

January 31, 2011

Michael A. Mason, P.E.
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Submitted via email

**Subject: Korkay, Inc. Site #5-18-014
March 2010 Soil Boring Summary**

Dear Mr. Mason,

At the request of the NYSDEC, AECOM completed a series of soil borings at the Korkay Inc. Site in March 2010. This letter report presents the findings of the investigation including field observations, laboratory results, a summary of the nature and extent of on-site subsurface soil impacts, and a discussion of remedial alternatives. The site location is presented on **Figure 1**.

A Remedial System Optimization Report (RSO) prepared by AECOM in August 2009 evaluated historical remedial actions including the SVE/AS system which had operated at the Site from 1998 through 2003. In August 2007 soil borings were installed within the SVE/AS treatment area to collect soil data in support of the RSO. The RSO determined that the SVE/AS was effective in reducing VOC concentrations in the vadose zone soils closest to the VEWs, but that "dead zones" exist in the areas between the VEWs; VOC concentrations had not been significantly reduced in the saturated soils. A focused feasibility study was prepared as part of the RSO for additional remedial measures to address remaining subsurface impacts. The recommended alternative was for the excavation and off-site disposal of soil exceeding the Standards Criteria and Guidance (SCGs) of Unrestricted Use Soil Cleanup Objectives from 6 NYCRR Subpart 375-6 (December 14, 2006). Based on the data available during the preparation of the RSO, the area of impacted soil was assumed 60-feet (ft) by 60-ft; the actual extent of contaminated soil had not been delineated as part of the August 2007 sampling event. The RSO estimated 1,200 tons of soil would be excavated and sent off site for disposal. This alternative included the reuse of the top 6-ft of soil, and excavation to the top of the clay layer approximately 12-ft below ground surface (bgs). The proposed remedy included the use of a temporary groundwater treatment system for dewatering the excavation.

Methodology

At the request of the NYSDEC 88 soil borings were installed in March 2010 to delineate the 60-ft by 60-ft excavation area proposed in the RSO. However, the borings completed on the edge of that area appeared to be impacted and the NYSDEC asked AECOM to complete additional borings to further delineate the nature and extent of soil impacts beyond the 60-ft by 60-ft area. A total of 28 soil borings were installed (ASB-1 through ASB-28 as presented on **Figure 2**. The borings were advanced with a track mounted Geoprobe® utilizing 4-ft and/or 5-ft macrocores. An AECOM geologist logged the soil and noted any visual or olfactory evidence of impacts. The soil cores were

screened with a PID in 6-inch intervals and headspace readings were taken with the PID from a composite soil sample at 5-ft intervals. The headspace PID readings and evidence of impacts are presented in **Table 1** and **Figure 2**. Samples were collected for laboratory analysis at select locations to characterize the nature of the impacts and delineate the vertical and horizontal extent of on-site impacted soil. A majority of the samples around the former AS/SVE area were collected from the underlying clay aquitard to delineate the vertical extent of the impacted soil. The samples were sent under chain of custody to Mitkem Laboratories for analysis of Volatile Organic Compounds (VOCs) by EPA Method 8260, Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270, and Pesticides by EPA Method 8081. A total of 32 samples were collected for analysis including two duplicate samples. Following completion of each boring, soil was returned to the borehole and any remaining void space filled with bentonite chips.

Geology

The geology observed was consistent with the other investigations conducted at the site. The subsurface soil is a fine to medium sand with some silt that becomes finer with depth. The sand and silt grades to a clay unit which generally dips from north to south with some variability. The clay was generally encountered at 12 ft bgs in high spots to a maximum depth of 18 ft bgs near the south and southeast boundaries of the Site. The RI report characterized the clay unit as an aquitard which prevents or limits downward migration of impacted groundwater. Two geologic cross sections are included (**Figure 3** and **Figure 4**). Historically, shallow groundwater has been reported to flow from north to south.

Laboratory Results

Volatile Organic Compounds

Historically, VOCs have been detected at concentrations above SCGs in groundwater and soil samples collected at the Site. The staining and odor noted in the soil is likely attributable to these compounds. Individual VOCs were detected above SCGs in samples from five soil borings including ASB-3, ASB-10, ASB-18, ASB-24, and ASB-25. The VOC laboratory results are presented in **Table 2**. The results are consistent with the previous investigations at the Site with a majority of the exceedences being petroleum related VOCs including, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, xylene, n-butylbenzene, and ethylbenzene. Acetone and 1,2-dichloroethane were detected above SCGs in the sample from boring ASB-10 taken 19-ft to 20-ft bgs. The presence of VOCs in soil appears widespread across the Site with the exception of the east-southeast portion of the property. There are possibly several source areas as indicated by the shallow impacts noted at ASB-25 and historically in the AS/SVE area. The sample taken at 6-ft to 8-ft bgs from ASB-25 had a total VOC concentration of over 55,000 parts per billion (ppb).

SVOCs

Individual SVOCs were detected in several soil samples but levels were below SCGs. In general the SVOC were detected in samples which contained elevated levels of VOCs. The SVOC laboratory results are presented in **Table 3**.

Pesticides

Historically pesticides have been detected in both soil and groundwater at the Site. Pesticides were detected above SCGs in samples from six of the soil borings including ASB-5, ASB-14, ASB-15, ASB-16, and ASB-23. The pesticide data from this investigation is presented in **Table 4**.

- The sample from ASB-5 (12 ft-15 ft) contained 4,4-DDT at a concentration of 4.7 ppb which is above the SCG of 3.3 ppb.
- The sample from ASB-14 (5 ft-10 ft) contained 4,4-DDD at a concentration of 9.1 ppb which is above the SCG of 3.3 ppb.
- The sample from ASB-15 (5 ft-10ft) contained 4,4-DDD at a concentration of 5.7 ppb which is above the SCG of 3.3 ppb.
- The sample from ASB-16 (6.5 ft-7.5 ft) alpha chlordane at a concentration of 260 ppb which is above the SCG of 94 ppb.
- The sample from ASB-18 (8 ft-10 ft) contained 4,4-DDD at 140 ppb and alpha chlordane at 530 ppb which above their respective SCGs of 3.3 ppb and 94 ppb.
- The two samples collected from ASB-23 (6 ft-8 ft) and (10 ft-12 ft) contained alpha chlordane above the SCG of 94 ppb at the respective concentrations of 190 ppb and 120 ppb.

In general pesticides were not detected as frequently as VOCs in the samples taken during this investigation. The data suggests the source area for the pesticide impacts is in the northern portion of the property. Historical groundwater data suggests that the pesticides are being dissolved and transported at concentrations above NYSDEC Groundwater Standards

Extent of Impacted Soil

The field data and laboratory data collected as part of this investigation indicates widespread subsurface soil impacts at the Site. As presented in **Table 1**, staining and/or odors were noted in 21 of the 26 borings. In general the soil which exhibited odors and/or staining had PID readings greater than 100 parts per million (ppm) and the soils exhibiting no evidence of impacts had PID readings of less than 10 ppm. The approximate areal extent of subsurface soil impacted with VOCs and/or pesticides above SCGs is shown on **Figure 5**. Approximately 35,000 square feet of the Site may be impacted above SCGs. For the purpose of this report, PID readings above 100 ppm and the presence of staining were assumed to be indicators that the soil would not meet SCGs.

Figures 3 and 4 are cross sections trending north to south (Figure 3) and east to west (Figure 4). The cross sections present site geology as interpreted from soil borings, VOC and pesticide results, headspace readings and a visual representation of the staining and odors. The top 5-ft of soil is relatively un-impacted with potential several source areas (e.g., the area around ASB-25 and ASB-3). Staining and/or odors were noted in the top foot of these borings. In the borings completed to the top of the clay the staining and odors were noted throughout a smear zone through the saturated soil to the top of the clay. Several samples were collected from the top of the clay and a majority of those samples did not have detections above SCGs.

Conclusions

The RSO contained a focused feasibility study which recommended the removal of the soil within a 60 ft by 60 ft source area near the former SVE/AS. The alternative included reuse of excavated soil from the ground surface to 6 ft bgs and the offsite disposal of soil excavated from 6 ft bgs to the top of clay at an average depth of 15 ft bgs. Excavation would require dewatering. Removal and

treatment of groundwater from the source area would effectively remove the future contaminant load resulting in improved groundwater conditions at the Site and downgradient.

Using the same approach with the newly collected data, approximately 7,600 cubic yards of soil from ground surface to 6 feet would be excavated and used as fill and 11,500 cubic yards of soil would need to be shipped offsite for disposal.

Sincerely yours,
AECOM Technical Services Northeast, Inc.



John Santacroce
Geologist

C: Payson Long, NYSDEC
Steve Choiniere, AECOM
Scott Underhill, AECOM

Attachments

Table 1- Summary of Field Data

Table 2- March 2010 Soil- Detected VOC Results

Table 3- March 2010 Soil- Detected SVOC Results

Table 4- March 2010 Soil- Detected Pesticide Results

Figure 1- Site Location

Figure 2- Soil Boring Locations

Figure 3- Cross Section A-A'

Figure 4- Cross Section B-B'

Figure 5- Approximate On-Site Lateral Extent of Impacted Soil

CD- Mitkem Laboratory Data

TABLE 1
Korkay Inc.
Summary of Field Data

Boring	Depth Intervals (feet below ground)	Odor Observed	Visible Staining	PID Reading (Head Space or Average Over Interval in ppm)	Sample Interval	Total Volatile Organic Compounds (µg/kg)	Total Semi-Volatile Organic Compounds (µg/kg)	Total Pesticides (µg/kg)	Comments
ASB-1 (3/11/10)	0-5'	N	N	3.5	No Sample Collected				Odor and staining observed from 7.4-13.6'; slight odor from 13.6-15'; Clay observed at 15'
	5-10'	Y	Y	80.7	No Sample Collected				
	10-15'	Y	Y	12.2	No Sample Collected				
ASB-2 (3/11/10)	0-5'	N	N	7.6	No Sample Collected				Odor and staining observed from 5-8.4'; 10-15' Core had little recovery
	5-10'	Y	Y	566	No Sample Collected				
	10-15'	Y	N	No Data	No Sample Collected				
ASB-3 (3/11/10)	0-5'	Y	Y	224	No Sample Collected				Odor observed from 1.1-17.7' with staining from 1.8-13.1' and 15-17.7'; Mostly clay observed from 17.7-19'
	5-10'	Y	Y	260	No Sample Collected				
	10-15'	Y	Y	184	No Sample Collected				
	15-20'	Y	Y	90.6	18-19'	616.9	ND	ND	
ASB-4 (3/11/10)	0-5'	N	N	5.1	No Sample Collected				Odor and staining observed from 7.4-8.3', 11-11.9', 13.8-14', and 15.4-18.4', with odors observed from 14-15.4' also; Silty clay observed from 18.4-18.7'
	5-10'	Y	Y	125	No Sample Collected				
	10-15'	Y	Y	89.4	No Sample Collected				
	15-20'	Y	Y	117	No Sample Collected				
ASB-5 (3/11/10)	0-5'	N	N	1.5	No Sample Collected				Odor and staining observed from 7.3-7.9' and 13.5-15'
	5-10'	Y	Y	41.5	5-10'	15.4	ND	ND	
	10-15'	Y	Y	65.3	12-14'	24.4	ND	4.7	
ASB-6 (3/11/10)	0-5'	N	N	2.0	No Sample Collected				Odor observed from 6.5-14.2', with staining observed from 6.5-13'; Clayey silt observed from 13-14.2' and clay and fine sand from 17.2-19'
	5-10'	Y	Y	287	No Sample Collected				
	10-15'	Y	Y	171	No Sample Collected				
	15-20'	No Data		3.3	18-19'	402.4	231	ND	
ASB-7 (3/12/10)	0-5'	N	N	1.8	No Sample Collected				Odor and staining observed from 7.7-13.6' and 15-18.9'; Silty clay observed from 13.6-15' and clay with some silt from 18.9-20'
	5-10'	Y	Y	170	No Sample Collected				
	10-15'	Y	Y	170	No Sample Collected				
	15-20'	Y	Y	1.7	19-20'	208.5	ND	ND	
ASB-8 (3/12/10)	0-5'	N	N	3.4	No Sample Collected				Odor and staining observed from 7.2-13.8'; Clay observed at 15'
	5-10'	Y	Y	109	No Sample Collected				
	10-15'	Y	Y	124 Clay @ 15' = 2.4	No Sample Collected				
ASB-9 (3/12/10)	0-5'	N	N	16.1	No Sample Collected				Odor and staining observed from 8-12' and 17.6-20'; Clay observed from 18.2-19.1'
	5-10'	Y	Y	24.8	No Sample Collected				
	10-15'	Y	Y	9.3	No Sample Collected				
	15-20'	Y	Y	195	No Sample Collected				

TABLE 1
Korkay Inc.
Summary of Field Data

Boring	Depth Intervals (feet below ground)	Odor Observed	Visible Staining	Head Space PID Reading or Average Over Interval (ppm)	Sample Interval	Total Volatile Organic Compounds (µg/kg)	Total Semi-Volatile Organic Compounds (µg/kg)	Total Pesticides (µg/kg)	Comments
ASB-10 (3/12/10)	0-5'	N	N	1.5	No Sample Collected				Odor and staining observed from 11.6-13.2'; Clayey silt transitioning into clay observed from 18-18.8' with clay and fine sand from 18.8-20'
	5-10'	N	N	2.6	No Sample Collected				
	10-15'	Y	Y	334	No Sample Collected				
	15-20'	N	N	4.5	19-20'	1,157.30	74	ND	
ASB-11 (3/12/10)	0-5'	N	N	2.4	No Sample Collected				Odor and staining observed from 6.5-8.4'
	5-10'	Y	Y	59.5	No Sample Collected				
ASB-12 (3/12/10)	0-5'	N	N	2.4	No Sample Collected				Odor and staining observed from 7.4-8.8'
	5-10'	Y	Y	236	No Sample Collected				
ASB-13 (3/12/10)	0-5'	N	N	1.6	No Sample Collected				Odor and staining observed from 7.8-8.3' and 12.4-13.2'
	5-10'	Y	Y	1.7	7-9'	90.9	467	ND	
	10-15'	Y	Y	5.1	No Sample Collected				
ASB-14 (3/12/10)	0-5'	N	N	0.8	No Sample Collected				Odor and staining observed from 7.5-9.3'; Silty sand and clay observed from 9-9.3'
	5-10'	Y	Y	136	5-10'	604.3	686	62.1	
ASB-15 (3/12/10)	0-5'	N	N	0.3	No Sample Collected				Odor observed from 5.9-9.3' with staining observed from 5.9-7.3' and 7.6-8.1'; Fine sand with some silt and clay observed from 7.3-7.6' and silty sand and some clay observed from 8.1-9.3'
	5-10'	Y	Y	184	5-10'	4,724.50	938	44.9	
ASB-16 (3/12/10)	0-5'	N	N	1.3	No Sample Collected				Odor observed from 6.4-13.1' with staining observed from 6.4-7.5' and 10-12'; Clayey sand and some silt observed from 12-13.1', clay from 13.1-14.4' and sandy clay and some silt from 14.4-15'
	5-10'	Y	Y	6.1	6.5-7.5'	268.1	ND	490	
	10-15'	Y	Y	173	13-15'	20.9	957	ND	
ASB-17 (3/12/10)	0-5'	N	N	1.8	No Sample Collected				Odor observed from 6.1-8.9' with staining observed from 6.6-7.1' and 7.7-8.4'; Silty clay observed from 8.4-8.9'
	5-10'	Y	Y	28.3	6.5-8.5' 8.5-10'	44.8 7.4	ND/ND ND	82 2.6	
ASB-18 (3/12/10)	0-5'	N	N	1.6	No Sample Collected				Odor observed from 6.2-8.8' with staining from 6.8-8.3'; Fine sand with silt and clay observed from 11.5' and fine sand and silt from 8.3-8.8'
	5-10'	Y	Y	343	8-10'	12,607.30	3,304	1,070	

TABLE 1
Korkay Inc.
Summary of Field Data

Boring	Depth Intervals (feet below ground)	Odor Observed	Visible Staining	Head Space PID Reading or Average Over Interval (ppm)	Sample Interval	Total Volatile Organic Compounds (µg/kg)	Total Semi-Volatile Organic Compounds (µg/kg)	Total Pesticides (µg/kg)	Comments
ASB-19 (3/16/10)	0-4'	No Data		0.9	No Sample Collected				Fine sand with silt and clay observed from 6.2-7.6', a lense of clay and silt from 10.6-10.8', clayey sand and silt from 12.9-14.4' and clay from 14.4-15.7'
	4-8'	No Data		1.6	No Sample Collected				
	8-12'	No Data		4.0	10-12'	9.0	170	ND	
	12-16'	No Data		0.7	13-15'	7.2	240	ND	
ASB-20 (3/16/10)	0-4'	No Data		1.0	No Sample Collected				Clay observed from 18.5-20'
	4-8'	No Data		0.9	No Sample Collected				
	8-12'	No Data		2.0	10-12'	12.7	66	ND	
	12-16'	No Data		0.2	No Sample Collected				
	16-20'	No Data		0.6	18-20'	11.6	ND	ND	
ASB-21 (3/16/10)	0-4'	No Data		2.3	No Sample Collected				Sandy clay and silt observed from 12-13.1' transitioning into clay from 13.1-15.8' then fine sand with clay and silt from 15.8-16'
	4-8'	No Data		1.5	6-8'	10.1	ND	ND	
	8-12'	No Data		1.8	10-12'	7.3	ND	ND	
	12-16'	No Data		0.6	13-15'	9.7	ND	ND	
ASB-22 (3/16/10)	0-4'	No Data		0.8	No Sample Collected				Odor and staining observed from 9.6-11.8'; Clay observed from 12.15.4', fine sand, silt and clay from 15.4-16'
	4-8'	No Data		11.2	No Sample Collected				
	8-12'	Y	Y	88.2	10-12'	21.4	77	44	
	12-16'	N	N	1.0	13-15'	20.9	ND	ND	
ASB-23 (3/16/10)	0-4'	N	N	3.2	No Sample Collected				Odor and staining observed from 5-10.4'; Fine sand, silt and clay observed from 10-12'
	4-8'	Y	Y	203	6-8'	302.3	419	320	
	8-12'	Y	Y	119 Clay @ 12' = 0.8	10-12'	642.5	ND	194	
ASB-24 (3/16/10)	0-4'	N	N	3.5	No Sample Collected				Odor and staining observed from 10.4-12'
	4-8'	N	N	2.2	No Sample Collected				
	8-12'	Y	Y	1.2	11-12'	91,217	2,155	ND	
ASB-25 (3/16/10)	0-4'	Y	Y	17.9	No Sample Collected				Odor and staining observed from 2.3-2.5' and 4.9-12'; Clay observed from 12-14.3', fine sand, clay and silt from 14.3-16'
	4-8'	Y	Y	373	6-8'	57,279.10	5,527	133	
	8-12'	Y	Y	1,269	9-11'	56,772.50	4,360	121	
	12-16'	N	N	12.1	No Sample Collected				
ASB-26 (3/16/10)	0-4'	N	N	1.8	No Sample Collected				Fine sand, silt and clay observed from 2.2-2.4'; Void space encountered at approximately 8'
	4-8'	N	N	1.7	No Sample Collected				
	8-12'	No Data		0.1	No Sample Collected				

TABLE 1
Korkay Inc.
Summary of Field Data

Boring	Depth Intervals (feet below ground)	Odor Observed	Visible Staining	Head Space PID Reading or Average Over Interval (ppm)	Sample Interval	Total Volatile Organic Compounds (µg/kg)	Total Semi-Volatile Organic Compounds (µg/kg)	Total Pesticides (µg/kg)	Comments
ASB-27 (3/16/10)	0-4'	N	N	3.0	No Sample Collected				Sandy clay and silt observed from 12.7-13.9'
	4-8'	N	N	5.2	No Sample Collected				
	8-12'	N	N	3.2	9-11'	ND	ND	ND	
	12-16'	N	N	1.6	No Sample Collected				
ASB-28 (3/16/10)	0-4'	N	N	2.2	No Sample Collected				Odor and staining observed from 6.4-8.5'
	4-8'	Y	Y	146	6-8'	1,732.50	ND	ND	

TABLE 2
Analytical Soil Results -
Detected Volatile Organic Compounds

Supplemental Site Investigation
Korkay, Inc. Site
Broadalbin, NY

March 2010

Sample ID	ASB-3(18-19')	ASB-5(5-10')	ASB-5(12-14')	ASB-6(18-19')	ASB-7(19-20')	ASB-10(19-20')	ASB-13(7-9')	ASB-14(5-10')	ASB-15(5-10')	ASB-16(6.5-7.5')	ASB-16(13-15')	ASB-17(6.5-8.5')	Dup-1	ASB-17(8.5-10')	ASB-18(8-10')	ASB-19(10-12')	ASB-19(13-15')	
Sample Date	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/16/10	3/16/10	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Volatiles Organic Compounds (VOCs) $\mu\text{g/kg}$ or ppb	NYS RPSCO																	
1,1-Dichloroethane	27	3.7 J	5.1 U	5.1 U	6.3 U	6.2 U	33	5.6 U	5.6 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
1,1-Dichloroethane	330	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	2.1 J	5.6 U	5.6 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
1,2,3-Trichlorobenzene	NL	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	5.6 U	5.6 J	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
1,2,4-Trichlorobenzene	NL	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	2.3 J	21 J	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	5.9 J	6.7 U	6.3 U
1,2,4-Trimethylbenzene	3,600	76	1.4 J	3.7 J	5.8 J	58	160	29	10	220 DJ	42	5.7 U	2.2 J	3.7 J	5.7 U	5,700 D	6.7 U	6.3 U
1,2-Dichlorobenzene	1,100	1.3 J	5.1 U	5.1 U	6.3 U	7.8	11	1.3 J	4.2 BJ	90 B	1.4 BJ	1.3 BJ	1.3 BJ	1.3 BJ	5.7 U	12 BJ	6.7 U	6.3 U
1,3,5-Trimethylbenzene	8,400	33	5.1 U	5.1 U	2.3 J	21	53	6.3	77	470 D	29	5.7 U	5.9 U	5.8 U	5.7 U	2,900 D	6.7 U	6.3 U
1,4-Dichlorobenzene	1,800	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	1.6 BJ	19 BJ	2.5 BJ	5.7 U	5.9 U	2 BJ	5.7 U	4.8 BJ	2.1 BJ	1.8 BJ
2-Butanone	NL	7.8	5.1 U	5.1 U	6.3 U	6.2 U	26	5.6 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U	
4-Isopropyltoluene	NL	7.4	5.1 U	5.1 U	6.3 U	2.9 J	11	2.7 J	54	400	45	5.7 U	3.4 J	11	5.7 U	280	6.7 U	6.3 U
Acetone	50	28	5.4	9.1	42	6.2 U	97	19	17	26 U	30	5.7 U	16	10	5.7 U	40	6.7 U	6.3 U
Benzene	60	3.1 J	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	26 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
Chlorobenzene	1,100	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	1.5 JB	7.9 JB	2.2 JB	1.3 JB	1.5 JB	1.7 JB	1.3 JB	3.6 JB	2 JB	1.7 JB
cis 1,2-Dichloroethane	250	66	5.1 U	5.1 U	26	5.9 J	83	5.6 U	5.6 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
Ethylbenzene	1,000	22	5.1 U	5.1 U	35	8.1	51	5.6 U	19	100	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	44	6.7 U	6.3 U
Isopropylbenzene	NL	6.5	5.1 U	5.1 U	6.3 U	5	9.9	5.6 U	11	100	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	120	6.7 U	6.3 U
m,p-Xylenes	NL	56	5.1 U	5.1 U	77	9.7	170	5.6 U	14	600	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	160	6.7 U	6.3 U
Methylene Chloride	50	130	2.6 J	1.6 J	7.3	3.7 J	1.3 J	1.8 J	4.2 JB	26 U	7.6	6	6.3 B	5.8 J	6.1 B	10 JB	4.9 J	3.7 J
n-Butylbenzene	12,000	9.4	1.7 J	5.1 U	6.3 U	4.5 J	16	5.3 J	110	550	65	5.7 U	6.4	13	5.7 U	440	6.7 U	6.3 U
n-Propylbenzene	3,900	8.5	5.1 U	5.1 U	6.3 U	5.8 J	20	2.8 J	20	210	6.2 J	5.7 U	5.9 U	5.8 U	5.7 U	250	6.7 U	6.3 U
Naphthalene	NL	13	4.3 J	10	3.4 J	4.7 J	27	18	52 B	200 DBJ	5.2 J	5.7 U	4.7 JB	4.9 J	5.7 U	1,900 DB	6.7 U	6.3 U
o-Xylene	NL	37	5.1 U	5.1 U	53	29	81	5.6 U	70	430	7.2 U	2.7 J	5.9 U	5.8 U	5.7 U	170	6.7 U	6.3 U
sec-Butylbenzene	11,000	5.7	5.1 U	5.1 U	6.3 U	3.4 J	8.1	3.1 J	44	220	32	2.6 J	3 J	8.6	5.7 U	200	6.7 U	6.3 U
tert-Butylbenzene	5,900	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	2.4 J	26 J	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	23	6.7 U	6.3 U
Tetrachloroethene	1,300	5.5 U	5.1 U	5.1 U	6.3 U	6.2 U	4.9 U	5.6 U	6.1	55	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 J	6.7 U	6.3 U
Toluene	700	9.5	5.1 U	5.1 U	19	6.2 U	45	5.6 U	26 U	26 U	7.2 U	5.7 U	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
Trichloroethene	470	5.5 U	5.1 U	5.1 U	1.6 J	6.2 U	1.9 J	5.6 U	5.6 U	26 U	7.2 U	4.3 J	5.9 U	5.8 U	5.7 U	14 U	6.7 U	6.3 U
Xylene (Total)	260	93	5.1 U	5.1 U	130	39	250	1.6 J	84	1,000	7.2 U	2.7 J	5.9 U	5.8 U	5.7 U	330	6.7 U	6.3 U
Total Concentration		616.9 J	15.4 J	24.4 J	402.4 J	208.5 J	1,157.3 J	90.9 J	604.3 JB	4,724.5 DBJ	268.1 JB	20.9 JB	44.8 JB	62 JB	7.4 JB	12,607.3 DBJ	9.0 JB	7.2 JB

- NOTES:
1. Samples analyzed for TCL VOCs utilized USEPA SW-846 Method 8260
 2. NYSRPSCO: NYS Remedial Program Soil Cleanup Objectives (Subpart 375-6, December 2006) - Unrestricted
 3. NL - Designates no standard listed for this compound
 4. U = Analyte not detected above the listed Reporting Limit
 5. J = estimated concentration
 6. D = Sample re-analyzed at dilution using the medium-level approach
 7. E = Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis
 8. B = Indicates that the compound was detected in the method blank
 9. **Bold** font designates detected result
 10. **Bold** text and highlighted cell indicates an exceedance of the compound's respective standard
 11. Duplicates are located to the right of the sample in which they replicate

TABLE 2
Analytical Soil Results -
Detected Volatile Organic Compounds

Supplemental Site Investigation
Korkay, Inc. Site
Broadalbin, NY

March 2010

Sample ID	ASB-20(10-12')	ASB-20(18-20')	ASB-21(6-8')	ASB-21(10-12')	ASB-21(13-15')	ASB-22(10-12')	ASB-22(13-15')	ASB-23(6-8')	ASB-23(10-12')	ASB-24(11-12')	ASB-25(6-8')	ASB-25(9-11')	Dup-2	ASB-27(9-11')	ASB-28(6-8')
Sample Date	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
NYS RPSCO															
27	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
330	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	2.6 J	10 J	14 U	6.2 U	2.6 J	1.8 J	5.4 U	5.8 U
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.5	23 B	14 U	1.8 J	5.2 J	5.5 J	5.4 U	1.8 J
3,600	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	64	16	32,000 D	35,000 D	26,000 D	19,000 D	5.4 U	170 JD
1,100	1.4 BJ	7.8 U	6 U	5.9 U	7.2 U	5.8 U	1.7 BJ	15 B	36	100	42	61	72	5.4 U	4.9 J
8,400	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	43	140	11,000 D	10,000 D	9,500 D	7,000 D	5.4 U	190
1,800	2.4 BJ	2.3 BJ	1.7 BJ	1.6 BJ	2 BJ	1.5 BJ	2 BJ	3.3 BJ	8.4 J	15 B	13 B	16 B	19 B	5.4 U	1.8 JB
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	30	95	740 E	290 E	180	210	5.4 U	160
50	6.5 U	7.8 U	6 U	5.9 U	7.2 U	6.7	7.2 U	28	19	23	17	23	16	5.4 U	9
60	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
1,100	2 JB	2.1 JB	1.5 JB	1.6 JB	1.8 JB	1.4 JB	1.6 JB	1.5 JB	11 U	14 U	1.5 JB	1.4 JB	1.4 JB	5.4 U	1.2 JB
250	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	17	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
1,000	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	1,400 JD	36	99	97	5.4 U	5 J
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	8.3 J	370	81	91	96	5.4 U	17
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	5,100 D	210	410	410	5.4 U	16
50	6.9	7.2 J	6.9	4.1 J	5.9 J	5.5 J	8.7	3.4 J	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
12,000	6.5 U	7.8 U	6 U	5.9 U	7.2 U	6.3	7.2 U	45	130	17,000 D	8,900 D	12,000 D	9,500 D	5.4 U	780 D
3,900	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.2 J	22	3,100 D	1,900 D	230	250	5.4 U	63
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	34	66 B	4,300 D	120	3,700 D	2,400 D	5.4 U	160
NL	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	1.6 J	5.6 J	2,800 D	130	1,200 DJ	810 D	5.4 U	9.8
11,000	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	5.5 J	15	54	5,300 D	160	110	130	5.4 U	110
5,900	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	38	17	12	15	5.4 U	7
1,300	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	3.6 J	14 U	7	26	23	5.4 U	5.8 U
700	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	6.4 U	11 U	14	2.8 J	5.3 J	3.3 J	5.4 U	5.8 U
470	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	1.4 J	6.4 U	11 U	14 U	6.2 U	5.7 U	6.5 U	5.4 U	5.8 U
260	6.5 U	7.8 U	6 U	5.9 U	7.2 U	5.8 U	7.2 U	3.2 J	5.6 J	7,900 D	350	3,100 D	710	5.4 U	26
	12.7 JB	11.6 JB	10.1 JB	7.3 JB	9.7 JB	21.4 JB	20.9 JB	302.3 JB	642.5 JB	91,217 DBEJ	57,279.1 JDBE	56,772.5 JDB	40,770.0 JDB	ND	1,732.5 JDB

- NOTES:
1. Samples analyzed for TCL VOCs utilized USEPA SW-846 Method 8260
 2. NYSRPSCO: NYS Remedial Program Soil Cleanup Objectives (Subpart 375-6, December 2006) - Unrestricted
 3. NL - Designates no standard listed for this compound
 4. U = Analyte not detected above the listed Reporting Limit
 5. J = estimated concentration
 6. D = Sample re-analyzed at dilution using the medium-level approach
 7. E = Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis
 8. B = Indicates that the compound was detected in the method blank
 9. Bold font designates detected result
 10. Bold text and highlighted cell indicates an exceedance of the compound's respective standard
 11. Duplicates are located to the right of the sample in which they replicate



TABLE
Analytical Soil Results -
Semi-Volatile Organic Compounds

Supplemental Site Investigation
Korkay, Inc. Site
Broadalbin, NY

March 2010

Sample ID	ASB-3(18-19')	ASB-5(5-10')	ASB-5(12-14')	ASB-6(18-19')	ASB-7(19-20')	ASB-10(19-20')	ASB-13(7-9')	ASB-14(5-10')	ASB-15(5-10')	ASB-16(6.5-7.5')	ASB-16(13-15')	ASB-17(6.5-8.5')	Dup-1	ASB-17(8.5-10')	ASB-18(8-10')	ASB-19(10-12')	ASB-19(13-15')																		
Sample Date	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10																		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil																		
Semi-Volatile Organic Compounds (SVOCs) $\mu\text{g}/\text{kg}$ or ppb	NYS RPSCO																																		
1,2-Dichlorobenzene	1,100	440	U	380	U	380	U	80	J	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
1,4-Dichlorobenzene	1,800	440	U	380	U	380	U	91	J	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
2-Methylnaphthalene	NL	440	U	380	U	380	U	440	U	430	U	410	U	63	J	83	J	260	J	390	U	130	J	400	U	400	U	410	U	650	U	400	U	420	U
Acenaphthene	20,000	440	U	380	U	380	U	440	U	430	U	410	U	390	U	55	J	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Acenaphthylene	100,000	440	U	380	U	380	U	440	U	430	U	410	U	390	U	390	U	380	U	390	U	76	J	400	U	400	U	410	U	390	U	400	U	420	U
Anthracene	100,000	440	U	380	U	380	U	440	U	430	U	410	U	390	U	57	J	380	U	390	U	72	J	400	U	400	U	410	U	390	U	400	U	420	U
Benzo(a)anthracene	1,000	440	U	380	U	380	U	440	U	430	U	410	U	41	J	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Bis(2-ethylhexyl)phthalate	NL	440	U	380	U	380	U	440	U	430	U	410	U	390	U	130	J	390	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Butylbenzylphthalate	NL	440	U	380	U	380	U	440	U	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Chrysene	1,000	440	U	380	U	380	U	440	U	430	U	410	U	45	J	45	J	380	U	390	U	54	J	400	U	400	U	410	U	390	U	400	U	420	U
Di-n-butylphthalate	NL	440	U	380	U	380	U	440	U	430	U	410	U	390	U	42	J	390	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Dibenzofuran	NL	440	U	380	U	380	U	440	U	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Fluoranthene	100,000	440	U	380	U	380	U	440	U	430	U	410	U	47	J	62	J	380	U	390	U	72	J	400	U	400	U	410	U	390	U	400	U	420	U
Fluorene	30,000	440	U	380	U	380	U	440	U	430	U	410	U	64	J	48	J	390	U	390	U	73	J	400	U	400	U	410	U	390	U	400	U	420	U
Isophorone	NL	440	U	380	U	380	U	440	U	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Naphthalene	12,000	440	U	380	U	380	U	60	J	430	U	410	U	74	J	56	J	390	U	390	U	110	J	400	U	400	U	410	U	2,600	U	170	J	240	J
Phenanthrene	100,000	440	U	380	U	380	U	440	U	430	U	410	U	130	J	210	J	390	U	390	U	120	J	400	U	400	U	410	U	54	J	400	U	420	U
Phenol	330	440	U	380	U	380	U	440	U	430	U	410	U	390	U	390	U	380	U	390	U	420	U	400	U	400	U	410	U	390	U	400	U	420	U
Pyrene	100,000	440	U	380	U	380	U	440	U	430	U	410	U	85	J	110	J	58	J	390	U	100	J	400	U	400	U	410	U	390	U	400	U	420	U
Total Concentration	ND	ND	ND	231	J	ND	74	J	467	J	686	J	938	J	ND	957	J	ND	3,304	J	170	J	240	J											

Sample ID	ASB-20(10-12')	ASB-20(18-20')	ASB-21(6-8')	ASB-21(10-12')	ASB-21(13-15')	ASB-22(10-12')	ASB-22(13-15')	ASB-23(6-8')	ASB-23(10-12')	ASB-24(11-12')	ASB-25(6-8')	ASB-25(9-11')	Dup-2	ASB-27(9-11')	ASB-28(6-8')																		
Sample Date	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10																		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil																		
Semi-Volatile Organic Compounds	NYS RPSCO																																
1,2-Dichlorobenzene	1,100	410	U	490	U	390	U	440	U	390	U	430	U	99	J	400	U	95	J	380	U	370	U	230	J	400	U	390	U				
1,4-Dichlorobenzene	1,800	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
2-Methylnaphthalene	NL	410	U	490	U	390	U	440	U	390	U	430	U	160	J	400	U	280	J	2,400	J	720	U	1,700	U	400	U	390	U				
Acenaphthene	20,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	110	J	43	J	400	U	400	U	390	U				
Acenaphthylene	100,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
Anthracene	100,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U		
Benzo(a)anthracene	1,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
Bis(2-ethylhexyl)phthalate	NL	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	280	J	240	J	260	J	400	U	390	U				
Butylbenzylphthalate	NL	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	85	J	370	U	400	U	400	U	390	U				
Chrysene	1,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
Di-n-butylphthalate	NL	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	130	J	100	J	47	J	94	J	400	U	390	U		
Dibenzofuran	NL	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	92	J	39	J	56	J	400	U	390	U				
Fluoranthene	100,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
Fluorene	30,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	140	J	71	J	110	J	400	U	390	U				
Isophorone	NL	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	460	U	400	U	400	U	390	U				
Naphthalene	12,000	66	J	490	U	390	U	440	U	390	U	430	U	160	J	400	U	1,600	J	2,100	J	940	U	1,700	U	400	U	390	U				
Phenanthrene	100,000	410	U	490	U	390	U	440	U	390	U	430	U	77	J	430	U	420	U	400	U	50	J	220	J	130	J	210	J	400	U	390	U
Phenol	330	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400	U	400	U	380	U	370	U	400	U	400	U	390	U				
Pyrene	100,000	410	U	490	U	390	U	440	U	390	U	430	U	420	U	400</																	

TABLE
Analytical Soil Results -
Detected Pesticides

Supplemental Site Investigation
Korkay, Inc. Site
Broadalbin, NY

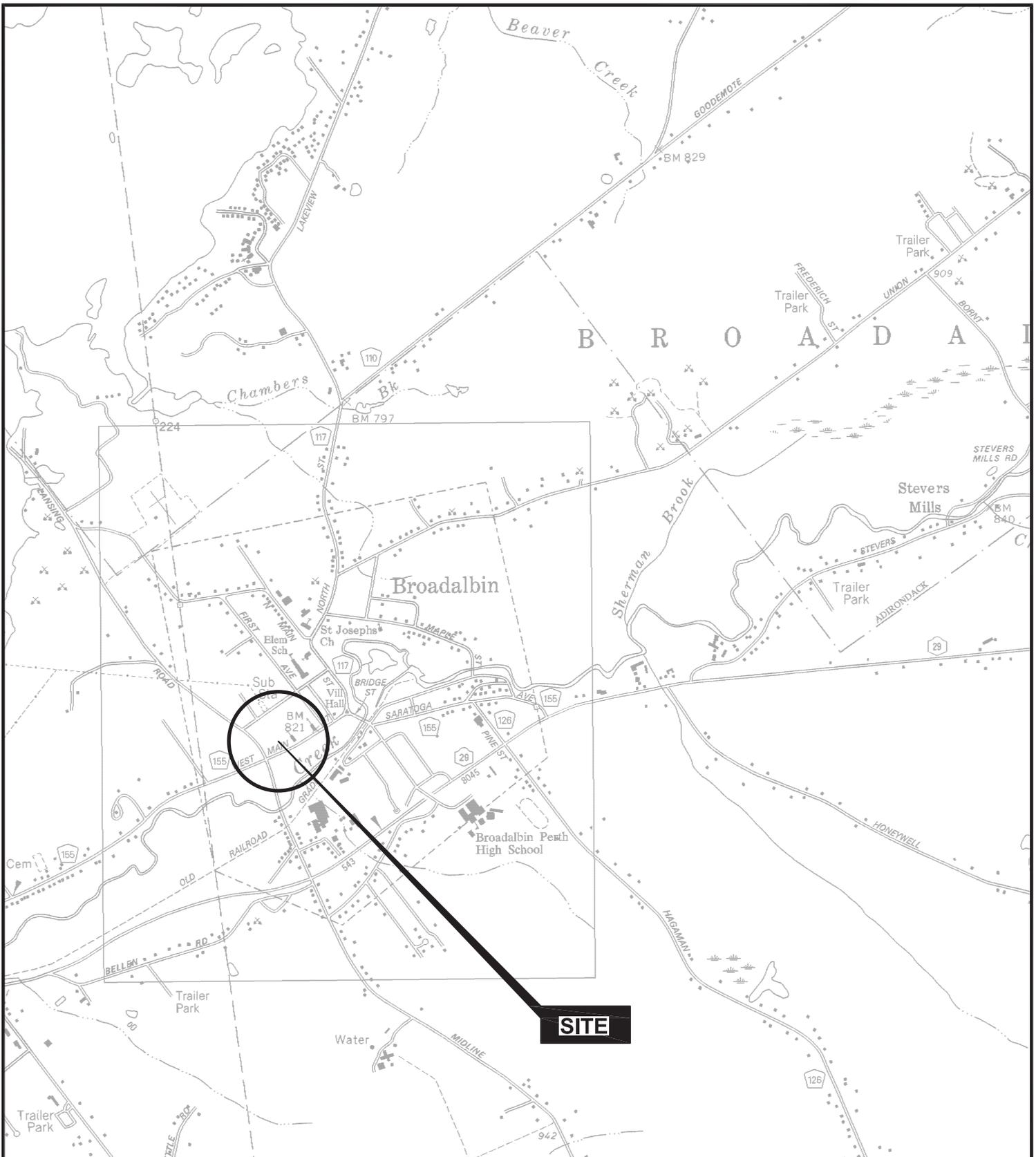
Sample ID	ASB-3(18-19')	ASB-5(5-10')	ASB-5(12-14')	ASB-6(18-19')	ASB-7(19-20')	ASB-10(19-20')	ASB-13(7-9')	ASB-14(5-10')	ASB-15(5-10')	ASB-16(6.5-7.5')	ASB-16(13-15')	ASB-17(6.5-8.5')	Dup-1	ASB-17(8.5-10')	ASB-18(8-10')	ASB-19(10-12')	ASB-19(13-15')	
Sample Date	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/12/10	3/16/10	3/16/10	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Pesticides µg/kg or ppb	NYS RPSCO																	
4,4'-DDD	3.3	4.3 U	3.7 U	3.8 U	4.4 U	4.3 U	4 U	3.9 U	9.1	5.7 P	78 U	4.2 U	16 U	20 U	4.1 U	140	4.1 U	4.2 U
4,4'-DDT	3.3	4.3 U	3.7 U	4.7	4.4 U	4.3 U	4 U	3.9 U	3.9 U	3.8 U	78 U	4.2 U	16 U	20 U	4.1 U	120 U	4.1 U	4.2 U
alpha-Chlordane	94	2.2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U	31 P	19 P	260 P	2.2 U	43 P	65 P	2.6 P	530 P	2.1 U	2.1 U
gamma-Chlordane	NL	2.2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U	22	18	230	2.2 U	39	58	2.1 U	400	2.1 U	2.1 U
Heptachlor	42	2.2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U	2.2 P	40 U	2.2 U	8.1 U	10 U	2.1 U	61 U	2.1 U	2.1 U	2.1 U
Heptachlor epoxide	NL	2.2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	40 U	2.2 U	8.1 U	10 U	2.1 U	61 U	2.1 U	2.1 U	2.1 U
Total Concentration		ND	ND	4.7	ND	ND	ND	ND	62.1 P	44.9 P	490 P	ND	82.0 P	123 P	2.6 P	1,070 P	ND	ND

Sample ID	ASB-20(10-12')	ASB-20(18-20')	ASB-21(6-8')	ASB-21(10-12')	ASB-21(13-15')	ASB-22(10-12')	ASB-22(13-15')	ASB-23(6-8')	ASB-23(10-12')	ASB-24(11-12')	ASB-25(6-8')	ASB-25(9-11')	Dup-2	ASB-27(9-11')	ASB-28(6-8')	
Sample Date	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	3/16/10	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Pesticides µg/kg or ppb	NYS RPSCO															
4,4'-DDD	3.3	4.1 U	4.9 U	3.9 U	4.1 U	4.4 U	3.9 U	4.2 U	84 U	40 U	4 U	19 U	19 U	20 U	3.9 U	3.9 U
4,4'-DDT	3.3	4.1 U	4.9 U	3.9 U	4.1 U	4.4 U	3.9 U	4.2 U	84 U	40 U	4 U	19 U	19 U	20 U	3.9 U	3.9 U
alpha-Chlordane	94	2.1 U	2.5 U	2 U	2.1 U	2.3 U	25	2.2 U	190	120	2.1 U	56	41	59	2 U	2 U
gamma-Chlordane	NL	2.1 U	2.5 U	2 U	2.1 U	2.3 U	19	2.2 U	130	74	2.1 U	60	44	62	2 U	2 U
Heptachlor	42	2.1 U	2.5 U	2 U	2.1 U	2.3 U	2 U	2.2 U	43 U	21 U	2.1 U	9.7 U	9.6 U	10 U	2 U	2 U
Heptachlor epoxide	NL	2.1 U	2.5 U	2 U	2.1 U	2.3 U	2 U	2.2 U	43 U	21 U	2.1 U	17	9.6 U	10 U	2 U	2 U
Total Concentration		ND	ND	ND	ND	ND	44	ND	320	194	ND	133	85	121	ND	ND

NOTES:

1. Samples analyzed for Pesticides utilized USEPA SW-846 Method 8081
2. NYRPSCO: NYS Remedial Program Soil Cleanup Objectives (Subpart 375-6, December 2006) - Unrestricted
3. NL - Designates no standard listed for this compound
4. U = Analyte not detected above the listed Reporting Limit
5. J = estimated concentration
6. D = Sample re-analyzed at dilution using the medium-level approach
7. E = Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis
8. B = Indicates that the compound was detected in the method blank
9. P = Compound has a greater than 40% difference between primary and confirmatory analyses
10. **Bold** font designates detected result
11. **Bold** text and highlight cell indicates an exceedance of the compound's respective standard
12. Duplicates are located to the right of the sample in which they replicate





MAP REFERENCE: NYS DOT 7.5 MIN. QUADRANGLE
 BROADALBIN SERIES

PLAN



NORTH

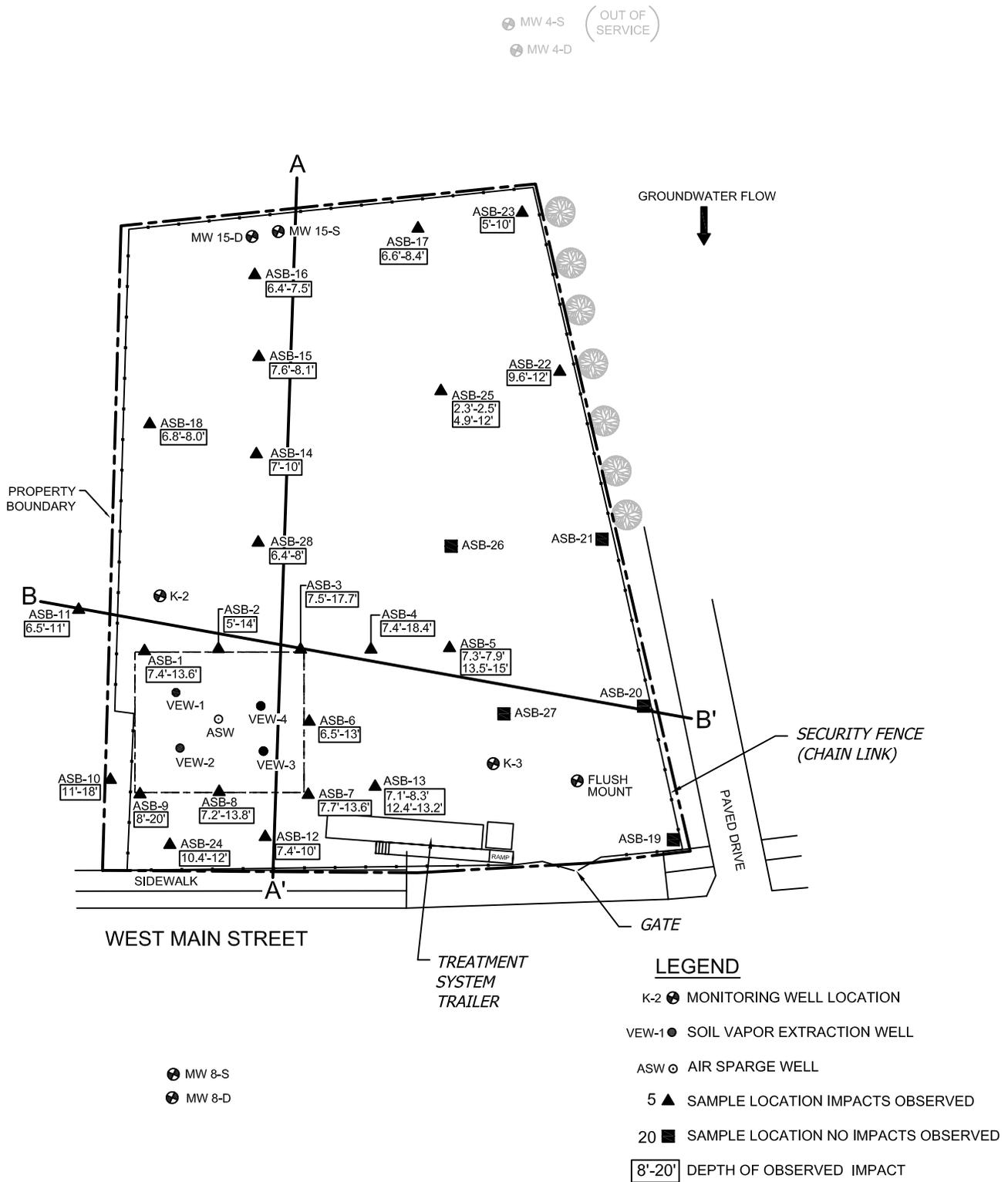
Scale in Feet



FIGURE 1
 SITE LOCATION PLAN
 NYSDEC SITE ID: 5-18-014
KORKAY INC.
 70 WEST MAIN STREET
 BROADALBIN, NEW YORK

DATE: MAY 2010

PROJECT NO.: 60135841



PLAN

NOTE

1. SAMPLE LOCATIONS ARE APPROXIMATE

GENERAL MAPPING REFERENCE, MAPPING SHOWN COMPILED FROM THE FOLLOWING :

1. PLAN TITLED "EXISTING SITE PLAN" FIGURE 1-2.
2. PLAN TITLED "TREATMENT SYSTEM LAYOUT AND PRE-STARTUP SOIL BORING LOCATIONS" SITE LAYOUT, FIGURE 4-1, BY CAMP DRESSER & MCKEE.
3. SUB-METER GPS SURVEY PERFORMED BY EARTH TECH, NOVEMBER 2007.

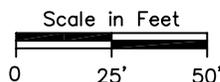
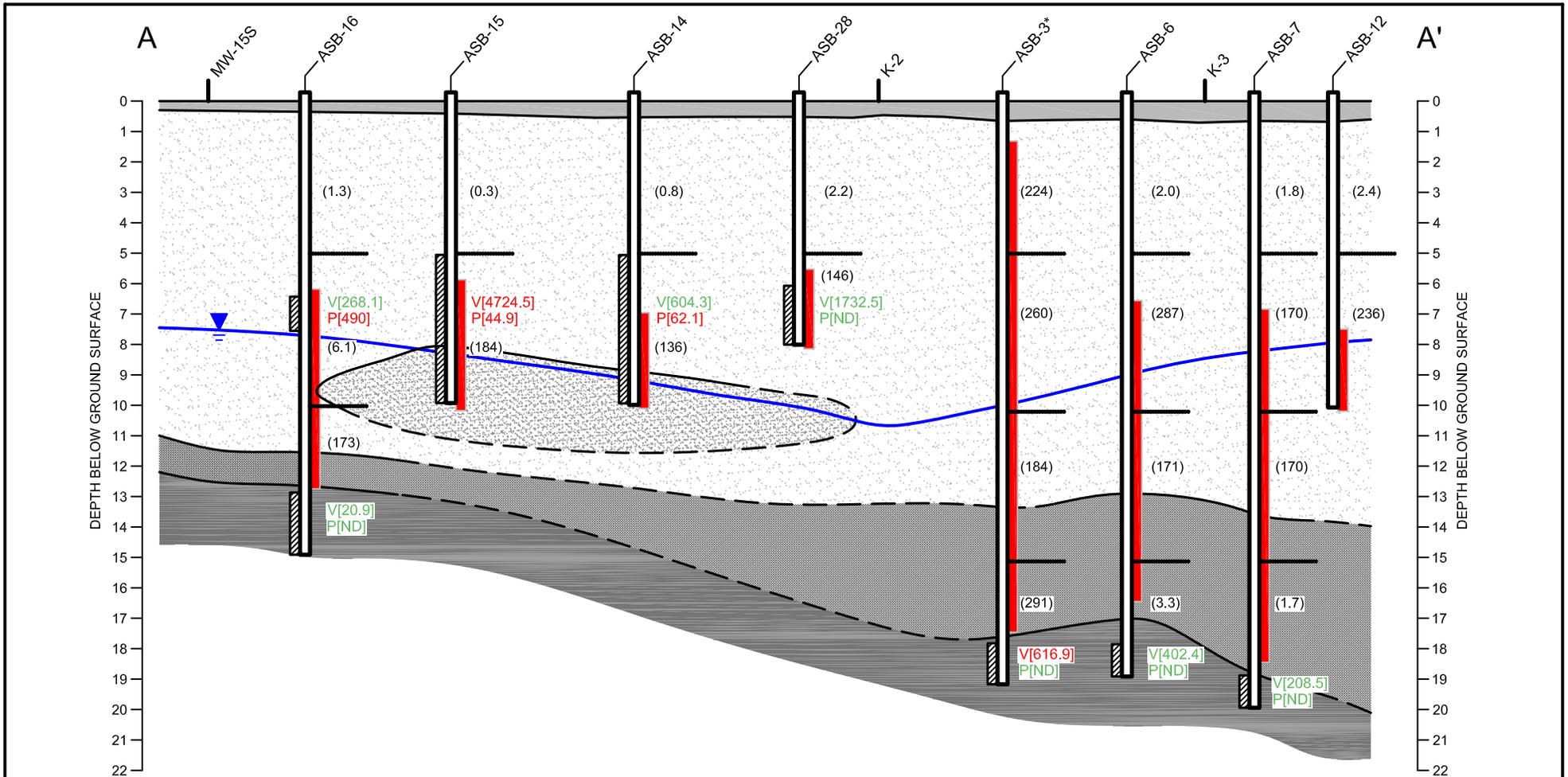


FIGURE 2
BORING LOCATIONS
 NYSDEC SITE ID: 5-18-014
KORKAY INC.
 70 WEST MAIN STREET
 BROADALBIN, NEW YORK

DATE: JULY 2010

PROJECT NO.: 60135841



LEGEND:

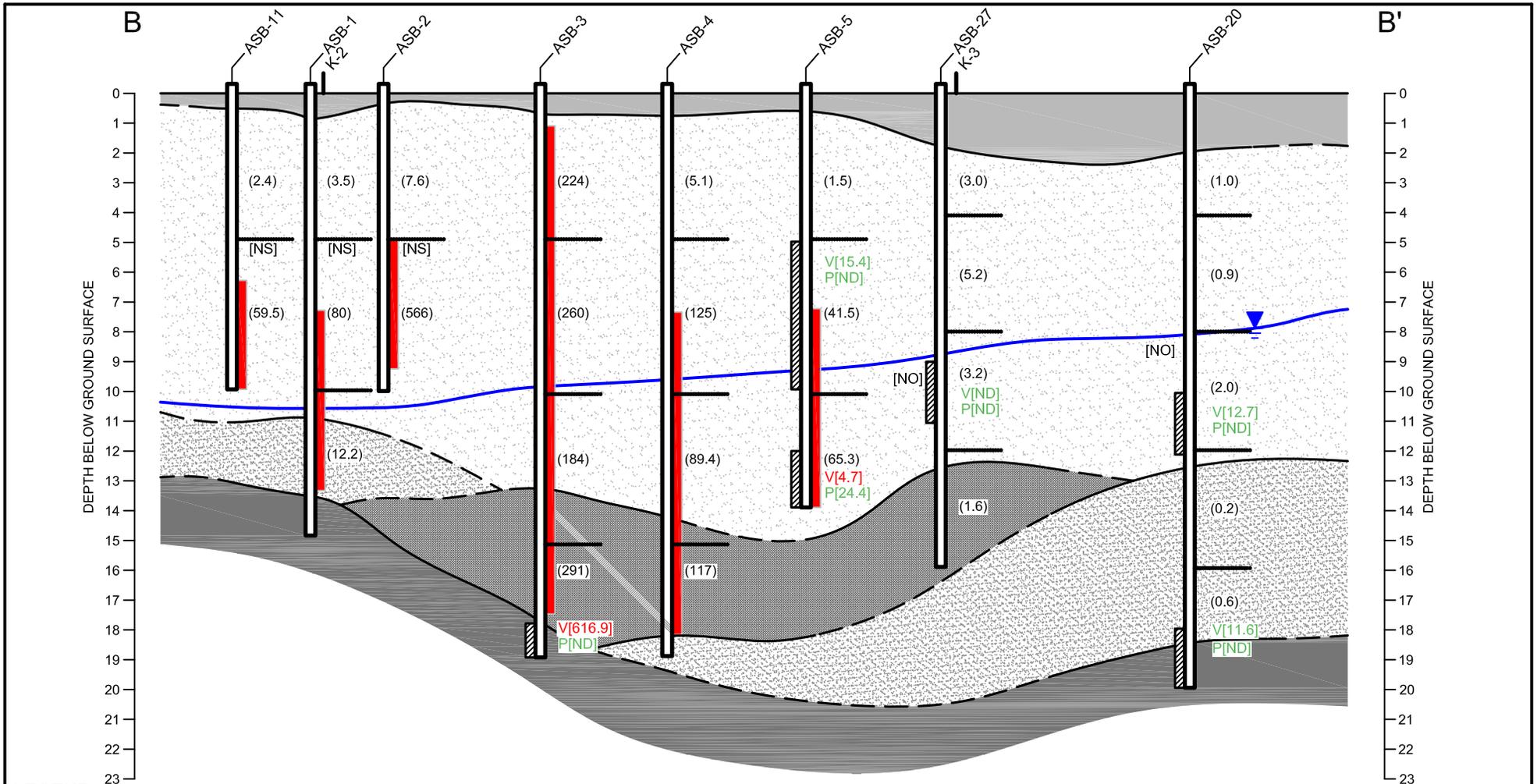
- (1.3) HEAD SPACE OR MAX PID READING (ppm)
 - [604.3] LAB RESULTS - TOTAL VOCs
 - [268.1] LAB RESULTS - TOTAL PESTICIDES
 - [490] RED VALUES EXCEED SCGS
 - WATER TABLE
 - TOP SOIL
 - SAND
 - SILTY SAND
 - CLAYEY SAND/SILT
 - CLAY
 - [ND] NON DETECT
 - HEAD SPACE INTERVAL
 - █ STAINING OR ODOR
 - █ SAMPLE LOCATIONS/DEPTHS
 - * EXHIBITED SIGNS OF PENETRATING A PREVIOUS BORING
- 0 14 28
 HORIZONTAL SCALE IN FEET
 (APPROXIMATE)
- 0 2.5 5
 VERTICAL SCALE IN FEET
 (APPROXIMATE)
 VERTICAL EXAGGERATION 5.5x

40 British American Blvd.
Latham, New York 12110
T: (518) 951-2200
F: (518) 951-2300

FIGURE 3
CROSS-SECTION A-A'

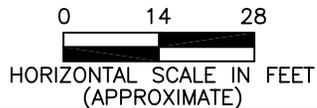
KORKAY INC.
70 WEST MAIN STREET, BROADALBIN, NEW YORK

60135841
JULY 2010



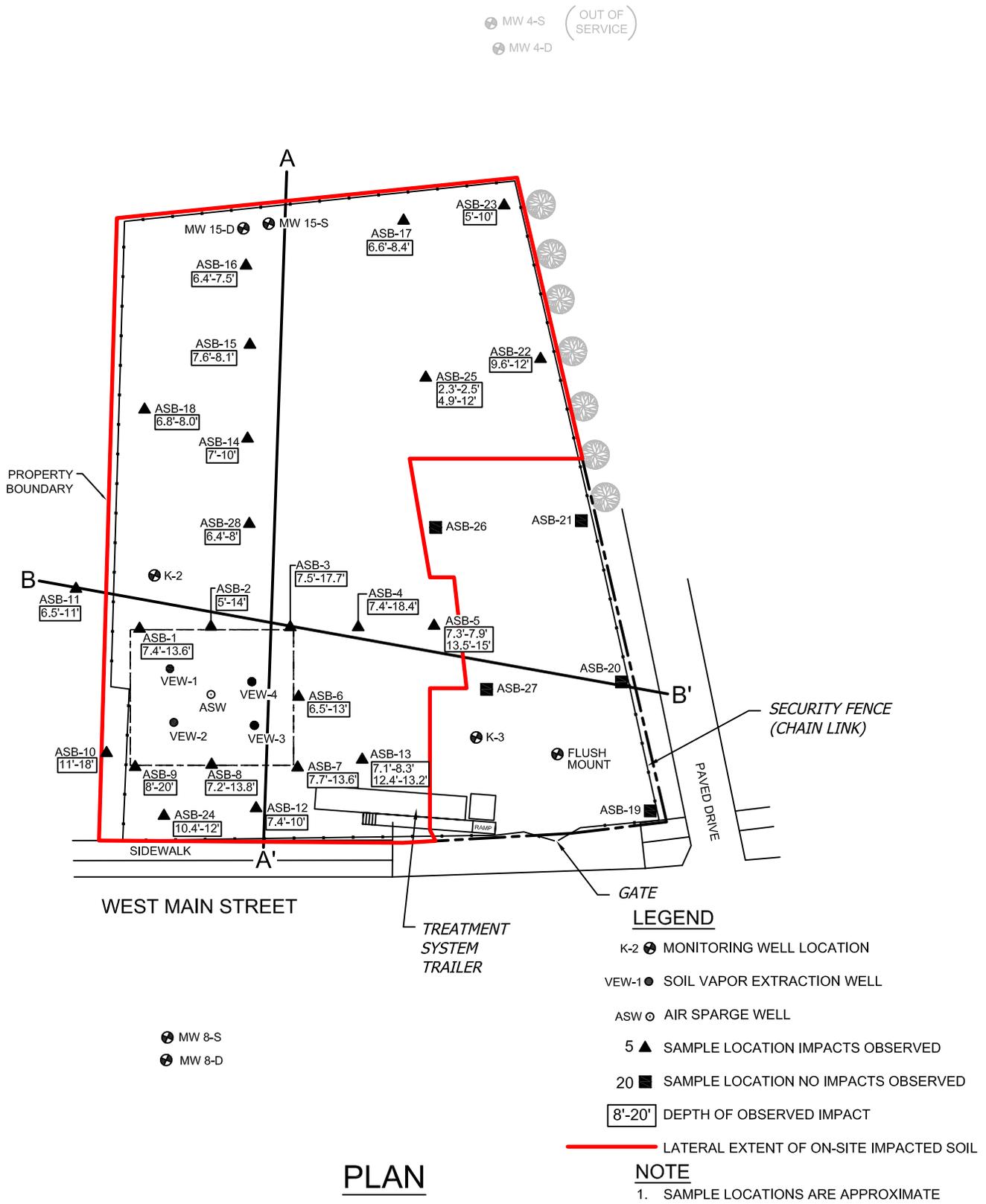
LEGEND:

- | | |
|---|--|
| (2.4) HEAD SPACE OR MAX PID READING (ppm) | [NS] NOT SAMPLED |
| [12.7] LAB RESULTS - TOTAL VOCs | [ND] NON DETECT |
| [24.4] LAB RESULTS - TOTAL PESTICIDES | [NO] STAINING AND/OR ODOR NOT OBSERVED |
| [4.7] RED VALUES EXCEED SCGs | — HEAD SPACE INTERVAL |
| — WATER TABLE | ■ STAINING OR ODOR |
| ■ TOP SOIL | ▨ SAMPLE LOCATIONS/DEPTHS |
| ■ SAND | |
| ■ SILTY SAND | |
| ■ CLAYEY SAND/SILT | |
| ■ CLAY | |



AECOM	40 British American Blvd. Latham, New York 12110 T: (518) 951-2200 F: (518) 951-2300
	FIGURE 4 CROSS-SECTION B-B'

KORKAY INC. 70 WEST MAIN STREET, BROADALBIN, NEW YORK	60135841 JULY 2010
--	-----------------------



GENERAL MAPPING REFERENCE, MAPPING SHOWN COMPILED FROM THE FOLLOWING :

1. PLAN TITLED "EXISTING SITE PLAN" FIGURE 1-2.
2. PLAN TITLED "TREATMENT SYSTEM LAYOUT AND PRE-STARTUP SOIL BORING LOCATIONS" SITE LAYOUT, FIGURE 4-1, BY CAMP DRESSER & MCKEE.
3. SUB-METER GPS SURVEY PERFORMED BY EARTH TECH, NOVEMBER 2007.

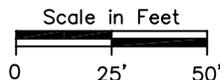


FIGURE 5
 APPROXIMATE LATERAL EXTENT OF IMPACTED SOIL
 NYSDEC SITE ID: 5-18-014
KORKAY INC.
 70 WEST MAIN STREET
 BROADALBIN, NEW YORK

DATE: JULY 2010

PROJECT NO.: 60135841