BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

September 8, 2008

Mr. Gary E. Bonarski, P.E.
Project Manager
New York State Department of
Environmental Conservation
Div. of Environmental Remediation
6274 East Avon-Lima Road
Avon, New York 14414-9519

Re: Former Brainerd Manufacturing Site (#V00519)
Off-Site Soil Vapor/Groundwater Investigation Report

Dear Mr. Bonarski:

In accordance with our Work Plans dated July 8, 2008 and July 30, 2008, Benchmark Environmental Engineering and Science, PLLC (Benchmark) has completed supplemental off-site soil vapor and groundwater investigations northwest of former Brainerd Manufacturing Site. Sample locations are shown on Figure 1. A description of the work performed and the investigation findings are presented below.

SUPPLEMENTAL SOIL VAPOR INVESTIGATION

On July 9, 2008 two semi-permanent soil gas sampling wells, identified as SV-1 and SV-2, were installed to approximately five feet below ground surface (fbgs) with a direct-push drill rig using ¾-inch inside diameter steel rods at the locations shown on Figure 1. The two soil vapor wells were constructed in accordance with our July 8, 2008 work plan. Sampling was initiated on the following day no sooner than 24-hours following vapor well installation. Initially, helium tracer gas injected into a temporary surface shroud was used to check the integrity of the bentonite surface seal of each vapor point. Upon charging the surface shroud, helium gas concentration was measured and compared to a three tubing-volume-purge (TVP) of subsurface vapor withdrawn from the sample tubing and injected into a Tedlar bag from each point. Unfortunately, due to meter malfunction the pre-sampling helium gas results could not be accurately measured. Therefore, further confirmation via a post-sample assessment was conducted immediately following soil vapor sample collection (approximately 8-hours later). The post-sampling TVP helium concentrations at both soil vapor locations were less than 10% of the shroud concentration, confirming the integrity of each surface seal. Soil vapor sample collection field forms are presented in Attachment 1.

Sample tubing from both vapor points (SV-1 and SV-2) and one concurrently collected ambient air sample (Outdoor Air #1) were connected to dedicated 6-liter Summa canisters each equipped with 8-hour regulators. The outdoor air sample was collected to establish background ambient air concentrations during soil vapor collection. Sample duration for each sample was

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approximately 8-hours and final canister vacuums measured at or below -6 pounds per square inch gauge (psig) and greater than 0 psig. Upon completion of the sampling, canister valves were closed and shipped under chain-of-custody command to TestAmerica Laboratories, Inc., a NYSDOH certified laboratory, for VOC analysis in accordance with USEPA Method TO-15.

Table 1 summarizes the laboratory-reported soil vapor and ambient air sampling results. As indicated, certain VOCs were detected in the soil vapor, including BTEX compounds (benzene, toluene, ethylbenzene, and xylenes), tetrachloroethene (PCE), 4-ethyltoluene, and n-heptane. Excluding PCE, all of these compounds were also detected in the outdoor ambient air sample in addition to dichlorodifluoromethane, trichlorofluoromethane, 2,2,4-trimethylpentane, and n-hexane.

SUPPLEMENTAL GROUNDWATER INVESTIGATION

On August 5, 2008 an additional off-site monitoring well, designated as MW-13, was installed on the south side of Linden Avenue within the Monroe County Department of Transportation right-of-way (ROW) at the approximate location shown on Figure 1. As requested by Monroe County, this new well was completed as a flush mount well within the existing sidewalk area. Nothnagle Drilling of Scottsville, New York provided subcontract drilling work under Benchmark's supervision. The well construction log is presented in Attachment 2. No visual or olfactory evidence of contamination was detected during well installation, and all photoionization detector (PID) scans of the cuttings registered non-detectable organic vapor concentrations.

MW-13 was developed and sampled on August 7, 2008. Well development and sampling logs are presented as Attachment 3. The collected groundwater sample was analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) by TestAmerica Laboratories, Inc. in accordance with USEPA Method 8260.

Groundwater analytical results are summarized on Table 2 with corresponding NYSDEC Class "GA" groundwater quality standards and guidance values (GWQS/GVs). For comparison, historic groundwater results collected from other Site monitoring wells have also been included in the table. Monitoring well MW-13 groundwater analysis detected bromodichloromethane, chloroform, PCE, and trichloroethene (TCE) at concentrations exceeding their respective GWQSs. All other TCL VOCs were reported as non-detectable or at concentrations well below their associated GWQS/GVs.

CONCLUSIONS

Although PCE was identified in the off-site soil gas samples, the concentrations were reported below 100 ug/M^3, which is the lowest concentration that would require actions (monitoring or maintenance) to address subslab vapors per Matrix 2 of the NYSDOH Soil Vapor Intrusion Guidance[1]. Thus, the soil gas samples indicate that subslab vapor intrusion in the residences along Linden Avenue is not a pathway of concern.

Groundwater data for MW-13 indicate low concentrations of VOCs, with total concentrations less than one part per million. Based on the comparability of these levels to MW-12, no increases in plume concentration or secondary sources are evident. Accordingly, we propose that any additional field efforts be focused on development and implementation of final remedial measures for the site.

Please contact us if you have any questions or concerns.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Project Manager

Att.
File: 0101-001-100

c: A. Shaffer (Despatch)
S. Chalifoux (Boylan Brown)
B. Putzig (NYSDEC)
D. McNaughton (NYSDOH)
J. Kosmala, P.E. (Monroe County Health Dept)

[1] Although the matrix decisions are intended to be based on both subslab and indoor air concentrations, any subslab concentration less than 100 ug/M^3 will result in a "No Further Action" or "Identify Source/Reduce Exposure" action, the latter of which is intended to address situations where a source other than soil vapor intrusion (e.g., indoor air source) produces elevated indoor air concentrations.

TABLES

BENCHMARK
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TABLE 1

SUMMARY OF OFF-SITE SOIL VAPOR MONITORING RESULTS
JULY 2008

Former Brainerd Manufacturing Facility
East Rochester, New York

Parameter	Sample Location (ug/m^3)		
	SV-1	SV-2	Outdoor Air #1
Dichlorodifluoromethane	--	--	2
Trichlorofluoromethane	--	--	1.1
Benzene	6.4	11	2.2
Toluene	450	410	8.3
Tetrachloroethene	75	52	--
Ethylbenzene	31	33	0.96
Xylene (m,p)	96	100	4.3
Xylene (o)	17	19	1.5
4-Ethyltoluene	6.4	5.9	1.1
2,2,4-Trimethylpentane	--	--	3
n-Hexane	--	--	5.6
n-Heptane	66	110	1.5

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS TO-DATE

Off-Site Soil Vapor Investigation
Former Brainerd Manufacturing Site
East Rochester, New York

Parameter [1]	Monitoring Well Location & Date of Sample Collection																							GWQS/GV [2]
	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8		MW-9				MW-10		MW-11	MW-12	MW-13	
	08/18/06		08/18/06		08/21/06		08/22/06		08/22/06		08/22/06		08/21/06		08/21/06		08/21/06		09/12/07		08/21/06		03/10/08	03/10/08	08/07/08	
Field Measurements (units as indicated)																										
pH (units)	7.28	7.27	7.43	7.46	7.45	7.46	7.20	7.21	7.24	7.24	6.98	6.97	7.33	7.34	7.30	7.30	6.97	7.04	7.18	7.19	7.58	7.61	6.90	6.83	7.21	**6.5 - 8.5**
Temperature (ºC)	19.1	18.1	16.8	17.5	19.8	19.3	19.0	19.3	15.8	15.7	18.1	18.1	14.0	13.9	14.3	13.8	15.2	15.5	16.9	16.8	16.2	15.7	12.4	11.2	15.7	**--**
Specific Conductance (uS)	1010	1009	1795	1805	2806	2824	2566	2603	2076	2077	3190	3192	495.6	500.1	511.7	532.4	2912	2957	1497	1525	1546	1541	717	737	851.3	**--**
Turbidity	6.5	5.25	19.8	13.7	22.1	16.5	32.3	27.3	45.1	40.4	107	68	15.6	11.4	5.52	3.24	30.5	17.3	65.8	89	155	106	330	371	>1000	**--**
DO (ppm)	1.43	1.47	4.72	5.53	5.06	5.45	5.53	5.56	3.04	2.91	3.25	3.21	6.74	6.95	6.49	6.25	1.68	1.74	3.12	3.09	3.32	3.54	6.09	3.09	--	**--**
ORP (mV)	-27	-32	+ 62	+ 67	+ 138	+ 134	+ 120	+ 118	+ 118	+ 119	+ 129	+ 128	+ 127	+ 127	+ 125	+ 124	+ 149	+ 165	+ 107	+ 105	+ 157	+ 157	+ 137	+ 60	+ 10	**--**
TCL VOCs (ug/L)																										
Acetone	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		3.1 J	4.8 J	4.6 J	**5**
Bromodichloromethane	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.99 J	0.82 J	**6**	**5**
Bromoform	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	3.2	**50***
Carbon Disulfide	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.1	0.94 J	0.42 J	**5**
Chloroform	ND		0.91 J		ND		0.86 J		1.4 J		ND		ND		ND		2 J		0.9 J		ND		1.7	1.6	**15**	**7**
Dibromochloromethane	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	2.6	**50***
1,1-Dichloroethane	ND		ND		ND		ND		ND		ND		ND		ND		0.62 J		ND		ND		ND	ND	ND	**5**
1,1 Dichloroethene	ND		ND		ND		ND		0.56 J		ND		ND		ND		3.5 J		1.3		ND		ND	ND	0.4 J	**5**
cis-1,2-Dichloroethene	ND		ND		ND		ND		0.8 J		ND		ND		ND		3.2 J		1.3		ND		ND	0.66 J	ND	**5**
trans-1,2-Dichloroethene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	ND	ND	**5**
Tetrachloroethene	3.1 J		**8.2**		ND		**87**		**1600**		**3100**		ND		**13**		**3100**		**2600 D**		**17**		ND	**300 D**	**350 D**	**5**
Toluene	ND		ND		ND		ND		ND		3.2 J		ND		ND		ND		ND		ND		ND	ND	ND	**5**
1,1,1-Trichloroethane	ND		ND		0.74 J		2.6 J		**11**		**16 J**		ND		ND		**34**		**12**		0.6 J		ND	2	1.8	**5**
1,1,2-Trichloroethane	ND		ND		ND		ND		**1.5 J**		ND		ND		ND		**3.8 J**		**1.9**		ND		ND	ND	0.42 J	**1**
Trichlorofluoromethane	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**11**	ND	ND	**5**
Trichloroethene	0.78 J		**6.3**		**11**		**240**		**1400**		**1500**		**6.0**		**20**		**2700**		**1900 D**		**15**		ND	**270 D**	**300 D**	**5**
TOTAL VOCs	**3.88**		**15.41**		**11.74**		**330.46**		**3015.26**		**4619.2**		**6**		**33**		**5847.12**		**4517.4**		**32.6**		**17.89**	**580.82**	**684.44**	**--**

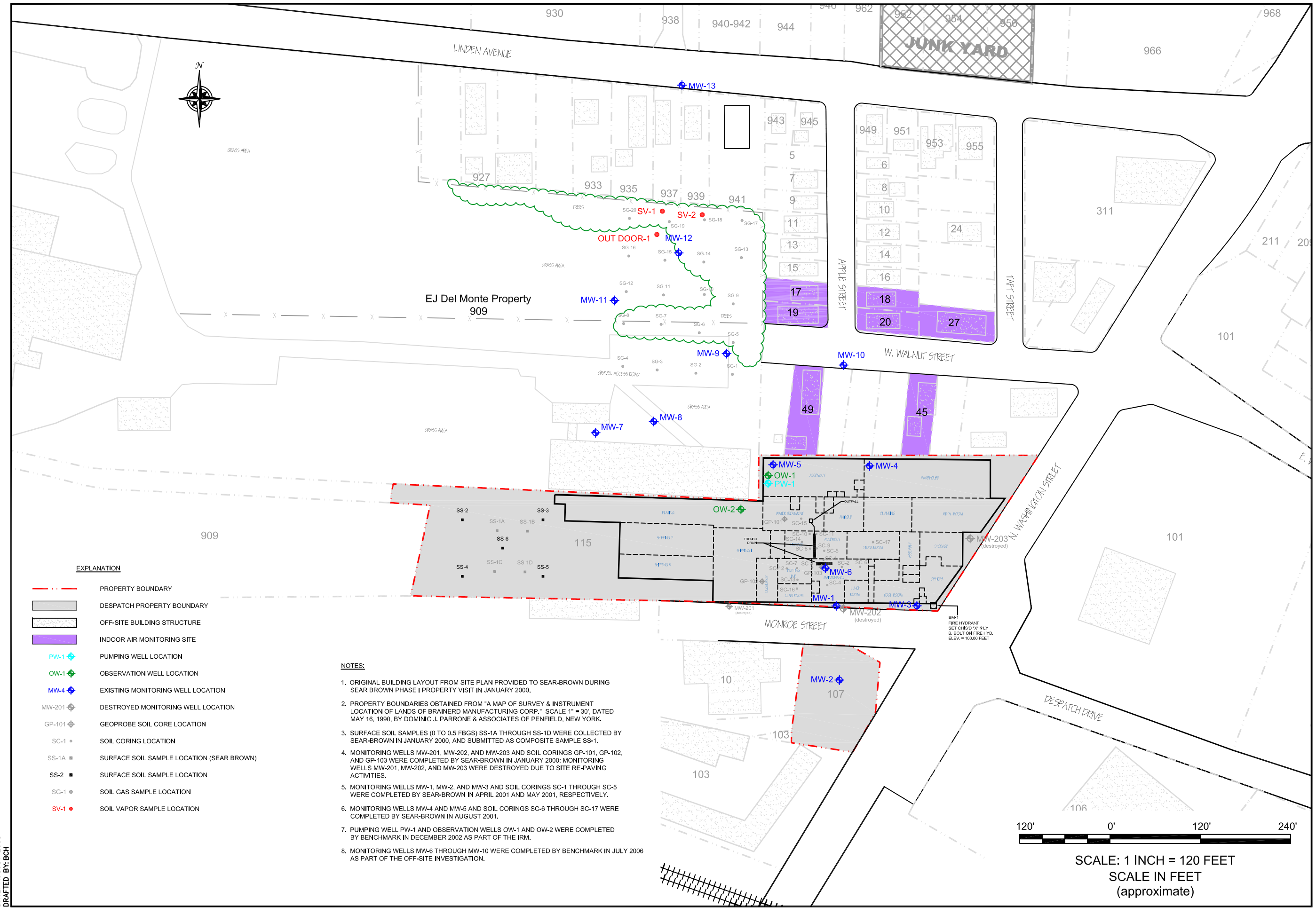
Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. NYSDEC Class "GA" Groundwater Quality Standards/Guidance Values (GWQS/GV), 6 NYCRR Part 703.

Definitions:
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
D = Compound analyzed at a secondary dilution factor.
ND = parameter not detected above laboratory detection limit.
" * " = NYSDEC Class GA Guidance Value, where a Standard has not been established.

BOLD = Analytical result exceeds individual GWQS/GV.

FIGURES

F:\CAD\Benchmark\Despatch\Off-Site Soil Vapor-Groundwater (MW-13) Investigation (July 2008)\Report\Figure 1; Site Plan.dwg



SCALE: 1 INCH = 120 FEET
SCALE IN FEET
(approximate)

EXPLANATION

- PROPERTY BOUNDARY
- DESPATCH PROPERTY BOUNDARY
- OFF-SITE BUILDING STRUCTURE
- INDOOR AIR MONITORING SITE
- PW-1 PUMPING WELL LOCATION
- OW-1 OBSERVATION WELL LOCATION
- MW-4 EXISTING MONITORING WELL LOCATION
- MW-201 DESTROYED MONITORING WELL LOCATION
- GP-101 GEOPROBE SOIL CORE LOCATION
- SC-1 SOIL CORING LOCATION
- SS-1A SURFACE SOIL SAMPLE LOCATION (SEAR BROWN)
- SS-2 SURFACE SOIL SAMPLE LOCATION
- SG-1 SOIL GAS SAMPLE LOCATION
- SV-1 SOIL VAPOR SAMPLE LOCATION

NOTES:

1. ORIGINAL BUILDING LAYOUT FROM SITE PLAN PROVIDED TO SEAR-BROWN DURING SEAR BROWN PHASE I PROPERTY VISIT IN JANUARY 2000.
2. PROPERTY BOUNDARIES OBTAINED FROM "A MAP OF SURVEY & INSTRUMENT LOCATION OF LANDS OF BRAINERD MANUFACTURING CORP." SCALE 1" = 30', DATED MAY 16, 1990, BY DOMINIC J. PARRONE & ASSOCIATES OF PENFIELD, NEW YORK.
3. SURFACE SOIL SAMPLES (0 TO 0.5 FBGS) SS-1A THROUGH SS-1D WERE COLLECTED BY SEAR-BROWN IN JANUARY 2000, AND SUBMITTED AS COMPOSITE SAMPLE SS-1.
4. MONITORING WELLS MW-201, MW-202, AND MW-203 AND SOIL CORINGS GP-101, GP-102, AND GP-103 WERE COMPLETED BY SEAR-BROWN IN JANUARY 2000; MONITORING WELLS MW-201, MW-202, AND MW-203 WERE DESTROYED DUE TO SITE RE-PAVING ACTIVITIES.
5. MONITORING WELLS MW-1, MW-2, AND MW-3 AND SOIL CORINGS SC-1 THROUGH SC-5 WERE COMPLETED BY SEAR-BROWN IN APRIL 2001 AND MAY 2001, RESPECTIVELY.
6. MONITORING WELLS MW-4 AND MW-5 AND SOIL CORINGS SC-6 THROUGH SC-17 WERE COMPLETED BY SEAR-BROWN IN AUGUST 2001.
7. PUMPING WELL PW-1 AND OBSERVATION WELLS OW-1 AND OW-2 WERE COMPLETED BY BENCHMARK IN DECEMBER 2002 AS PART OF THE IRM.
8. MONITORING WELLS MW-6 THROUGH MW-10 WERE COMPLETED BY BENCHMARK IN JULY 2006 AS PART OF THE OFF-SITE INVESTIGATION.

DATE: AUGUST 2008
DRAFTED BY: BCH

726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

JOB NO.: 0040-002-400

SITE PLAN

OFF-SITE SOIL VAPOR/GROUNDWATER INVESTIGATION REPORT
FORMER BRAINERD MANUFACTURING FACILITY
EAST ROCHESTER, NEW YORK

PREPARED FOR
DEPATCH INDUSTRIES, INC.

FIGURE 1

ATTACHMENT 1

SOIL VAPOR SAMPLING FORMS

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: OFFSite Soil Vapor Inv
Job No: 0040-002-400
Location: EAST Rochester, NY
Field Staff: RLD
Client: Boylan Brown

SAMPLE I.D.: SV-1

Size of Canister: 6L SUMA
Canister Serial No.: 3042
Flow Controller No.: 2763
Sample Date(s): 7/10/08
Shipping Date: 7/11/08
Sample Type: ☐ Indoor Air ☐ Outdoor Air
☐ Subslab, complete section below ☒ Soil Gas
Soil Gas Probe Depth: 5 Fbgs

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 68°F
Ambient Air Temp. - P.M.: 75°F
Wind Direction: West
Wind Speed: 10-20 mph
Precipitation: none

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Gauge Reading Upon Receipt	—	—	—	—
Initial Vacuum Check [1]	NA	NA	NA	NA
Initial Field Vacuum [2]	1055	-29.3	7/10/08	JAB
Final Field Vacuum [3]	1951	-2	7/10/08	RLD
Duration of Sample Collection	8 hr 56 min			

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)	~~-29.5~~	
Final Pressure (psia)		
Pressurization Gas		

SUBSLAB SHROUD:

Shroud Helium Concentration: Pre 250 ppm Post 200,00 ppm
Calculated tubing volume: 9.653 x 3 = 183 cc
Purged Tubing Volume Concentration: Pre - 0 ppm Post 0 ppm
Is the purged volume concentration less than or equal to 10% in shroud?
☒ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)
2 Vacuum measured by canister gauge upon opening valve
3 Vacuum measured by canister gauge prior to closing valve

Signed:

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: OFFSITE SOIL VAPOR INV
Job No: 0040-002-400
Location: EAST Rochester, NY
Field Staff: RLD
Client: Boyle Brown

SAMPLE I.D.: SV-2

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 65°F
Ambient Air Temp. - P.M.: 75°F
Wind Direction: west
Wind Speed: 15-20 mph
Precipitation: none

Size of Canister: 6L Summa
Canister Serial No.: 3196
Flow Controller No.: 3119
Sample Date(s): 7/10/08
Shipping Date: 7/11/08
Sample Type: ☐ Indoor Air ☒ Outdoor Air
☐ Subslab, complete section below ☑ Soil Gas
Soil Gas Probe Depth: 5 ft bgs

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Gauge Reading Upon Receipt	~~1146~~	~~-30~~	—	—
Initial Vacuum Check [1]	—	—	—	—
Initial Field Vacuum [2]	1146	-30	7/10/08	JAB
Final Field Vacuum [3]	1952	-4	7/10/08	RLD
Duration of Sample Collection	8 hr 6 min			

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)		
Final Pressure (psia)		
Pressurization Gas		

SUBSLAB SHROUD:

Shroud Helium Concentration: Pre 660ppm Post 100,000 ppm
Calculated tubing volume: 9.653 x 3 = 183 cc
Purged Tubing Volume Concentration: Pre 0ppm Post 0ppm
Is the purged volume concentration less than or equal to 10% in shroud?
☑ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)
2 Vacuum measured by canister gauge upon opening valve
3 Vacuum measured by canister gauge prior to closing valve

Signed:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

AIR CANISTER FIELD RECORD

PROJECT INFORMATION:

Project: OFFsite Soil vapor Inv
Job No: 0040-002-400
Location: EAST Rochester, NY
Field Staff: RLD
Client: Boylan Brown

SAMPLE I.D.: Outdoor Air #1

Size of Canister: 6L Summa
Canister Serial No.: 2706
Flow Controller No.: 4245
Sample Date(s): 7/10/08
Shipping Date: 7/11/08
Sample Type: ☐ Indoor Air ☑ Outdoor Air
☐ Subslab, complete section below ☐ Soil Gas
Soil Gas Probe Depth:

WEATHER CONDITIONS:

Ambient Air Temp. - A.M.: 65 °F
Ambient Air Temp. - P.M.: 75°F
Wind Direction: West
Wind Speed: 15-20 mph -AM 0 mph -PM
Precipitation: none

FIELD SAMPLING INFORMATION:

READING	TIME	VACUUM (inches Hg) or PRESSURE (psig)	DATE	INITIALS
Gauge Reading Upon Receipt	—	—	—	—
Initial Vacuum Check [1]	—	—	—	—
Initial Field Vacuum [2]	1200	-30	7/10/08	RLD
Final Field Vacuum [3]	2100	-6	7/10/08	RLD
Duration of Sample Collection	9 hrs.			

LABORATORY CANISTER PRESSURIZATION:

Initial Vacuum (inches Hg and psia)		
Final Pressure (psia)		
Pressurization Gas		

SUBSLAB SHROUD:

Shroud Helium Concentration: NA
Calculated tubing volume: x 3 =
Purged Tubing Volume Concentration:
Is the purged volume concentration less than or equal to 10% in shroud?
☐ YES, continue sampling
☐ NO, improve surface seal and retest

COMPOSITE TIME (hours)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
0.5 Hours	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

NOTES:

1 Vacuum measured using portable vacuum gauge (provided by Lab)
2 Vacuum measured by canister gauge upon opening valve
3 Vacuum measured by canister gauge prior to closing valve

Signed:

TABLE 2

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

SOIL VAPOR SAMPLE COLLECTION LOG

Site: EAST Rochester **Sampler(s):** RLD / TAB

Sample ID	Sample Depth	Date	Time	Sampling Method	Sampling Device	Purge Volume	Vacuum Before & After Sample Collection		Comments (e.g. apparent moisture content (dry, moist, saturated, etc.), problems encountered, ref. to variance, important observations or descriptions, etc.)
							Before	After	
SV-1 *	5'	7/10/08	1055	SUMA - SOIL GAS	SUMA	6L	-29.3	-2	* ERRATIC Reading with helium meter - During pre testing. - collected) Additional Tedlar BAG AIR Samples OF purged Air vol From probe. @ Recieved) a new helium meter. Checked) Tedlar BAGS. Both at 0ppm. performed) a post check OF Soil GAS probe seal (8hrs later) - Both probe vol Readings at 0ppm.
SV-2 *	5'	7/10/08	1146	SUMA - SOIL GAS	SUMA	6L	-30	-4	
OUTDOOR AIR #1		7/10/08	1200	SUMA	SUMA	6L	-30	-6	

Notes:

1. See Work Plan for sampling frequency and actual number of QC samples.

Prepared By: RLD

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Tom Forbes	Samples Collected By: RLD	1 of 1 COCs
Company: Benchmark Env Engr Sci, PLLC	Phone: 716-856-0599		
Address: 726 Exchange St Suite 624	Email: Forbes@benchmarkees.com		
City/State/Zip Buffalo, NY 14210			
Phone: 716-856-0599	Site Contact: Rick Dubz - Benchmark		
FAX: 716-856-0583	STL Contact: B. Fischer - Buffalo		
Project Name: East Rochester (Brainerd)	Analysis Turnaround Time		
Site:	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-1	7/10/08	1055	1951	-29.3	-2	2763	3042	X					X				X		
SV-2	7/10/08	1142	1952	-30	-4	3119	3196	X					X				X		
Out Door Air #1	7/10/08	1200	2100	-30	-6	4245	2706	X								X			

Temperature (Fahrenheit)			
	Interior	Ambient	
Start		65°F	
Stop		75°F	

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments: Perform Helium Analysis on Sample SV-1, SV-2 - Report separately from TO-15 Results
Level IV QC on TO-15 Results
Level II Reporting on Helium Results

Samples Shipped by: -Rick Dubz	Date/Time: 7/11/08 15:00	Samples Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

Lab Use Only Shipper Name: Opened by: Condition:

ATTACHMENT 2

MONITORING WELL CONSTRUCTION LOGS

Project No: 0079-001-200

Borehole Number: MW-13

Project: Despatch Industries, Inc.

Client: Despatch Industries, Inc.

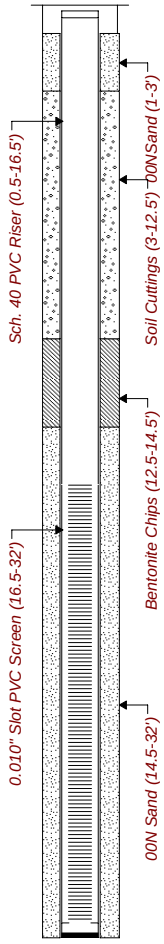
Logged By: TAB

Site Location: East Rochester, NY

Checked By: BCH

Benchmark Environmental Engineering & Science, PLLC
726 Exchange Street, Suite 624
Buffalo, NY
(716) 856-0599

SUBSURFACE PROFILE			SAMPLE						
Depth (fbgs)	Elev. /Depth	Description (ASTM D2488: Visual-Manual Procedure)	Sample No.	SPT N-Value	Recovery (ft)	Symbol	PID VOCs ppm (0 – 12.5 – 25)	Lab Sample	Well Completion Details or Remarks
0.0	0.0	Ground Surface							
	0.0	***Concrete - Sidewalk***							
		Subbase One inch crusher-run							
		Fine Sand Medium brown, Fine Sand with few Silt, moist, medium density, very faint reddish brown laminations	Hand	NA	5				
	-5.0 5.0	Same as above	S1	NA	3.2		0.0		
	-9.0 9.0	Same as above with rootlets	S2	NA	3.6		0.0		
	-13.0 13.0	Same as above with no rootlets	S3	NA	3.3		0.0		
	-17.0 17.0	Same as above	S4	NA	3.5		0.0		
	-20.0 20.0	Same as above, wet							
	-21.0 21.0	Same as above	S5	NA	2.2		0.0		
	-24.0 24.0	Same as above with trace coarse gravel	S6	NA	2.9		0.0		
	-28.0 28.0	Same as above with no gravel	S7	NA	2.4		0.0		
	-32.0 32.0	Same as above	S8	NA	2.2		0.0		
	-35.0 35.0	***End of Boring***							
40.0	-40.0 40.0								



Drilled By: Nothnagle Enterprises, Inc.
Drill Rig Type: CME 55
Drill Method: 4.25" HSA with 4' Macro-core

Drill Date(s): 08-05-08

Hole Size: 9"
Stick-up: Flushmount
Datum: Mean Sea Level

Sheet: 1 of 1

ATTACHMENT 3

WELL DEVELOPMENT AND SAMPLING LOGS

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Off-Site GW Inv.
Project No.: 0040-002.400
Client: Despatch

Date: 8/7/08

Instrument Source: [X] BM [ ] Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
[X] pH meter	units	10:20	Myron L Company Ultra Meter 6P	606987	PWW	4.00	4.00	4.00 ok
						7.00	7.00	7.00 ok
						10.01	10.00	10.01 ok
[X] Turbidity meter	NTU	10:25	Hach 2100P Turbidimeter	970600014560	PWW	< 0.4	~~0.0~~ 0.18	< 0.4 ok
						20	18.3	20 ok
						100	92.5	100 ok
						800	738	800 ok
[X] Sp. Cond. meter	uS mS	10:20	Myron L Company Ultra Meter 6P	606987	PWW	2764 mS @ 25 °C	2764	2764 ok
[ ] PID	ppm		MinRAE 2000			open air zero		MIBK response factor = 1.0
						____ ppm Iso. Gas		
[ ] Dissolved Oxygen	ppm		YSI Model 55	05D2677				
[ ] Particulate meter	mg/m^3					zero air		
[ ] Oxygen	%					open air		
[ ] Hydrogen sulfide	ppm					open air		
[ ] Carbon monoxide	ppm					open air		
[ ] LEL	%					open air		
[ ] Radiation Meter	uR/H					background area		
[ ]								

ADDITIONAL REMARKS:

PREPARED BY: **DATE:**

23.56 - 25.28

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER WELL DEVELOPMENT LOG

Project Name: Off-Site GW Investigation
Project Number: 0040-002-400
Client: Despatch
WELL NUMBER: MW-13
Sample Matrix: groundwater
Weather: overcast, windy, mid 70's

WELL DATA:

DATE: 8/7/08 TIME: 10:30

Casing Diameter (inches):	2"	Casing Material:	Slotted & 2" PVC
Screened interval (fbTOR):	17.0 - 32.0	Screen Material:	2" slotted PVC
Static Water Level (fbTOR):	23.56	Bottom Depth (fbTOR):	28.28
Elevation Top of Well Riser (fmsl):	NA	Datum Ground Surface:	Mean Sea Level
Elevation Top of Screen (fmsl):	NA	Stick-up (feet):	flush-mount

PURGING DATA:

DATE: 8/7/08 START TIME: 10:33 END TIME: 11:30

Method:	Bailer	Is purge equipement dedicated to sample location?	yes (no)
No. of Well Volumes Purged:	>10	Was well purged to dryness?	yes (no)
Standing Volume (gallons):	0.77	Was well purged below top of sand pack?	(yes) no
Volume Purged (gallons):	8	Condition of Well:	good
Purge Rate (gal/min):	—	Field Personnel:	PWW

VOLUME CALCULATION:

(A) Total Depth of Well (fbTOR):	28.28
(B) Casing Diameter (inches):	2"
(C) Static Water Level (fbTOR):	23.56
One Well Volume (V, gallons): V = 0.0408 [(B)^2 x { (A) - (C) }]	0.77

*Use the table to the right to calculate one well volume.

Field Personnel: PWW

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469
8"	2.611

Stabilization Criteria

Parameter	Criteria
DO	+/- 0.3 mg/L
Turbidity	+/- 10%
SC	+/- 3%
ORP	+/- 10 mV
pH	+/- 0.1 unit

EVACUATION STABILIZATION TEST DATA:

Time	Water Level (fbTOR)	Accumulated Volume (gallons)	pH (units)	Temperature (degrees C)	Specific Conductance (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
10:38	23.56	—	6.74	18.2	1396	>1000		149	Turbid brown/No odor
10:45	23.32	8 gal	7.12	15.6	782.5	>1000		51	"
10:52	23.30	1.6 gal	7.13	18.3	801.7	>1000		34	"
10:56	23.26	2.4 gal	7.15	18.4	814.2	"		10	"
11:01	24.15	3.2 gal	7.19	15.7	799.6	>1000		4	"
11:06	24.30	4 gal	7.23	15.1	769.5	>1000		23	"
11:10	24.38	4.8 gal	7.24	15.1	782.6	>1000		32	"
11:15	24.51	5.6 gal	7.27	15.1	794.3	>1000		32	"
11:19	24.64	6.4 gal	7.30	14.8	794.3	>1000		32	"
11:24	24.86	7.2 gal	7.33	14.7	805.6	>1000		29	"
11:30	25.01	8 gal	7.36	14.6	811.2	>1000		27	"

REMARKS:

PREPARED BY: PWW

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

LOW FLOW METHOD GROUNDWATER PURGE & SAMPLE COLLECTION LOG

Project Name: Off-Site GW Investigation WELL LOCATION MW-13
Project Number: 2040-002-400 Sample Matrix: groundwater
Client: Despatch Weather: Sunny, partial clouds, ↑ 70's, slight breeze

WELL DATA:

DATE: 8/7/08 TIME: 12:49

Casing Diameter (inches):	2"	Casing Material:	2" PVC
Screened interval (fbTOR):	17.0-32.0	Screen Material:	2" slotted PVC
Static Water Level (fbTOR):	22.54	Bottom Depth (fbTOR):	28.20
Elevation Top of Well Riser (fmsl):	NA	Ground Surface Elevation (fmsl):	NA
Elevation Top of Screen (fmsl):	NA	Stick-up (feet):	flush-mount
Standing volume in gallons: [(bottom depth - static water level) x vol calculation in table per well diameter]	0.92		

Volume Calculation

Well Diameter	Volume gal/ft
1"	0.041
2"	0.163
3"	0.367
4"	0.653
5"	1.020
6"	1.469

PURGING DATA:

Pump Type: ~~peristaltic~~ mini Monsoon

Is equipment dedicated to location yes (no) Is tubing dedicated to location: (yes) no

Depth of Sample (i.e. Level of Intake) (fbTOR): ~26 Approximate Purge Rate (gal/min): 0.125

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
13.00	Initial	1.25	6.84	20.7	1388	>1000		79	Turbid brown/No odor
13:02	23.65	.25	7.07	17.2	836.9	>1000		20	"
13:05	23.78	.50	7.15	15.9	834.1	>1000		19	"
13:07	24.12	.75	7.15	15.9	829.1	>1000		18	"
13:09	24.18	1.25	7.17	15.4	838.0	>1000		19	"
13:11	24.28	1.5	7.19	15.6	843.9	>1000		14	"
13:14	24.24	1.75	7.21	15.7	851.3	>1000		10	

SAMPLING DATA:

DATE: 8/7/08 START TIME: 13:15 END TIME: 13:20

Method: low-flow with dedicated tubing		Was well sampled to dryness? yes (no)	
Initial Water Level (fbTOR):	24.24	Was well sampled below top of sand? (yes) no	
Final Water Level (fbTOR):	24.24	Field Personnel:	PWW/TAB

PHYSICAL & CHEMICAL DATA:

Appearance: Turbid
Color: Brown
Odor: None
Sediment Present? Yes

WATER QUALITY MEASUREMENTS					
pH (units)	TEMP. (°C)	SC (uS)	TURB. (NTU)	DO (ppm)	ORP (mV)
7.21	15.7	851.3	>1000	—	10

REMARKS: ~4.0' of sand in well

PREPARED BY: Paul W Wells