KPRG

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

Rec'd 9-25-15 DAV

STATUS REPORT, ADDITIONAL WORK PLAN and BUDGET REQUEST

September 21, 2015 (Revised)

Mr. David Volkert
Wisconsin Department of Natural Resources
141 NW Barstow Street, Room 180
Waukesha, WI 53188

VIA Email and US Mail — KPRG Project 10009

Re: Status Report, Additional Work Plan and Budget Request – August 2015
Former Bask Dry Cleaners – Waukesha, WI
BRRTS# 02-68-297669, FID# 268188800

Dear Mr. Volkert:

Results from the most recent round of groundwater sampling, indoor air sampling and soil vapor sampling were received earlier this month. The groundwater data are summarized in Tables 1 and 2. The indoor air data are summarized in Table 3 and the soil vapor data are summarized in Table 4. Each is discussed separately below followed by a proposed additional scope of work and budget which is revised per our telephone discussion on September 18, 2015.

Groundwater Evaluation

The most recent round of groundwater samples were collected on June 30th and July 1st, 2015. The groundwater elevation measurements are included in Table 1 and the data are summarized in Table 2 which includes historical data. Figure 1 provides the most recent groundwater flow map (consistent with historic trends) and Figure 2 provides extent of impact contours based on that data for tetrachloroethene (PCE) and trichloroethene (TCE). There were no detections of cis-1,2 dichloroethene (DCE) above the enforcement standard (ES). The only vinyl chloride detection in the most recent sampling was 8.9 ug/l at well MW-5 which is within the source area.

A review of the groundwater impact map (Figure 2) indicates that the extent of groundwater impacts is well defined. The furthest downgradient monitoring well (MW-10) had a PCE detection of 14 ug/l which is just above the NR 140 Enforcement Standard (ES) of 5 ug/l. This indicates that well MW-10 is near the overall edge of the impact plume. At this location, TCE was detected at 3.5 ug/l (below the ES of 5 ug/l) and cis-1,2

DCE was detected at 4.3 ug/l (below the Preventative Action Limit (PAL) of 7 ug/l). This data suggests that the groundwater impact plume has been sufficiently defined.

Additional monitoring wells were proposed in the March 2015 Work Plan per WDNR directive. KPRG contracted Horizon Drilling to drill and install the requested three additional monitoring wells using standard hollow-stem auger drilling techniques. The driller encountered refusal several times at an approximate depth of 23 feet below ground surface (bgs) and there was no evidence of saturated conditions at this depth. The refusal is believed to be associated with continued cobbles and boulders. Discussions with the driller suggest that a more aggressive drilling technique, such as sonic drilling, will be required for completion of these wells. Due to the increased cost of the change in drilling technique, the three new wells have not yet been installed (estimated additional cost of approximately $20,500 of which $18,732 is for drilling and $1,770 for additional KPRG field time and expenses). Regardless of cost, we do not believe the additional sampling will provide meaningful data nor assist in the delineation of the vapor plume. It is recognized that soil vapors do not always follow groundwater flow and can follow another pathway through the unsaturated zone such as potential fractures or a more permeable soil seam. Since groundwater impacts are sufficiently defined, we request that WDNR reconsider further groundwater study. Based on our conversation on September 18, 2015 it is our understanding that WDNR still wants these wells to be installed and that will be included in the additional scope of work defined below.

<u>Soil Vapor Intrusion Evaluation</u>

<u>Indoor Air Sampling</u>

Since the previous submittal, sub-slab depressurization systems (SSDSs) were installed at 2157 Rambling Rose and 2151 Rambling Rose in January and February 2015, respectively. On June 25th and 26th, indoor air samples were collected from the basements of 2007 Capella Court, 2011 Capella Court, 2151 Rambling Rose and 2157 Rambling Rose. Table 3 summarizes this data along with indoor air data previously collected at other residences which also has SSDS systems installed. A review of Table 3 indicates that there were no detections of any CVOC in any of the samples with the exception of some minor detections of 1,2-dichloroethane which were well below the indoor air action level.

<u>Soil Vapor Probe Sampling</u>

An additional soil vapor probe (SV-12) was installed in June 2015 per the previously approved Work Plan. A complete round of soil vapor samples was collected on June 25, 2015. Table 4 summarizes all soil vapor sampling data to date including the most recent round of sampling along with a resample at probe SV-12 performed on July 28, 2015. Figure 3 provides an isoconcentration contour map of soil vapor impacts (using the initial soil vapor data from probe SV-12 which was collected at the same time as the other probe data). It indicates some elevated soil vapor impacts extending slightly northeast of the groundwater impact plume area. It is recognized that soil vapor impacts do not always mimic groundwater flow/impacts as the pathway allows for vapor migration through the unsaturated zone following potential fractures and/or more permeable soil seams. The new furthest downgradient vapor probe (VP-12) showed a soil vapor concentration of 11,000 ug/m^3 (a resample at this location indicated 27,000 ug/m^3). Based on this map, it is anticipated that the WDNR will want the residents on the north side of Rambling Rose to be approached relative to either installing a sub-slab vapor probe in the basement or installing additional SSDS systems. At the direction of our client, KPRG proactively contacted the residents of these properties. The 2156 Rambling Rose property is owned by Mr. Michael Schneider. Discussions with Mr. Schneider indicate that he is willing to allow for property access to install a vapor probe on the outside of the house (SV-13; near the foundation) and also to preventatively install a SSDS in the basement. The 2150 Rambling Rose property is owned by Mr. James Zatorski. Discussions with Mr. Zatorski indicate that he is not willing to provide access to his property. It was further explained that all residents on Capella Court and his two neighbors across the street to the south and his neighbor to the east all have agreed to provide access and install SSDSs. He reiterated that he did not want to provide us access and we were requested not to contact him again.

In addition to the proposed soil vapor probe and SSDS install noted above, another soil vapor probe (SV-14) is proposed to complete the definition of the extent of soil vapor impacts to the northeast. The location of this probe would be on the west side of Springdale Road as shown on Figure 3.

ADDITIONAL WORK PLAN SCOPE OF WORK

For budget estimating purposes, the additional work provided below is divided into the following tasks:

- Task 1 – Additional Requested Work Planning/Coordination
- Task 2 – Well Installations
- Task 2 – Additional SSDS Installation
- Task 3 – Additional Soil Vapor Probe Installations and Sampling
- Task 4 – Additional Reporting

Each task is discussed separately below.

Task 1 – Additional Requested Work Planning/Coordination

The scope of this task includes the project management and planning that will be required for the successful completion of the additional work. This includes expanding the current property access agreements (or creating a new agreement) with the Schneider residence for a SSDS installation and an new access permit will need to be obtained from City of Waukesha/Waukesha County for the installation of the proposed vapor probe within the Springdale Road (County SR) right-of-way.

Task 2 – Well Installations

The three previously requested monitoring wells will be installed, however, these will be drilled and constructed with sonic drilling techniques. This is due to the refusal encountered previously with standard hollow stem auger drill. The additional cost for the change in drilling method and associated issues (traffic control, permitting, etc.) is included in the estimate below. All other installation and reporting procedures will be followed in accordance with previously approved work plans.

Task 3 – Additional SSDS Install

Following the execution of the property access agreement, KPRG will meet with Radon Measurement & Elimination Services (RMES), a radon venting contractor that we have used extensively in the past, at the site to obtain a more accurate cost estimate for the work. However, based on recent installations for other residents in the area, RMES is anticipating installing one vapor extraction point at the sump crock within the basement. RMES will install a new sump pump (if necessary), seal the crock with a clear see-thru lid, and use the crock and associated weeping tile system as the vapor depressurization system. A "point" will then be installed into the sealed crock and vented outside with an inline fan. Pressure Field Extension (PFE) testing will be performed to verify that the footprint of the structure is being sufficiently vented, assuming the resident allows for the additional holes to be drilled through the floor for testing. The RMES estimated cost for the SSDS, including electrical hookups and subsequent pressure/vacuum testing beneath the floor slab to document the effectiveness of the system to draw vapor, is $2,700. The detailed cost breakdown sheets use $3,700 for contractor cost allowing for some additional money in case of unexpected field installation condition/issues. It is KPRG's understanding that due to the nature of this response action, obtaining three bids for this work will not be required. The system installation will require up to two days to install and one day for testing.

The WDNR has also requested that a follow-up indoor air sample be collected from within each basement approximately three months after SSDS installations. The cost of one additional ambient air sample is included within the proposed budget.

Task 4 – Additional Soil Vapor Probe Installations and Sampling

Soil Vapor Probe Installation Procedure

Three additional soil vapor probes will be installed using the direct push Geoprobe drilling method. On boring, SV-13 will be advanced near the foundation of the Schneider residence. The second boring, SV-14, will be advanced within the right-of-way of Springdale Road. The third vapor probe, as requested by WDNR (SV-15), will be in the right-of-way in front of the Zatorski residence which did not allow for access to that property. The proposed locations are provided on Figure 3. The location of the probes is intended to assist in defining the potential extent of soil vapor impacts.

The boreholes will be advanced to a depth of approximately ten feet below ground surface (bgs), or groundwater, whichever is shallower. A 1-inch diameter, schedule 40 PVC probe will be placed down hole with 3-feet of 0.010-slot screen. Clean silica sand will be placed around the screen to approximately six inches above the top of the screen. The remainder of the borehole will be backfilled with bentonite pellets and hydrated. The surface casing will be completed as a flush mount and the top of the PVC riser will be finished with an air-tight cap having a fitting to allow for vapor sample collection.

Not less than 24 hours after probe installation, the integrity of the probe seal will be tested by placing an approximately 4' by 4' section of visqueen over the ground with a hole in the center placed over the vapor probe. A plastic pail will be sealed with the visqueen over the hole and vapor probe and the atmosphere within the pail will be enriched with helium covering the entire sampling apparatus. Approximately two probe volumes of air will be purged and a vapor sample will be monitored directly for the presence of helium using an Alcatel ASM 142S, or equivalent, detector/field monitor. If no helium is detected, the probe construction will be deemed adequate for subsequent vapor sampling. If helium is detected, the probe surface seal will be re-enforced and tested again until a sufficient seal is documented. If for some reason the seal can not be adequately completed, the vapor point will be properly abandoned and redrilled/constructed within five feet of the original location.

Vapor Probe Sampling Procedure

Once an adequate surface seal is documented, a soil vapor sample will be collected from the new vapor points along with all the other vapor probes already installed (points SV-1B through SV-12) using a Summa canister with a one-hour flow control valve at each location. This will yield a total of 14 soil vapor samples. Approximately two vapor probe volumes of air will be purged from the probe. A disposable polyethylene sampling tube will then be connected from the probe sampling fitting to the Summa canister. The canister valve will be opened and a one-hour vapor sample will be collected. Once the canister is full, the valve will be closed and the canister will be disconnected from the sampling tube. The Summa canisters will then be shipped under a properly completed chain-of-custody (COC) for analysis to a Wisconsin certified laboratory.

Field notes will be maintained during each sampling event which will include the weather conditions, ambient air photoionization detector (PID) measurements and a description of any potential odors in the ambient air or other conditions that may be deemed pertinent.

Analytical Requirements
The Summa canister samples will be analyzed using the TO-15 analytical method. Since the constituent of concern at this site is tetrachloroethene (PCE), the lab will be requested to only report the chlorinated volatile organic portion of the TO15 scan which will include PCE and its breakdown products of TCE, cis-1,2-dichloroethene (DCE) and vinyl chloride as well as 1,1,1-TCA and its breakdown product of 1,1-dichoroethane (DCA) and 1,1-DCE.

As noted above, all sample collection, handling and analysis will be performed in accordance with the approved Work Plan for the work previously completed.

Task 5 – Additional Reporting

This task covers the additional effort in tabulating, evaluating and reporting the added data. This includes tables, figures and text discussions.

PATHWAY TO CLOSURE

It is our understanding that once all the SSDS systems are in place and required follow-up indoor air sampling data shows no impacts, the groundwater data continues to indicate that the plume is stable or receding, and the additional vapor sampling defines the extent of vapor impacts, that the site will be ready for conditional closure. If the data indicate that additional work is necessary, discussions will be held with WDNR to define further scope.

COST ESTIMATE

Costs are summarized in Table 5 and detailed on the costing sheets in Attachment 1. The additional requested budget for the above defined scope of work is $41,561. The unit rates used in this cost estimate are consistent with previous KPRG rates. One round of soil vapor probe sampling and two rounds of groundwater sampling are assumed.

Only those costs incurred will be billed. All billing will be performed on a monthly basis and will be broken down by task and unit rates. No additional work will be performed until formal WDNR approval of the proposed budget is received. If there are any questions, please contact me at 262-781-0475.

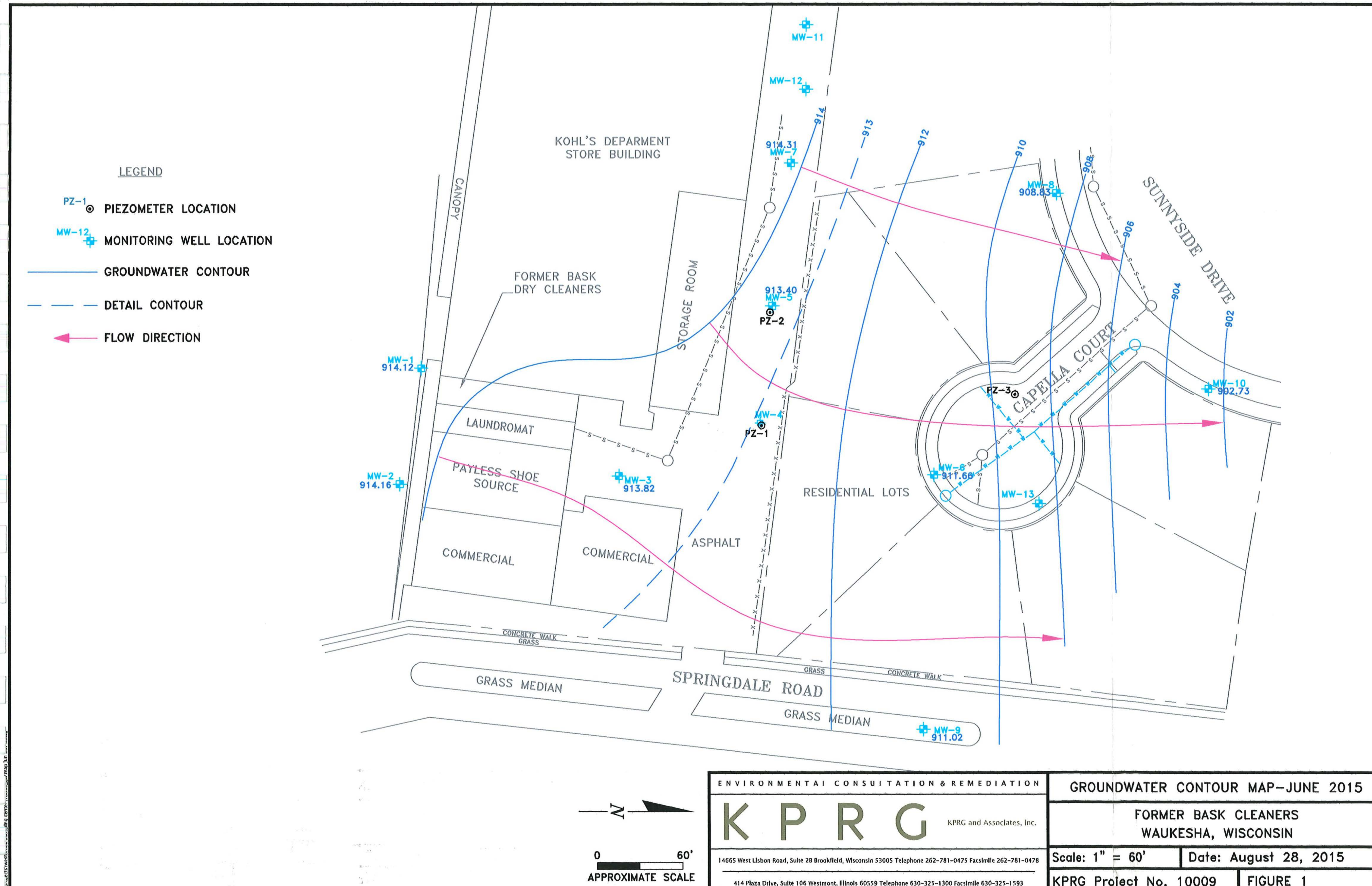
Sincerely,
KPRG and Associates, Inc.

Richard R Gnat

Richard R. Gnat, P.G.
Principal

cc: Mr. Greg Butts, former Bask Dry Cleaners
Ms. Michelle Williams, Whyte Hirschboeck Dudek, S.C.
Mr. Donald Gallo, Whyte Hirschboeck Dudek, S.C.

FIGURES



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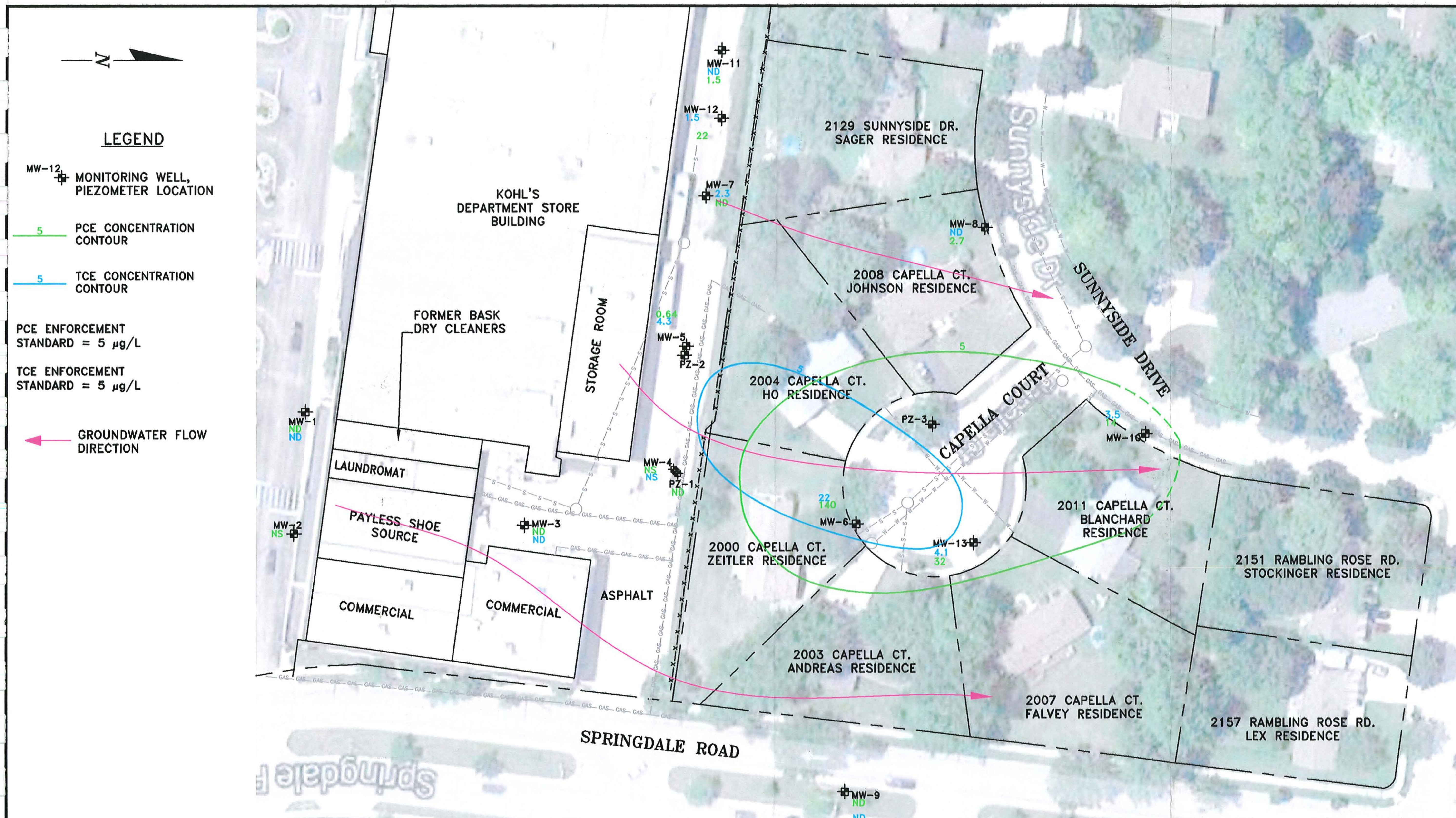
GROUNDWATER CONTOUR MAP-JUNE 2015

FORMER BASK CLEANERS
WAUKESHA, WISCONSIN

Scale: 1" = 60'	Date: August 28, 2015
KPRG Project No. 10009	FIGURE 1



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AREAL EXTENT OF GROUNDWATER IMPACTS	
WESTBROOK SHOPPING CENTER WAUKESHA, WISCONSIN	
Scale: 1" = 60'	Date: August 28, 2015
KPRG Project No. 10009	FIGURE 2

LEGEND

MW-12 MONITORING WELL, PIEZOMETER LOCATION

SV-1 TEMPORARY SOIL VAPOR PROBE (2005), ABANDONED

SV-1A SOIL VAPOR PROBE INSTALLED IN 2012

SV-3 SOIL VAPOR PROBE LOCATIONS INSTALLED IN 2014

SV-12 SOIL VAPOR PROBE INSTALLED IN JUNE 2015

SV-13 PROPOSED ADDITIONAL SOIL VAPOR PROBE

GROUNDWATER FLOW DIRECTION

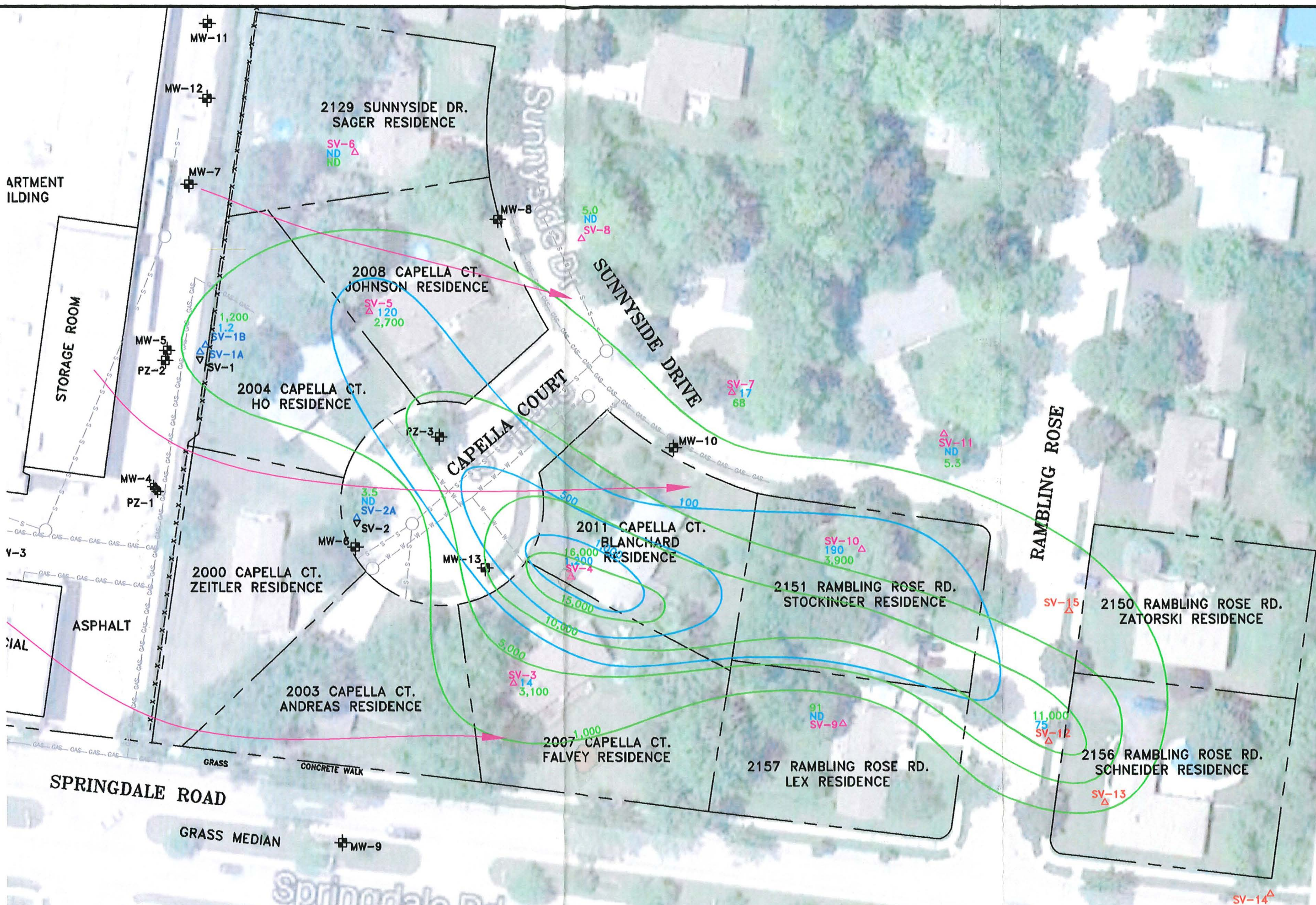
1,000 PCE CONCENTRATION CONTOUR

100 TCE CONCENTRATION CONTOUR

PCE VAPOR RISK SCREENING LEVEL = 4,200 μg/m³

TCE VAPOR RISK SCREENING LEVEL = 210 μg/m³

0 60'
APPROXIMATE SCALE



ENVIRONMENTAL CONSULTATION & REMEDIATION	EXTENT OF SOIL VAPOR IMPACTS	
KPRG — KPRG and Associates, Inc.	WESTBROOK SHOPPING CENTER WAUKESHA, WISCONSIN	
14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478	Scale: 1" = 60'	Date: September 21, 2015
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593	KPRG Project No. 10009	FIGURE 3

TABLES

Table 1. Water Level Elevation Table - Former Bask Dry Cleaners, Westbrook Shopping Center, Waukesha, WI

WELL	USGS Datum Elevations			3/23/2005		10/19/2005		6/19/2008		8/25/2008		8/20/2009		12/7/2009		3/10/2010	
	Ground	Top of Casing	Bottom of Well	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	941.64	941.25	906.25	27.46	913.79	28.11	913.14	24.31	916.94	24.22	917.03	24.51	916.74	25.10	916.15	25.23	916.02
MW-2	942.41	942.07	907.07	28.45	913.62	29.17	912.90	26.25	915.82	25.20	916.87	25.48	916.59	26.07	916.00	26.21	915.86
MW-3	937.79	937.32	905.32	24.07	913.25	24.90	912.42	20.80	916.52	21.33	915.99	21.68	915.64	22.11	915.21	22.11	915.21
MW-4	932.33	931.89	901.89	19.18	912.71	20.05	911.84	15.54	916.35	16.30	915.59	16.37	915.52	17.00	914.89	16.97	914.92
MW-5	934.42	934.08	909.08	20.82	913.26	21.35	912.73	17.62	916.46	18.15	915.93	18.25	915.83	18.76	915.32	19.90	914.18
MW-6	925.93	925.65	905.65	13.96	911.69	15.15	910.50	10.21	915.44	11.61	914.04	>11.8	NV	11.98	913.67	11.87	913.78
MW-7	935.95	935.58	907.58	21.98	913.60	23.17	912.41	18.85	916.73	19.22	916.36	18.35	917.23	18.89	916.69	18.30	917.28
MW-8	923.36	922.92	900.92	12.58	910.34	14.96	907.96	11.01	911.91	12.88	910.04	12.93	909.99	12.91	910.01	12.90	910.02
MW-9	919.56	919.23	902.23	8.18	911.05	9.50	909.73	4.34	914.89	5.83	913.40	5.81	913.42	6.11	913.12	5.75	913.48
MW-10	918.24	917.88	899.88	15.31	902.57	17.40	900.48	8.24	909.64	12.52	905.36	12.35	905.53	12.51	905.37	11.43	906.45
MW-11	NS	NS	NS	NM	NS	NM	NS	19.42	NS	19.15	NS	19.45	NS	20.00	NS	19.75	NS
MW-12	NS	NS	NS	NM	NS	NM	NS	17.55	NS	17.99	NS	17.96	NS	18.55	NS	17.30	NS
MW-13	NS	NS	NS	NM	NS	NM	NS	9.84	NS	10.93	NS	10.88	NS	11.03	NS	10.43	NS
PZ-1	932.34	931.82	886.82	40.51	891.31	41.20	890.62	40.92	890.90	40.90	890.92	40.46	891.36	40.74	891.08	39.00	892.82
PZ-2	934.27	933.79	873.79	DRY	NV	NM	NV	59.14	874.65	59.30	874.49	58.96	874.83	59.05	874.74	59.00	874.79
PZ-3	NS	922.99	NS	DRY	NV	NM	NV	DRY	NV	DRY	NV	DRY	DRY	DRY	DRY	DRY	DRY

WELL	USGS Datum Elevations			6/4/2010		12/16/2010		6/21/2011		6/20/2012		1/18/2013		10/22/2014		6/30/2015	
	Ground	Top of Casing	Bottom of Well	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	941.64	941.25	906.25	25.03	916.22	25.33	915.92	24.96	916.29	26.58	914.67	27.51	913.74	26.29	914.96	27.13	914.12
MW-2	942.41	942.07	907.07	24.97	917.10	26.24	915.83	25.92	916.15	27.34	914.73	NM	NM	27.04	915.03	27.91	914.16
MW-3	937.79	937.32	905.32	21.86	915.46	22.40	914.92	21.87	915.45	23.26	914.06	23.88	913.44	23.12	914.20	23.50	913.82
MW-4	932.33	931.89	901.89	16.71	915.18	17.33	914.56	16.73	915.16	DRY	DRY	DRY	DRY	17.90	913.99	DRY	DRY
MW-5	934.42	934.08	909.08	19.15	914.93	18.94	915.14	18.51	915.57	20.18	913.90	21.02	913.06	20.02	914.06	20.68	913.40
MW-6	925.93	925.65	905.65	11.91	913.74	12.43	913.22	11.71	913.94	13.32	912.33	14.18	911.47	13.35	912.30	13.99	911.66
MW-7	935.95	935.58	907.58	17.85	917.73	19.40	916.18	18.24	917.34	20.85	914.73	21.96	913.62	20.56	915.02	21.27	914.31
MW-8	923.36	922.92	900.92	12.58	910.34	13.56	909.36	12.78	910.14	13.88	909.04	14.09	908.83	13.84	909.08	14.09	908.83
MW-9	919.56	919.23	902.23	5.90	913.33	7.59	911.64	5.76	913.47	7.55	911.68	8.43	910.80	7.11	912.12	8.21	911.02
MW-10	918.24	917.88	899.88	11.78	906.10	13.73	904.15	12.30	905.58	14.15	903.73	16.02	901.86	14.86	903.02	15.15	902.73
MW-11	NS	NS	NS	19.55	NS	20.30	NS	19.77	NS	21.32	NS	22.23	NS	21.21	NS	22.00	NS
MW-12	NS	NS	NS	18.34	NS	18.75	NS	18.46	NS	19.84	NS	20.96	NS	19.65	NS	20.69	NS
MW-13	NS	NS	NS	10.78	NS	11.53	NS	10.62	NS	11.50	NS	12.13	NS	11.72	NS	11.72	NS
PZ-1	932.34	931.82	886.82	40.25	891.57	39.18	892.64	40.35	891.47	40.08	891.74	41.23	890.59	39.95	891.87	40.38	891.44
PZ-2	934.27	933.79	873.79	58.98	874.81	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
PZ-3	NS	922.99	NS	DRY	NS	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

Notes: All USGS elevation data in feet above mean sea level.
All depth to water data in feet below top of casing.
KPRG and Associates, Inc. data begins 8/20/09

NS- Not Surveyed
NM- Not Measured
DRY- Well was dry

Table 2. Summary of Groundwater Analytical Results - former Bask Dry Cleaners

Sample	WDNR NR 140 Standards		MW-1											MW-3											MW-4											MW-5										
Parameter / Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/23/14	06/30/15	06/19/08	08/21/09	12/07/09	03/18/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	07/01/15
Chloroethane	80	400	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	<0.34	NS	U	19 J	<4.0	<4.0	<2.0	<2.0	<20	<0.34	<0.34	<0.34	<0.34
Chloroform	0.6	6.0	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.20	NS	U	<1.6	<0.80	<0.80	<0.40	6.8	15 J	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	7.0	70	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.12	NS	54.6	<4.0	3.6 J	170	17	1,500	1300	470	370	100	39
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.25	NS	<17.8	<4.0	<2.0	<0.20	<1.0	15	18 J	5.0	3.2	2.1	2.8
Methylene Chloride	0.5	5.0	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS	<0.68	NS	U	<8.0	<4.0	<4.0	<2.0	5.2	<20	<0.68	<0.68	<0.68	<0.68
Napthalene	10	100	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	0.33 J	<0.25	<0.25	<0.25	<0.25	<0.25	NS	NS	<0.16	NS	<14.8	<2.0	<1.0	<1.0	<0.50	<0.50	<5.0	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.5	5.0	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.77 J	1.6	<0.17	<0.17	217	<0.50	3.2	3.2	0.69 J	<0.50	1.9 J	NS	NS	1.4	NS	1,940	190	190	880	96	200	48	2.3	3.6	1.3	0.64
1,1,1-Trichloroethane	40	200	<0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NS	NS	<0.20	NS	<18	<4.0	<2.0	<2.0	<1.0	<1.0	<10	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.19	NS	16.7	<1.6	2.9	43	8.6	38	60	1.1	1.7	0.20	4.3
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	NS	<0.10	NS	U	<1.6	<0.80	<0.80	<0.40	12	9.0 J	7.3	2.6	0.89	8.9
Dissolved Oxygen (mg/l)	NE	NE	U	4.99	3.76	4.55	5.01	5.27	6.04	5.18	5.13	4.38	6.15	U	0.10	0.76	0.02	0.03	0.30	0.13	0.02	0.07	0.12	0.50	U	2.75	1.31	5.20	1.10	1.67	NA	NS	NS	1.66	NS	U	3.18	0.66	NA	5.03	1.77	0.15	0.43	0.16	0.16	0.73
Oxidation-Reduction Potential	NE	NE	U	37.2	285	273	287.2	49.9	267.9	212.8	87.7	181.9	201.3	U	-130	97.7	-162.5	54.2	-34.1	33.6	142.3	73.4	43.7	54.7	U	-82	209	-1.7	143.5	-4.6	NA	NS	NS	78.4	NS	U	30	-156	NA	-27.8	-13.7	-116.1	-71.4	-50.7	-56.9	-73.6

Sample	WDNR NR 140 Standards		MW-6											MW-7											MW-8											MW-9										
Parameter / Date	PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/18/12	01/18/13	10/22/14	06/30/15
Chloroethane	80	400	U	NS	<40	<32	<16	<10	<20	<0.34	<0.34	<0.34	<0.34	U	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34
Chloroform	0.6	6.0	U	NS	<8.0	<6.4	<3.2	<2.0	<4.0	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	9.8	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	7.0	70	44.5	NS	21 J	26 J	24 J	2,400	1900	240	82	110	36	2.5	0.86 J	<0.50	<0.50	<0.50	0.62 J	<0.50	4.3	3.4	1.3	<0.12	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12
trans-1,2-Dichloroethene	20	100	<4.4	NS	<20	<16	<8.0	37	50	11	3.9	9.2	1.6	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	1.8	0.74	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25
Methylene Chloride	0.5	5.0	U	NS	<40	<32	<16	<10	<20	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	8.4	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68
Napthalene	10	100	<3.7	NS	<10	<8.0	<4.0	<2.5	<5.0	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.5	5.0	653	NS	1,700	1,400	500	430	400	320	260	220	140	48.8	22	30	25	22	34	28	1.7	1.2	<0.17	<0.17	<0.45	<0.50	<0.50	<0.50	<0.50	1.2 J	<0.50	1.3	1.7	1.8	2.7	<0.45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.17	<0.17	<0.17	<0.17
1,1,1-Trichloroethane	40	200	<4.5	NS	<20	<16	<8.0	<5.0	<10	<0.20	<0.20	<0.20	<0.20	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.9	0.58 J	0.52 J	<0.50	0.55 J	0.57 J	0.52 J	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5.0	8.9	NS	8.4 J	550	640	450	230	160	57	69	22	4.7	3.2	1.9	1.4	2.0	11	2.8	18	10	6.0	2.3	<0.48	<0.20	<0.20	<0.20	<0.20	0.58 J	<0.20	0.62	0.41	0.36	<0.19	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19
Vinyl Chloride	0.02	0.2	U	NS	<8.0	<6.4	<3.2	<2.0	<4.0	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	0.28	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Dissolved Oxygen (mg/l)	NE	NE	U	NS	2.43	0.64	1.20	0.33	0.46	0.77	3.74	0.08	0.94	U	2.84	2.10	1.86	1.60	0.61	0.05	0.38	0.00	0.21	0.64	U	2.57	4.96	3.91	6.00	1.66	7.05	3.92	1.44	1.80	3.09	U	4.93	3.83	6.84	4.91	4.80	4.86	4.27	4.71	3.65	5.61
Oxidation-Reduction Potential	NE	NE	U	NS	-40.7	-171.2	-117.8	-30.7	13.1	-18.1	75.2	92.2	78.5	U	-63.4	-194	-199.9	-142.9	-90.6	-190.8	-106.3	-30.7	-62.8	-71.6	U	-60.7	143	212.9	80.5	-1.2	127.07	61.5	76.5	137.7	123.3	U	-67.9	60	-44.1	20.2	18.5	74.13	159.2	70.6	74.7	73.3

Sample	WDNR NR 140 Standards		MW-10											MW-11											MW-12											MW-13										
Parameter / Date	PAL	ES	06/19/08	08/20/09	12/07/09	03/18/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15	06/19/08	08/20/09	12/07/09	03/10/10	06/04/10	12/17/10	06/22/11	06/21/12	01/18/13	10/22/14	06/30/15
Chloroethane	80	400	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	NS	<0.34	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34
Chloroform	0.6	6.0	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NS	<0.20	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	7.0	70	<0.83	2.5	2.2	<0.50	1.0 J	1.5 J	1.1 J	0.77 J	<0.12	12.0	4.3	<0.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12	2.0	2.1	2.6	1.4 J	1.3 J	2.2	1.3 J	2.9	1.7	NS	2.5	34.8	26	25	24	17	16	40	23	9.7	16	16
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	NS	<0.25	1.1	1.7	0.80 J	1.6 J	0.79 J	0.74 J	1.30 J	1.1	0.62	<0.25	0.95
Methylene Chloride	0.5	5.0	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	NS	<0.68	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68
Napthalene	10	100	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	NS	<0.16	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.5	5.0	2.8	15	11	7.4	13	13	13	13	12	11	14	9.5	2.9	1.8	3.1	3.9	1.7 J	4.6	1.4	2.5	1.1	1.8	45.7	54	34	31	51	19	49	23	29	NS	22	13.8	53	58	54	41	39	60	40	32	21	32
1,1,1-Trichloroethane	40	200	<0.67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	NS	<0.20	<0.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5.0	<0.48	0.94	1.2	0.41 J	0.85 J	1.7 J	0.93 J	0.89	0.85	4.0	3.6	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	4.3	4.6	2.8	3.5	4.8	2.3	3.8	2.6	1.9	NS	1.5	1.7	2.6	2.4	3.1	2.1	8.5	18	11	9.6	3.9	4.1
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	NS	<0.10	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Dissolved Oxygen (mg/l)	NE	NE	U	5.19	4.24	NA	5.01	3.46	6.46	5.15	7.25	4.67	7.65	U	2.66	2.31	5.82	3.55	1.81	2.23	1.77	2.43	1.78	3.15	U	2.98	2.34	7.14	2.97	1.25	2.67	2.35	3.78	NS	3.61	U	0.09	1.23	0.45	0.31	0.39	0.52	1.04	0.36	0.37	1.07
Oxidation-Reduction Potential	NE	NE	U	-60.7	154	NA	145.9	14.1	155.3	103.3	74.9	130.9	114.0	U	-84.2	155	121.1	-23.4	-9.0	59.7	184.0	69.7	118.9	79.0	U	-70.4	175	144.7	126.6	-18	56.30	22.9	79.6	NS	86.3	U	-117	56.9	53.6	47.2	-13.2	21.1	-18.1	57.0	36.8	22.8

Sample	WDNR NR 140 Standards		PZ-1										
Parameter / Date	PAL	ES	06/19/08	08/21/09	12/07/09	03/10/10	06/04/10	12/16/10	06/22/11	06/21/12	01/18/13	10/22/14	07/01/15
Chloroethane	80	400	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.34
Chloroform	0.6	6.0	U	<0.20	<0.20	0.75	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethene	7.0	70	0.97	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.12	<0.12	<0.12	<0.12
trans-1,2-Dichloroethene	20	100	<0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25
Methylene Chloride	0.5	5.0	U	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.68	<0.68	<0.68	<0.68
Napthalene	10	100	<0.74	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.5	5.0	0.64	<0.50	<0.50	<0.50	<0.50	1.4 J	<0.50	<0.17	1.6	<0.17	<0.17
1,1,1-Trichloroethane	40	200	<0.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5.0	<0.48	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19
Vinyl Chloride	0.02	0.2	U	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10
Dissolved Oxygen (mg/l)	NE	NE	U	4.31	1.82	5.64	1.45	0.71	1.12	4.33	4.64	2.80	2.43
Oxidation-Reduction Potential	NE	NE	U	-69.9	183	-76.8	71.8	-11.3	5.83	101	43.4	117.2	54.0

Notes: All values are in µg/l unless otherwise noted.
PAL - Preventative Action Limit
ES - Enforcement Standard
NE - Standard Not Established

BOLD - Result exceeds the PAL
<u>**BOLD**</u> - Result exceeds the ES
NS - Not Sampled
NA - Not Analyzed
U Pre Injection Data (unknown)

J - Estimated value. Result between method detection limit and limit of quantification.
ET - Endpoint timeout caused by matrix interference.
M - The MS and or MSD were outside control limits.
pH - The pH was outside range and the sample was adjusted.

Table 3 - Summary of Indoor Air Data for Chlorinated Compounds Only - Former Bask Dry Cleaners

Sample Name	WDNR Residential VAL	2003 Capella Court	2000 Capella Court	2004 Capella Court	2008 Capella Court
Parameter / Date	Indoor Air	01/15/15	01/15/15	01/15/15	01/15/15
cis-1,2-Dichloroethene	NS	<0.79	2.0	<0.79	<0.79
trans-1,2-Dichloroethene	NS	<0.79	<0.79	<0.79	<0.79
Tetrachloroethene	42	<1.4	<1.4	<1.4	<1.4
Trichloroethene	2.1	<1.1	<1.1	<1.1	<1.1

Sample Name	WDNR Residential VAL	2007 Capella Court	2011 Capella Court	2151 Rambling Rose	2157 Rambling Rose
Parameter / Date	Indoor Air	06/26/15	06/25/15	06/25/15	06/25/15
1,2-Dichloroethane	18	1.6	<0.81	<0.81	2.6
cis-1,2-Dichloroethene	NS	<0.79	<0.79	<0.79	<0.79
trans-1,2-Dichloroethene	NS	<0.79	<0.79	<0.79	<0.79
Tetrachloroethene	42	<1.4	10.0	<1.4	<1.4
Trichloroethene	2.1	<1.1	<1.1	<1.1	<1.1

Notes : All values in ug/m^3.
VAL - Vapor Action Level
NS - No Standard
BOLD - Result exceeds the VAL

Table 4 - Summary of Soil Vapor Data for Detected Chlorinated Compounds Only - Former Bask Dry Cleaners

Sample Name	WDNR Residential VRSL		SV-1	SV-1A	SV-1B				SV-2	SV-2A			
Parameter / Date	Sub-Slab	Deep Soil	03/02/05	11/02/12	12/11/12	10/01/14	12/27/14	06/25/15	03/02/05	11/02/12	10/01/14	12/27/14	06/25/15
1,1-Dichloroethene	7,000	21,000	ND	16	<0.79	<7.9	<0.79	<0.79	ND	<0.79	<16	<0.79	1.3
cis-1,2-Dichloroethene	NC	NC	ND	<0.79	<0.79	<7.9	<0.79	<0.79	ND	<0.79	<16	<0.79	<0.79
trans-1,2-Dichloroethene	NC	NC	ND	<0.79	<0.79	<7.9	<0.79	<0.79	ND	<0.79	<16	<0.79	<0.79
Methylene Chloride	21,000	63,000	ND	NA	NA	<6.9	NA	NA	ND	NA	<14	NA	NA
Tetrachloroethene	1,400	4,200	29.64	2,000	880	2,800	600	1,200	5.03	3.3	**4,500**	390	3.5
Trichloroethene	70	210	ND	12	1.7	<11	<1.1	1.2	ND	<1.1	460	29	<1.1

Sample Name	WDNR Residential VRSL		SV-3			SV-4			SV-5			SV-6		
Parameter / Date	Sub-Slab	Deep Soil	09/30/14	12/27/14	06/25/15	09/30/14	12/27/14	06/25/15	09/30/14	12/27/14	06/25/15	09/30/14	12/27/14	06/25/15
1,1-Dichloroethene	7,000	21,000	<3.2	<0.79	<0.79	<40	<0.79	<3.2	3.3	<0.79	<0.79	1.3	<0.79	<0.79
cis-1,2-Dichloroethene	NC	NC	<3.2	<0.79	<0.79	270	11	520	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79
trans-1,2-Dichloroethene	NC	NC	<3.2	<0.79	<0.79	310	10	120	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79
Methylene Chloride	21,000	63,000	<2.8	NA	NA	59	NA	NA	0.94	NA	NA	0.8	NA	NA
Tetrachloroethene	1,400	4,200	**7,500**	3,500	3,100	**81,000**	1,100	**16,000**	4.5	<1.4	2,700	8.8	1.5	<1.4
Trichloroethene	70	210	120	35	14	**6,400**	160	**1,200**	<1.1	<1.1	120	<1.1	<1.1	<1.1

Sample Name	WDNR Residential VRSL		SV-7			SV-8			SV-9		SV-10		SV-11		SV-12	SV-12 (resample)
Parameter / Date	Sub-Slab	Deep Soil	09/30/14	12/27/14	06/25/15	09/30/14	12/27/14	06/25/15	12/27/14	06/25/15	12/27/14	06/25/15	12/27/14	06/25/15	06/25/15	07/28/15
1,1-Dichloroethene	7,000	21,000	<20	<0.79	<0.79	<7.9	<0.79	<0.79	<6.3	<0.79	<0.79	<0.79	<0.79	<0.79	<3.2	< 0.79
cis-1,2-Dichloroethene	NC	NC	<20	<0.79	<0.79	<7.9	<0.79	<0.79	180	<0.79	6.3	22	<0.79	<0.79	14	15
trans-1,2-Dichloroethene	NC	NC	<20	<0.79	<0.79	<7.9	<0.79	<0.79	<6.3	<0.79	1.3	1.3	<0.79	<0.79	4.4	5.2
Methylene Chloride	21,000	63,000	<17	NA	NA	<6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1,400	4,200	750	110	68	<14	<1.4	5.0	**5,000**	81	750	3,900	3.2	5.3	**11,000**	**27,000**
Trichloroethene	70	210	140	27	17	<11	<1.1	<1.1	91	<1.1	33	190	<1.1	<1.1	75	140

Notes : All values in ug/m^3.
VRSL - Vapor Risk Screening Level
BOLD - Result exceeds the Deep Soil VRSL
NA - Not Analyzed
NC - Not Calculated
ND - Not Detected
It is noted that 111-TCA was detected below standard at SV-7 on 12/27/14.

Table 5. Additional Probe Install and Sampling Budget Summary - Former Bask Dry Celaners, Waukesha WI
21-Sep-15

Task	KPRG Labor	Expenses	Contractors					Totals
			Analytical	SSDS Install Contractor	Driller	IDW Disposal	Surveyor	
1) Site Meetings and Planning	$1,941	$60	$0	$0	$0	$0	$0	$2,001
2) Additional Well Installation Costs	$1,690	$120	$0	$0	$18,732	$0	$0	$20,542
3) Sub-slab Depressurization System Installs and Testing	$1,418	$120	$235	$3,700	$0	$0	$0	$5,473
4) Soil Vapor Probe Installation and Sampling	$4,211	$830	$3,525	$0	$4,000	$0	$0	$12,566
5) Additional Reporting	$979	$0	$0	$0	$0	$0	$0	$979
Totals	$10,239	$1,130	$3,760	$3,700	$22,732	$0	$0	$41,561

ATTACHMENT 1
COSTING BACKUP

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 1 Additional Requested Work Planning/Coordination

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		8	$1,080.00
Field Eng./Sci.	$68		12	$816.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$1,941.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	1	$60.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$60.00

Contractors	Rate	Type	Units	Total
None.				$0.00
			Total Contractors	$0.00

TASK TOTAL:	$2,001.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 2 Additional Well Installation Costs

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		2	$270.00
Field Eng./Sci.	$68		20	$1,360.00
CADD	$60		1	$60.00
Admin. Asst/ Word Proc.	$45		0	$0.00
			Total Labor	$1,690.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	2	$120.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$120.00

Contractors	Rate	Type	Units	Total
Horizon Drilling	$18,732	Est.	1	$18,732.00
		Total Contractors		$18,732.00

TASK TOTAL:	$20,542.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 3 Sub-Slab Depresurrization System Installation/Testing

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		2	$270.00
Field Eng./Sci.	$68		16	$1,088.00
CADD	$60		1	$60.00
Admin. Asst/ Word Proc.	$45		0	$0.00
			Total Labor	$1,418.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	2	$120.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$120.00

Contractors	Rate	Type	Units	Total
RMES	$3,700	Est.	1	$3,700.00
Summa Canister Rental	$60	Each	1	$60.00
Laboratory Analytical	$175	Each	1	$175.00
		Total Contractors		$3,935.00

TASK TOTAL:	$5,473.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task: 4 Additional Soil Vapor Probe Installation, Testing and Sampling

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		4	$540.00
Field Eng./Sci.	$68		52	$3,536.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		3	$135.00
			Total Labor	$4,211.00

External Expenses	Rate	Type	Units	Total
Photoionization Detector	$75	Daily	4	$300.00
Field Vehicle	$60	Daily	4	$240.00
Sub-slab Probes	$850	Kit	0	$0.00
Concrete Drill Setup	$100	Daily	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
Helium Detection Kit	$145	Daily	2	$290.00
			Total Expenses	$830.00

Contractors	Rate	Type	Units	Total
Driller	$4,000	Est.	1	$4,000.00
Summa Canister Rental	$60	Each	15	$900.00
Laboratory Analytical	$175	Each	15	$2,625.00
			Total Contractors	$7,525.00

TASK TOTAL: $12,566.00

KPRG TASK COSTING SHEET

Project: Former Bask Dry Cleaner - Westbrook Shopping Center - Waukesha, WI

Task:5 Additional Reporting

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		2	$270.00
Field Eng./Sci.	$68		8	$544.00
CADD	$60		2	$120.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$979.00

External Expenses	Rate	Type	Units	Total
Reproduction	$50	Est.	0	$0.00
Field Vehicle	$60	Daily	0	$0.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Expenses	$0.00

Contractors	Rate	Type	Units	Total
None.				$0.00
			Total Contractors	$0.00

TASK TOTAL:	$979.00
PROJECT TOTAL:	$41,561.00