Mustonen, Kevin

From: Laura Novitzki [Laura.Novitzki@twinportstesting.com]
Sent: Tuesday, May 15, 2007 4:23 PM
To: Kevin.Mustonen@state.mn.us
Subject: Junction F-N-F, leak #3534

Kevin,

I updated the vapor monitoring table submitted with the Junction F-N-F 2006 Annual Monitoring Report to include the indoor air sampling results from the 4/23/07 sampling event. Looking at the results, it appears that there is some correlation between the sub-slab sample and the indoor air sample.

I also double-checked on potable well 5506B and you are correct – the person who sampled it last time assumed that the broken hand pump well was 5506B because the property owner only indicated the presence of two wells. Therefore, we should take a sample of the correct well sometime in the near future (the next scheduled sampling event is in September).

Let me know if you have any other questions.

Laura Novitzki

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Table 6 - Analytical Results of Vapor Monitoring
Junction Food-N-Fuel, MPCA Leak #3534

Compound	HRV for Air MDH guidelines (Acute)	HRV for Air - MDH guidelines (Chronic)	EPA Reference Concentration (RfC)	8/17/2005 Soil Vapor Gas Sampling				10/10/2006 Sub-Slab Vapor Sampling		4/23/07 Indoor Air Sampling	
				VS-1	VS-2**	VS-3	VS-4				
				Sample Depth (feet)							
				4.5	4	3.25	3.5	JFNF.IND001	JFNF.OUT001	IA-1	OA-1
compounds related to gasoline/diesel contamination											
Benzene	1000	1.3-4.5	-	<11.8	4,550	<1.0	<9.0	3.4	<0.87	<0.93	<1.0
Ethylbenzene	10,000	-	1,000	<15.9	<660	4.6	57.1	10	<1.2	2.8	<1.4
Toluene	37,000	400	-	<13.9	<570	10.9	112	96.6	<1.0	7.2	<1.2
1,2,4-Trimethylbenzene	-	-	6	<45.2	4,850	9.8	96.8	134	<3.4	119	<4.0
1,3,5-Trimethylbenzene	-	-	6	<45.2	1,100	4.8	170	43.2	<3.4	48.1	<4.0
m & p-xylene	43,000 total	-	700 total	75.9	10,600	14.1	466	35.5	<2.4	10.8	<2.8
o-xylene		-		<15.9	<660	4.5	211	13.8	<1.2	6.5	<1.4
other compounds detected											
Acetone	-	-	-	104	-	90.5	<6.6	252	4.8	82.6	8.6
n-Hexane	-	2,000	-	42	-	43.3	242	40.2	<0.96	5.9	<1.1
4-Ethyltoluene	-	-	-	<45.2	-	5.8	139	25	<3.4	20.9	<4.0
2-Butanone (MEK)	10,000	-	-	54.5	-	16.2	<8.3	81.9	<0.8	8.6	<0.95
Dichlorodifluoromethane	-	-	-	<30.7	<750	5.1	<23.5	5.5	2.5	2.6	2.1
Methylene chloride	-	-	-	14.3	<530	<1.1	<9.8	2.9	<0.95	<1.0	<1.1
Trichloroethene	-	-	-	40.1	<820	3.6	<15.2	2.9	<1.5	<1.6	<1.7
Cyclohexane	-	-	6,000	<12.3	-	7	<9.4	<0.91	<0.91	13.7	<1.1
Propylene	-	-	-	<6.3	-	11.2	<4.8	<0.47	<0.47	<0.5	<0.56
Carbon disulfide	6,000	700	700	<11.4	-	<0.97	<8.7	2.8	<0.84	<0.9	<1.0
Carbon tetrachloride	-	-	-	<23.5	<960	<2.0	<17.9	1.9	<1.7	<1.9	<2.1
n-Heptane	-	-	-	<15.0	-	<1.3	<11.5	5.5	<1.1	3.3	<1.3
4-Methyl-2-pentanone	-	-	-	<15.0	-	<1.3	<11.5	2.4	<1.1	<1.2	<1.3
Tetrahydrofuran	-	-	-	<10.8	-	<0.92	<8.3	471	<0.8	<0.86	<0.95
Chloromethane	-	-	- 90	<7.6	<310	<0.65	<5.8	<0.56	<0.56	1.1	<0.67
Styrene	21,000	1,000	1,000	<15.7	<650	<1.3	<12.0	<1.2	<1.2	17.4	<1.4

* All units are in ug/m3.

** VS-2 was analyzed using method TO-14 due to elevated levels of organic compounds.