



October 31, 2018

Mr. Chris Sklaney
U.S. Environmental Protection Agency
Region 3 Office of Superfund Site Remediation
1650 Arch Street
Philadelphia, PA 19103

**RE: Trip Report for Boarhead Farms
1310 Lonely Cottage Road
Upper Black Eddy, Pennsylvania**

Dear Mr. Sklaney:

Tetra Tech EM Inc. (Tetra Tech) has prepared this trip report describing sampling activities at the Boarhead Farms Site in Upper Black Eddy Pennsylvania in October 2018.

Tetra Tech was tasked by EPA's Environmental Response Team (ERT) to assist EPA Region 3 with collecting air from a residence located at 1310 Lonely Cottage Road in Upper Black Eddy, Pennsylvania. The air samples were collected to determine if concentrations of PCE, TCE, 1,1-DCE, cis- and trans-1,2-DCE, or vinyl chloride within the residence exceed the EPA regional screening levels (RSL) for vapor intrusion to residential indoor air.

Trip Summary

On October 2, 2018 Tetra Tech arrived at the site and prepared nine Summa canisters for air sampling. Canister start pressure and flow rate were recorded onto field data sheets for each canister. Two canisters were placed in the basement (see Figure 1). Four canisters were placed on the first floor and two canisters were placed outside the residence (see Figure 2). One canister was placed on the second floor (see Figure 3). Each canister was opened and the start time and date was recorded onto a field data sheet.

On October 3, 2018 Tetra Tech returned to the residence to collect the nine Summa canisters. Each canister was closed and the end time and date was recorded onto the field data sheet. Canister end pressure and flow rate were also recorded onto the field data sheet. Chains-of custody forms were filled out and the samples were shipped for analysis.

Analytical Results

Upon receiving analytical data report from the laboratory, data validation was performed by a Tetra Tech Toxicologist. Data validation revealed the data is usable with no problems or need for additional qualifiers.

The analytical results, provided in Table 1, indicated the presence of the following VOCs in air:

- Tetrachloroethene
- Trichloroethene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene

- trans-1,2-Dichloroethene
- vinyl chloride

Several VOCs were detected above their RSLs. Vinyl chloride and Trichloroethene was detected above the RSL for the two air samples collected from the basement of the residence. Trichloroethene was also detected above the RSL for one of the samples collected from the living room area.

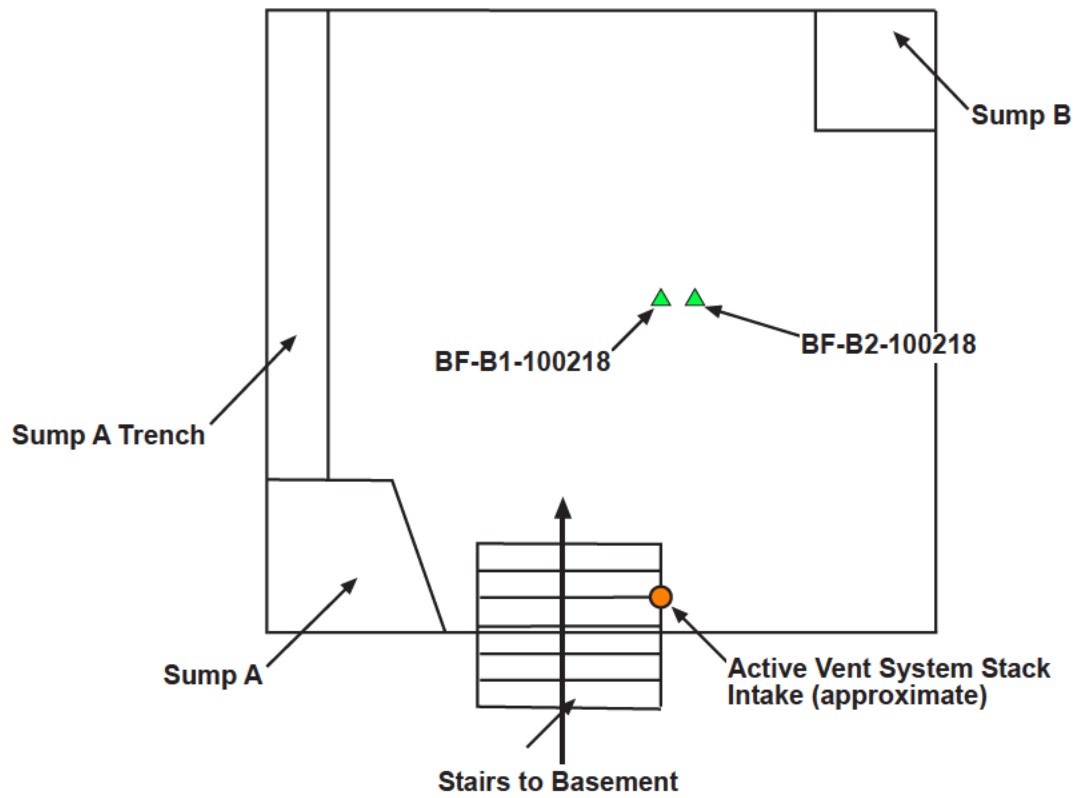
Tetra Tech appreciates the opportunity to assist EPA Region 3 with this project. Please contact me if you have any questions regarding the information provided in this report.

Sincerely,



Project Manager

FIGURES



Legend
 ▲ Air Sample



Boarhead Farms
 1310 Lonely Cottage Road
 Upper Black Eddy, Pennsylvania

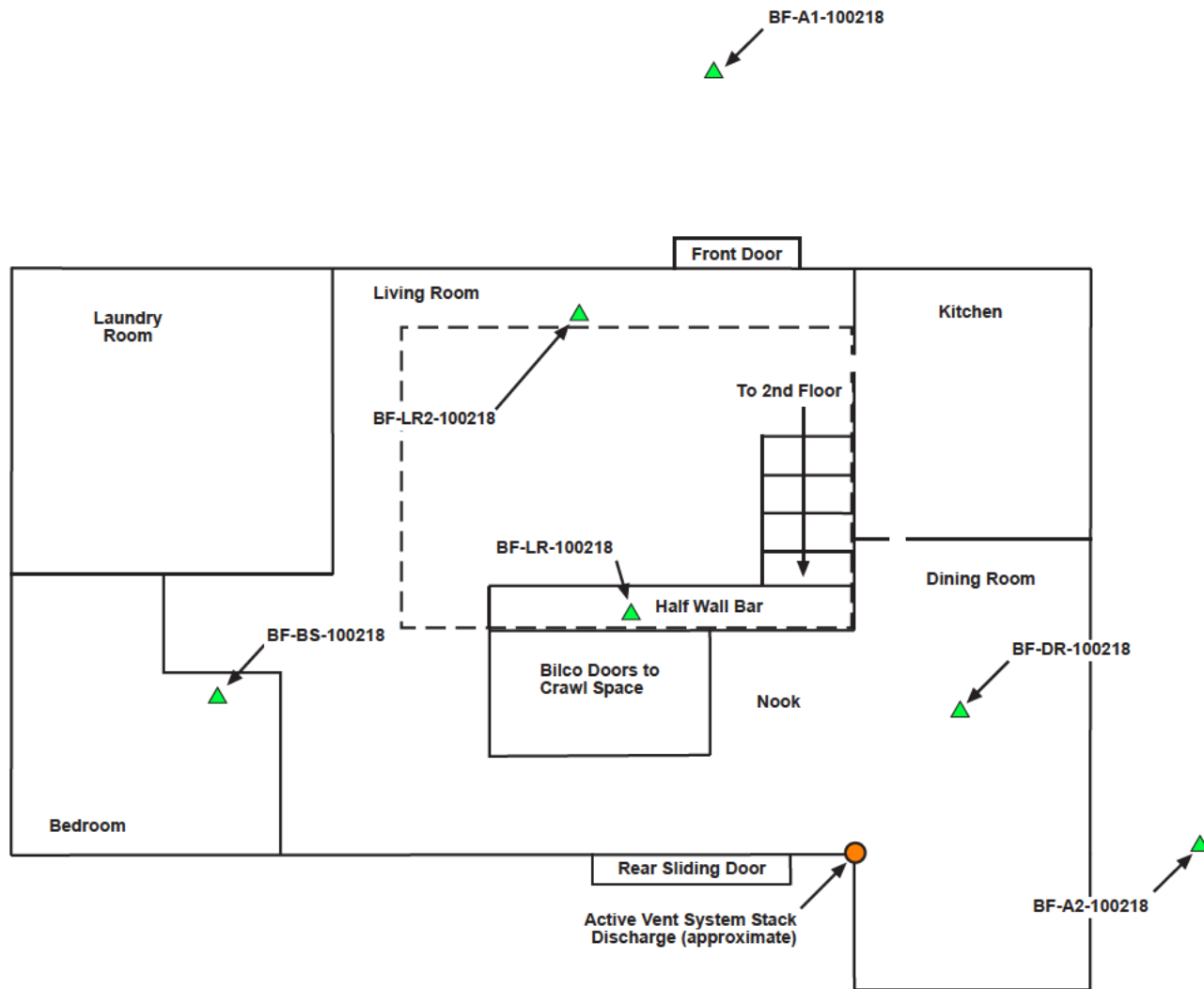
Figure 1
 Location of Basement Air
 Samples October 2018



Date 10/29/2018

Drawn By

Project No. 10323995001.006



Legend

- ▲ Air Sample
- Approximate Footprint of Basement Foundation



Not to Scale

Boarhead Farms
1310 Lonely Cottage Road
Upper Black Eddy, Pennsylvania

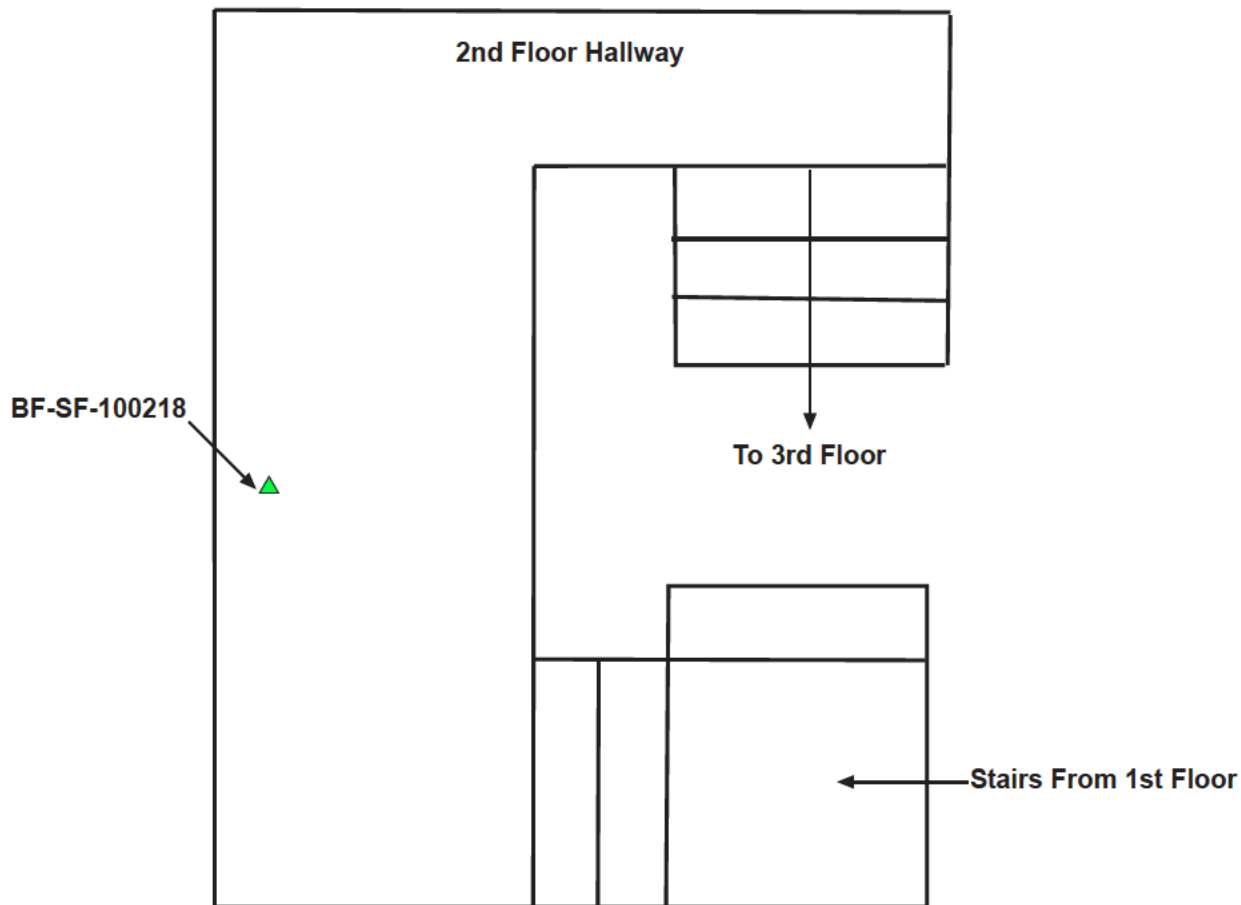
Figure 2
Location of First Floor Air
Samples October 2018



Date 10/29/2018

Drawn By

Project No. 10323995001.006



Legend
 ▲ Air Sample


 Not to Scale

Boarhead Farms
 1310 Lonely Cottage Road
 Upper Black Eddy, Pennsylvania

Figure 3
 Location of Second Floor Air
 Samples October 2018



Date 10/29/2018

Drawn By

Project No 10323995001.006

TABLE

Table 1
Air Analytical Results
Boarhead Farms
Upper Black Eddy, Pennsylvania

Sample ID	BF-B1-100218	BF-B2-100218	BF-B5-100218	BF-LR-100218	BF-LR2-100218	BF-DR-100218	BF-A1-100218	BF-A2-100218	BF-SF-100218
Collection Date	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018	10/2/2018
Collection Time	1030	1030	1042	1044	1045	1035	1024	1020	1047
Volatile Organic Compounds - $\mu\text{g}/\text{m}^3$									
Vinyl Chloride (RSL=0.17)	0.54	0.54	ND	ND	0.014	0.048	ND	ND	ND
1,1-Dichloroethene (RSL=210)	5.2	4.6	0.019	0.019	0.018	0.021	ND	ND	0.020
trans-1,2-Dichloroethene	0.18	0.18	ND	ND	0.017	ND	ND	ND	ND
cis-1,2-Dichloroethene	16	15	0.078	0.069	0.24	0.082	0.029	0.040	0.076
Trichloroethene (RSL=0.48)	120	120	0.28	0.30	0.49	0.34	0.051	0.092	0.31
Tetrachloroethene (RSL=11)	1.2	1.2	0.21	0.37	1.9	0.39	0.073	0.079	0.36

Notes:

ND: Non detect

: indicates detection above EPA regional screening level for residential air

$\mu\text{g}/\text{m}^3$: micrograms per cubic meter