	<110	<0.4	ND	<6	<4
12/5/2006	200620865180	USGS FLMontgomery	<110	<0.4	ND	3 +/- 1.7	<1.2
12/5/2006	200620865183	USGS RO-543-50'	<100	<0.4	ND	<5	<4
12/5/2006	200620865181	USGS RO-18	<110	<0.3	ND	<5	<3
12/6/2006	200620865178	MW-51	130 +/- 120	<0.4	Ra226, Ac228	18 +/- 9	12 +/- 5
		MW-51, Ra226			12 +/- 6		
		MW-51, Ac228			9 +/- 7		
12/6/2006	200620865182	USGS RO-543-95'	<100	<0.4	ND	<5	<4
12/6/2006	200620865184	USGS P-1217	<100	<0.4	ND	2 +/- 0.6	0.7 +/- 0.4
12/7/2006	200620865179	MW-40	190 +/- 120	<0.4	ND	<13	23 +/- 8
1/16/2007	200720875002	MW-30 74'	7.9E4 +/- 0.3E4	<0.4	ND	<9	7 +/- 2
1/16/2007	200720875003	MW-30 88'	9.3E3 +/- 0.4E3	<0.4	ND	<9	7 +/- 2
1/18/2007	200720875004	MW-31 53'	1.73E3 +/- 0.18E3	<0.4	ND	<9	2.2 +/- 1.9
1/18/2007	200720875005	MW-31 67'	1.38E4 +/- 0.06E4	<0.4	ND	<9	<2
1/18/2007	200720875006	MW-31 89'	2.8E3 +/- 0.2E3	<0.4	ND	<9	4 +/- 2
1/19/2007	200720875008	MW-32 68'	7.8E3 +/- 0.4E3	<0.4	ND	<9	<1.9
1/19/2007	200720875007	MW-32 92'	1.05E4 +/- 0.05E4	<0.4	ND	<9	<2
1/19/2007	200720875009	MW-32 140'	1.08E4 +/- 0.05E4	<0.4	ND	<9	<2
1/19/2007	200720875010	MW-32 160'	1.02E4 +/- 0.05E4	<0.3	ND	<9	<1.8
1/19/2007	200720875011	MW-32 197'	1.07E4 +/- 0.05E4	<0.3	ND	<9	<1.8
1/30/2007	200720875069	U1-CSS	1.78E3 +/- 0.16E3	21.2 +/- 1.2	ND	54 +/- 7	<2
2/9/2007	200720875071	MW-48 23'	3.3E2 +/- 1.0E2	<0.2	ND	<9	5 +/- 3
2/9/2007	200720875070	MW-48 38'	1.0E2 +/- 0.9E2	<0.3	ND	12 +/- 7	25 +/- 3
2/12/2007	200720875072	MW-38-019	2.0E3 +/- 0.17E3	<0.2	ND	<9	<3
3/7/2007	200720875133	LAF-001-(005)	<80	<0.2	ND	25 +/- 5	13 +/- 5
3/7/2007	200720875134	LAF-002-(005)	<80	0.8 +/- 0.4	ND	29 +/- 5	61 +/- 4
3/7/2007	200720875135	LAF-003-(005)	<80	<0.2	ND	8 +/- 4	<3

LAF - LaFarge Gypsum Well
 GA - Gross Alpha, GB - Gross Beta
 NA - Not Applicable (This analysis was not performed)
 ND - Non Detect (No readings at or above detection limits)
 RDP - Dissolved Radon Decay Products
 INS - Insufficient Sample Volume for this Analysis
 Sr-90 Bkg Range =0.8 - 1.3 pCi/l NYSDOH Data, 1987 - 1990.
 * Analysis for Sr-90 repeated with 600ml of sample for better counting statistics
 ** Review of GA Result requested -->sample high in suspended solids
 *** Result recalculated to account for new filter paper
 ****Turbid Sample