Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Thursday, October 22, 2015 2:51 PM
To: 'hpietropaoli@stellar-environmental.com'
Subject: RE: RO0003143 -Sample results- 811 Paramount, Oakland

Hi Henry,
I just left a voice mail and it does appear the contingency is an appropriate next step. As mentioned, please continue to do a full TO-15 and helium analysis especially because of the detection of the 1,1,2-TCA (as well as the benzene!). In regards to crawl space venting, it will be useful for ACEH to understand what is present, so a figure of vent locations, intervals, size, and / or photos would be good. Beyond that, I've no specific comments. Good luck with the next step.

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PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Henry Pietropaoli [mailto:hpietropaoli@stellar-environmental.com]
Sent: Thursday, October 22, 2015 11:42 AM
To: Detterman, Mark, Env. Health
Subject: RO0003143 -Sample results- 811 Paramount, Oakland

Hi Mark,

Attached are table summaries of the latest soil-gas sampling showing several compounds in excess of the residential ESLs. As you know, our September 9, 2015, workplan included indoor air sampling as a contingency, however I but wanted to notify you of our plan to continue on and conduct a 24 hour indoor air survey.

So with these latest soil-gas results, specifically we are planning to collect one 24 crawl space air sample for TO15 and TO17 analysis and one outdoor (roof or garden location) air sample for TO15 analysis. Also, we have verified the venting in the crawl space.

Please let me know if you have any suggestions or comments on this next step.

Regards,

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Table 1-2
Soil-Gas Analytical Results - September 23, 2015
811 Paramount Road, Oakland, California

Analytical Method	Sample I.D. depth (feet bgs)	Contaminants (µg/m³)								Leak Check (%)
		TPHd	TVHg	Benzene	Ethyl-benzene	Toluene	Xylenes	MTBE	Naphthalene	Helium
SW8260B	SG6SA	NA	**2,000,000**	NA	NA	NA	NA	NA	NA	NA
TO17	SG6S	**240,000**	NA	NA	NA	NA	NA	NA	*<3.0*	NA
TO17	SG6S	NA	NA	NA	NA	NA	NA	NA	NA	*<0.050**
TO17	SG6SD	**230,000**	NA	NA	NA	NA	NA	NA	*<3.0*	NA
TO17	SG6SD*	NA	NA	NA	NA	NA	NA	NA	NA	*<0.050**
Residential ESL		68,000	300,000	42	490	160,000	52,000	4,700	36	NR

Notes:

Soil-gas sample number in ID refers to sample diffuser depth 'A' indicates sorbent tube TO15 analysis; d = indicates duplicate sample

* = helium leak check during TO17 sorbent tube collection analyzed from in-line Summa

ESL = Environmental Screening Level applicable to both shallow (<3 meters) and deep (>3 meters) soil-gas in residential areas where groundwater is considered a potential drinking water resource, above which additional investigation is recommended (Water Board 2013, Table E-2)

Analytical results in **bold-face** type exceed the applicable residential ESL

Analytical results shown as < and *italicized* indicate a non-detection or less than the laboratory detection limit.

NA = not analyzed; NR = not relevant

TVHg = total petroleum hydrocarbons as gasoline; TPHd = total petroleum hydrocarbons as diesel

µg/m³ = micrograms per cubic meter; bgs = feet below ground surface

Table 2-2

Analytical Results of Method TO15 Detected Compounds in Shallow Soil-Gas
September 23, 2015
811 Paramount Road, Oakland, California

Analyte	Sample SG6S	ESL
TPHg	**2,000,000**	300,000
Benzene	**600**	42
2-butanone (MEK)	1,800 j	2,200,000
Cyclohexane	24,000	NLP
Ethylbenzene	340	490
4-Ethyltoluene	130 j	31,000
Heptane	11,000	NLP
Hexane	4,600	NLP
4-methyl-2-pentanone	170 j	NLP
Methylene chloride	110	26,000
Toluene	94	160,000
1,1,2-Trichloroethane	**4,300**	76
1,2,4-Trimethylbenzene	130	NLP
1,3,5-Trimethylbenzene	150 j	NLP
Xylenes	410 j	52,000
Helium (leak check compound	*<0.050*	NR

Notes:

ESL= Environmental Screening Level for shallow soil-gas at residential sites (Water Board 2013, Table E-2).
NLP= no level published; Results in **bold-face** type exceed regulatory ESLs.
All results are reported in micrograms per cubic meter ($\mu g/m^3$)
J" indicates compound was detected below quantification limit and is a statistical estimated value.
NR = not relevant