COTEAU ENVIRONMENTAL
312 9th Ave. SE, Suite C • Watertown, SD 57201 • Bus (605) 886-4009 • Fax (605) 882-4152
728 Janes Circle Dr. SW • Alexandria, MN 56308 • Bus/Fax (320) 846-4668

June 27, 2005

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

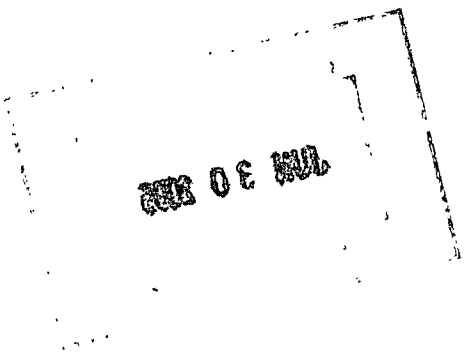
RE: Applicant Status Update - 6th Ground Water Monitoring Event
Former KC Kwik Stop
230 1st Street
Brooten, Minnesota
MPCA Leak No. 14698

Dear Mr. Borgerding:

Coteau Environmental (Coteau) has prepared this letter report regarding the results of the sixth (6th) quarterly ground water monitoring event at the above-referenced site. Fluid levels were measured in all monitor wells on May 5, 2005. Based on fluid level measurements in the monitor wells, ground water flow was to the southeast. Ground water elevations are illustrated on Figure 1 No measurable free-phase product was encountered in the monitor wells on May 5, 2005. A residential basement at 110 South Western Avenue was not screened for organic vapors on May 5, 2005 because the occupant of the property was not present when Coteau personnel were on site.

Ground water samples were collected for laboratory analysis from monitor wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6 on May 5, 2005. Ground water samples were purged by removing a minimum of five (5) well casing volumes from the well prior to sampling using a dedicated polyethylene bailer.

Ground water samples collected from the monitor wells were analyzed for volatile organic compounds (VOC's) and total petroleum hydrocarbons (TPH) using gasoline range organics (GRO) methodology. No BTEX or TPH as GRO concentrations were identified, above laboratory detection limits, in ground water collected from monitor wells MW-1, MW-2 and MW-6. Toluene, ethyl benzene, xylenes and TPH as GRO impacts in were detected in ground water collected from monitor well MW-3 at concentrations of 29, 130, 98 and 650 parts per billion (ppb), respectively. Ethyl



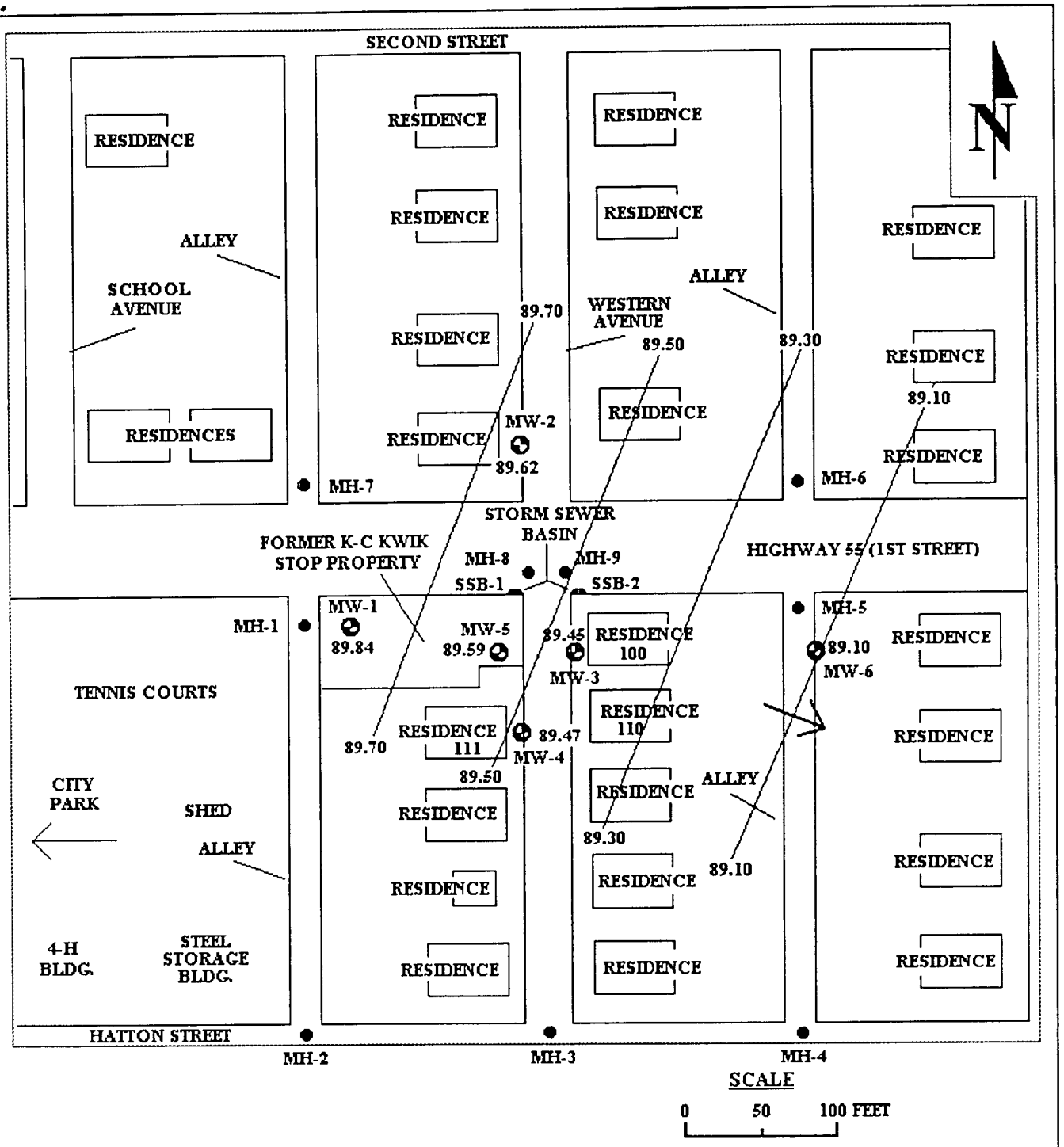
benzene, xylenes and TPH as GRO were detected in ground water collected from monitor well MW-4 at concentrations of 16, 24.8, and 380 ppb, respectively. In addition, BTEX and TPH as GRO impacts were detected in ground water collected from monitor well MW-5 at concentrations of 2,400, 20,000, 22,000, 9,600 and 49,000 ppb, respectively. Benzene, toluene and ethyl benzene impacts in ground water collected from monitor well MW-5 was above the Minnesota Department of Health (MDH) health risk limits (HRL's) of 10, 1,000 and 700 ppb, respectively. Ground water benzene and TPH as GRO concentrations are illustrated in Figures 2 and 3, respectively, and included in Table 1.

If you have any questions regarding this letter report, please call me at (605) 886-4009. Coteau appreciates the opportunity to provide professional environmental consulting services to North American State Bank.

Sincerely,
COTEAU ENVIRONMENTAL

Nathan T. Hunke, P.G., M.S.
Senior Hydrogeologist

cc: Mr. Jason Lindquist - MPCA



KEY

MW-1	MONITOR WELL LOCATION
MH-2	MANHOLE LOCATION
MW-1 89.84	GROUND WATER ELEVATION (FEET)
89.50	GROUND WATER ELEVATION CONTOUR (APPROXIMATE)
	GROUND WATER FLOW DIRECTION
SSB-1	STORM SEWER CATCH BASIN

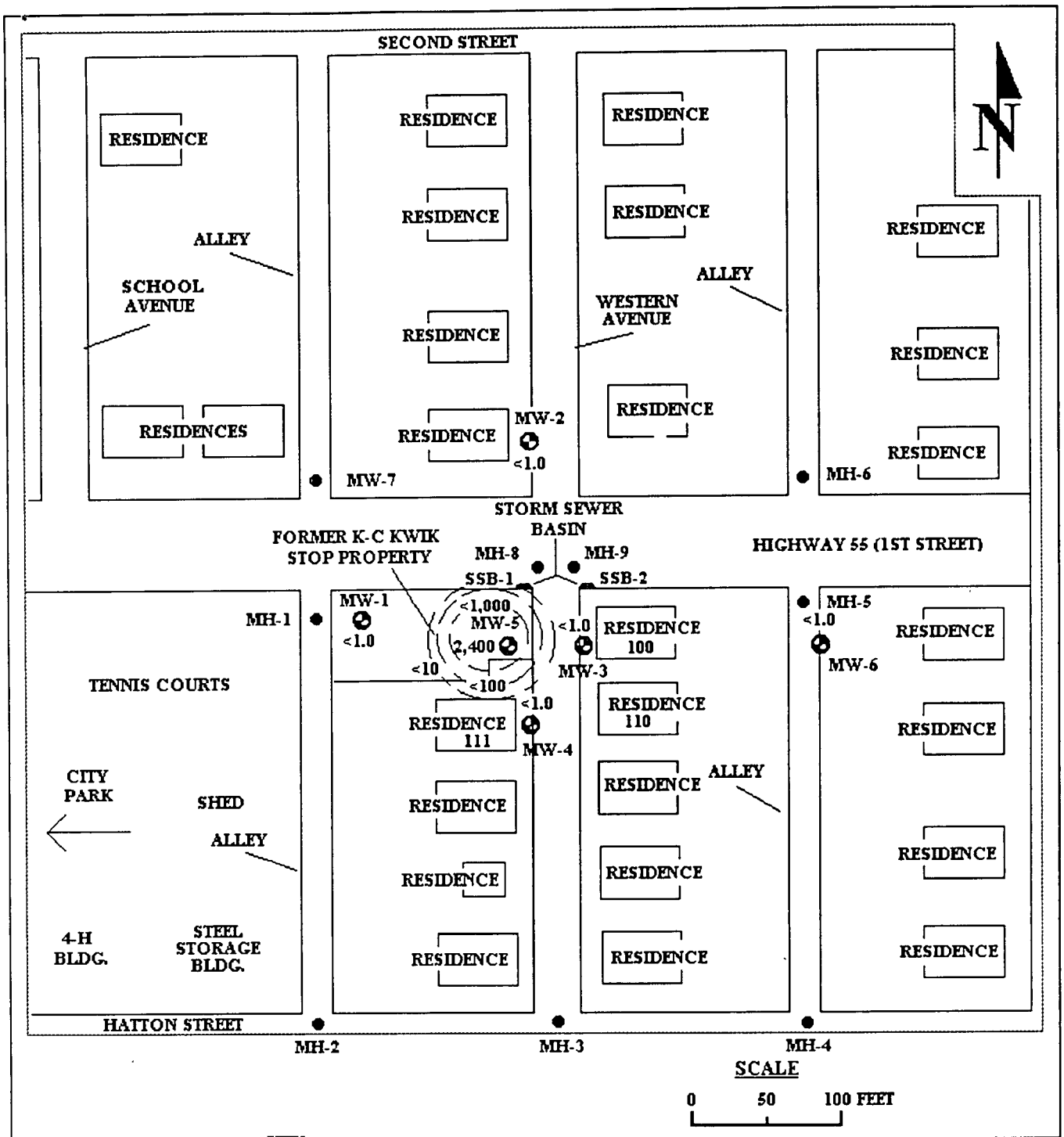
FORMER K-C KWIK STOP BROOTEN, MINNESOTA

GROUND WATER ELEVATION MAY 5, 2005

DATE	REVISED

COTEAU ENVIRONMENTAL
728 JANES CIRCLE DRIVE SW
ALEXANDRIA, MN 56308
(320) 846-4668

DRAWN BY:	DATE: JUNE 05	FIGURE: 1



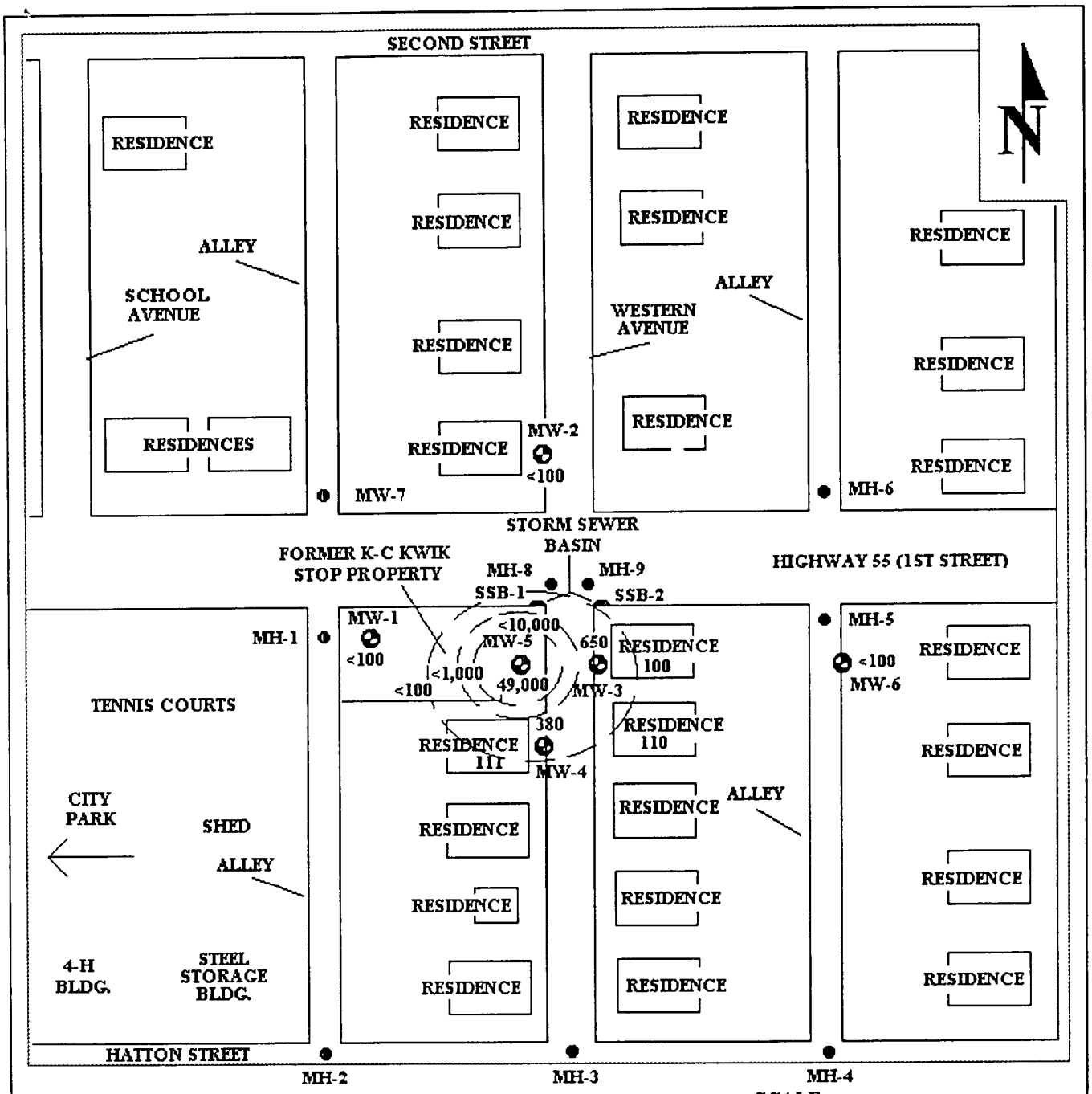
KEY

MW-1	MONITOR WELL LOCATION
MH-2	MANHOLE LOCATION
MW-5 2,400	GROUND WATER BENZENE CONCENTRATION (PPB)
— <1,000 —	GROUND WATER BENZENE CONTOUR (APPROXIMATE)
PPB	PARTS PER BILLION
SSB-1	STORM SEWER CATCH BASIN

FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

GROUND WATER BENZENE CONCENTRATIONS
MAY 5, 2005

DATE	REVISED	
		COTEAU ENVIRONMENTAL
		728 JANES CIRCLE DRIVE SW
		ALEXANDRIA, MN 56308
		320-846-4668
DRAWN BY:		DATE: JUNE 05 / FIGURE: 2



SCALE

0 50 100 FEET

KEY

MW-1	MONITOR WELL LOCATION
MH-2	MANHOLE LOCATION
MW-5 49,000	GROUND WATER TPH AS GRO CONCENTRATION (PPB)
<10,000	GROUND WATER TPH AS GRO CONTOUR (APPROXIMATE)
PPB	PARTS PER BILLION
TPH	TOTAL PETROLEUM HYDROCARBONS
GRO	GASOLINE RANGE ORGANICS
SSB-1	STORM SEWER CATCH BASIN

FORMER K-C KWIK STOP BROOTEN, MINNESOTA

GROUND WATER TPH AS GRO CONCENTRATIONS
MAY 5, 2005

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE SW ALEXANDRIA, MN 56308 (320) 8464668

DRAWN BY:	DATE: JUNE 05	FIGURE: 3

TABLE 1
LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES

Water sample	Date	Concentrations (ppb)						
		Benzene (10.0)	Toluene (1,000)	Ethyl Benzene (700)	Total Xylenes (10,000)	TPH as GRO	TPH as DRO	MTBE
MW-1	05/05/05	<1.0	<1.0	<1.0	<3.0	<100	NA	<1.0
MW-2	05/05/05	<1.0	<1.0	<1.0	<3.0	<100	NA	<1.0
MW-3	05/05/05	<1.0	29	130	98	650	NA	<1.0
MW-4	05/05/05	<1.0	<1.0	16	24.8	380	NA	<1.0
MW-5	05/05/05	2,400	20,000	2,200	9,600	49,000	NA	<20
MW-6	05/05/05	<1.0	<1.0	<1.0	<3.0	<100	NA	<1.0
FIELD BLANK	05/05/05	<1.0	<1.0	<1.0	<3.0	<100	NA	NA
TRIP BLANK	05/05/05	<1.0	<1.0	<1.0	<3.0	NA	NA	NA

NA = Not analyzed for parameter

File
KC 14698

COTEAU ENVIRONMENTAL - FAX COVER SHEET

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Phone (605) 886-4009

Send to: Steven Palzkill, P.G.	**From:** Nate Hunke, M.S., P.G.
Company: MPCA	Date: January 10, 2006
Office Location: Brainerd, Minnesota	Office Location: Watertown, SD
Fax Number: (218) 828-2594	Fax Number: 605-882-4152

☐ Urgent ☐ Reply ASAP ✔ Please Review ☐ For your information

Total pages, including cover: 14

Comments:

As discussed. Call with any questions.
Addition to 1-23-06
AMR Report
Sample results
for Air Sample
12/17/05

NG - 10:20am
01/10/06
FAXED

COTEAU ENVIRONMENTAL - FAX COVER SHEET

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Phone (605) 886-4009

Send to: Steven Palzkill, P.G.	**From:** Nate Hunke, M.S., P.G.
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☐ Urgent ☐ Reply ASAP ✔ Please Review ☐ For your information

Total pages, including cover: 14

Comments:

As discussed. Call with any questions.

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

January 04, 2006

Scott Hunke
Coteau Environmental
728 Janes Circle Drive SW
Alexandria, MN 56308

RE: Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

Dear Scott Hunke:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daryl Peterson
daryl.peterson@pacelabs.com

Illinois Certification #: 200011
Iowa Certification # 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

Pace Analytical Services, Inc.
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Fax: (612)607-6444

SAMPLE SUMMARY

Project. 1025374
Project ID KC KWIK STOP BROOTEN,MN

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1025374001	543-110 WESTERN AVE	Air	12/17/05 00:00	12/20/05 16:10

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SAMPLE ANALYTE COUNT

Project: 1025374
Project ID. KC KWIK STOP BROOTEN,MN

Lab ID	Sample ID	Method	Analytes Reported
1025374001	543-110 WESTERN AVE	TO-15	58

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ANALYTICAL RESULTS

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN
The results are reported as received by the laboratory

Lab ID: **1025374001** Date Collected: 12/17/05 00:00 Matrix: Air
Sample ID: **543-110 WESTERN AVE** Date Received: 12/20/05 16:10

Parameters	Results	Units		Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
Air												
TO15 MSV AIR			Analytical Method: TO-15									
Acetone	16.0	ppbv	None	4.1	7.4			01/03/06 22:46	HRG	67-64-1		
Benzene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	71-43-2		
Bromodichloromethane	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	75-27-4		
Bromoform	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	75-25-2		
Bromomethane	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	74-83-9		
1,3-Butadiene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	106-99-0		
2-Butanone (MEK)	1.5	ppbv	5000	0.81	1.48			12/28/05 04:08	HRG	78-93-3		
Carbon disulfide	ND	ppbv		0.74	1.48			12/28/05 04:08	HRG	75-15-0		
Carbon tetrachloride	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	56-23-5		
Chlorobenzene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	108-90-7		
Chloroethane	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	75-00-3		
Chloroform	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	67-66-3		
Chloromethane	ND	ppbv		0.74	1.48			12/28/05 04:08	HRG	74-87-3		
Cyclohexane	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	110-82-7		
Dibromochloromethane	ND	ppbv		0.78	1.48			12/28/05 04:08	HRG	124-48-1		
1,2-Dibromoethane (EDB)	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	106-93-4		
1,2-Dichlorobenzene	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	95-50-1		
1,3-Dichlorobenzene	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	541-73-1		
1,4-Dichlorobenzene	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	106-46-7		
Dichlorodifluoromethane	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	75-71-8		
1,1-Dichloroethane	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	75-34-3		
1,2-Dichloroethane	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	107-06-2		
1,1-Dichloroethene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	75-35-4		
cis-1,2-Dichloroethene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	156-59-2		
trans-1,2-Dichloroethene	ND	ppbv		1.5	1.48			12/28/05 04:08	HRG	156-60-5	2	
1,2-Dichloropropane	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	78-87-5		
cis-1,3-Dichloropropene	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	10061-01-5		
trans-1,3-Dichloropropene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	10061-02-6		
Dichlorotetrafluoroethane	ND	ppbv		0.84	1.48			12/28/05 04:08	HRG	76-14-2		
Ethyl acetate	ND	ppbv		0.75	1.48			12/28/05 04:08	HRG	141-78-6		
Ethylbenzene	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	100-41-4		
4-Ethyltoluene	ND	ppbv		0.78	1.48			12/28/05 04:08	HRG	622-96-8		
n-Heptane	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	142-82-5		
Hexachloro-1,3-butadiene	ND	ppbv		0.74	1.48			12/28/05 04:08	HRG	87-68-3	1	
n-Hexane	ND	ppbv		0.78	1.48			12/28/05 04:08	HRG	110-54-3		
2-Hexanone	ND	ppbv		0.81	1.48			12/28/05 04:08	HRG	591-78-6		
Methylene Chloride	ND	ppbv		0.77	1.48			12/28/05 04:08	HRG	75-09-2		

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ANALYTICAL RESULTS

Project 1025374

Project ID: KC KWIK STOP BROOTEN,MN

The results are reported as received by the laboratory.

Lab ID: **1025374001** Date Collected: 12/17/05 00:00 Matrix: Air

Sample ID: **543-110 WESTERN AVE** Date Received 12/20/05 16:10

Parameters	Results	Units	Report Limit	DF	Prepared	By	Analyzed	By	CAS No.	Qual	RegLmt
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.81	1.48			12/28/05 04:08	HRG	108-10-1		
Methyl-tert-butyl ether	ND	ppbv	1.5	1.48			12/28/05 04:08	HRG	1634-04-4		
Propylene	ND	ppbv	3.0	1.48			12/28/05 04:08	HRG	115-07-1		
Styrene	ND	ppbv	0.81	1.48			12/28/05 04:08	HRG	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	79-34-5		
Tetrachloroethene	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	127-18-4		
Tetrahydrofuran	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	109-99-9		
THC as Gas	110	ppbv	29.6	1.48			12/28/05 04:08	HRG			
Toluene	4.1	ppbv	0.77	1.48			12/28/05 04:08	HRG	108-88-3		
1,2,4-Trichlorobenzene	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	120-82-1		
1,1,1-Trichloroethane	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	71-55-6		
1,1,2-Trichloroethane	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	79-00-5		
Trichloroethene	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	79-01-6		
Trichlorofluoromethane	ND	ppbv	0.74	1.48			12/28/05 04:08	HRG	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	76-13-1		
1,2,4-Trimethylbenzene	ND	ppbv	0.75	1.48			12/28/05 04:08	HRG	95-63-6		
1,3,5-Trimethylbenzene	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	108-67-8		
Vinyl acetate	ND	ppbv	0.81	1.48			12/28/05 04:08	HRG	108-05-4		
Vinyl chloride	ND	ppbv	0.75	1.48			12/28/05 04:08	HRG	75-01-4		
m&p-Xylene	2.5	ppbv	1.5	1.48			12/28/05 04:08	HRG	1330-20-7		
o-Xylene	ND	ppbv	0.77	1.48			12/28/05 04:08	HRG	95-47-6		

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ANALYTICAL RESULTS QUALIFIERS

Project 1025374
Project ID KC KWIK STOP BROOTEN,MN

PARAMETER QUALIFIERS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL - Adjusted Method Detection Limit

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene

ANALYTE QUALIFIERS

[1] The continuing calibration for this compound is outside of method control limits. The result for this compound should be considered an estimation

[2] The initial calibration for this compound is outside of method control limits. The result for this compound is an estimation.

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QUALITY CONTROL DATA

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

QC Batch: AIR/3183
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR
Associated Lab Samples: 1025374001

METHOD BLANK: 176448
Associated Lab Samples: 1025374001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethane	ppbv	ND	0 52	
1,1-Dichloroethene	ppbv	ND	0.52	
1,1,1-Trichloroethane	ppbv	ND	0.52	
1,1,2-Trichloroethane	ppbv	ND	0 52	
1,1,2,2-Tetrachloroethane	ppbv	ND	0 52	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	
1,2-Dichlorobenzene	ppbv	ND	0.51	
1,2-Dichloroethane	ppbv	ND	0 52	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	
1,2-Dichloropropane	ppbv	ND	0.52	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	
1,3-Butadiene	ppbv	ND	0.52	
1,3-Dichlorobenzene	ppbv	ND	0 51	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	
1,4-Dichlorobenzene	ppbv	ND	0.51	
2-Butanone (MEK)	ppbv	ND	0 55	
2-Hexanone	ppbv	ND	0.55	
4-Ethyltoluene	ppbv	ND	0.53	
Carbon disulfide	ppbv	ND	0.50	
Dichlorotetrafluoroethane	ppbv	ND	0 57	
Acetone	ppbv	ND	0 55	
Benzene	ppbv	ND	0.52	
Bromodichloromethane	ppbv	ND	0.51	
Bromomethane	ppbv	ND	0.51	
Bromoform	ppbv	ND	0 52	
cis-1,2-Dichloroethene	ppbv	ND	0 52	
cis-1,3-Dichloropropene	ppbv	ND	0.51	
Carbon tetrachloride	ppbv	ND	0.51	
Cyclohexane	ppbv	ND	0.52	
Chlorobenzene	ppbv	ND	0.52	
Chloroethane	ppbv	ND	0.51	
Chloroform	ppbv	ND	0 51	
Chloromethane	ppbv	ND	0.50	
Dibromochloromethane	ppbv	ND	0.53	
Dichlorodifluoromethane	ppbv	ND	0.51	
Ethyl acetate	ppbv	ND	0.51	
Ethylbenzene	ppbv	ND	0 52	
Hexachloro-1,3-butadiene	ppbv	ND	0.50 2	
Methylene Chloride	ppbv	ND	0 52	

Date: 01/04/2006

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QUALITY CONTROL DATA

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl-tert-butyl ether	ppbv	ND	1 0	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	
m&p-Xylene	ppbv	ND	1.0	
n-Heptane	ppbv	ND	0.52	
n-Hexane	ppbv	ND	0.53	
o-Xylene	ppbv	ND	0.52	
Propylene	ppbv	ND	2.0	
Styrene	ppbv	ND	0.55	
trans-1,2-Dichloroethene	ppbv	ND	1 0	3
trans-1,3-Dichloropropene	ppbv	ND	0.52	
Tetrachloroethene	ppbv	ND	0.52	
Tetrahydrofuran	ppbv	ND	0.52	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	
Toluene	ppbv	ND	0.52	
Trichloroethene	ppbv	ND	0.52	
Trichlorofluoromethane	ppbv	ND	0.50	
Vinyl acetate	ppbv	ND	0 55	
Vinyl chloride	ppbv	ND	0.51	

METHOD BLANK: 176448

Associated Lab Samples: 1025374001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
THC as Gas	ppbv	ND	20.0	

LABORATORY CONTROL SAMPLE 176449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ppbv	10.7	9.8	91	59-136	
1,1-Dichloroethene	ppbv	10.8	11 1	103	60-137	
1,1,1-Trichloroethane	ppbv	10 6	10.7	101	60-134	
1,1,2-Trichloroethane	ppbv	10 7	10.6	99	64-128	
1,1,2,2-Tetrachloroethane	ppbv	10.6	10.5	99	55-141	
1,2,4-Trichlorobenzene	ppbv	10.4	15 3	147	50-150	
1,2-Dichlorobenzene	ppbv	10 4	12.0	115	60-139	
1,2-Dichloroethane	ppbv	10.6	11 1	105	56-141	
1,2-Dibromoethane (EDB)	ppbv	10.5	11.5	109	81-136	
1,2-Dichloropropane	ppbv	10.5	10.7	101	57-131	
1,2,4-Trimethylbenzene	ppbv	10.4	10.7	103	63-137	
1,3-Butadiene	ppbv	10 7	11.4	107	53-140	
1,3-Dichlorobenzene	ppbv	10.5	12 8	122	59-136	

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QUALITY CONTROL DATA

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

LABORATORY CONTROL SAMPLE. 176449

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3,5-Trimethylbenzene	ppbv	10.4	10 6	102	61-134	
1,4-Dichlorobenzene	ppbv	10.5	12.3	118	59-130	
2-Butanone (MEK)	ppbv	10.4	11.6	111	54-133	
2-Hexanone	ppbv	10 4	15.3	147	54-139	1
4-Ethyltoluene	ppbv	10.3	11.0	107	61-138	
Carbon disulfide	ppbv	10.4	12.0	115	50-150	
Dichlorotetrafluoroethane	ppbv	9.9	9.7	98	59-130	
Acetone	ppbv	10.3	12.7	123	50-139	
Benzene	ppbv	10.6	10.6	100	64-125	
Bromodichloromethane	ppbv	10.4	11 0	106	61-131	
Bromomethane	ppbv	10.1	10.3	102	55-135	
Bromoform	ppbv	10.4	11 6	112	66-138	
cis-1,2-Dichloroethene	ppbv	10.7	11 4	106	62-135	
cis-1,3-Dichloropropene	ppbv	10 5	12 6	120	64-133	
Carbon tetrachloride	ppbv	10 7	10.6	99	58-135	
Cyclohexane	ppbv	10.2	12.0	118	54-139	
Chlorobenzene	ppbv	10 6	10 6	100	62-139	
Chloroethane	ppbv	10	10.7	107	56-140	
Chloroform	ppbv	9.8	9 5	97	50-150	
Chloromethane	ppbv	9.9	9.3	94	56-144	
Dibromochloromethane	ppbv	10.4	12.3	118	50-150	
Dichlorodifluoromethane	ppbv	10 1	9.5	94	60-130	
Ethyl acetate	ppbv	9.8	11.0	113	60-132	
Ethylbenzene	ppbv	10 5	12.5	119	65-140	
Hexachloro-1,3-butadiene	ppbv	10 4	12.3	118	50-150	2
Methylene Chloride	ppbv	10.8	10 7	99	56-138	
Methyl-tert-butyl ether	ppbv	10 2	13.9	136	50-150	
4-Methyl-2-pentanone (MIBK)	ppbv	10.4	11.5	110	53-139	
m&p-Xylene	ppbv	20.8	24.9	120	60-132	
n-Heptane	ppbv	10.2	10	98	62-135	
n-Hexane	ppbv	10.1	11.9	118	62-134	
o-Xylene	ppbv	10 6	10.1	95	64-132	
Propylene	ppbv	10.6	9.6	91	56-125	
Styrene	ppbv	10.5	10 1	96	69-134	
trans-1,2-Dichloroethene	ppbv	10	12.2	122	50-150	3
trans-1,3-Dichloropropene	ppbv	11	10.9	99	70-142	
Tetrachloroethene	ppbv	10.5	11.0	105	60-137	
Tetrahydrofuran	ppbv	10 2	9.9	97	52-139	
1,1,2-Trichlorotrifluoroethane	ppbv	10.9	11 0	101	55-137	
Toluene	ppbv	10.6	12.3	116	69-130	
Trichloroethene	ppbv	10.4	11.2	108	60-134	
Trichlorofluoromethane	ppbv	10.2	10.4	102	56-141	
Vinyl acetate	ppbv	10.6	12.8	121	61-142	
Vinyl chloride	ppbv	10	10.1	101	66-132	

Date 01/04/2006

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QUALITY CONTROL DATA

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

SAMPLE DUPLICATE: 176450

Parameter	Units	1025369004 Result	DUP Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ppbv	ND	ND	0	30	
1,1-Dichloroethene	ppbv	ND	ND	0	30	
1,1,1-Trichloroethane	ppbv	ND	ND	0	30	
1,1,2-Trichloroethane	ppbv	ND	ND	0	30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND	0	30	
1,2,4-Trichlorobenzene	ppbv	ND	ND	0	30	
1,2-Dichlorobenzene	ppbv	ND	ND	0	30	
1,2-Dichloroethane	ppbv	ND	ND	0	30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND	0	30	
1,2-Dichloropropane	ppbv	ND	ND	0	30	
1,2,4-Trimethylbenzene	ppbv	ND	ND	0	30	
1,3-Butadiene	ppbv	ND	ND	0	30	
1,3-Dichlorobenzene	ppbv	ND	ND	0	30	
1,3,5-Trimethylbenzene	ppbv	ND	ND	0	30	
1,4-Dichlorobenzene	ppbv	ND	ND	0	30	
2-Butanone (MEK)	ppbv	ND	ND	0	30	
2-Hexanone	ppbv	ND	ND	0	30	
4-Ethyltoluene	ppbv	ND	ND	0	30	
Carbon disulfide	ppbv	ND	ND	0	30	
Dichlorotetrafluoroethane	ppbv	ND	ND	0	30	
Acetone	ppbv	20.7	17.0	20	30	
Benzene	ppbv	ND	ND	0	30	
Bromodichloromethane	ppbv	ND	ND	0	30	
Bromomethane	ppbv	ND	ND	0	30	
Bromoform	ppbv	ND	ND	0	30	
cis-1,2-Dichloroethene	ppbv	ND	ND	0	30	
cis-1,3-Dichloropropene	ppbv	ND	ND	0	30	
Carbon tetrachloride	ppbv	ND	ND	0	30	
Cyclohexane	ppbv	ND	ND	0	30	
Chlorobenzene	ppbv	ND	ND	0	30	
Chloroethane	ppbv	ND	ND	0	30	
Chloroform	ppbv	ND	ND	0	30	
Chloromethane	ppbv	ND	ND	0	30	
Dibromochloromethane	ppbv	ND	ND	0	30	
Dichlorodifluoromethane	ppbv	ND	ND	0	30	
Ethyl acetate	ppbv	ND	ND	0	30	
Ethylbenzene	ppbv	ND	ND	0	30	
Hexachloro-1,3-butadiene	ppbv	ND	ND	0	30	2
Methylene Chloride	ppbv	ND	ND	0	30	

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QUALITY CONTROL DATA

Project 1025374
Project ID: KC KWIK STOP BROOTEN,MN

SAMPLE DUPLICATE: 176450

Parameter	Units	1025369004 Result	DUP Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ppbv	ND	ND	0	30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND	0	30	
m&p-Xylene	ppbv	ND	ND	0	30	
n-Heptane	ppbv	ND	ND	0	30	
n-Hexane	ppbv	ND	ND	0	30	
o-Xylene	ppbv	ND	ND	0	30	
Propylene	ppbv	ND	ND	0	30	
Styrene	ppbv	ND	ND	0	30	
trans-1,2-Dichloroethene	ppbv	ND	ND	0	30	3
trans-1,3-Dichloropropene	ppbv	ND	ND	0	30	
Tetrachloroethene	ppbv	ND	ND	0	30	
Tetrahydrofuran	ppbv	ND	ND	0	30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND	0	30	
Toluene	ppbv	16.1	19.8	20	30	
Trichloroethene	ppbv	ND	ND	0	30	
Trichlorofluoromethane	ppbv	ND	ND	0	30	
Vinyl acetate	ppbv	ND	ND	0	30	
Vinyl chloride	ppbv	ND	ND	0	30	

SAMPLE DUPLICATE: 176450

Parameter	Units	1025369004 Result	DUP Result	RPD	Max RPD	Qualifiers
THC as Gas	ppbv	ND	ND	0	30	

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QUALITY CONTROL DATA QUALIFIERS

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

QUALITY CONTROL PARAMETER QUALIFIERS

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

QUALITY CONTROL ANALYTE QUALIFIERS

[1] Result for this analyte was above the acceptable LCS recovery limit. Results for this analyte in associated samples may be biased high.

[2] The continuing calibration for this compound is outside of method control limits. The result for this compound should be considered an estimation.

[3] The initial calibration for this compound is outside of method control limits. The result for this compound is an estimation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1025374
Project ID: KC KWIK STOP BROOTEN,MN

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1025374001	**543-110 WESTERN AVE**	TO-15	AIR/3183		

COTEAU ENVIRONMENTAL - FAX COVER SHEET

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Phone (605) 886-4009

Send to: Steven Palzkill, P.G.	**From:** Nate Hunke, M.S., P.G.
Company: MPCA	Date: February 2, 2006
Office Location: Brainerd, Minnesota	Office Location: Watertown, SD
Fax Number: (218) 828-2594	Fax Number: 605-882-4152

☐ Urgent ☐ Reply ASAP ✔ Please Review ☐ For your information

Total pages, including cover: 2

Comments:

Steve, this is a revised Table 7 for the annual report dated January 23, 2006. Please
call with any questions.

Sub Slab

7.98

20.17

0.86

Table 7
Soil Vapor Intrusion Laboratory Analytical Results

Sample	Date Sampled	Methylene Chloride	Benzene	Toluene	1,2,4-Tri-methyl-benzene	1,2 DCA	Ethyl benzene	Xylenes	Acetone	Chlor-methane	2-Butanone	Carbon disulfide	4-Ethyl-toluene	n-Heptane	THC as Gas	Tri-chloro-ethene	1,3,5-Tri-methyl-benzene	n-hexane
110 Western Ave.	11-9-05	10.59		229.59		ND	16.06	56.85	36.06	ND	2.4	3.3	2.7	1.0	715		4.23	5.9
110 Western Ave.	12-17-05	ND	ND	15.46	ND	ND	ND	10.85	38.72	ND	1.5	ND	ND	ND	110	ND	ND	0.78
MDH Acute HRV (ug/m^3)		10,000	1,000	37,000	None	None	10,000	43,000	None	None	None	None	None	None	None	2,000	None	None
MDH Chronic HRV (ug/m^3)		20	1.3-4.5	400	None	None	None	None	None	None	None	None	None	None	None	None	None	None
EPA Ref-erence Conc (ug/m^3)		None	None	None	6	None	1,000	700	350	90	None	None	None	None	None	None	6	None
MDH ISC (ug/m^3)		None	None	None	None	0.38	None	None	None	None	None	None	None	None	None	0.4	None	None

Results are reported in micrograms per cubic meter soil vapor (ug/m^3).

Notes: ND = Nondetectable MDH = Minnesota Department of Health
HRV = Health Risk Value EPA = Environmental Protection Agency
ISC = MDH Interim Screening Concentration

Shaded values are above the MDH Acute HRV, the MDH Chronic HRV, the EPA Reference Concentration or the MDH ISC.

THC = Area sum of target and non-target compounds in the gasoline range.

COTEAU ENVIRONMENTAL - FAX COVER SHEET

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Phone (605) 886-4009

Send to: Steven Palzkill, P.G.	**From:** Nate Hunke, M.S., P.G.
Company: MPCA	Date: February 3, 2006
Office Location: Brainerd, Minnesota	Office Location: Watertown, SD
Fax Number: (218) 828-2594	Fax Number: 605-882-4152

☐ Urgent ☐ Reply ASAP ✔ Please Review ☐ For your information

Total pages, including cover: 6

Comments:

Steve, the vapor survey for the former KC's Kwik Stop in Brooten, MN. MPCA No.
14698. 110 Western Avenue. Please call with any questions.

Appendix 2

(a) Example Indoor Air Quality Building Survey
(b) Instructions for Residents of Homes Being Sampled

Source: MA DEP 2002

1030

Indoor Air Quality Building Survey

Date: 12/16/05
Address: 110 WESTERN AVE
BROOTEN, MN 56316

Contact Name: MURRIS GROSS
Phone: home: 320 346-2497 work: ( )

List of Currant Occupants/Occupation:

Age (if under 18)	Sex (M/F)	Occupation
59	M	RETIRED
67	F	RETIRED

Building Construction Characteristics:

What type of building is it? (Circle appropriate responses)

(Single Family) Multi-Family School Commercial

(Ranch) 2-Family
Raised Ranch Duplex
Cape Apartment House (# of units ___)
Colonial Condominium (# of units ___)
Split Level Other (Specify) _____
Mobile Home

General description of building construction materials: WOOD PLASTER SHEET ROCK POURED BASEMENT

How many occupied stories does the building have? 2

Year built? 1920

Has the building been weatherized with any of the following? (Circle all that apply)

(Insulation) (Storm Windows) Energy-efficient windows Other (specify)

Attached garage? (Y/N) N Vehicle(s) present? (Y/N) _____

What type of basement does the building have? (Circle all that apply)
Full basement Crawlspace Slab-on-Grade Other (specify)

What are the characteristics of the basement? (Circle all that apply)

	Basement Floor:	Foundation Walls:	Moisture:
Finished	Concrete	Poured Concrete	Wet
Unfinished	Dirt	Block	Damp
Partially Finished (50%)	Other (specify)____	Field Stone	Dry

Is a basement sump present? (Y/N) N Sealed to indoor air? (Y/N) Y

Does the basement have any of the following characteristics (e.g. preferential vapor pathways) that might permit soil vapor entry? (Circle all that apply)

Cracks Pipe/Utility conduits Other (specify)_____
Foundation/slab drainage Sump pumps

Heating and Ventilation System(s) Present:

What types of heating system(s) are used in this building? (Circle all that apply)
Hot Air Circulation Heat Pump Steam Radiation Wood Stove

Hot Air Radiation Unvented Kerosene Heater Electric Baseboard Heat

Other (specify) Air Conditioner (central/window) Fireplace (wood/gas)

What types of fuels are used in this building? (Circle all that apply)
Natural gas Electric Coal Other (specify)_____

Fuel Oil Wood Solar

What type of mechanical ventilation systems are present and/or currently operating in this building? (Circle all that apply)

Central Air Conditioning Mechanical Fans (ceiling) Bathroom Vent Fan

Individual Air Conditioning Kitchen Range Hood Air-to-Air Heat Exchanger

Open Windows Other (specify)_____

Sources of Chemical Contaminants:

Which of these are present in the building? (Check all that apply)

Potential VOC Source	Location of Source	Major Ingredients	Removed Prior to Air Sampling? (Y/N/NA)
Paint or Paint thinners			
Gas-powered equipment			
Gasoline storage cans			
Cleaning solvents			
Air fresheners			
Oven cleaners			
Carpet / upholstery cleaners			
Hairspray			
Nail polish / remover			
Bathroom cleaner			
Appliance cleaner			
Furniture / floor polish			
Moth balls			
Fuel oil tank			
Wood stove			
Fireplace			
Perfume / colognes			
Hobby supplies			
Scented potpourri, etc			
Other			
Other			
Other			

Do one or more smokers occupy this building on a regular basis? (Y/N) N
Has anybody smoked in the building in the last 48 hours? (Y/N) N

Do the occupants frequently have clothes dry-cleaned? (Y/N) N

Any recent remodeling or repainting? (Y/N, describe) N

Any obvious pressed wood products (e.g. hardwood plywood wall paneling, particleboard, fiberboard)? (Y/N) WALL PANELING

Are there any new upholstery, drapes, carpets, or other textiles? (Y/N) N

Has the building been treated with any insecticides/pesticides? If so, how often and what chemicals are used? NO

Do any of the occupants apply pesticides/herbicides in the yard or garden? If so, how often and what chemicals are used? NO

Outdoor Sources of Contamination:

Are there any stationary emission sources in the vicinity of the building? NO

Are there any mobile sources (e.g. highway, bus stop, high-traffic area) in the vicinity of the building? NO

Weather Conditions During Sampling:

Outside Temperature (°F): 10°F
Prevailing wind direction: WEST/NW
Describe general weather conditions (e.g. sunny, cloudy, rain): CLOUDY
Was there any significant precipitation (>0.1 inches) within 12 hours preceding sampling? (Y/N) Y
Type of ground cover (e.g. grass, pavement, etc.) outside the building: 2-3 INCHES SNOW

General Comments:

Is there any other information about the structural features of this building, the habits of its occupants or potential sources of chemical contaminants to the indoor air that may be of importance in evaluating the indoor air quality of the building?

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728 Janes Circle Dr. SW • Alexandria, MN 56308 • Bus/Fax (320) 846-4668

May 17, 2006

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

RE: Active Remediation-Petroleum Vapor Mitigation System
Corrective Action Design
Former KC Kwik Stop
230 1ST Street
Brooten, Minnesota
MPCA No. 14698

Dear Mr. Borgerding:

Coteau Environmental (Coteau) has prepared this corrective action design (CAD) relating to installation of the proposed petroleum vapor mitigation system at the above-referenced site. This work plan was prepared based on telephone correspondence with Mr. John Kahler with the Minnesota Pollution Control Agency (MPCA) and Coteau on March 7, 2006. Based on MPCA correspondence, installation of a passive ventilation system in the basement located at 110 South Western Avenue is required to mitigate petroleum vapor migration into the 110 South Western Avenue residence. In addition, it is likely that vapors are entering the residence through an open cistern in the basement of the residence. Therefore, the cistern be permanently plugged. Please note that evaporation water from the furnace currently discharges to the cistern. Therefore, the discharge will need to be rerouted to the drain to the sanitary sewer system of the residence.

The enclosed CAD includes plans and specifications for the proposed vapor mitigation system. In addition, sampling and reporting specifications are included with the proposed CAD. A copy of the CAD will be submitted to the MPCA for review and approval. Following approval of the CAD, bids from qualified plumbing contractors will be procured.

If you have any questions regarding the enclosed corrective action design, please contact me at (888) 781-0272. Coteau Environmental appreciates the opportunity to provide professional consulting services to North American State Bank of Belgrade, Minnesota.

Sincerely,

COTEAU ENVIRONMENTAL

Nathan T. Hunke, M.S., P.G., CPRR
Senior Hydrogeologist

cc: Mr. Steve Palzkill, MPCA

ACTIVE REMEDIATION-PETROLEUM VAPOR MITIGATION SYSTEM
CORRECTIVE ACTION DESIGN
FORMER KC KWIK STOP
230 1ST STREET
BROOTEN, MINNESOTA
MPCA NO. 14698

Prepared for:

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

May 17, 2006

Prepared by:

Coteau Environmental
3930 Sunnybrook Drive NW
Alexandria, MN 56308
(320) 846-4668

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List of Figures

Figure

PETROLEUM-VAPOR MITIGATION SYSTEM
CORRECTIVE ACTION DESIGN
FORMER KC'S KWIK STOP
BROOTEN, MINNESOTA

Coteau Environmental (Coteau) has prepared this corrective action design (CAD) relating to installation of the proposed petroleum-vapor mitigation system at the above-referenced site (Figure 1). This work plan was prepared based on telephone correspondence with Mr. John Kahler with the Minnesota Pollution Control Agency (MPCA) on March 7, 2006. Based on correspondence with the MPCA, installation of a passive ventilation system in the basement located at 110 South Western Avenue is required to mitigate the migration of petroleum vapors into the 110 South Western residence. In addition, an open cistern exists in the basement of the residence. The open cistern is currently utilized for discharge of condensation water from the residential furnace. Sealing of the cistern along with rerouting the condensation water to a drain to the sanitary sewer is required.

Petroleum-Vapor Mitigation System

A passive sub-slab depressurization (SSD) system will be installed in the 110 South Western Avenue residence to mitigate petroleum vapor migration into the residential basement (Figure 2). These types of ventilation systems are commonly used for radon gas mitigation (EPA, 1993 and1994). The "passive" SSD system uses PVC pipe and an attic or "whirly bird" fan to draw soil vapors that accumulate below the basement floor and exhaust the vapors to above the roof. Three (3)-inch PVC pipe is installed through the concrete floor of the basement (Figure 3). The thickness of the concrete floor of the 110 South Western basement is approximately two (2) inches. To provide optimum communication between the sub-slab soil and the passive SSD system, adequate sub-slab material is excavated from the area immediately below the slab penetration point of the passive SSD system vent pipes (Figure 4). Following installation of the three (3)-inch PVC pipe in the basement slab, the pipe is sealed using sealant or concrete. The PVC pipe will be routed from the basement of the residence to the roof. An abandoned chimney in the 110 South Western residence will provide a path to the roof for the SSD ventilation system. The passive SSD system attic or "whirly bird" fan will be secured to the top of the PVC pipe that protrudes from the roof of the structure to create a vacuum under the basement floor to vent the vapors to the outside air. The

PVC pipe will protrude above the roof line of the building. To prevent the vapors from reentering the structure or other structures in the vicinity of the 110 South Western Avenue residence, the PVC pipe will protrude from the residence at least 10 feet away from any opening in the structure that is less than two feet below the exhaust point, be above the eave of the roof, be 10 feet or more above ground level, be 10 feet or more from any window, door, or other opening into conditioned spaces of the structure that is less than two feet below the exhaust point, and be ten feet or more from any opening into an adjacent building.

A cistern exists in the basement of the 110 South Western Avenue residential basement (Figure 5. For radon, sump pits (or cisterns) that permit entry of soil-gas or that would allow conditioned indoor air to be drawn into a sub-slab depressurization system should be covered and sealed (EPA, 1994). Therefore, the cistern will be sealed to prevent conditioned indoor air to be drawn into the proposed passive SSD system, following installation, and to prevent petroleum vapor migration into the structure from the subsurface. The sump pit exhibits dimensions of 2.67 feet wide by 5 feet deep. Therefore, the volume of the cistern is approximately 27.8 cubic feet or 1.03 cubic yards. The sump pit will be filled with approximately 1.0 cubic yard of fill material and sealed at the level of the basement floor with a two (2)-inch layer of concrete.

Please note that condensation water from the furnace of the residence currently discharges to the cistern. The discharge will be rerouted to the drain to the sanitary sewer system of the residential basement. Currently, the drains of the 110 South Western Avenue residence discharge to the City of Brooten sanitary sewer. A condensation pump will be installed to route the furnace condensation to the drain.

Post-Installation Vapor Mitigation System Testing

To test the operation of the passive SSD system,a "smoke" test be performed following installation. This test will be completed by puffing smoke near cracks in the floor of the basement. If the passive SSD system is working properly, the smoke should be pulled down and disappear through the cracks. Then if the system is operating properly, when the system is made inoperable by preventing the attic fan from spinning, during testing, the smoke should reappear from the crack. During testing, a shop vacuum will be utilized to create a vacuum in the sub-slab soil. If system

testing demonstrates that the system is not working properly, additional PVC pipes will be installed in the floor of the basement to enhance the effectiveness of the passive SSD system.

In addition to the "smoke" test, a vapor sample will be collected from the 110 South Western Avenue basement, following installation of the passive SSD system. One (1) indoor air sample will be collected from the basement of the residence at 110 South Western Avenue, on a quarterly basis, and analyzed for volatile organic compounds (Appendix A, Minnesota Soil Gas List, Guidance Document c-prp4-01a) utilizing EPA method TO-15. In addition, a photoionization detector (PID) reading, the final pressure and the time of sample collection will be recorded on the chain of custody form.

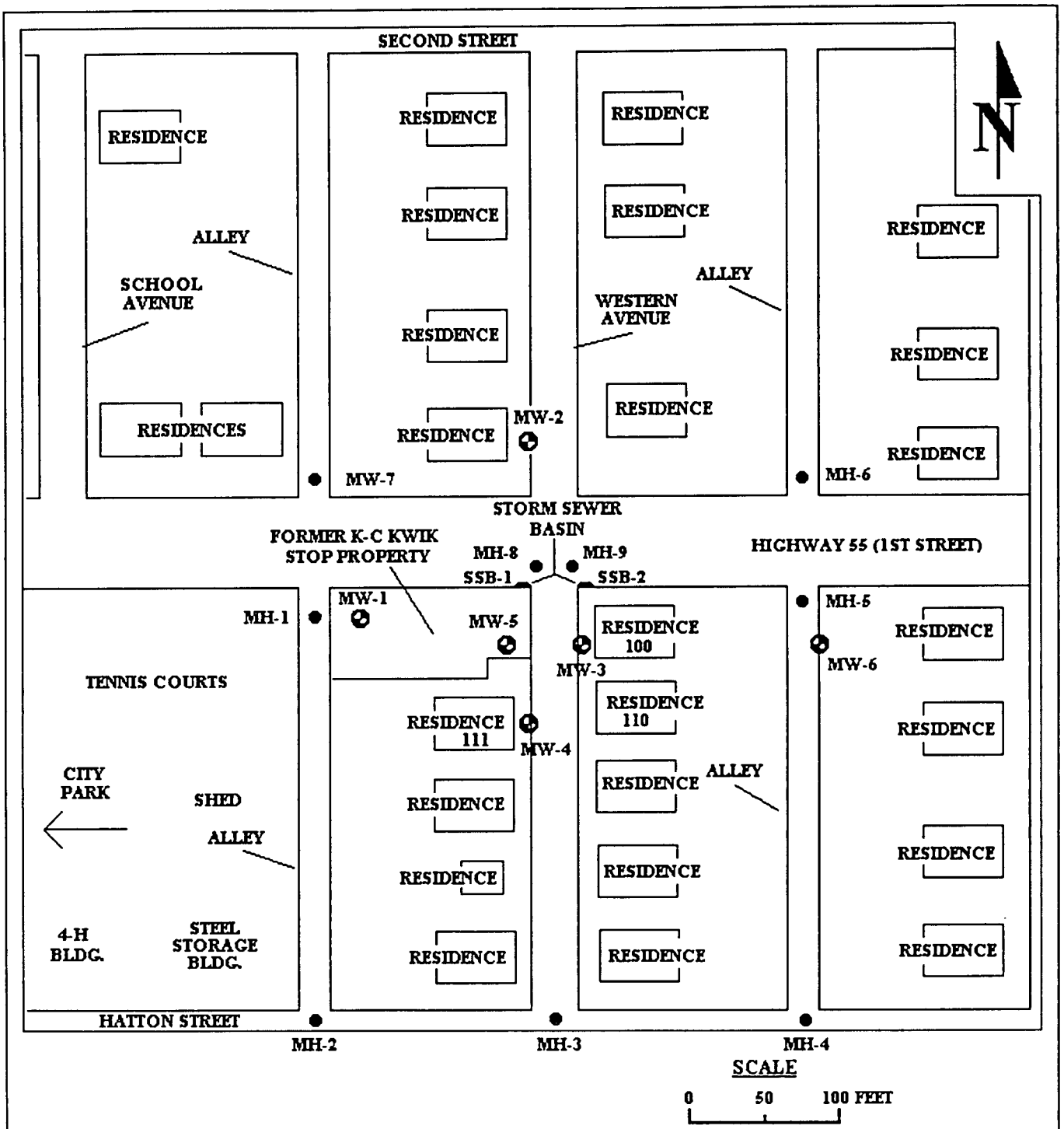
Vapor Mitigation System CAD Reporting

A report detailing the results of the installation of the proposed vapor mitigation system will be submitted to the MPCA following system installation and startup. The Corrective Action Design (CAD) Installation Notification Worksheet (MPCA Guidance Document 4-11) will be completed to report the installation and startup of the proposed vapor mitigation system. The reporting requirements not included on this work sheet will be discussed with MPCA staff, prior to completion of the CAD Installation Notification Worksheet. In addition, the results of the initial vapor monitoring will be included in Guidance Document 4-11. Subsequent quarterly vapor monitoring events will be included with the annual report format, MPCA guidance document No. 4.08. The annual report form (No. 4-08) will be utilized for annual monitoring reporting, presenting data, methods and procedures, conclusions and recommendations.

REFERENCES

Environmental Protection Agency, 1994, Radon Mitigation Standards (RMS), Office of Air and Radiation, Office of Radiation and Indoor Air Indoor Environments Division (6609J), EPA 402-R-93-078, October 1993 (Revised April 1994).

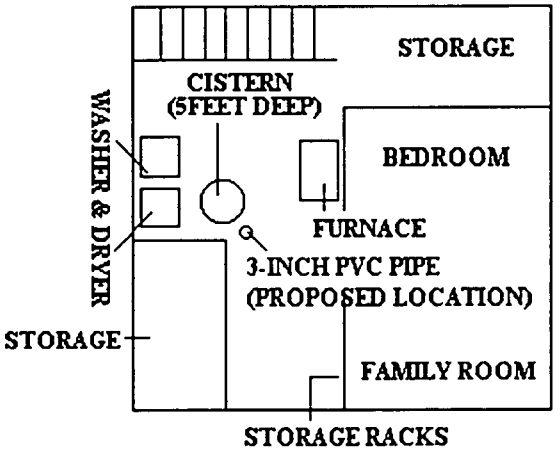
Environmental Protection Agency, 1993, Radon reduction techniques for existing detached houses, Technical Guidance (3rd Edition) for active depressurization systems; Office of Research and Development, EPA/625/R-93/011.



FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

SITE MAP

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE SW ALEXANDRIA, MN 56308 (320) 846-4668
DRAWN BY:	DATE: MAY 06	FIGURE: 1



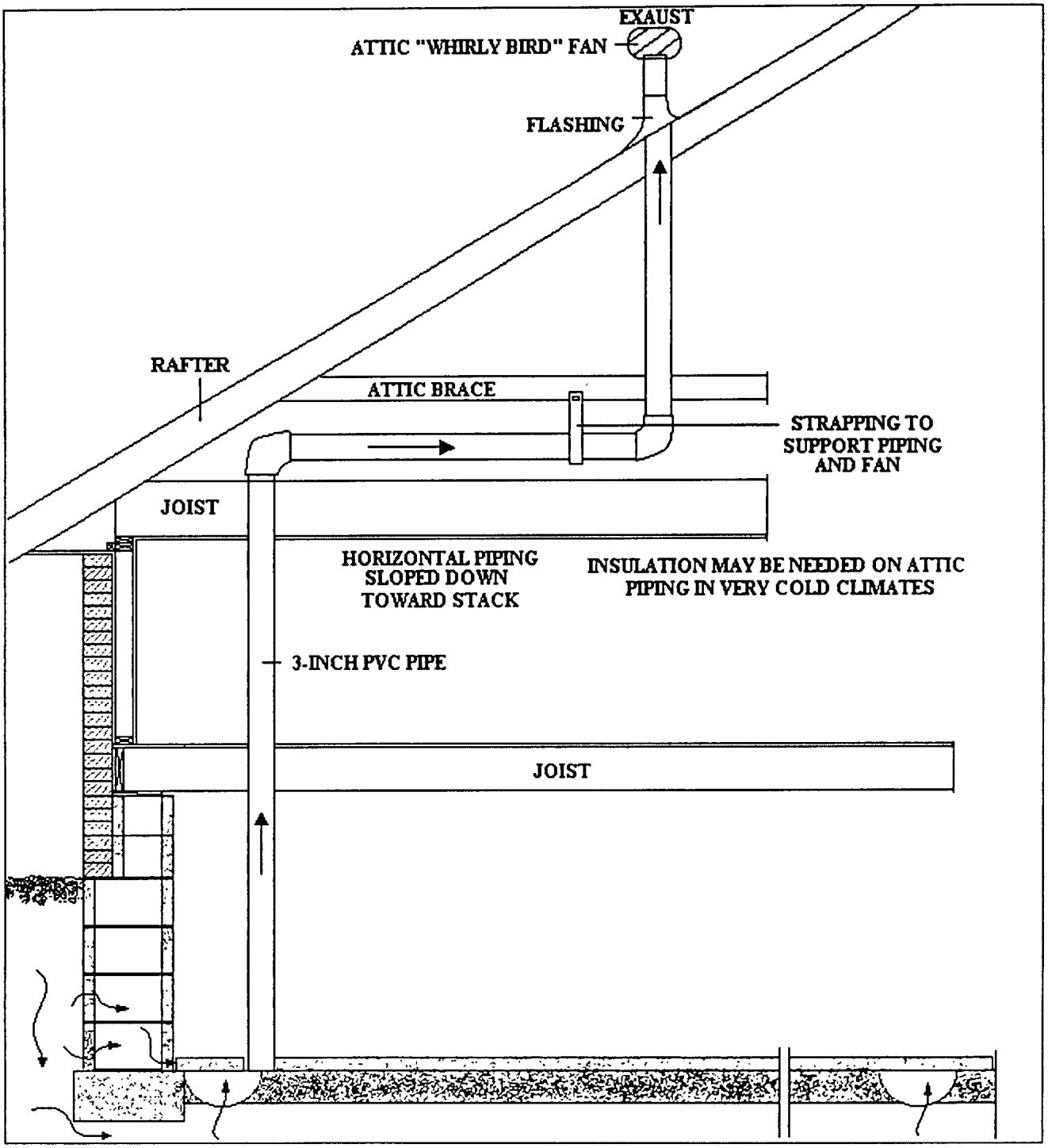
SCALE

0 5 10 FEET

FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

BASEMENT - 110 WESTERN AVENUE
BROOTEN, MINNESOTA

DATE	REVISED	
		COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE ALEXANDRIA, MN 56308 (320) 846-4668
DRAWN BY:	DATE: MAY 06	FIGURE: 2



FROM: EPA, 1993

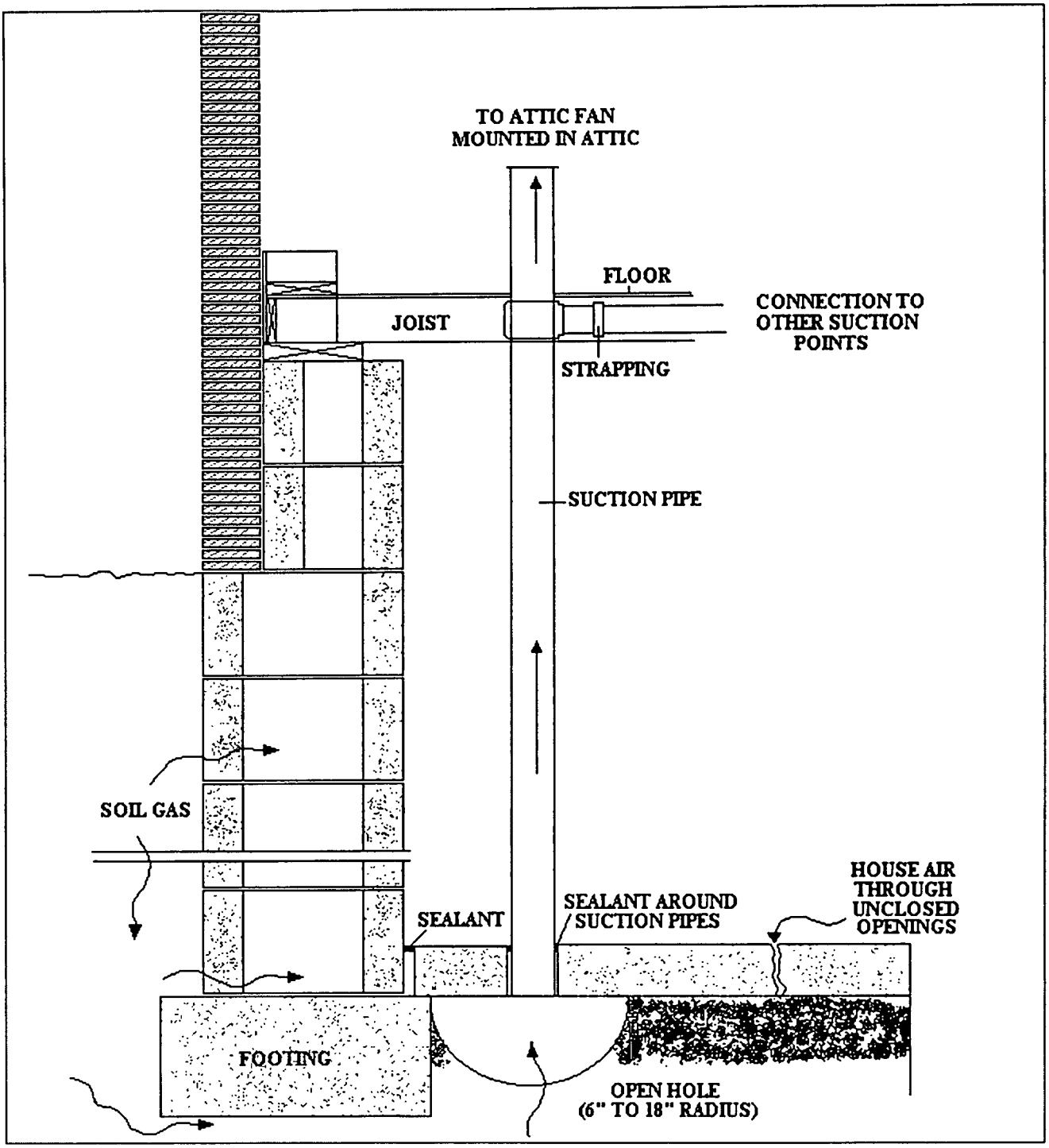
NOT TO SCALE

FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

PROPOSED SSD SYSTEM CONFIGURATION
110 SOUTH WESTERN AVE.
BROOTEN, MINNESOTA

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE ALEXANDRIA, MN 56308 (320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 3



FROM: EPA, 1993

NOT TO SCALE

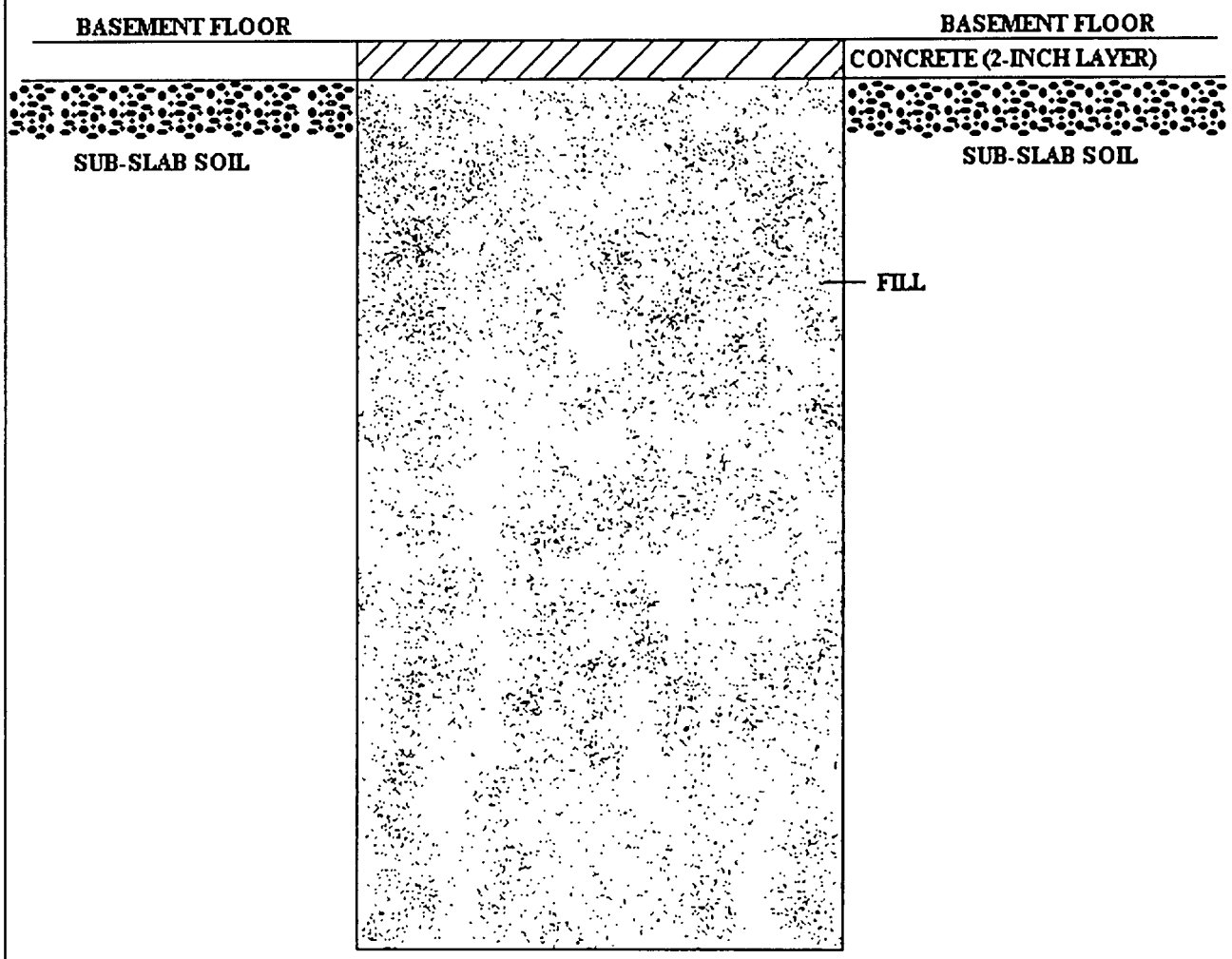
FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

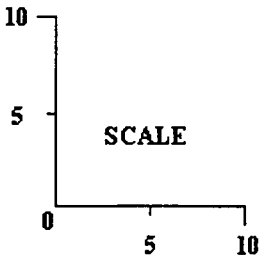
PROPOSED SSD SYSTEM INDOOR INSTALLATION
110 SOUTH WESTERN AVENUE
BROOTEN, MINNESOTA

DATE	REVISED

COTEAU ENVIRONMENTAL
728 JANES CIRCLE DRIVE
ALEXANDRIA, MN 56308
(320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 4





FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

PROPOSED CISTERN SEALING
110 SOUTH WESTERN AVE.
BROOTEN, MINNESOTA

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE ALEXANDRIA, MN 56308 (320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 5

COTEAU ENVIRONMENTAL

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Bus (605) 886-4009 • Fax (605) 882-4152
728 Janes Circle Dr. SW • Alexandria, MN 56308 • Bus/Fax (320) 846-4668

May 17, 2006

RECEIVED
MAY 22 2006

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

RE: Active Remediation-Petroleum Vapor Mitigation System
Corrective Action Design
Former KC Kwik Stop
230 1ST Street
Brooten, Minnesota
MPCA No. 14698

Dear Mr. Borgerding:

Coteau Environmental (Coteau) has prepared this corrective action design (CAD) relating to installation of the proposed petroleum vapor mitigation system at the above-referenced site. This work plan was prepared based on telephone correspondence with Mr. John Kahler with the Minnesota Pollution Control Agency (MPCA) and Coteau on March 7, 2006. Based on MPCA correspondence, installation of a passive ventilation system in the basement located at 110 South Western Avenue is required to mitigate petroleum vapor migration into the 110 South Western Avenue residence. In addition, it is likely that vapors are entering the residence through an open cistern in the basement of the residence. Therefore, the cistern be permanently plugged. Please note that evaporation water from the furnace currently discharges to the cistern. Therefore, the discharge will need to be rerouted to the drain to the sanitary sewer system of the residence.

The enclosed CAD includes plans and specifications for the proposed vapor mitigation system. In addition, sampling and reporting specifications are included with the proposed CAD. A copy of the CAD will be submitted to the MPCA for review and approval. Following approval of the CAD, bids from qualified plumbing contractors will be procured.

If you have any questions regarding the enclosed corrective action design, please contact me at (888) 781-0272. Coteau Environmental appreciates the opportunity to provide professional consulting services to North American State Bank of Belgrade, Minnesota.

Sincerely,

COTEAU ENVIRONMENTAL

Nathan T. Hunke, M.S., P.G., CPRR
Senior Hydrogeologist

cc: Mr. Steve Palzkill, MPCA

ACTIVE REMEDIATION-PETROLEUM VAPOR MITIGATION SYSTEM
CORRECTIVE ACTION DESIGN
FORMER KC KWIK STOP
230 1ST STREET
BROOTEN, MINNESOTA
MPCA NO. 14698

Prepared for:

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

May 17, 2006

Prepared by:

Coteau Environmental
3930 Sunnybrook Drive NW
Alexandria, MN 56308
(320) 846-4668

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List of Figures

Figure

PETROLEUM-VAPOR MITIGATION SYSTEM
CORRECTIVE ACTION DESIGN
FORMER KC'S KWIK STOP
BROOTEN, MINNESOTA

Coteau Environmental (Coteau) has prepared this corrective action design (CAD) relating to installation of the proposed petroleum-vapor mitigation system at the above-referenced site (Figure 1). This work plan was prepared based on telephone correspondence with Mr. John Kahler with the Minnesota Pollution Control Agency (MPCA) on March 7, 2006. Based on correspondence with the MPCA, installation of a passive ventilation system in the basement located at 110 South Western Avenue is required to mitigate the migration of petroleum vapors into the 110 South Western residence. In addition, an open cistern exists in the basement of the residence. The open cistern is currently utilized for discharge of condensation water from the residential furnace. Sealing of the cistern along with rerouting the condensation water to a drain to the sanitary sewer is required.

Petroleum-Vapor Mitigation System

A passive sub-slab depressurization (SSD) system will be installed in the 110 South Western Avenue residence to mitigate petroleum vapor migration into the residential basement (Figure 2). These types of ventilation systems are commonly used for radon gas mitigation (EPA, 1993 and1994). The "passive" SSD system uses PVC pipe and an attic or "whirly bird" fan to draw soil vapors that accumulate below the basement floor and exhaust the vapors to above the roof. Three (3)-inch PVC pipe is installed through the concrete floor of the basement (Figure 3). The thickness of the concrete floor of the 110 South Western basement is approximately two (2) inches. To provide optimum communication between the sub-slab soil and the passive SSD system, adequate sub-slab material is excavated from the area immediately below the slab penetration point of the passive SSD system vent pipes (Figure 4). Following installation of the three (3)-inch PVC pipe in the basement slab, the pipe is sealed using sealant or concrete. The PVC pipe will be routed from the basement of the residence to the roof. An abandoned chimney in the 110 South Western residence will provide a path to the roof for the SSD ventilation system. The passive SSD system attic or "whirly bird" fan will be secured to the top of the PVC pipe that protrudes from the roof of the structure to create a vacuum under the basement floor to vent the vapors to the outside air. The

PVC pipe will protrude above the roof line of the building. To prevent the vapors from reentering the structure or other structures in the vicinity of the 110 South Western Avenue residence, the PVC pipe will protrude from the residence at least 10 feet away from any opening in the structure that is less than two feet below the exhaust point, be above the eave of the roof, be 10 feet or more above ground level, be 10 feet or more from any window, door, or other opening into conditioned spaces of the structure that is less than two feet below the exhaust point, and be ten feet or more from any opening into an adjacent building.

A cistern exists in the basement of the 110 South Western Avenue residential basement (Figure 5. For radon, sump pits (or cisterns) that permit entry of soil-gas or that would allow conditioned indoor air to be drawn into a sub-slab depressurization system should be covered and sealed (EPA, 1994). Therefore, the cistern will be sealed to prevent conditioned indoor air to be drawn into the proposed passive SSD system, following installation, and to prevent petroleum vapor migration into the structure from the subsurface. The sump pit exhibits dimensions of 2.67 feet wide by 5 feet deep. Therefore, the volume of the cistern is approximately 27.8 cubic feet or 1.03 cubic yards. The sump pit will be filled with approximately 1.0 cubic yard of fill material and sealed at the level of the basement floor with a two (2)-inch layer of concrete.

Please note that condensation water from the furnace of the residence currently discharges to the cistern. The discharge will be rerouted to the drain to the sanitary sewer system of the residential basement. Currently, the drains of the 110 South Western Avenue residence discharge to the City of Brooten sanitary sewer. A condensation pump will be installed to route the furnace condensation to the drain.

Post-Installation Vapor Mitigation System Testing

To test the operation of the passive SSD system,a "smoke" test be performed following installation. This test will be completed by puffing smoke near cracks in the floor of the basement. If the passive SSD system is working properly, the smoke should be pulled down and disappear through the cracks. Then if the system is operating properly, when the system is made inoperable by preventing the attic fan from spinning, during testing, the smoke should reappear from the crack. During testing, a shop vacuum will be utilized to create a vacuum in the sub-slab soil. If system

testing demonstrates that the system is not working properly, additional PVC pipes will be installed in the floor of the basement to enhance the effectiveness of the passive SSD system.

In addition to the "smoke" test, a vapor sample will be collected from the 110 South Western Avenue basement, following installation of the passive SSD system. One (1) indoor air sample will be collected from the basement of the residence at 110 South Western Avenue, on a quarterly basis, and analyzed for volatile organic compounds (Appendix A, Minnesota Soil Gas List, Guidance Document c-prp4-01a) utilizing EPA method TO-15. In addition, a photoionization detector (PID) reading, the final pressure and the time of sample collection will be recorded on the chain of custody form.

Vapor Mitigation System CAD Reporting

A report detailing the results of the installation of the proposed vapor mitigation system will be submitted to the MPCA following system installation and startup. The Corrective Action Design (CAD) Installation Notification Worksheet (MPCA Guidance Document 4-11) will be completed to report the installation and startup of the proposed vapor mitigation system. The reporting requirements not included on this work sheet will be discussed with MPCA staff, prior to completion of the CAD Installation Notification Worksheet. In addition, the results of the initial vapor monitoring will be included in Guidance Document 4-11. Subsequent quarterly vapor monitoring events will be included with the annual report format, MPCA guidance document No. 4.08. The annual report form (No. 4-08) will be utilized for annual monitoring reporting, presenting data, methods and procedures, conclusions and recommendations.

REFERENCES

Environmental Protection Agency, 1994, Radon Mitigation Standards (RMS), Office of Air and Radiation, Office of Radiation and Indoor Air Indoor Environments Division (6609J), EPA 402-R-93-078, October 1993 (Revised April 1994).

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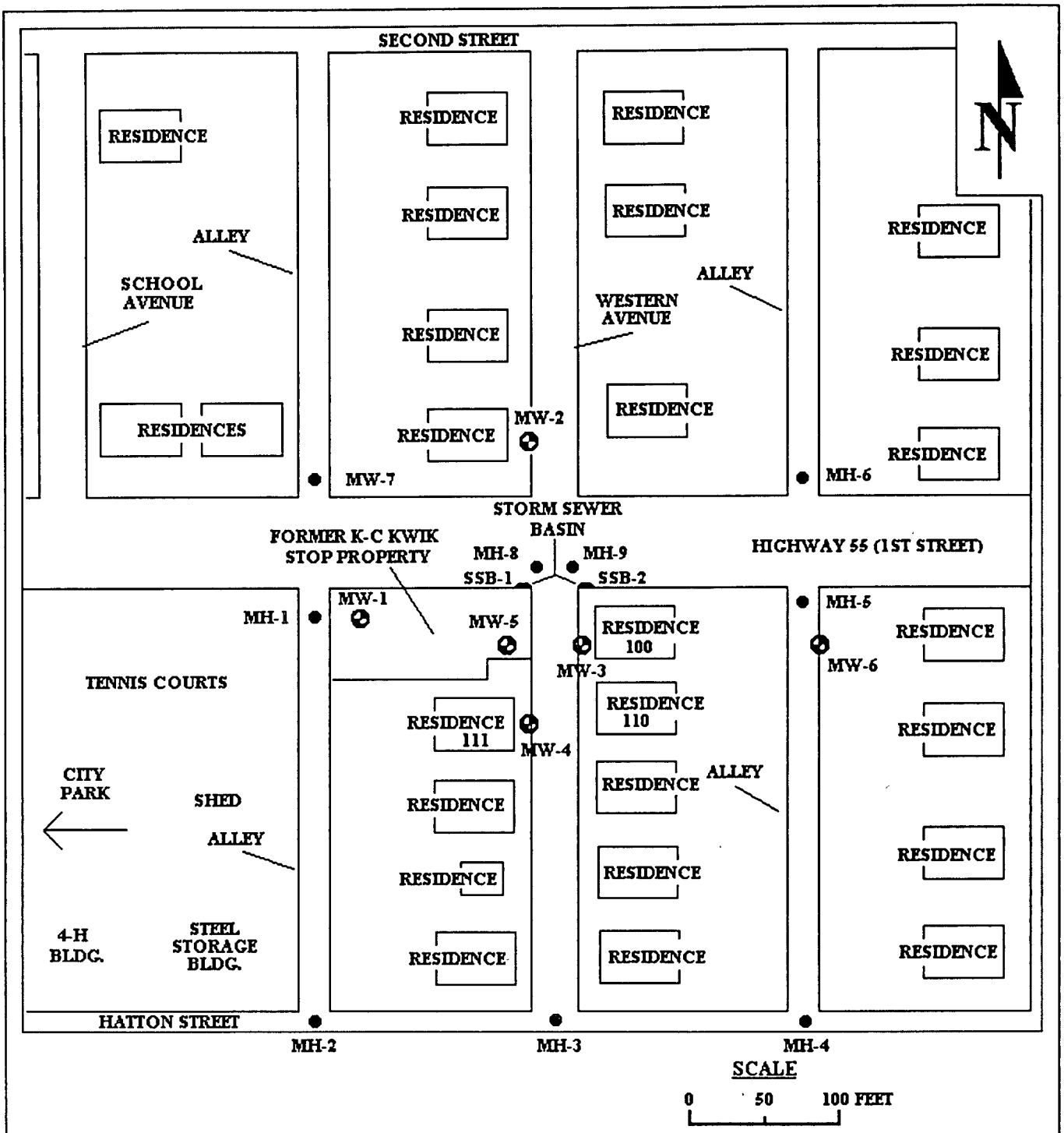
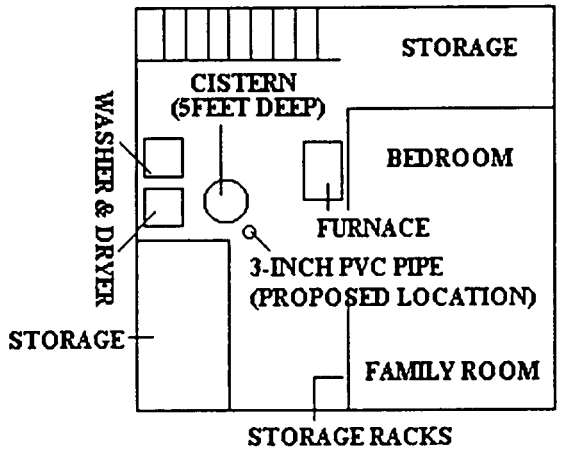


FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

SITE MAP

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE SW ALEXANDRIA, MN 56308 (320) 846-4668
DRAWN BY:		DATE: MAY 06 / FIGURE: 1



SCALE

0 5 10 FEET

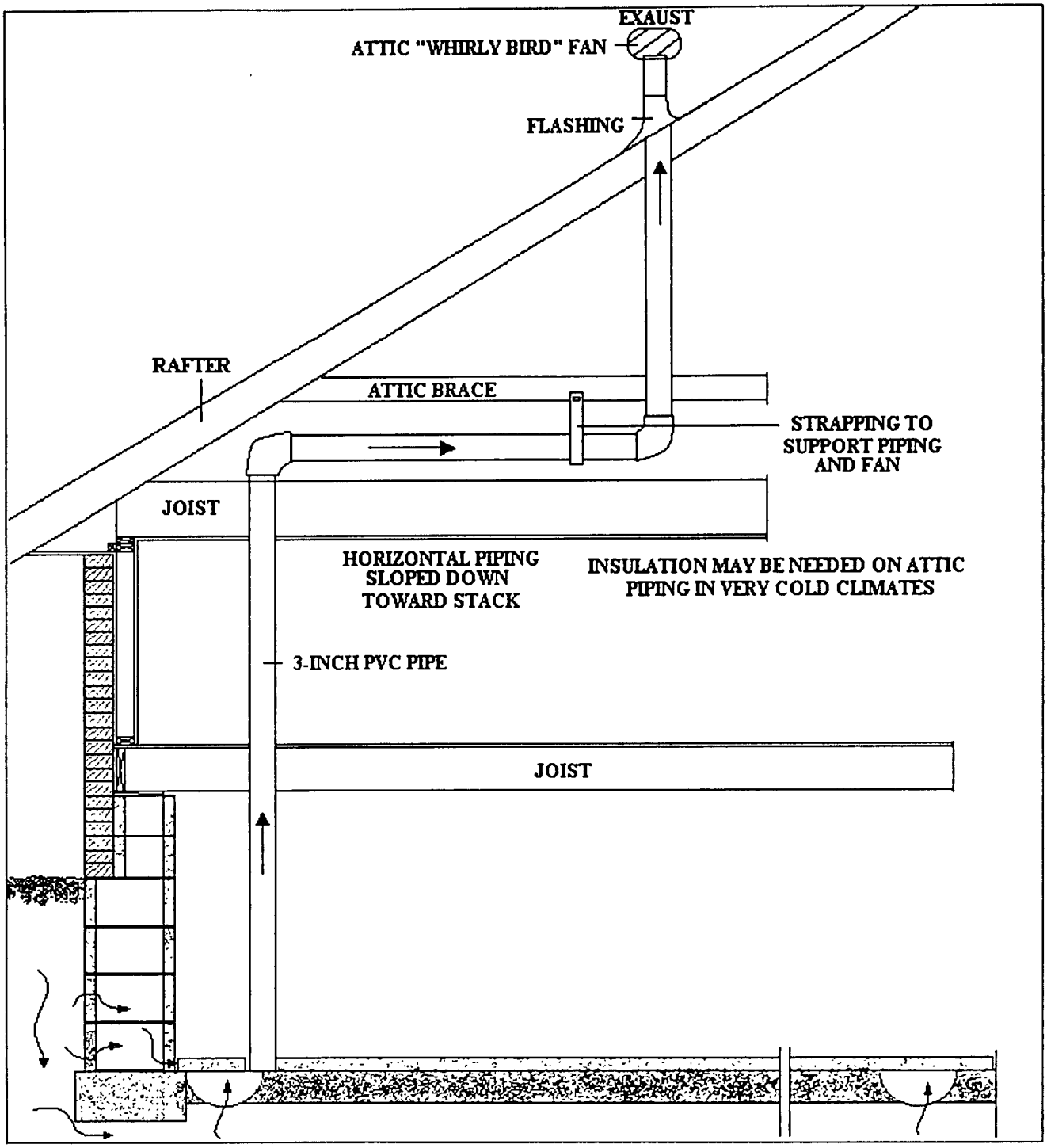
FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

BASEMENT - 110 WESTERN AVENUE
BROOTEN, MINNESOTA

DATE	REVISED

COTEAU ENVIRONMENTAL
728 JANES CIRCLE DRIVE
ALEXANDRIA, MN 56308
(320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 2



FROM: EPA, 1993

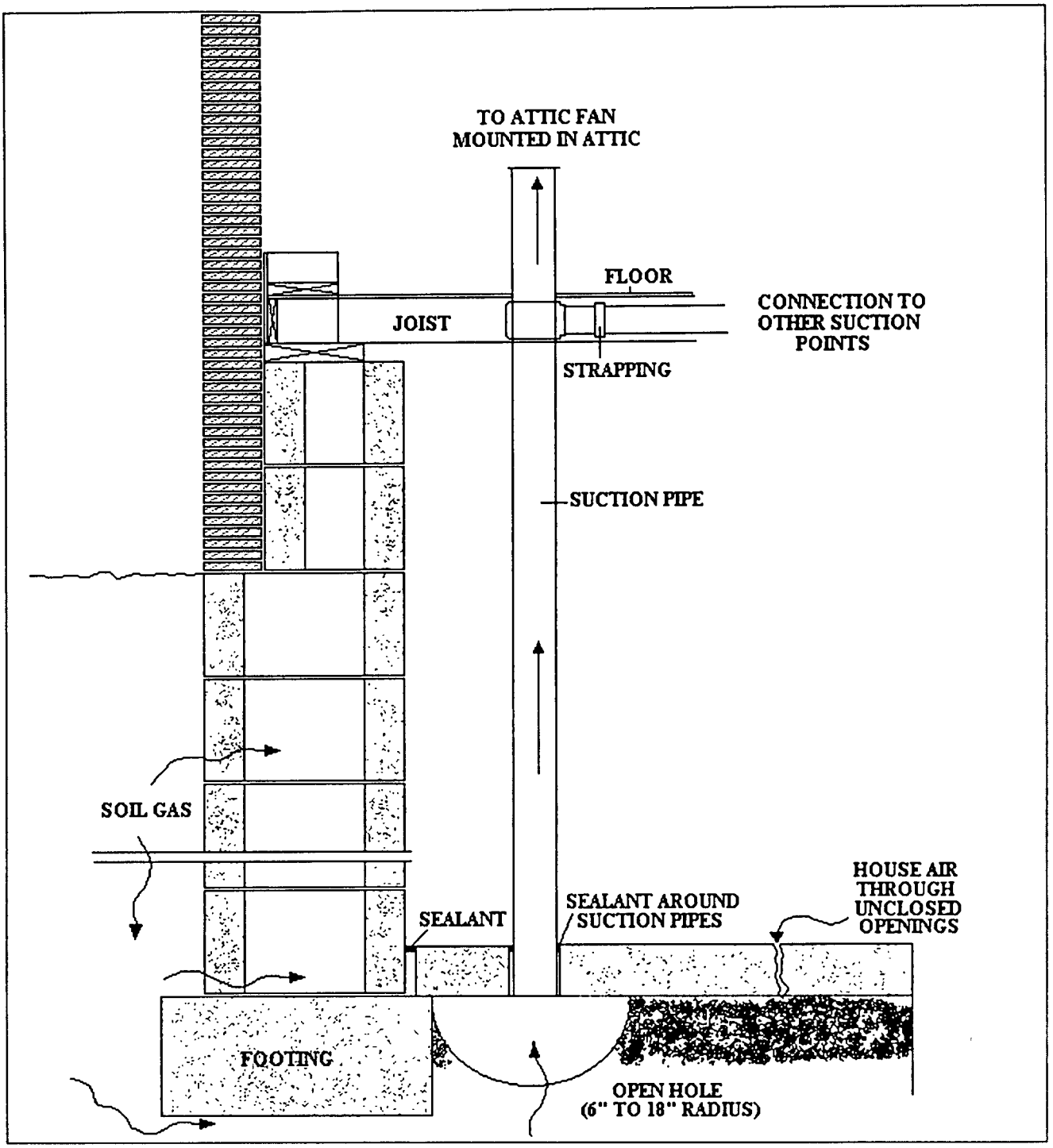
NOT TO SCALE

FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

PROPOSED SSD SYSTEM CONFIGURATION
110 SOUTH WESTERN AVE.
BROOTEN, MINNESOTA

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE ALEXANDRIA, MN 56308 (320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 3



FROM: EPA, 1993

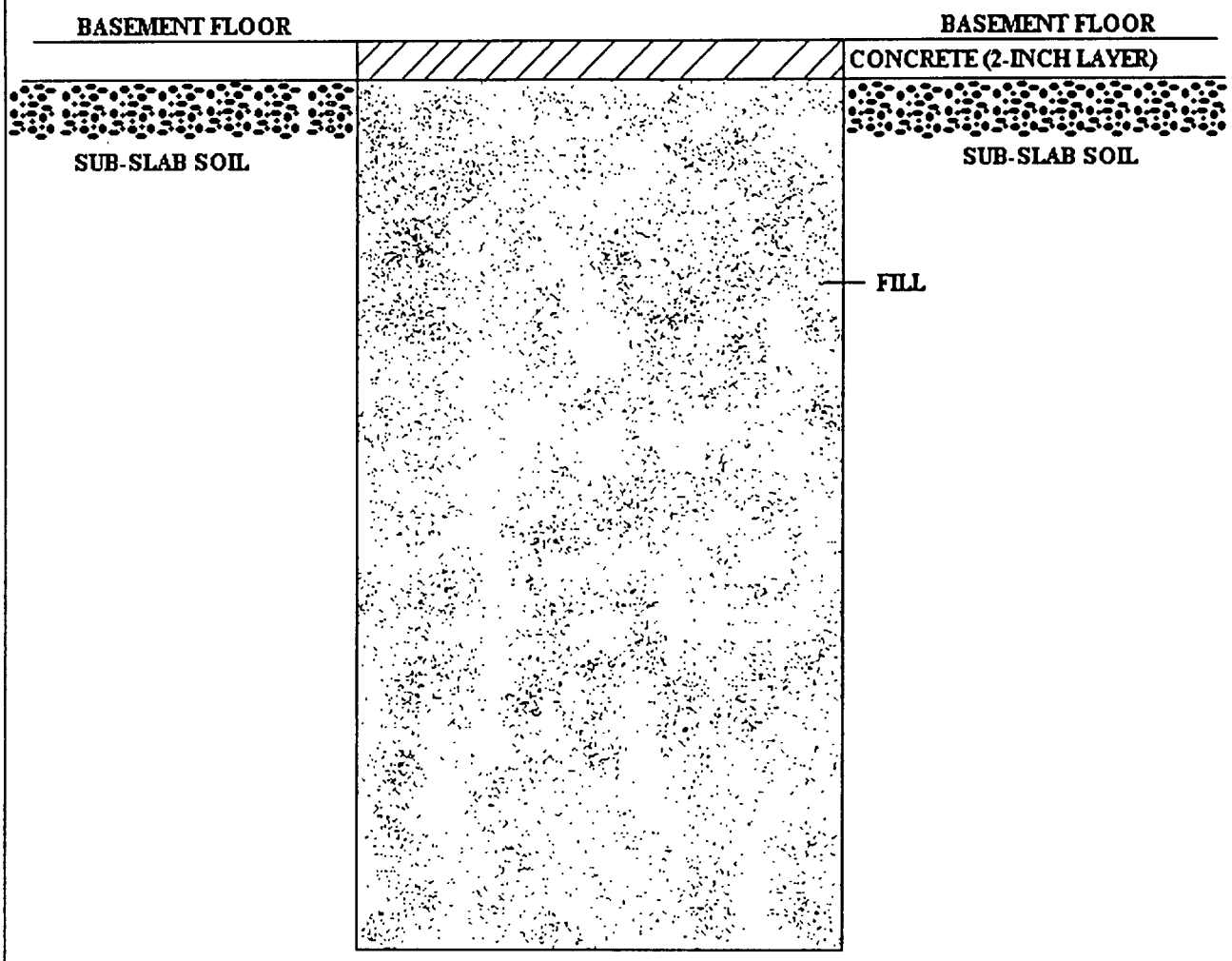
NOT TO SCALE

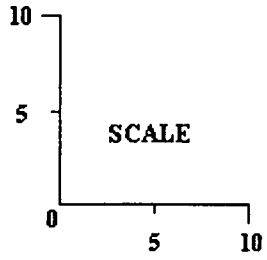
FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

PROPOSED SSD SYSTEM INDOOR INSTALLATION
110 SOUTH WESTERN AVENUE
BROOTEN, MINNESOTA

DATE	REVISED	COTEAU ENVIRONMENTAL 728 JANES CIRCLE DRIVE ALEXANDRIA, MN 56308 (320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 4





FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

PROPOSED CISTERN SEALING
110 SOUTH WESTERN AVE.
BROOTEN, MINNESOTA

DATE	REVISED

COTEAU ENVIRONMENTAL
728 JANES CIRCLE DRIVE
ALEXANDRIA, MN 56308
(320) 846-4668

DRAWN BY:	DATE: MAY 06	FIGURE: 5

COTEAU ENVIRONMENTAL

312 9th Ave. SE, Suite C • Watertown, SD 57201 • Bus (605) 886-4009 • Fax (605) 882-4152
728 Janes Circle Dr. SW • Alexandria, MN 56308 • Bus/Fax (320) 846-4668

September 18, 2006

Mr. Brian Borgerding
North American State Bank
P.O. Box 189
Belgrade, MN 56312

RE: Applicant Status Update - Vapor Monitoring
Former KC Kwik Stop
230 1st Street
Brooten, Minnesota
MPCA Leak No. 14698

Dear Mr. Borgerding:

Coteau Environmental (Coteau) has prepared this letter report regarding the vapor monitoring completed at the above-referenced site. On August 22, 2006, Coteau personnel collected an indoor air sample from the basement of 110 South Western Avenue. The air sample was collected over a 24-hour period, utilizing a Summa canister. The indoor air sample was sent to Pace Analytical Services in St. Paul, Minnesota, accompanied by a chain-of-custody form. The sample was laboratory analyzed for volatile organic compounds (VOC's) utilizing EPA method TO-15. Benzene, toluene, ethyl benzene and total xylenes impacts were detected in the air sample collected from the basement of 110 South Western Avenue at concentrations of 3.7, 28.2, 6.9 and 36.1 micrograms per cubic meter (ug/m^3), respectively. Acetone, 2-butanone, chloromethane, 4-ethyltoluene, dichlorodifluoromethane and n-hexane were also identified in the air sample at concentrations of 153, 11.4, 1.1, 3.0, 8.9 and 5.4 ug/m^3, respectively. In addition, methylene chloride, 4-methyl-2-pentanone, naphthalene, styrene and trichloroflouromethane were identified in the air sample at concentrations of 25.6, 2.4, 16.4, 2.8 and 1.8 ug/m^3, respectively. The benzene and methylene chloride concentrations are above the Minnesota Department of Health Chronic Health Risk Values of 1.3-4.5 and 20 ug/m^3, respectively. In addition, the 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene concentrations are above the Environmental Protection Agency (EPA) Reference Concentrations of 6 ug/m^3 for each compounds. Laboratory analytical results for the previously

If you have any questions regarding this letter report, please call me at (320) 846-4668. Coteau appreciates the opportunity to provide professional environmental consulting services to North American State Bank.

Sincerely,

COTEAU ENVIRONMENTAL

Nathan T. Hunke, P.G., M.S.
Senior Hydrogeologist

Table 1
Soil Vapor Intrusion Laboratory Analytical Results

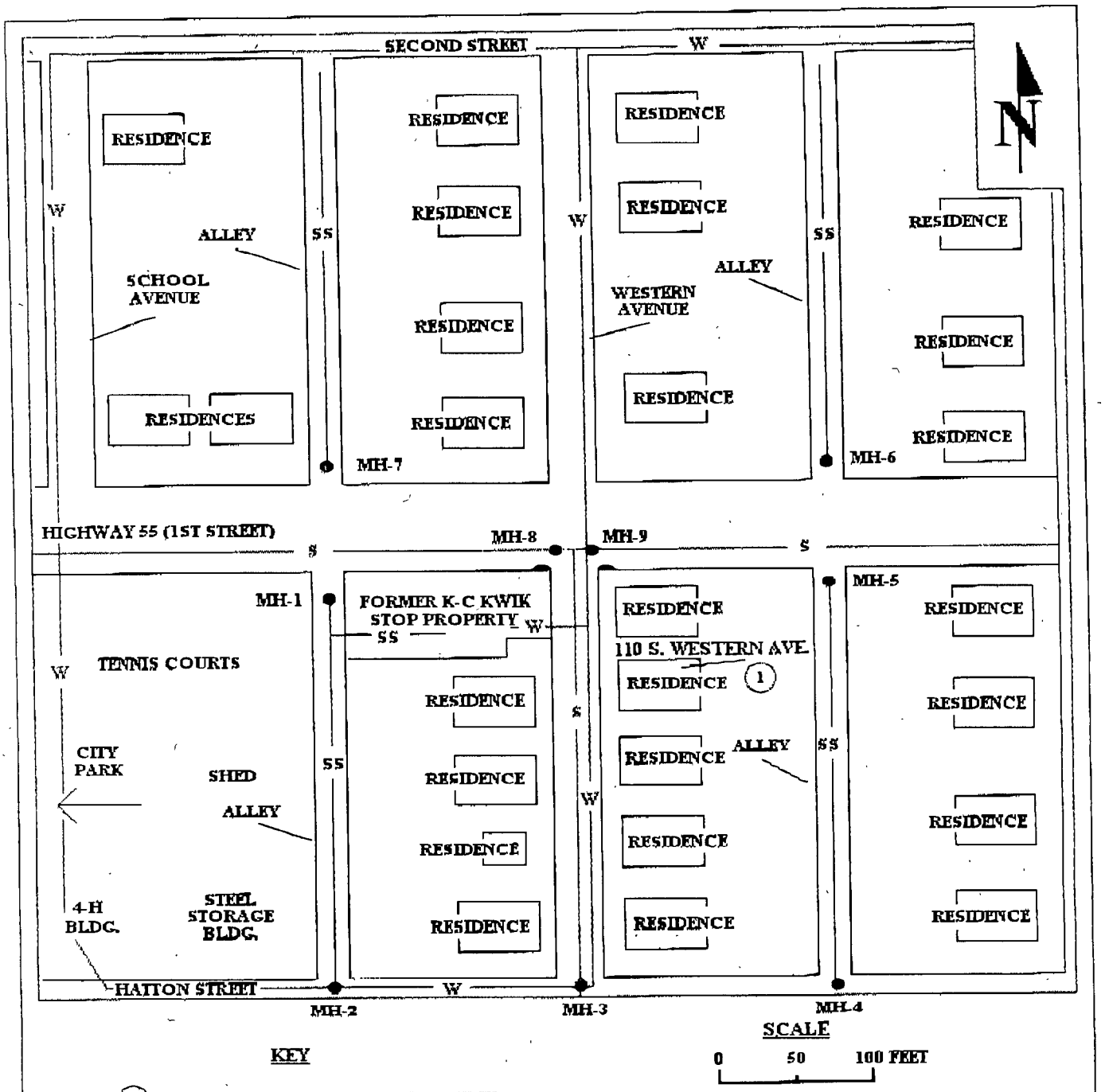
Boring Number	Date Sampled	Methylene Chloride	Benzene	Toluene	1,2,4-Tri methyl benzene	1,3,5-Tri methyl benzene	1,2 DCA	4-Ethyl toluene	Ethyl benzene	Total Xylenes	Acetone	Chloro-methane	Carbon disulfide	THC as Gas	2-Butanone	n-Heptane	n-Hexane	Tri chloro ethene
SV-1 (Sub Slab)	11/9/05	10.6	[redacted]	233	[redacted]	4.3	ND	13.5	16.3	57.8	36	ND	10.4	3,100	7.2	4.17	21.1	4.7
Indoor Air -110 Western Ave.	12/17/05	ND	ND	15.7	ND	ND	ND	ND	ND	11	38.6	ND	ND	477	4.5	ND	ND	ND
Indoor Air - 110 Western Ave.	3/14/06	ND	ND	16.8	ND	ND	ND	ND	133	509.1	33.0	ND	ND	ND	ND	ND	ND	21.6
Indoor Air – 110 Western Ave.	8/22/06	[redacted]	[redacted]	28.2	[redacted]	[redacted]	ND	8.9	6.9	36.1	153	1.1	ND	NA	11.4	ND	5.4	ND
MDH Acute HRV (ug/m^3)		25.8 10,000	3.7 1,000	37,000	22.4 None	6.1 None	None	None	10,000	43,000	None	None	6,000	None	None	None	None	None
MDH Chronic HRV (ug/m^3)		20	1.3-4.5	400	None	None	None	None	None	None	None	None	700	None	None	None	2,000	None
EPA Reference Conc (ng/m^3)		None	None	None	6	6	None	None	1,000	700	350	90	None	None	None	None	None	None
MDH ISC (ug/m^3)		None	None	None	None	None	0.38	None	None	None	None	None	None	None	None	None	None	None

Results are reported in micrograms per cubic meter soil vapor (ug/m^3).
SV-1 sample was taken beneath the basement concrete floor of 110 South Western Avenue.
Ambient air sample was taken in the basement of 110 South Western Avenue.
Notes: NA = Not analyzed for parameter. *ND = Not detected at or above reporting limit.*
MDH = Minnesota Department of Health *HRV = Health Risk Value*
EPA = Environmental Protection Agency *ISC = MDH Interim Screening Concentration*
Shaded values are above the MDH Acute HRV, the MDH Chronic HRV, the EPA Reference Concentration or the MDH ISC.

Table 1 (Continued)
Soil Vapor Intrusion Laboratory Analytical Results

Boring Number	Date Sampled	Dichlorodiflouro methane	4-Methyl-2-pentanone	Naphthalene	Styrene	Trichloroflouro methane
SV-1 (Sub Slab)	11/9/05	ND	ND	NA	ND	ND
Indoor Air -110 Western Ave	12/17/05	ND	ND	NA	ND	ND
Indoor Air - 110 Western Ave	3/14/06	ND	ND	ND	ND	ND
Indoor Air - 110 Western Ave	8/22/06	3.0	2.4	16.4	2.8	1.8
MDH Acute HRV (ug/m^3)		None	None	None	21,000	None
MDH Chronic HRV (ug/m^3)		None	None	None	1,000	None
EPA Reference Conc (ug/m^3)		200	None	None	None	700
MDH ISC (ug/m^3)		None	None	None	None	None

Results are reported in micrograms per cubic meter soil vapor (ug/m^3).
SV-1 sample was taken beneath the basement concrete floor of 110 South Western Avenue.
Ambient air sample was taken in the basement of 110 South Western Avenue.
Notes: NA = Not analyzed for parameter. ND = Not detected at or above reporting limit.
MDH = Minnesota Department of Health HRV = Health Risk Value
EPA = Environmental Protection Agency ISC = MDH Interim Screening Concentration
Shaded values are above the MDH Acute HRV, the MDH Chronic HRV, the EPA Reference Concentration or the MDH ISC.



FORMER K-C KWIK STOP
BROOTEN, MINNESOTA

VAPOR SURVEY MAP

DATE	REVISED

COTEAU ENVIRONMENTAL
728 JANES CIRCLE DR. SW
ALEXANDRIA, MN 56308
(320) 846-4668

DRAWN BY:	DATE: SEPT 06	FIGURE: 1

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

September 08, 2006

Scott Hunke
Coteau Environmental
728 Janes Circle Drive SW
Alexandria, MN 56308

RE: Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Dear Scott Hunke:
Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Seth Jacobson

seth.jacobson@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical
www.paceiabs.com

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

PROJECT NARRATIVE

Project KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Method: TO-15
Description: TO15 MSV AIR
Client: Coteau Environmental
Date: September 08, 2006

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (Including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below

QC Batch: AIR/4531

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 256792)
  - Hexachloro-1,3-butadiene
  - Tetrahydrofuran

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: AIR/4531

D6, The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 255793)
  - 1,1,2,2-Tetrachloroethane

Additional Comments:

Workorder Comments:

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

PROJECT NARRATIVE

Project: KC KWIK STOP BROOMFN, MN
Pace Project No.: 1037376

Method: TO-15
Description: TO15 MSV AIR
Client: Coteau Environmental
Date: September 08, 2006

Workorder Comments:

All sample analyses were completed on a DB5 column. 500 cc of sample was concentrated using an Entech 7000/7100 sample concentration system.

Analyte Comments:

QC Batch: AIR/4531

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- 110 S WESTERN AVE (Lab ID: 1037376001)
  - Acetone

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DUP (Lab ID: 255793)
  - Acetone

This data package has been reviewed for quality and completeness and is approved for release.

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SAMPLE SUMMARY

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1037376001	110 S WESTERN AVE	Air	08/22/06 09:40	08/24/06 17:05

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SAMPLE ANALYTE COUNT

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Lab ID	Sample ID	Method	Analytes Reported
1037376001	110 S WESTERN AVE	TO-15	58

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ANALYTICAL RESULTS

Project KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Sample: 110 S WESTERN AVE **Lab ID: 1037376001** Collected: 08/22/06 09:40 Received: 08/24/06 17:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**153**	ug/m3	0.69	1.43		09/01/06 21:10	67-64-1	E
Benzene	**3.7**	ug/m3	0.93	1.43		09/01/06 21:10	71-43-2	
Bromodichloromethane	ND	ug/m3	2.0	1.43		09/01/06 21:10	75-27-4	
Bromoform	ND	ug/m3	3.0	1.43		09/01/06 21:10	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.43		09/01/06 21:10	74-83-9	
1,3-Butadiene	ND	ug/m3	0.64	1.43		09/01/06 21:10	106-99-0	
2-Butanone (MEK)	**11.4**	ug/m3	0.86	1.43		09/01/06 21:10	78-93-3	
Carbon disulfide	ND	ug/m3	0.90	1.43		09/01/06 21:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.9	1.43		09/01/06 21:10	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.43		09/01/06 21:10	108-90-7	
Chloroethane	ND	ug/m3	0.77	1.43		09/01/06 21:10	75-00-3	
Chloroform	ND	ug/m3	1.4	1.43		09/01/06 21:10	67-66-3	
Chloromethane	**1.1**	ug/m3	0.60	1.43		09/01/06 21:10	74-87-3	
Cyclohexane	ND	ug/m3	0.97	1.43		09/01/06 21:10	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.43		09/01/06 21:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.3	1.43		09/01/06 21:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	1.43		09/01/06 21:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	1.43		09/01/06 21:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	1.43		09/01/06 21:10	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.4	1.43		09/01/06 21:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.43		09/01/06 21:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.2	1.43		09/01/06 21:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.43		09/01/06 21:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		09/01/06 21:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.43		09/01/06 21:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.43		09/01/06 21:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		09/01/06 21:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.43		09/01/06 21:10	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.0	1.43		09/01/06 21:10	76-14-2	
Ethyl acetate	ND	ug/m3	1.0	1.43		09/01/06 21:10	141-78-6	
Ethylbenzene	**6.9**	ug/m3	1.3	1.43		09/01/06 21:10	100-41-4	
4-Ethyltoluene	**8.9**	ug/m3	3.6	1.43		09/01/06 21:10	622-96-8	
n-Heptane	ND	ug/m3	1.2	1.43		09/01/06 21:10	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.1	1.43		09/01/06 21:10	87-68-3	
n-Hexane	**5.4**	ug/m3	1.0	1.43		09/01/06 21:10	110-54-3	
2-Hexanone	ND	ug/m3	1.2	1.43		09/01/06 21:10	591-78-6	
Methylene Chloride	**26.6**	ug/m3	1.0	1.43		09/01/06 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.4**	ug/m3	1.2	1.43		09/01/06 21:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.0	1.43		09/01/06 21:10	1634-04-4	
Naphthalene	**16.4**	ug/m3	3.9	1.43		09/01/06 21:10	91-20-3	
Propylene	ND	ug/m3	0.50	1.43		09/01/06 21:10	115-07-1	
Styrene	**2.8**	ug/m3	1.2	1.43		09/01/06 21:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.0	1.43		09/01/06 21:10	79-34-5	
Tetrachloroethene	ND	ug/m3	2.0	1.43		09/01/06 21:10	127-18-4	
Tetrahydrofuran	ND	ug/m3	0.86	1.43		09/01/06 21:10	109-99-9	
Toluene	**28.2**	ug/m3	1.1	1.43		09/01/06 21:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.4	1.43		09/01/06 21:10	120-82-1	

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ANALYTICAL RESULTS

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Sample: 110 S WESTERN AVE **Lab ID: 1037376001** Collected: 08/22/06 09:40 Received: 08/24/06 17:05 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,1,1-Trichloroethane	ND	ug/m3	1.6	1.43		09/01/06 21:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.6	1.43		09/01/06 21:10	79-00-5	
Trichloroethene	ND	ug/m3	1.6	1.43		09/01/06 21:10	79-01-6	
Trichlorofluoromethane	**1.8**	ug/m3	1.6	1.43		09/01/06 21:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.3	1.43		09/01/06 21:10	76-13-1	
1,2,4-Trimethylbenzene	**22.4**	ug/m3	3.6	1.43		09/01/06 21:10	95-63-6	
1,3,5-Trimethylbenzene	**6.1**	ug/m3	3.6	1.43		09/01/06 21:10	108-67-8	
Vinyl acetate	ND	ug/m3	1.0	1.43		09/01/06 21:10	108-05-4	
Vinyl chloride	ND	ug/m3	0.74	1.43		09/01/06 21:10	75-01-4	
m&p-Xylene	**25.9**	ug/m3	2.5	1.43		09/01/06 21:10	1330-20-7	
o-Xylene	**10.2**	ug/m3	1.3	1.43		09/01/06 21:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

QC Batch: AIR/4531
QC Batch Method: TO-15
Associated Lab Samples: 1037376001

Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level

METHOD BLANK: 255791
Associated Lab Samples: 1037376001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1-Dichloroethane	ug/m3	ND	0.82	
1,1-Dichloroethene	ug/m3	ND	0.81	
1,1,1-Trichloroethane	ug/m3	ND	1.1	
1,1,2-Trichloroethane	ug/m3	ND	1.1	
1,1,2,2-Tetrachloroethane	ug/m3	ND	1.4	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	
1,2-Dichlorobenzene	ug/m3	ND	1.2	
1,2-Dichloroethane	ug/m3	ND	0.82	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	
1,2-Dichloropropane	ug/m3	ND	0.94	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	
1,3-Butadiene	ug/m3	ND	0.45	
1,3-Dichlorobenzene	ug/m3	ND	1.2	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	
1,4-Dichlorobenzene	ug/m3	ND	1.2	
2-Butanone (MEK)	ug/m3	ND	0.60	
2-Hexanone	ug/m3	ND	0.83	
4-Ethyltoluene	ug/m3	ND	2.5	
Carbon disulfide	ug/m3	ND	0.63	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	
Acetone	ug/m3	ND	0.48	
Benzene	ug/m3	ND	0.66	
Bromodichloromethane	ug/m3	ND	1.4	
Bromomethane	ug/m3	ND	0.79	
Bromoform	ug/m3	ND	2.1	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	
Carbon tetrachloride	ug/m3	ND	1.3	
Cyclohexane	ug/m3	ND	0.68	
Chlorobenzene	ug/m3	ND	0.94	
Chloroethane	ug/m3	ND	0.54	
Chloroform	ug/m3	ND	0.99	
Chloromethane	ug/m3	ND	0.42	
Dibromochloromethane	ug/m3	ND	1.7	
Dichlorodifluoromethane	ug/m3	ND	1.0	
Ethyl acetate	ug/m3	ND	0.73	
Ethylbenzene	ug/m3	ND	0.88	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	
Methylene Chloride	ug/m3	ND	0.71	
Methyl-tert-butyl ether	ug/m3	ND	0.73	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	
m&p-Xylene	ug/m3	ND	1.8	
Naphthalene	ug/m3	ND	2.7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037378

METHOD BLANK: 255791

Associated Lab Samples: 1037378001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
n-Heptane	ug/m3	ND	0.83	
n-Hexane	ug/m3	ND	0.72	
o-Xylene	ug/m3	ND	0.88	
Propylene	ug/m3	ND	0.35	
Styrene	ug/m3	ND	0.87	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	
Tetrachloroethene	ug/m3	ND	1.4	
Tetrahydrofuran	ug/m3	ND	0.60	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	
Toluene	ug/m3	ND	0.77	
Trichloroethene	ug/m3	ND	1.1	
Trichlorofluoromethane	ug/m3	ND	1.1	
Vinyl acetate	ug/m3	ND	0.71	
Vinyl chloride	ug/m3	ND	0.52	

LABORATORY CONTROL SAMPLE: 255792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/m3	43.6	51.2	117	59-136	
1,1-Dichloroethene	ug/m3	41.9	45.3	108	60-137	
1,1,1-Trichloroethane	ug/m3	58.3	51.0	88	60-134	
1,1,2-Trichloroethane	ug/m3	59.4	60.6	102	64-129	
1,1,2,2-Tetrachloroethane	ug/m3	74	80.0	108	55-141	
1,2,4-Trichlorobenzene	ug/m3	80.6	106	132	50-150	
1,2-Dichlorobenzene	ug/m3	64.8	58.0	89	60-139	
1,2-Dichloroethane	ug/m3	43.6	39.3	90	56-141	
1,2-Dibromoethane (EDB)	ug/m3	82.8	86.4	104	61-136	
1,2-Dichloropropane	ug/m3	49.4	44.2	90	57-131	
1,2,4-Trimethylbenzene	ug/m3	53	38.2	72	63-137	
1,3-Butadiene	ug/m3	24.3	22.8	94	53-140	
1,3-Dichlorobenzene	ug/m3	67.3	57.8	86	59-136	
1,3,5-Trimethylbenzene	ug/m3	52.5	38.9	74	61-134	
1,4-Dichlorobenzene	ug/m3	64.2	56.7	88	59-130	
2-Butanone (MEK)	ug/m3	32.4	25.1	78	54-133	
2-Hexanone	ug/m3	45.8	41.6	91	54-139	
4-Ethyltoluene	ug/m3	55	53.3	97	61-138	
Carbon disulfide	ug/m3	33.3	29.9	90	50-150	
Dichlorotetrafluoroethane	ug/m3	71.8	82.2	114	59-130	
Acetone	ug/m3	24.4	24.4	100	50-139	
Benzene	ug/m3	34.4	38.5	112	64-125	
Bromodichloromethane	ug/m3	70.9	77.2	109	61-131	
Bromomethane	ug/m3	40.3	41.0	102	55-135	
Bromoform	ug/m3	110	139	126	66-138	
cis-1,2-Dichloroethene	ug/m3	42.7	42.8	100	62-135	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

LABORATORY CONTROL SAMPLE: 255792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/m3	48.9	40.5	83	64-133	
Carbon tetrachloride	ug/m3	67.8	62.3	92	58-135	
Cyclohexane	ug/m3	35.7	31.2	87	54-139	
Chlorobenzene	ug/m3	49.6	48.4	97	62-139	
Chloroethane	ug/m3	27.1	27.1	100	56-140	
Chloroform	ug/m3	48.7	49.7	102	50-150	
Chloromethane	ug/m3	21	21.0	100	56-144	
Dibromochloromethane	ug/m3	95.3	103	108	50-150	
Dichlorodifluoromethane	ug/m3	50.6	54.0	106	60-130	
Ethyl acetate	ug/m3	35.9	24.2	67	60-132	
Ethylbenzene	ug/m3	46.4	34.9	75	65-140	
Hexachloro-1,3-butadiene	ug/m3	115	191	166	50-150	L1
Methylene Chloride	ug/m3	37.1	43.5	117	56-138	
Methyl-tert-butyl ether	ug/m3	38.1	28.4	74	50-150	
4-Methyl-2-pentanone (MIBK)	ug/m3	45.8	37.8	82	53-139	
m&p-Xylene	ug/m3	92.7	73.5	79	60-132	
Naphthalene	ug/m3	55.3	59.8	108	70-130	
n-Heptane	ug/m3	43.3	44.1	102	62-135	
n-Hexane	ug/m3	35.8	33.6	94	62-134	
o-Xylene	ug/m3	46.8	38.4	82	64-132	
Propylene	ug/m3	18.4	18.7	102	56-125	
Styrene	ug/m3	45.9	35.2	77	69-134	
trans-1,2-Dichloroethene	ug/m3	39.9	44.5	111	50-150	
trans-1,3-Dichloropropene	ug/m3	50.8	43.2	85	70-142	
Tetrachloroethene	ug/m3	67.6	63.6	94	60-137	
Tetrahydrofuran	ug/m3	31.6	53.8	171	52-139	L1
1,1,2-Trichlorotrifluoroethane	ug/m3	81.8	98.7	121	55-137	
Toluene	ug/m3	41	35.0	85	69-130	
Trichloroethene	ug/m3	56.8	54.5	96	60-134	
Trichlorofluoromethane	ug/m3	57.7	56.3	98	56-141	
Vinyl acetate	ug/m3	38.3	30.1	79	61-142	
Vinyl chloride	ug/m3	26.3	27.2	104	66-132	

SAMPLE DUPLICATE: 255793

Parameter	Units	1037376001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ug/m3	ND	ND	0	25	
1,1-Dichloroethene	ug/m3	ND	ND	0	25	
1,1,1-Trichloroethane	ug/m3	ND	ND	0	25	
1,1,2-Trichloroethane	ug/m3	ND	ND	0	26	
1,1,2,2-Tetrachloroethane	ug/m3	ND	2.4	200	25	D6
1,2,4-Trichlorobenzene	ug/m3	ND	ND	0	25	
1,2-Dichlorobenzene	ug/m3	ND	ND	0	25	
1,2-Dichloroethane	ug/m3	ND	ND	0	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND	0	25	
1,2-Dichloropropane	ug/m3	ND	ND	0	25	
1,2,4-Trimethylbenzene	ug/m3	22.4	22.3	.6	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

SAMPLE DUPLICATE: 255793

Parameter	Units	1037376001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,3-Butadiene	ug/m3	ND	ND	0	25	
1,3-Dichlorobenzene	ug/m3	ND	ND	0	25	
1,3,5-Trimethylbenzene	ug/m3	6.1	6.1	.2	25	
1,4-Dichlorobenzene	ug/m3	ND	ND	0	25	
2-Butanone (MEK)	ug/m3	11.4	11.0	4	25	
2-Hexanone	ug/m3	ND	ND	0	25	
4-Ethyltoluene	ug/m3	8.9	9.0	2	25	
Carbon disulfide	ug/m3	ND	ND	0	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND	0	25	
Acetone	ug/m3	153	143	6	25	E
Benzene	ug/m3	3.7	3.8	1	25	
Bromodichloromethane	ug/m3	ND	ND	0	25	
Bromomethane	ug/m3	ND	ND	0	25	
Bromoform	ug/m3	ND	ND	0	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND	0	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND	0	25	
Carbon tetrachloride	ug/m3	ND	ND	0	25	
Cyclohexane	ug/m3	ND	ND	0	25	
Chlorobenzene	ug/m3	ND	ND	0	25	
Chloroethane	ug/m3	ND	ND	0	25	
Chloroform	ug/m3	ND	ND	0	25	
Chloromethane	ug/m3	1.1	1.1	.8	25	
Dibromochloromethane	ug/m3	ND	ND	0	25	
Dichlorodifluoromethane	ug/m3	3.0	3.0	.3	25	
Ethyl acetate	ug/m3	ND	ND	0	25	
Ethylbenzene	ug/m3	6.9	7.0	.7	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND	0	25	
Methylene Chloride	ug/m3	25.6	25.6	.1	25	
Methyl-tert-butyl ether	ug/m3	ND	ND	0	25	
4-Methyl-2-pentanone (MIBK)	ug/m3	2.4	2.4	2	25	
m&p-Xylene	ug/m3	25.9	26.1	.6	25	
Naphthalene	ug/m3	16.4	16.6	1	25	
n-Heptane	ug/m3	ND	ND	0	25	
n-Hexane	ug/m3	5.4	5.3	1	25	
o-Xylene	ug/m3	10.2	10.3	.8	25	
Propylene	ug/m3	ND	ND	0	25	
Styrene	ug/m3	2.8	2.7	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND	0	25	
trans-1,3-Dichloropropene	ug/m3	ND	ND	0	25	
Tetrachloroethene	ug/m3	ND	ND	0	25	
Tetrahydrofuran	ug/m3	ND	ND	0	25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND	0	25	
Toluene	ug/m3	28.2	28.5	1	25	
Trichloroethene	ug/m3	ND	ND	0	25	
Trichlorofluoromethane	ug/m3	1.8	1.7	2	25	
Vinyl acetate	ug/m3	ND	ND	0	25	
Vinyl chloride	ug/m3	ND	ND	0	25	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: (612)607-1700
Fax: (612)607-6444

QUALIFIERS

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.. 1037376

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

ANALYTE QUALIFIERS

D8	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

Pace Analytical®
www.pacelabs.com

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KC KWIK STOP BROOMEN, MN
Pace Project No.: 1037376

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1037376001	110 S WESTERN AVE	TO-15	AIR/4531		

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CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A Required Client Information:

Company: COTEAU ENVIRONMENTAL
Address: 728 JAMES CIRCLE DR
ALEXANDRIA, MN 56308
Email To:
Phone: 320-846-4468 Fax: 605-882-4152
Requested Due Date/TAT:

Section B Required Project Information:

Report To: COTEAU
Copy To: COTEAU
Purchase Order No.:
Project Name: KC KWIK STOP
Project Number: BROOKINGS, SD

Section C Invoice Information:

Attention: SCOTT
Company Name: COTEAU
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ ME ☐ MN ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC's	Standard Selected (Y/N)	Pace Project Number / Lab I.D.
1	110 S WESTERN AVE	AR	G	8/21/06	0935	8/22/06	0940		1										✓	✓	601
2	CASTER # 1204																				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
	8/22/06	1645		8/23/06	1205	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SCOTT HUNKE

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

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