# SEYMOUR ENVIRONMENTAL SERVICES, INC.

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DNR R&R
SOUTH CENTRAL REGION

November 5, 2007

Mr. Randy Hardell
213 DeWitt Street
Portage, Wisconsin 53901

**Re: Environmental Sampling**
**H&H Pools and Spas (BRRTs# 03-11-550304)**
**Portage, Wisconsin**

Dear Mr. Hardell:

Seymour Environmental Services, Inc. (Seymour) is pleased to provide you with the results of our environmental investigation at H&H Pools and Spas. On August 2, 2007 Schaper Excavating abandoned an underground storage tank (UST) in the alley behind your store. As part of the abandonment, soil samples were collected beneath the tank from holes cut in the base. The results of the soil samples collected beneath the tank indicated that the tank had a release. The soil samples were analyzed for diesel range organics (DRO). Both samples exceeded the trigger level for investigation of 10 milligram per kilogram (mg/kg) and the allowable residual contaminant level (RCL) of 100 mg/kg in sandy soil. The soil samples contained 210 and 400 mg/kg. The soil sample results are summarized on Table 1.

Seymour returned to the site on August 23, 2007 to conduct a geoprobe investigation. Three geoprobes were installed at the site. The first was installed to the north of the abandoned UST, the second just south of it and the third south of the site in the other side of the alley. The boring locations are shown on Figure 1. Tables 2 and 3 summarize the analytical data from the geoprobe investigation.

The analytical results show that both soil and groundwater contamination in excess of the standards is present at the site and in the right-of-way. We will need to further define the extent of the soil and groundwater contamination offsite using geoprobes. We will likely need to obtain permission from the offsite, downgradient properties. A groundwater monitoring well at the location of boring B-2 at minimum will be required to determine if the groundwater contamination is stable or decreasing.

Please call me if you have any questions. Once you have had a chance to review this information please call me to discuss the project and how we will proceed.

Sincerely,
**Seymour Environmental Services, Inc.**

Robyn Seymour

Robyn Seymour, P.G.
Hydrogeologist
Enc.

Figure

TABLE 1
SUMMARY OF TANK CLOSURE SAMPLE ANALYSES
H&H Pools and Spas
213 DeWitt Street - Portage, Wisconsin

| Sample I.D. | North | South | NR720 | NR746 | |
|---|---|---|---|---|---|
| Depth (ft) | 8 | 8 | RCLs | Table 2 | Table 1 |
| DRO | **400** | **210** | 100 | ns | ns |
| **PVOCs** | | | | | |
| Benzene | na | na | 5.5 | 1100 | 8500 |
| 1,2 Dichloroethane | na | na | ns | 540 | 600 |
| Ethylbenzene | na | na | 2900 | ns | 4600 |
| Methyl-tert-butyl ether | na | na | ns | ns | ns |
| Toluene | na | na | 1500 | ns | 38000 |
| 1,3,5 Trimethylbenzenes | na | na | ns | ns | 11000 |
| 1,2,4 Trimethylbenzenes | na | na | ns | ns | 83000 |
| Total Trimethylbenzenes | na | na | ns | ns | ns |
| Xylenes, -m, -p | na | na | ns | ns | ns |
| Xylene, -o | na | na | ns | ns | ns |
| Total Xylenes | na | na | 4100 | ns | 42000 |
| Naphthalene | na | na | 400 | 20000 | 2700 |

- DRO results are reported in mg/kg
- PVOC results are reported in ug/kg
- na = not analyzed
- ns = no standard established
- NR720 RCL = Residual contaminant levels
- NR746 Table 2 = Direct contact hazard levels
- NR746 Table 1 = Indicator of petroleum saturated soil pores

TABLE 2
SUMMARY OF GEOPROBE SOIL CHEMISTRY (08/23/2007)
H&H Pools and Spas
213 DeWitt Street - Portage, Wisconsin

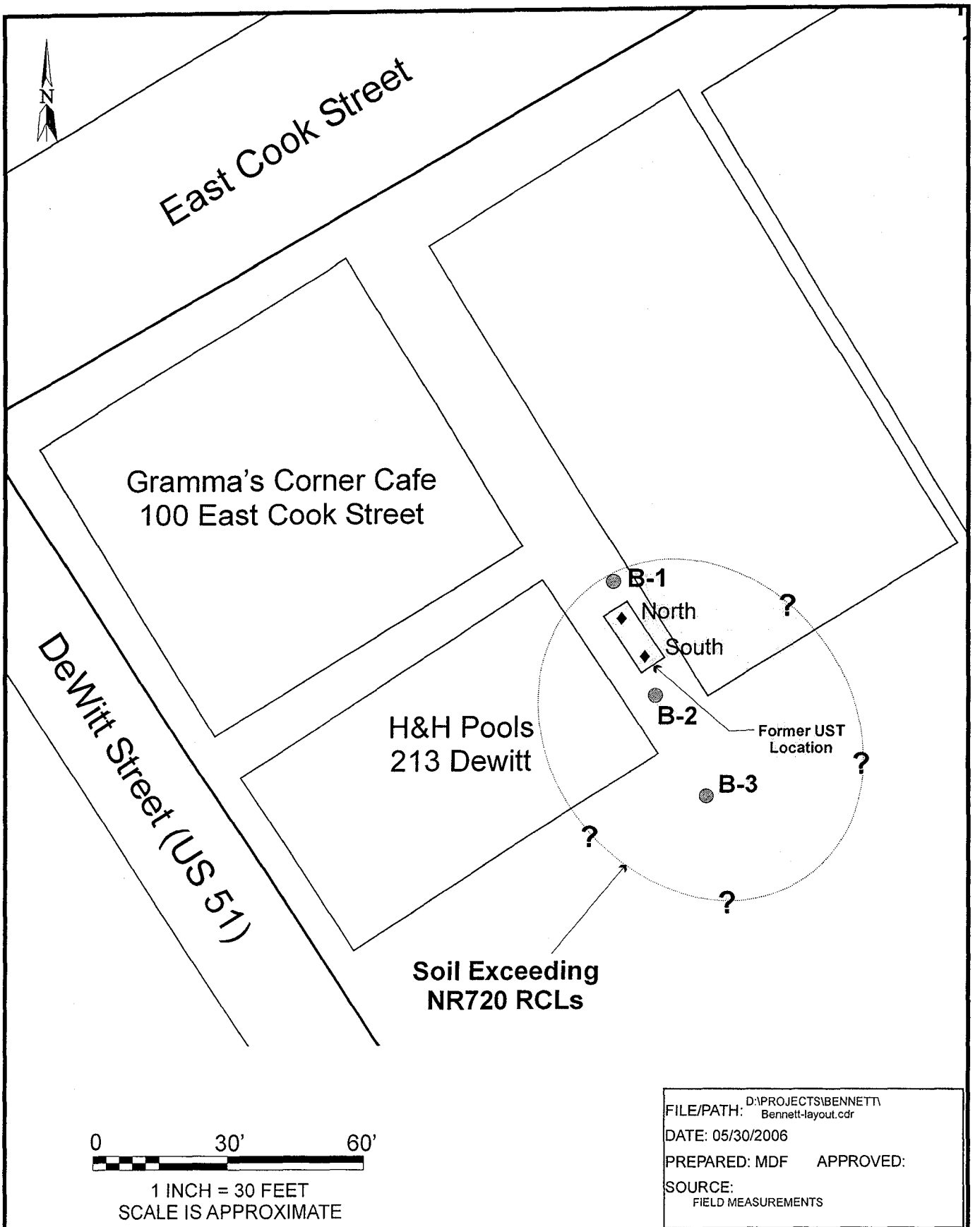
| Sample I.D. | B-1 | B-2 | B-3 | NR720 | NR746 | |
|---|---|---|---|---|---|---|
| Depth (ft) | 10-12 | 16-20 | 19 | RCLs | Table 2 | Table 1 |
| DRO | **17** | **2500** | **4300** | 100 | ns | ns |
| **PVOCs** | | | | | | |
| Benzene | <25 | <200 | <200 | 5.5 | 1100 | 8500 |
| Ethylbenzene | <25 | 680 | <25 | 2900 | ns | 4600 |
| Methyl-tert-butyl ether | <25 | <200 | <200 | ns | ns | ns |
| Toluene | <25 | <200 | <200 | 1500 | ns | 38000 |
| 1,3,5 Trimethylbenzenes | <25 | 4900 | 7500 | ns | ns | 11000 |
| 1,2,4 Trimethylbenzenes | <25 | 9500 | 9700 | ns | ns | 83000 |
| Total Trimethylbenzenes | <50 | 14400 | 17200 | ns | ns | ns |
| Xylenes, -m, -p | <51 | 1200 | <400 | ns | ns | ns |
| Xylene, -o | <25 | 250 | 840 | ns | ns | ns |
| Total Xylenes | <76 | 1450 | 840 | 4100 | ns | 42000 |
| PAHs | | | | | | |
| Acenaphthrene | na | 3000 | na | 38000 | 900,000 | ns |
| Acenaphthylene | na | 600 | na | 700 | 18000 | ns |
| Anthracene | na | 1500 | na | 3,000,000 | 5,000,000 | ns |
| Benzo(a)anthracene | na | <210 | na | 17000 | 88 | ns |
| Benzo(a)pyrene | na | <200 | na | 48000 | 8.8 | ns |
| Benzo(b)fluoranthene | na | <210 | na | 360,000 | 88 | ns |
| Benzo(g,h,i)perylene | na | <220 | na | 6,800,000 | 1800 | ns |
| Benzo(k)fluoranthene | na | <200 | na | 870,000 | 880 | ns |
| Chrysene | na | <230 | na | 37,000 | 8,800 | ns |
| Dibenzo(a,h)anthracene | na | <220 | na | 38,000 | 8.8 | ns |
| Fluoranthene | na | <220 | na | 500,000 | 600,000 | ns |
| Fluorene | na | 3100 | na | 100,000 | 600,000 | ns |
| Indeno(1,2,3-cd)pyrene | na | <210 | na | 680,000 | 88 | ns |
| 1-Methylnaphthalene | na | **36000** | na | 23,000 | 1,100,000 | ns |
| 2-Methylnaphthalene | na | **62000** | na | 20,000 | 600,000 | ns |
| Naphthalene | na | **11000** | na | 400 | 20,000 | 2700 |
| Phenanthrene | na | **10000** | na | 1,800 | 18,000 | ns |
| Pyrene | na | 410 | na | 8,700,000 | 500,000 | ns |

- DRO results are reported in mg/kg
- PVOC and PAH results are reported in ug/kg
- na = not analyzed
- ns = no standard established
- NR720 RCL = Residual contaminant levels
- NR746 Table 2 = Direct contact hazard levels
- NR746 Table 1 = Indicator of petroleum saturated soil pores
- PAH standards from RR-519-97 (April 1997)

TABLE 3
SUMMARY OF GEOPROBE GROUNDWATER CHEMISTRY (8/23/2007)
H&H Pools and Spas
213 DeWitt Street - Portage, Wisconsin

| Sample I.D. | B-2 | B-3 | NR140 | |
|---|---|---|---|---|
| PVOCs | | | ES | PAL |
| Benzene | 46 | 0.32 | 5 | 0.5 |
| 1,2 Dichloroethane | na | na | 5 | 0.5 |
| Ethylbenzene | 70 | 3.9 | 700 | 140 |
| Methyl-tert-butyl ether | 9.4 | <0.36 | 60 | 12 |
| Toluene | 4.8 | 0.67 | 1000 | 200 |
| 1,3,5 Trimethylbenzenes | 84 | 19 | ns | ns |
| 1,2,4 Trimethylbenzenes | 300 | 46 | ns | ns |
| Total Trimethylbenzenes | **384** | 65 | 480 | 96 |
| Xylenes, -m, -p | 150 | 3.4 | ns | ns |
| Xylene, -o | 34 | 9.1 | ns | ns |
| Total Xylenes | 184 | 12.5 | 10000 | 1000 |
| Naphthalene | na | **84** | 100 | 10 |
| PAHs | | | | |
| Acenaphthrene | <8000 | na | ns | ns |
| Acenaphthalyene | 1600 | na | ns | ns |
| Anthracene | <11000 | na | 3000 | 600 |
| Benzo(a)anthracene | <61 | na | ns | ns |
| Benzo(a)pyrene | <71 | na | 0.2 | 0.02 |
| Benzo(b)fluoranthene | <61 | na | 0.2 | 0.02 |
| Benzo(g,h,i)perylene | <75 | na | ns | ns |
| Benzo(k)fluoranthene | <75 | na | ns | ns |
| Indeno(1,2,3-cd)pyrene | <73 | na | ns | ns |
| Chrysene | <74 | na | 0.2 | 0.02 |
| Dibenzo(a,h)anthracene | <74 | na | ns | ns |
| Fluoranthene | **170** | na | 400 | 80 |
| Fluorene | <8800 | na | 400 | 80 |
| 2-Methylnaphthalene | 140000 | na | ns | ns |
| 1-Methylnaphthalene | 84000 | na | ns | ns |
| Naphthalene | **22000** | na | 100 | 10 |
| Phenanthrene | 23000 | na | ns | ns |
| Pyrene | **890** | na | 250 | 50 |

- All results are reported in ug/l
- na = not analyzed
- ns = no standard established
- All detected compounds are included in table
- NR140 PAL = Preventative action limit (exceedances bold)
- NR140 ES = Enforcement standard (exceedances shaded)




FILE/PATH: D:\PROJECTS\BENNETT\ Bennett-layout.cdr
DATE: 05/30/2006
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

| | | |
|---|---|---|
| SEYMOUR ENVIRONMENTAL SERVICES, INC. | SITE LAYOUT<br>H&H Pools and Spas<br>213 DeWitt Street<br>Portage, Wisconsin | FIGURE<br>1 |

Pace Analytical®
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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

COC No. 021494

# CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

| (Please Print Clearly) | |
|---|---|
| Company Name: | Seymour Env. |
| Branch/Location: | |
| Project Contact: | Robyn Seymour |
| Phone: | 608 838 9120 |
| Project Number: | |
| Project Name: | Coyote Transport |
| Project State: | Wisconsin |
| Sampled By (Print): | Robyn Seymour |
| Sampled By (Sign): | Robyn Seymour |
| PO #: | Regulatory Program: |

| | |
|---|---|
| Quote #: | |
| Mail To Contact: | Robyn Seymour |
| Mail To Company: | Seymour Env |
| Mail To Address: | |
| Invoice To Contact: | |
| Invoice To Company: | |
| Invoice To Address: | |
| Invoice To Phone: | |

**Data Package Options** (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

**MS/MSD**
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

**Matrix Codes**
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION DATE | COLLECTION TIME | MATRIX | Analyses Requested: BTEX | Analyses Requested: Naphthalene | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|
| 001 | 1 | 10/24 | 1320 | Soil | X | X | | 4 oz AG + C | |
| 002 | 2 | | 1330 | | X | X | | | |
| 003 | 3 | | 1390 | | X | X | | | |
| 004 | 4 | | 1348 | | X | X | | | |
| 005 | 5 | | 1400 | | X | X | | | |

FILTERED? (YES/NO) Y/N
PRESERVATION (CODE)* Pick Letter

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

| Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|
| Robyn Seymour | 10/25 | Dunham | 10/26/07 9:30 |
| Dunham | 10/26/07 9:30 | Lisa Waffo | 10/26/07 9:30 |
| | | | |
| | | | |
| | | | |

PACE Project No. 890171
Receipt Temp = N/A °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06 ORIGINAL