

*Con 12-15
Wagner Auto
Ames, Iowa*

SHEKAR ENGINEERING, PLC.

PO Box 3625, Des Moines, IA 50322 Phone: 515-334-5062, FAX: 515-334-5052

**CON 12-15
Doc #13895**

October 23, 2000

Daniel Cook
Environmental Specialist
Contaminated Sites, IDNR
Wallace State Office Building
Des Moines, IA 50319

RE: Wagner Auto, 5815 West Lincoln Way, Ames, Iowa.

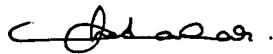
Dear Daniel Cook:

Attached please find the analytical results of groundwater samples collected on October 8, 2000. Groundwater samples were collected from wells, which were indicated, on the IDNR letters dated August 25, 1998 and February 9, 1999.

The on-site water well is still in use for non-drinking water purposes. To unknown reasons, Xenia Rural Water Association has not yet installed water main in the vicinity of the site.

Should you have any questions, please feel free to call me at 515-334-5062.

Sincerely,



Chandra Shekar, P.E.

CC: Mr. Jim Wagner, 925 Airport Road, Ames, IA 50010.

Groundwater Analytical Data

Boring / Well Number	MW-5	MW-5	MW-5	MW-5	MW-5	MW-6	MW-6	MW-6	MW-6	MW-6
Date Sampled	10/2/96	4/3/97	7/23/98	9/21/99	10/8/00	5/10/96	4/3/97	7/23/98	9/21/99	10/8/00
Elevations - Ground Surface										
- Top of Screen										
- Static Groundwater	1.14'	2.08'	2.60'	3.65'	4.57'	0.98'	2.55'	3.26'	3.88'	4.76'
Chlorobenzene (µg/L) <i>150</i>	59.2	121.7	27.6	88.6	39.2	419	485	352	305	402
1,3-Dichlorobenzene (µg/L) <i>600</i>	<1	2.6	<1	1.4	<2	3.1	3.4	2.5	2.7	2.2
1,4-Dichlorobenzene (µg/L) <i>75</i>	8.5	19.7	7.4	10.8	6.8	29.2	28.5	21.4	21.4	17.9
1,2-Dichlorobenzene (µg/L) <i>600</i>	4.5	11.6	4	6.9	3.8	25.8	19.7	13.7	12.6	11.5
Benzene (µg/L) <i>5</i>	<2	<1	<1	NA	NA	8	7.2	2.8	NA	NA
Toluene (µg/L) <i>1000</i>	4	1.1	37.9	NA	NA	63	61.4	11.3	NA	NA
Ethylbenzene (µg/L) <i>700</i>	5	8.1	2.6	NA	NA	78	97.3	43.1	NA	NA
Xylene (µg/L) <i>10000</i>	<2	7.4	1.7	NA	NA	311	379	113	NA	NA

Groundwater Analytical Data

Boring / Well Number	MW-7	MW-7	MW-7	MW-7		MW-8	MW-8	MW-8		
Date Sampled	5/22/97	8/6/98	9/21/99	10/8/00		5/10/96	4/3/97	7/23/98		
Elevations - Ground Surface										
- Top of Screen										
- Static Groundwater	3.90'	5.65'	4.62'	5.73'		0.60'	2.41'	3.0'		
Chlorobenzene (µg/L) <i>100</i>	<1	<1	<1	<2		143	70.9	11.9		
1,3-Dichlorobenzene (µg/L) <i>600</i>	<1	<1	<1	<2		<1	1.4	<1		
1,4-Dichlorobenzene (µg/L) <i>75</i>	<1	<1	<1	<2		80.9	6.8	<1		
1,2-Dichlorobenzene (µg/L) <i>600</i>	<1	<1	<1	<2		8.1	6.9	1.1		
Benzene (µg/L) <i>5</i>	<1	<1	NA	NA		NA	<1	<1		
Toluene (µg/L) <i>1000</i>	<1	<1	NA	NA		NA	<1	<1		
Ethylbenzene (µg/L) <i>700</i>	<1	<1	NA	NA		NA	<1	<1		
Xylene (µg/L) <i>10,000</i>	<1	<1	NA	NA		NA	<1	<1		

Groundwater Analytical Data

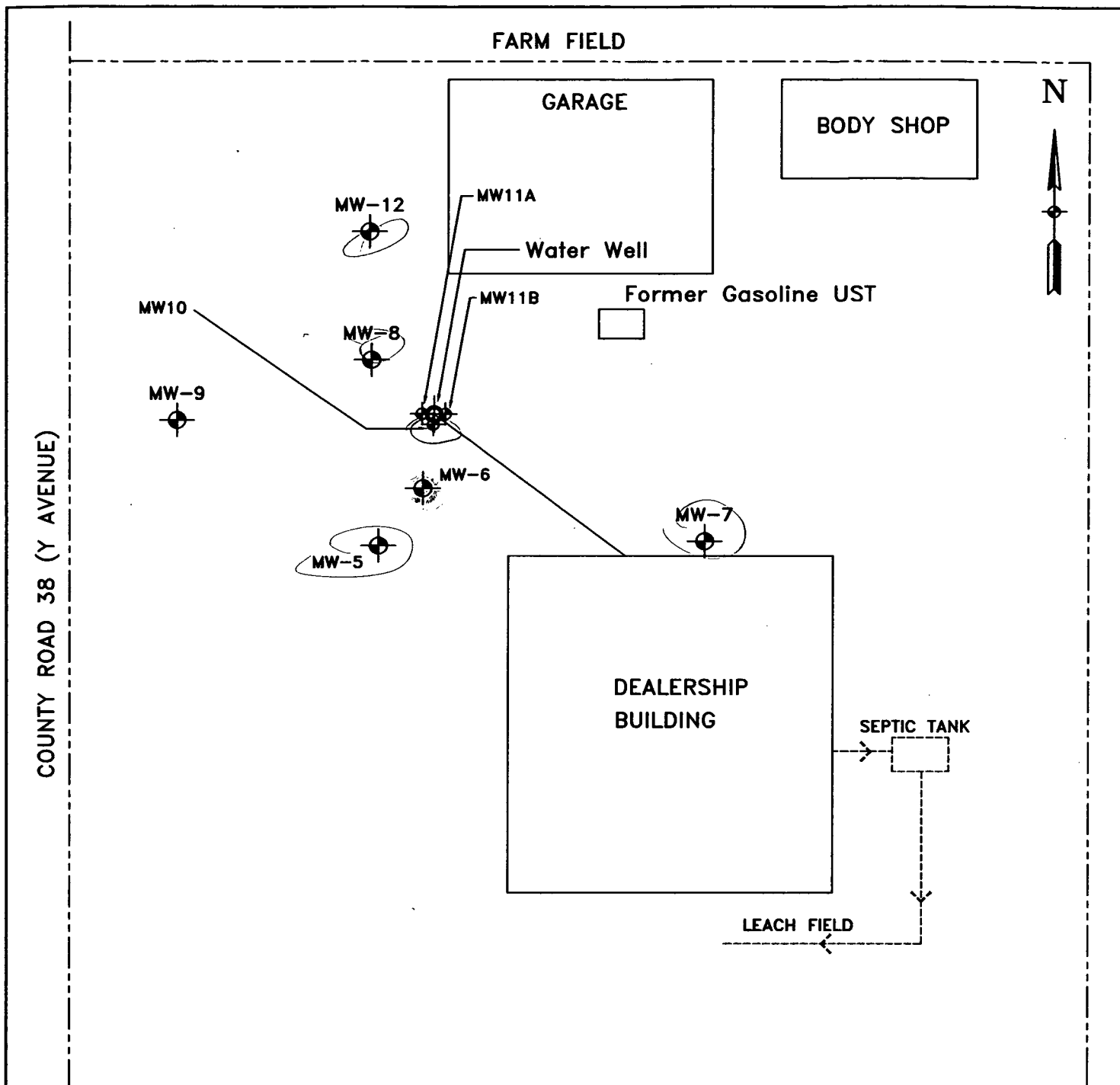
Boring / Well Number	MW-9	MW-9	MW-9	MW-9		MW-10	MW-10	MW-10		
Date Sampled	4/3/97	7/23/98	9/21/99	10/8/00		5/10/96	4/3/97	7/23/98		
Elevations - Ground Surface								Destroyed		
- Top of Screen										
- Static Groundwater	1.80'	2.20'	3.09'	4.01'		0.98'	2.89'	NA		
Chlorobenzene (µg/L) <i>100</i>	113	99.8	101	76		1500	1190	NA		
1,3-Dichlorobenzene (µg/L) <i>600</i>	14.7	2.8	2.3	2.6		12.7	7.9	NA		
1,4-Dichlorobenzene (µg/L) <i>25</i>	22	26.2	26.1	20.7		1400	132	NA		
1,2-Dichlorobenzene (µg/L) <i>600</i>	19.7	21.3	20.1	17.2		52.9	34	NA		
Benzene (µg/L) <i>5</i>	<1	<1	NA	NA		NA	<5	NA		
Toluene (µg/L) <i>1000</i>	<1	<1	NA	NA		NA	<5	NA		
Ethylbenzene (µg/L) <i>200</i>	<1	<1	NA	NA		NA	5.5	NA		
Xylene (µg/L) <i>10000</i>	<1	<1	NA	NA		NA	<5	NA		

Groundwater Analytical Data

Boring / Well Number	MW-11A	MW-11A	MW-11A	MW-11A	MW-11A	MW-12	MW-12	MW-12	MW-12	MW-12
Date Sampled	5/10/96	4/3/97	7/23/98	9/21/99	10/8/00	10/2/96	4/3/97	7/23/98	9/21/99	10/8/00
Elevations - Ground Surface										
- Top of Screen										
- Static Groundwater	3.78'	2.20'	2.88'	3.66'	3.39'	5.0'	3.20'	3.85'	4.15'	5.01'
Chlorobenzene (µg/L) <i>100</i>	1.7	<1	<1	<1	<1	96.5	140	74.4	85.9	50.8
1,3-Dichlorobenzene (µg/L) <i>600</i>	<1	<1	<1	<1	<1	<1	14	<1	<1	<1
1,4-Dichlorobenzene (µg/L) <i>25</i>	66.6	<1	<1	<1	<1	8.4	22.8	5.9	4	3.2
1,2-Dichlorobenzene (µg/L) <i>600</i>	<1	<1	<1	<1	<1	36.4	72.4	22.2	15.8	11.6
Benzene (µg/L) <i>5</i>	NA	<1	<1	NA	NA	<2	<1	<1	NA	NA
Toluene (µg/L) <i>1000</i>	NA	<1	<1	NA	NA	<2	<1	<1	NA	NA
Ethylbenzene (µg/L) <i>200</i>	NA	<1	<1	NA	NA	<2	<1	<1	NA	NA
Xylene (µg/L) <i>10000</i>	NA	<1	<1	NA	NA	<2	<1	<1	NA	NA

Groundwater Analytical Data

Boring / Well Number	Water Well	Water Well								
Date Sampled	9/21/99	10/8/00								
Elevations - Ground Surface - Top of Screen - Static Groundwater										
Chlorobenzene (µg/L)	<1	<1								
1,3-Dichlorobenzene (µg/L)	<1	<1								
1,4-Dichlorobenzene (µg/L)	<1	<1								
1,2-Dichlorobenzene (µg/L)	<1	<1								
Benzene (µg/L)	NA	NA								
Toluene (µg/L)	NA	NA								
Ethylbenzene (µg/L)	NA	NA								
Xylene (µg/L)	NA	NA								



LEGEND	
PROPERTY LINE	-----
WATER	----- W -----
SANITARY SEWER	----->-----
STORM SEWER	----->-----
MONITORING WELL	
WATER WELL	

DRAWN BY: JJ
 PROJECT MANAGER: CS
 CHECKED BY: CS
 DATE: 12/22/99

SHEKAR ENGINEERING
 PO BOX 3625
 DES MOINES, IA 50322

SCALED SITE PLAN
WAGNER AUTO
 5815 WEST LINCOLN WAY
 AMES, IOWA

JOB #:	SHEET:
	1
SCALE:	OF:
1"=40'	1

ANALYTICAL REPORT

Page 1 of 2

Report To

Chandra Shekar
Shekar Engineering
8938 Highland Oaks Drive

Johnston, IA 50131

Sample Information

Work Order: 1010.0299

Date Received: 10/10/00 06:25 AM

Collector: Wayne Shannon

Collector Phone: 515-334-5062

Report Date: 10/12/00

Site Information

Wagner Auto
Ames, IA

Comments

Sample No : Analyte	Description : Matrix	Date Collected : Analysis Result	Detection Limit	Method	Analyst	Date Analyzed
1027268	MW-5	10/8/2000 12:05:00 PM : water				
Chlorobenzene		39.2 ug/L	2.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene		< 2. ug/L	2.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene		6.8 ug/L	2.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene		3.8 ug/L	2.	EPA 8260	EJW	10/10/00
1027269	MW-6	10/8/2000 12:15:00 PM : water				
Chlorobenzene		402. ug/L	2.	EPA 8260	EJW	10/11/00
1,3-Dichlorobenzene		2.2 ug/L	1.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene		17.9 ug/L	1.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene		11.5 ug/L	1.	EPA 8260	EJW	10/10/00
1027270	MW-7	10/8/2000 11:55:00 AM : water				
Chlorobenzene		< 2. ug/L	2.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene		< 2. ug/L	2.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene		< 2. ug/L	2.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene		< 2. ug/L	2.	EPA 8260	EJW	10/10/00
1027271	MW-9	10/8/2000 12:20:00 PM : water				
Chlorobenzene		76. ug/L	2.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene		2.6 ug/L	2.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene		20.7 ug/L	2.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene		17.2 ug/L	2.	EPA 8260	EJW	10/10/00

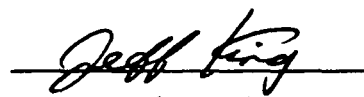
< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

Work Order: 1010.0299

Report Date: 10/12/00

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Sample No : Description : Date Collected : Matrix Analyte	Analysis Result	Detection Limit	Method	Analyst	Date Analyzed
1027272 MW-11A : 10/8/2000 12:00:00 PM : water					
Chlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1027273 MW-12 : 10/8/2000 12:30:00 PM : water					
Chlorobenzene	50.8 ug/L	1.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene	3.2 ug/L	1.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene	11.6 ug/L	1.	EPA 8260	EJW	10/10/00
1027274 Water Well : 10/8/2000 12:35:00 PM : water					
Chlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,3-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,4-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00
1,2-Dichlorobenzene	< 1. ug/L	1.	EPA 8260	EJW	10/10/00


Keystone Laboratories, Inc.

< = less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

CHAIN OF CUSTODY RECORD

Keystone
LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480

☐ 1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Wayne Shannon
SITE NAME: Wagner Auto
ADDRESS: _____
CITY/ST/ZIP: Ames, Ia
PHONE: _____

REPORT TO:
NAME: Chandra Shekar
COMPANY NAME: Shekar Engineering
ADDRESS: P.O. Box 3625
CITY/ST/ZIP: Des Moines
PHONE: 334-5062
FAX: _____

BILL TO:
NAME: Same
COMPANY NAME: _____
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____
Keystone Quote No.: _____ (If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED				LAB USE ONLY	
							Chlorobenzene	1,3 Dichlorobenzene	1,4 Dichlorobenzene	1,2 Dichlorobenzene	LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
MW-5	8 Oct	12:05	Wagner Auto	3	60	G	X	X	X	X	1010.0299	1027268
MW-6		12:15										27269
MW-7		11:55										27270
MW-9		12:20										27271
MW-11A		12:00										27272
MW-12		12:30										27273
Water Well		12:35										27274

Relinquished by: (Signature) <u>Wayne Shannon</u>	Date <u>10 Oct 00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10-10-00</u>	Turn-Around: ☒ Standard <u>5 day turn</u> ☐ Rush
	Time <u>6:25</u>		Time <u>6:25</u>	
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date	Contact Lab Prior to Submission
	Time		Time	