	Roceivão	1/18/91	8	B'inyoti) 10
	Letter of Transmittal	From:	Name Company Address	CORT HOFFART Key Engineering Group W66 N215 Commerce Court
То:	Wisconsin Department of Natural Resources Southeast Region - Headquarters Office P.O. Box 12436 2300 N. Dr. Martin Luther King Jr. Drive Milwaukee, WI 53212 Attn: Remediation and Redevelopment Program		Phone Date	<u>Cedarburg, WI 53012</u> (414) 375-4750 //////58
				DECORAH SHOPOING CENTER ANNER 1011-1025 5. MAIN ST.
1			FID # BRRTS #	WEST BENO, WI 53095 267-161400 02-67-151266

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. Be sure to include the FID and BRRTS numbers which have been assigned to the site, and identify the intent of the document(s) you are submitting in order to speed processing.

_LUST	ERP	Spill	ACT 453 Purchaser Liability^	ACT 453 Municipal^
Other (de	escribe)			

√ СНЕСК	PURPOSE OF DOCUMENT/REPORT:	
	Notification of Release	01
	Tank Closure/Site Assessment where release(s) have been detected *	33
	Site Investigation Workplan	35
	Site Investigation Report	
	groundwater impacts	37
	no groundwater impacts	76
•	Off-Site Determination Request	90
	Remedial Action Plan	39
	Site Specific Clean-Up Goal Proposal	90
	NR 718 Landspreading Request	61
,	Copy of Notification to Treat or Dispose of Contaminated Soil or Water	-993
	Injection/Infiltration Request	63
X	Quarterly Report or Update	:43
	O & M Form 4400-194	92-
	Remedial Action Report	有之意
	Closure Review Request	79*
	Simple Site Closure Report using NR700.11 process	794
	Copy of Draft Deed Affidavit or Restriction required for close-out	51/52
	Well Abandonment Form	99
	PECFA Form 4-B (for completed remediation only)	44
	Other (please	90/994
	describe):	

* "Clean" closures should be sent directly to the DNR Remediation and Redevelopment Program, P.O. Box 7921, Madison, WI 53707 attn: Julie Weber

Remarks:



W66 N215 Commerce Court Cedarburg, Wisconsin 53012 (414) 375-4750 (800) 645-7365 Fax (414) 375-9680

November 16, 1998

Mr. Binyoti Amungwafor Hydrogeologist Wisconsin Department of Natural Resources 2300 North Dr. Martin Luther King, Jr. Drive Post Office Box 12436 Milwaukee, Wisconsin 53212

Reference: Project Status Update Decorah Shopping Center Annex 1011-1025 South Main Street West Bend, Wisconsin 53095 BRRTS #: 02-67-151266 Facility ID #: 267161400 BRR/ERP Land Recycling Act, Site #: P-65

KEY ENGINEERING GROUP, LTD. File No. 0702007

Dear Mr. Amungwafor:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with soil and groundwater sample analytical data collected on Ms. Agnes Vorphal's property, and to identify a strategy to complete the site investigation (SI). Two (2) soil samples and one (1) groundwater sample were collected from a soil probe/temporary well (GP-7) placed on Ms. Vorphal's property on October 23, 1998. The location of the soil probe (GP-7) conducted on the Agnes Vorphal property is depicted on Figure 1. The soil and groundwater sample analytical results are summarized on Figures 2 and 3, respectively. A groundwater elevation contour map is provided as Figure 4.

The soil sample analytical results indicated that tetrachoroethene (PCE) was detected in a soil sample collected near the groundwater table (8 to 10 feet). PCE was not detected in shallow soils (2 to 4 feet) at GP-7. Based on the lack of shallow PCE impacts, the PCE impacts detected near the groundwater table are likely associated with the PCE groundwater plume. Benzene was detected at 8 to 10 feet at a concentration exceeding the Wisconsin Administrative Code (WAC) Chapter NR 720 generic residual contaminant level (GRCL). Key Engineering Group, Ltd. (KEY) is not aware of a potential source of benzene contamination on the shopping center property or on Ms. Vorphal's property. It should be noted that the detected benzene concentration is potentially uncertain because it was detected between the limit of detection (LOD) and limit of quantitation (LOQ).

The groundwater sample analytical results indicated that PCE was detected in a groundwater sample collected from a temporary well installed within GP-7 at a concentration exceeding the NR 140 enforcement standard (ES). The PCE concentration exceeded all the PCE concentrations detected in NR 141 groundwater monitoring wells located on the shopping center property; however, it did not exceed the concentration detected at an on-site former temporary well location (GP-4). Benzene was also detected in groundwater at

Mr. Binyoti Amungwafor November 16, 1998 Page 2

GP-7; however, the concentration did not exceed the NR 140 ES and was again detected between the LOD and LOQ.

There appears to be inconsistencies in groundwater data collected from temporary wells (soil probes) and monitoring wells constructed in accordance with NR 141. The PCE concentration detected in groundwater MW-3, located immediately downgradient from the highest PCE concentrations in soil and groundwater (GP-4), did not exceed the NR 140 ES; however, the PCE concentration detected in groundwater at GP-7, located further downgradient, exceeded the NR 140 ES. The groundwater sample analytical data suggests that the groundwater sample collection process from soil probes/temporary wells has resulted in high bias groundwater concentrations (likely due to the advancement of soil impacts to the water table during probe advancement and/or the collection of groundwater samples containing higher volumes of sediment than those collected from NR 141 monitoring wells).

Despite the apparent high bias PCE concentration detected in groundwater at GP-7, KEY anticipates that the WDNR would likely require additional investigation of groundwater impacts further downgradient of the site. Based on the previous difficulties obtaining access to neighboring residential properties, the apparent inconsistencies in groundwater data collected from temporary monitoring wells (soil probes) and NR 141 monitoring wells, and the infeasibility of drilling NR 141 monitoring wells on the adjacent residential properties, KEY proposes installing one (1) additional NR 141 groundwater monitoring well in the Lincoln Drive West right-of-way (ROW) downgradient from the area of highest detected soil and groundwater contaminant concentrations. The approximate proposed well location is depicted on Figure 1.

Due to the significant distance of the proposed monitoring well from the site and the uncertainty of the WDNR's interpretation of the soil probe/temporary well groundwater data, KEY and Continental Properties would appreciate a WDNR review of the collected data and the proposed strategy to determine if the installation of the proposed monitoring well would be sufficient to complete the SI (if the well is not impacted with PCE).

Please call if you have any questions.

Sincerely,

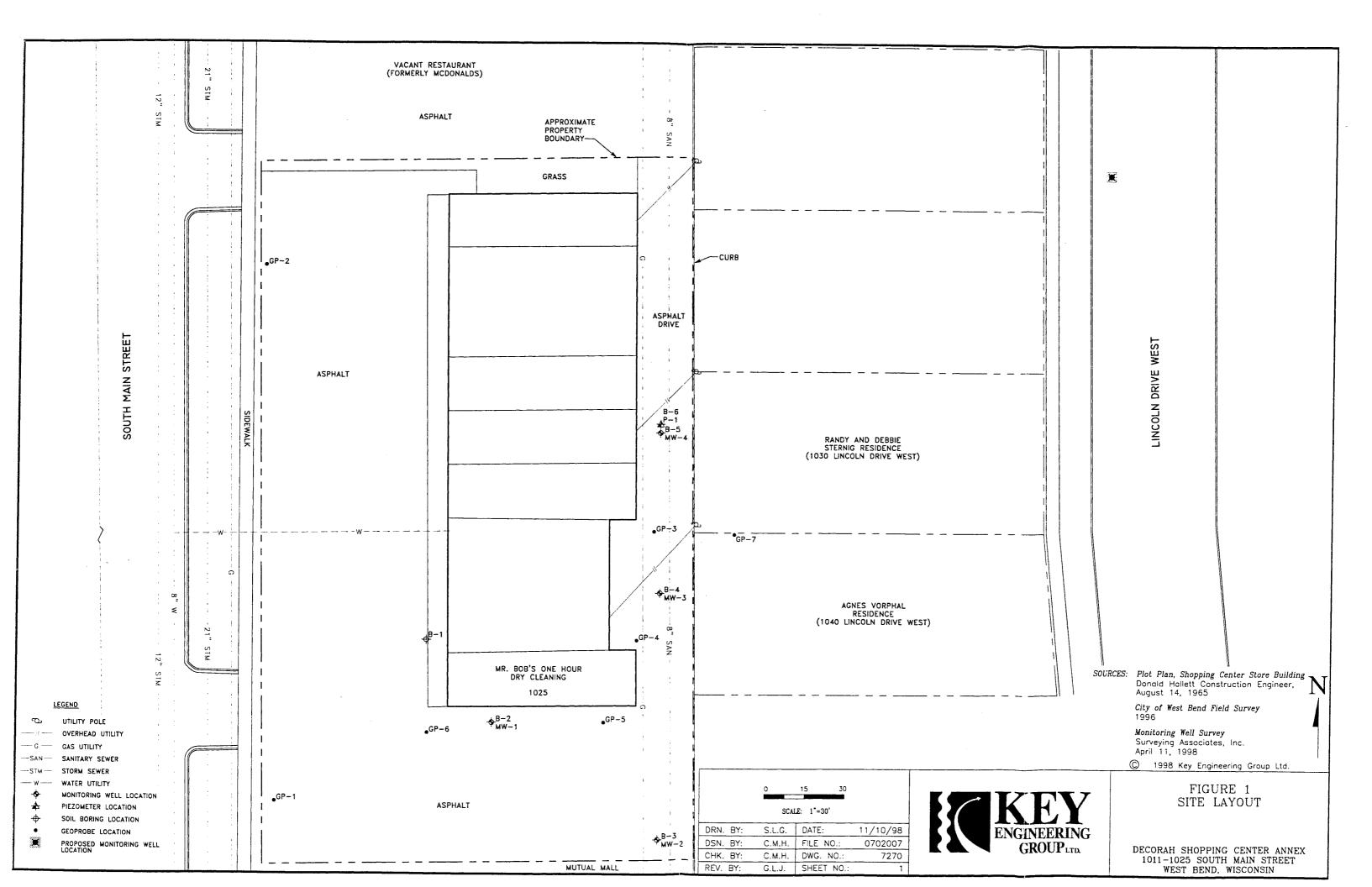
KEY ENGINEERING GROUP, LTD.

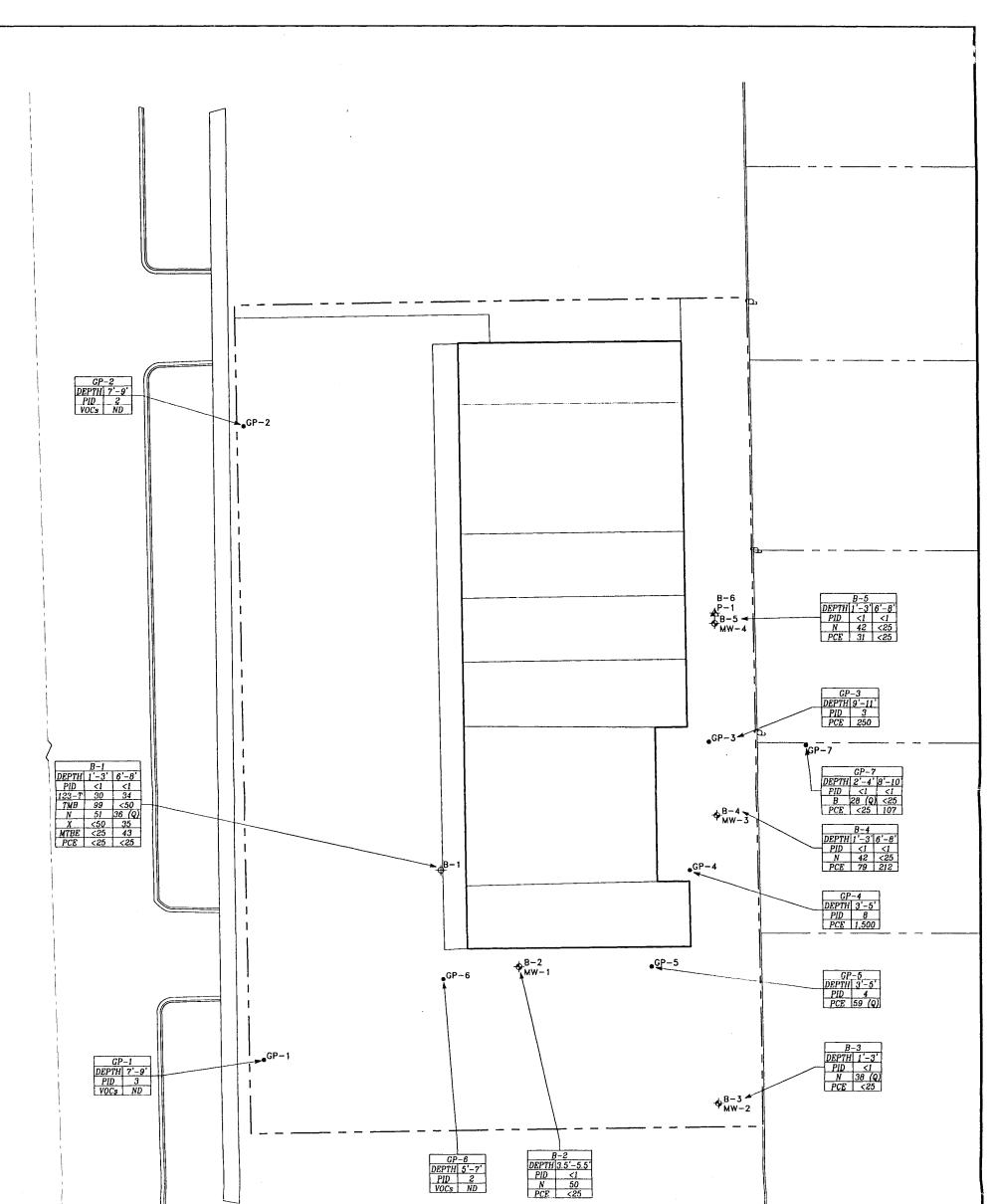
Curtis M. Hoffart, CHMM Staff Scientist

Gregory L. Johnson, CHMM, P.G., P.E. Manager of Technical Services

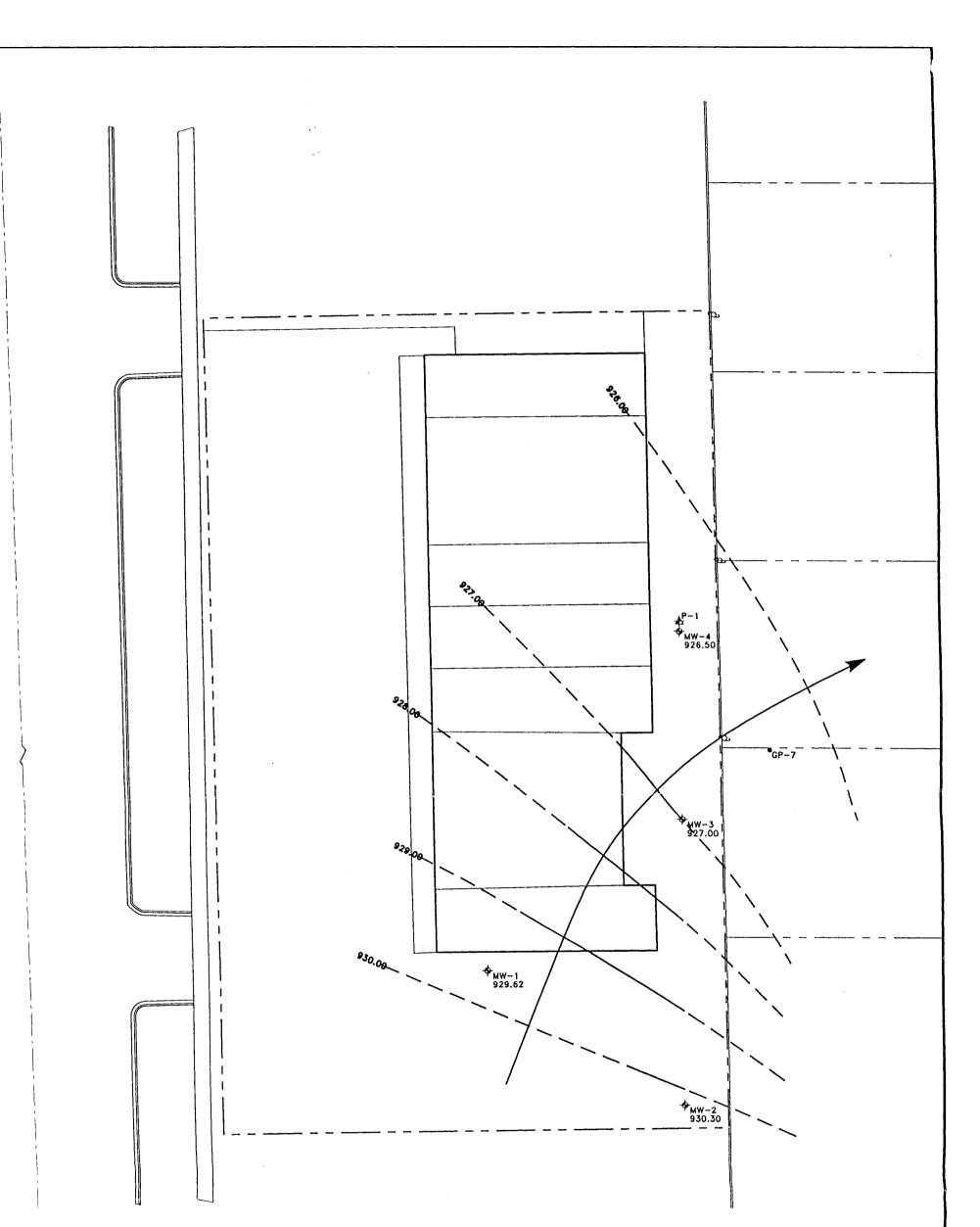
CMH/jml

cc: Mr. Thomas Keenan, Continental Properties Company, Inc. Mr. William Roush, Davis & Kuelthau, S.C. *H:\PROJECTS\1997\0702007\LETTERS\111698.CMH*





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1			
<u>NOTES</u> P.I.D.: PHOTOIONIZATION DETECTOR, I.U.			
I.U.: INSTRUMENT UNITS VOCa: VOLATILE ORGANIC COMPOUNDS, ug/kg			
B: BENZENE, ug/kg 123-T: 1,2,3-TRICHLOROBENZENE, ug/kg			
TMB: TOTAL TRIMETHYLBENZENES, ug/kg N: NAPHTHALENE, ug/kg X: XYLENES, ug/kg		c	OURCES: Plot Plan, Shopping Center Store Building
X: ATLENES, UZ/Kg MTBE: METHYL-TERT-BUTYL-ETHER, Ug/kg PCE: TETRACHOROETHENE, Ug/kg Ug/kg: MICROGRAMS PER KILOGRAM			DURCES: Plot Plan, Shopping Center Store Building Donald Hallett Construction Engineer, August 14, 1965
CET ALL CONTRACTS OF A CONTRACT OF A CONTRACT C LESS THAN ND: NOT DETECTED ABOVE LABORATORY METHOD DETECTION LIMITS			City of West Bend Field Survey 1996
(Q): CONCENTRATION BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION			<i>Monitoring Well Survey</i> Surveying Associotes, Inc. April 11, 1998
LEGEND			© 1998 Key Engineering Group Ltd.
- MONITORING WELL LOCATION			FIGURE 2
 PIEZOMETER LOCATION Soil BORING LOCATION 	0 15		SUMMARY OF SOIL SAMPLE
 SOIL BORING LOCATION GEOPROBE LOCATION 	SCALE: 1"=30'		ANALYTICAL RESULTS
	DRN. BY: S.L.G. DATE:	11/10/98 ENGINEERING	
	DSN. BY: C.M.H. FILE NO	0.: 0702007 GROUPLTD	DECORAH SHOPPING CENTER ANNEX
	CHK. BY: C.M.H. DWG. NO		1011-1025 SOUTH MAIN STREET WEST BEND, WISCONSIN
	REV. BY: G.L.J. SHEET N	NU.: Z	WEST DEND, WISCONSIN



			SOURCES:	Plot Plan, Shopping Center Store Building Donald Hallett Construction Engineer, August 14, 1965
				City of West Bend Field Survey 1996
				Monitoring Well Survey Surveying Associates, Inc. April 11, 1998
	LEGEND			© 1998 Key Engineering Group Ltd.
• • 930.76	MONITORING WELL LOCATION PIEZOMETER LOCATION GEOPROBE LOCATION GROUNDWATER ELEVATION (FEET, MSL) (7/31/98)	0 15 30 SCALE: 1"=30'	KEY	FIGURE 4 GROUNDWATER ELEVATION CONTOUR MAP JULY 31, 1998
	GROUNDWATER FLOW DIRECTION CONTOUR INTERVAL = 1 FOOT	DRN. BY; S.L.G. DATE: 11/16/98 DSN. BY; C.M.H. FILE 0702007 CHK. BY; C.M.H. DWG. 07020077 REV. BY; G.L.J. SHEET NO.: 4	ENGINEERING GROUPLTD.	DECORAH SHOPPING CENTER ANNEX 1011-1025 SOUTH MAIN STREET WEST BEND, WISCONSIN