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November 20, 2018

BRRTS #: 02-68-215749
PECFA #: 53119-9998-14

Greg Michael
Wisconsin Department of Natural Resources
141 NW Barstow Street
Waukesha, WI 53188

Subject: Chapman Oil Bulk Plant– Letter Report

Dear Mr. Michael,

Enclosed is the Letter Report for the Chapman Oil Bulk Plant site located at 314 Wisconsin Street in Eagle, Wisconsin. **This completes the workscope approved by the WDNR on September 4, 2018.**

Soil Excavation/Disposal Project Workscope

On September 24-26, 2018, DKS Construction Services, Inc. of Menomonie, Wisconsin conducted a Soil Excavation Project under the supervision and direction of METCO personnel. During the excavation project, 1,024.16 tons of petroleum-contaminated soil was excavated and hauled to the Mallard Ridge Landfill in Delavan, Wisconsin.

Four separate areas (A, B, C, and D) were excavated during the excavation project. Area A was conducted near the former shed in the southwest corner of the property. This excavation area consisted of an irregular shape, as shown on the attached Soil Excavation Map. It measures up to 100 feet long x 55 feet wide x 4 feet deep. Area B was conducted to the northwest of the former AST systems in the northwest corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 35 feet long x 30 feet wide x 4 feet deep. Area C was conducted to the east of the former AST systems in the northeast corner of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 30 feet long x 22 feet wide x 4 feet deep. And Area D was conducted to the southeast of the former AST systems along the southeast boundary of the property. This excavation area consisted of a rectangular shape, as shown on the attached Soil Excavation Map. It measures approximately 27 feet long x 19 feet wide x 4 feet deep.

Six soil samples were collected from the sidewalls of excavation Area A for PAH analysis. Three samples were collected at approximately 1-foot bgs and three samples were collected at approximately 3 feet bgs. Soil sample results are presented in the attached soil analytical table.

Discussion of Soil Results

Soil Excavation sample EX-1: Collected at a depth of 1 foot bgs, showed Non-Industrial Direct Contact RCL exceedances for Benzo(a)pyrene (0.82 ppm), Benzo(b)fluoranthene (1.26 ppm), and Dibenzo(a,h)anthracene (0.116 ppm) as well as an NR720 Groundwater RCL exceedance for

Chrysene (0.94 ppm).

Soil Excavation sample EX-2: Collected at a depth of 3 feet bgs, showed detects but no exceedances for all contaminants of concern.

Soil Excavation sample EX-3: Collected at a depth of 1 foot bgs, showed no detects for all contaminants of concern.

Soil Excavation sample EX-4: Collected at a depth of 3 feet bgs, showed detects but no exceedances for all contaminants of concern.

Soil Excavation sample EX-5: Collected at a depth of 1 foot bgs, showed a Non-Industrial Direct Contact RCL exceedance for Benzo(a)pyrene (0.261 ppm) as well as an NR720 Groundwater RCL exceedance for Chrysene (0.281 ppm).

Soil Excavation sample EX-6: Collected at a depth of 3 feet bgs, showed a Non-Industrial Direct Contact RCL exceedance for Benzo(a)pyrene (0.48 ppm) as well as NR720 Groundwater RCL exceedances for Benzo(b)fluoranthene (0.73) and Chrysene (0.42 ppm).

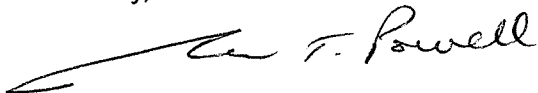
Conclusions/Recommendations

METCO recommends that this site be reviewed for the possibility of "closure" for the following reasons: 1) The extent and degree of petroleum contamination has been defined to a practical extent. 2) The majority of accessible contaminated soil has been removed on September 24-26, 2018 (1,024.16 tons). 3) There are currently no groundwater contamination exceedances. 4) Vapor intrusion is unlikely due to no on-site buildings being present. 5) The nearest municipal well is located approximately 475 feet to the northwest.

A Detailed Site Map, Soil Excavation Map, Soil Contamination Map, Data Tables, Waste Disposal Documents, Excavation Photos, and Laboratory Documents have been attached.

If you have any questions or comments, please feel free to call (608-781-8879) or email at jasonp@metcohq.com.

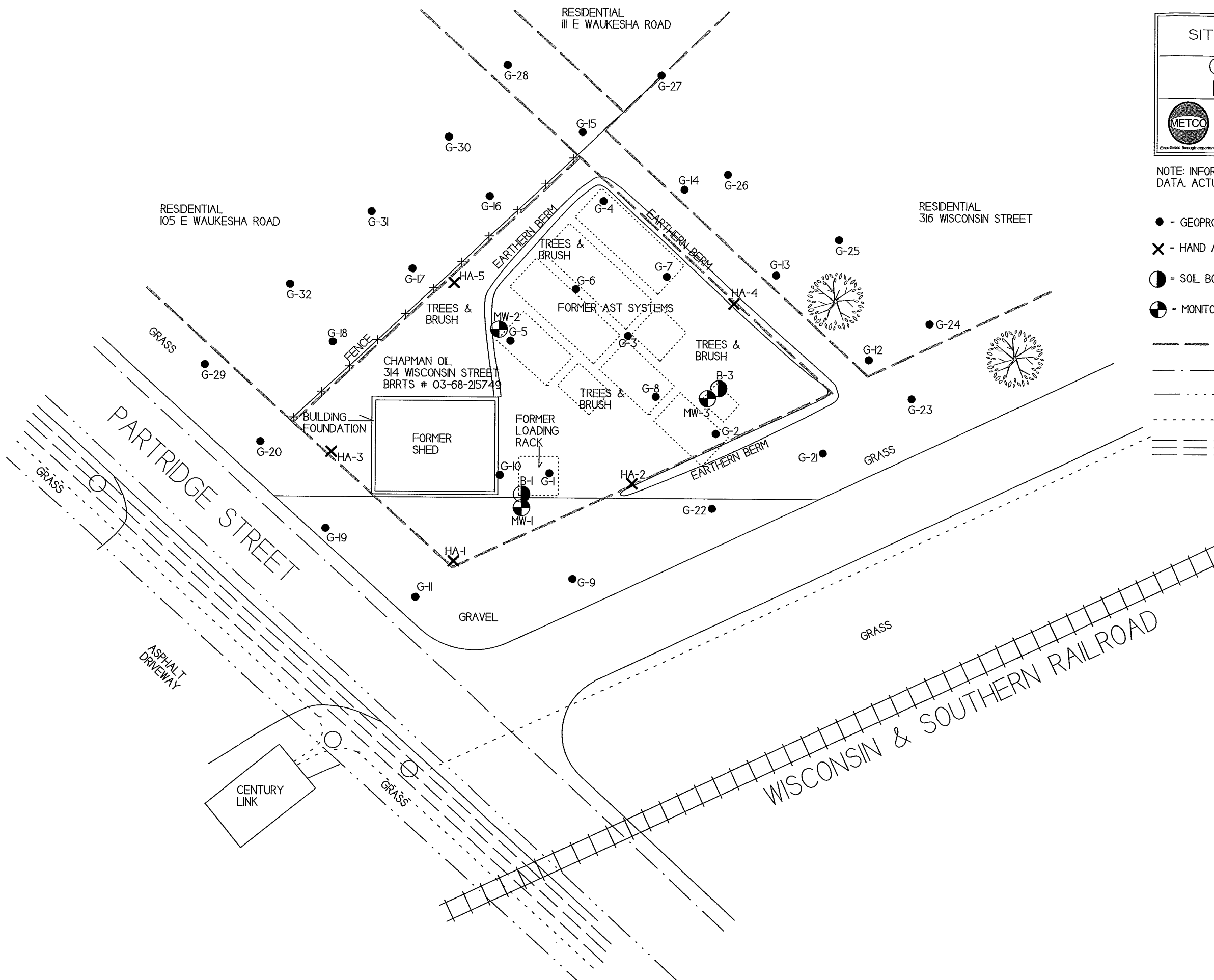
Sincerely,



Jason T. Powell
Staff Scientist

Attachments

c: Rob Chapman – Chapman Oil



SITE LAYOUT MAP

CHAPMAN OIL
BULK PLANT



709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
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Fax: (608) 781-8893

EAGLE,
WISCONSIN

DRAWN BY: BK

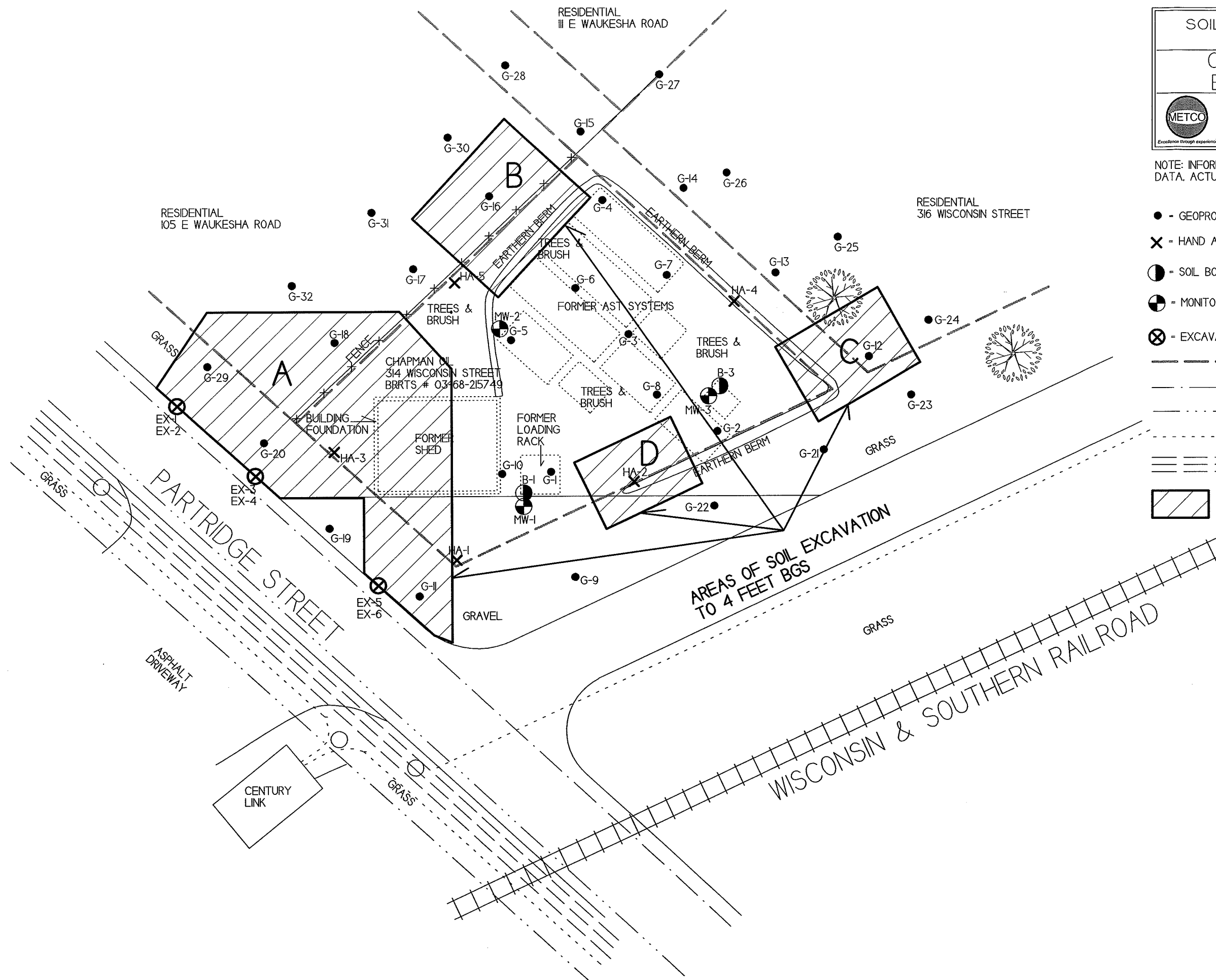
DATE: 03/22/2007

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SCALE:
1 INCH = 25 FEET

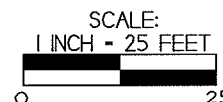
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- - GEOPROBE BORING LOCATION
- X - HAND AUGER BORING LOCATION
- - SOIL BORING LOCATION
- ⊗ - MONITORING WELL LOCATION
- - - - - PROPERTY BOUNDARY
- . - . - . WATER LINE
- - - - - STORM SEWER
- - - - - BURIED PHONE/FIBER OPTIC
- ===== OVERHEAD ELECTRIC



SOIL EXCAVATION MAP	
CHAPMAN OIL BULK PLANT	
 Excavation through experience	709 GILLETTE ST., STE. 3 LA CROSSE, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8883
EAGLE, WISCONSIN	
DRAWN BY: BK DATE: 03/22/2007	

NOTE: INFORMATION BASED ON AVAILABLE
DATA. ACTUAL CONDITIONS MAY DIFFER



- - GEOPROBE BORING LOCATION
- X - HAND AUGER BORING LOCATION
- - SOIL BORING LOCATION
- ⊗ - MONITORING WELL LOCATION
- ⊗ - EXCAVATION CONFIRMATION SAMPLE LOCATION
- — — — — - PROPERTY BOUNDARY
- — — — — - WATER LINE
- — — — — - STORM SEWER
- - - - - - BURIED PHONE/FIBER OPTIC
- ==== - OVERHEAD ELECTRIC
-  - AREA OF EXCAVATION

ESTIMATED EXTENT OF UNSATURATED
SOIL CONTAMINATION EXCEEDING
THE NR720 GROUNDWATER AND/OR
DIRECT CONTACT RCLs

RESIDENTIAL
III E WAUKESHA ROAD

SOIL CONTAMINATION
MAP

CHAPMAN OIL
BULK PLANT



709 GILLETTE ST., STE 3
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EAGLE,
WISCONSIN

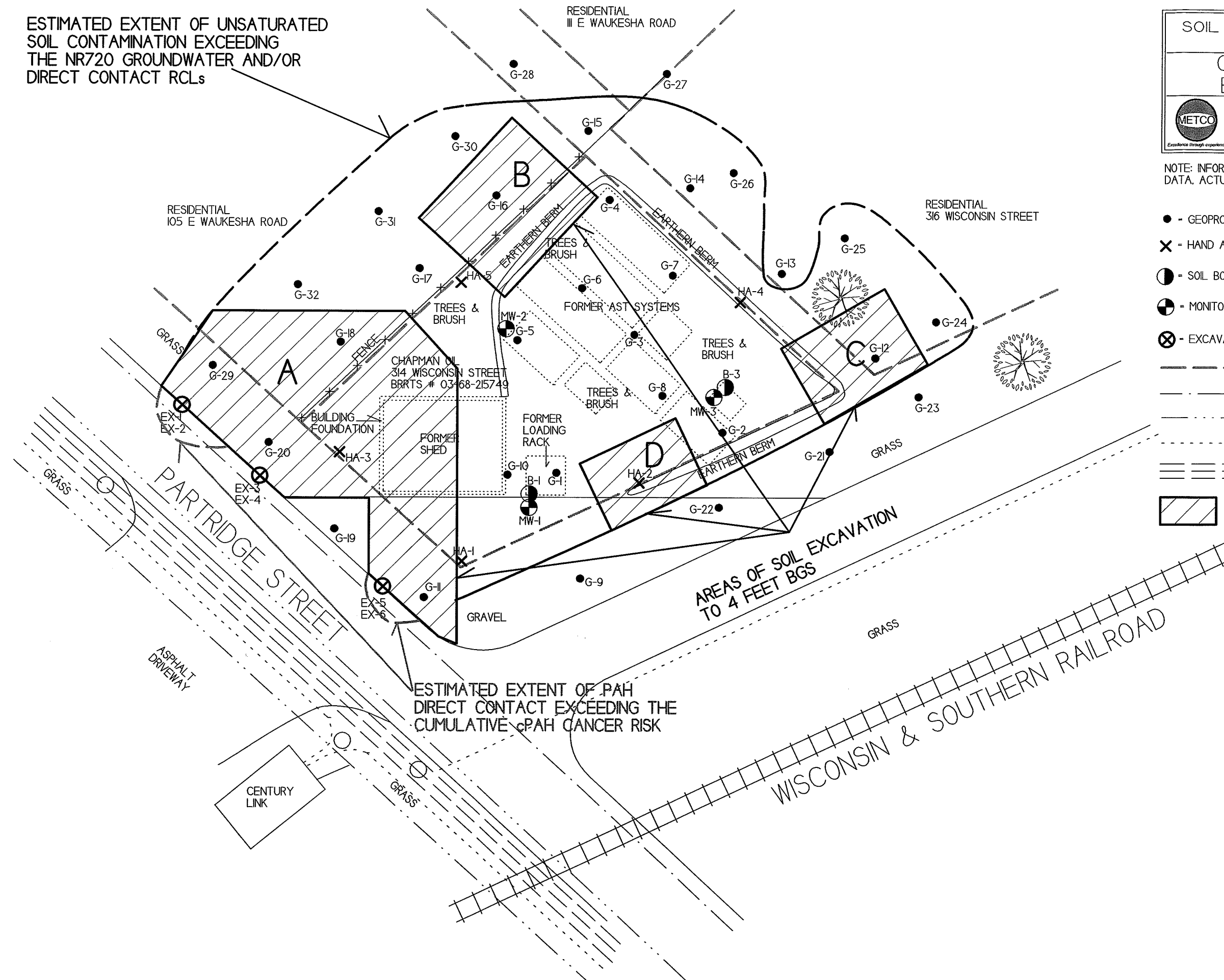
DRAWN BY: BK
DATE: 03/22/2007



NOTE: INFORMATION BASED ON AVAILABLE
DATA. ACTUAL CONDITIONS MAY DIFFER

SCALE:
1 INCH = 25 FEET
0 25

- - GEOPROBE BORING LOCATION
- ✕ - HAND AUGER BORING LOCATION
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- ⊕ - MONITORING WELL LOCATION
- ⊗ - EXCAVATION CONFIRMATION SAMPLE LOCATION
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- - - - - STORM SEWER
- - - - - BURIED PHONE/FIBER OPTIC
- === - OVERHEAD ELECTRIC
- ▨ - AREA OF EXCAVATION



A.2. Soil Analytical Results Table
(PAH)
Chapman Oil BRTS# 02-68-215749

																					DIRECT CONTACT PVOC & PAH COMBINED			
Sample	Depth (feet)	Saturation U/S	Date	Acenaph- thene (ppm)	Acenaph- thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naphthalene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	0.0296	<0.0221	<0.0224	<0.0231	0	0.0008	
G-2-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	0.032	0.0311	0.057	0.0298	<0.0216	0.041	<0.0223	0.038	<0.0222	0.0245	<0.0207	<0.0206	<0.0221	<0.0224	0.047	0	0.0018	3.7E-07
G-3-1	3.5	U	08/12/13	<21.8	<19.2	0.0294	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0		
G-4-1	3.5	U	08/12/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.2205	
G-5-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	0.0188	0.033	0.0284	<0.0216	0.0242	<0.0223	0.0293	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	0.0282	0	0.0011	1.9E-07
G-6-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.105	0.138	0.225	0.086	0.079	0.129	<0.0223	0.129	<0.0222	0.073	<0.0207	0.0289	<0.0221	0.047	0.131	1	0.3760	1.6E-06
G-7-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	0.0237	0.0247	0.033	<0.0216	0.0205	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.4913	2.3E-07
G-8-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0	0.1655	
G-9-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	<0.0229	<0.0174	<0.0196	<0.0227	<0.0216	<0.0181	<0.0223	<0.0211	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	<0.0231	0		
G-10-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.0284	0.0285	0.049	0.0269	0.0248	0.036	<0.0223	0.056	<0.0222	<0.0239	<0.0207	<0.0206	<0.0221	<0.0224	0.049	0	0.0017	3.2E-07
HA-1	1.5	U	08/12/14	<0.0211	<0.0195	<0.0185	0.038	0.050	0.082	0.067	0.037	0.051	<0.0224	0.081	<0.020	0.049	<0.0195	<0.0204	<0.0211	<0.0247	0.069	0	0.0029	5.9E-07
HA-2	1.5	U	08/12/14	0.032	0.037	0.089	0.330	0.400	0.620	0.350	0.252	0.450	0.068	0.960	0.033	0.288	<0.0195	<0.0204	<0.0211	0.500	0.750	1	0.0233	5.2E-06
HA-3	1.5	U	08/12/14	<0.0211	0.201	0.147	0.720	0.980	1.53	0.850	0.450	0.900	0.196	1.37	0.027	0.690	<0.0195	<0.0204	<0.0211	0.440	1.16	3	0.0563	1.3E-05
HA-4	1.5	U	08/12/14	<0.0211	0.0223	0.019	0.069	0.075	0.129	0.072	0.039	0.093	<0.0224	0.147	<0.020	0.056	<0.0195	0.0215	<0.0211	0.075	0.133	0	0.0052	8.8E-07
HA-5	1.5	U	08/12/14	<0.0211	<0.0195	0.045	0.119	0.112	0.176	0.084	0.071	0.150	<0.0224	0.289	<0.020	0.070	<0.0195	<0.0204	<0.0211	0.150	0.252	0	0.0066	1.3E-06
G-11-1	1.0	U	07/12/16	0.0215	0.266	0.273	1.27	1.38	1.86	1.02	0.66	1.47	0.229	2.29	0.034	1.02	<0.0143	<0.0119	<0.0122	0.74	2.09	4	0.0797	1.8E-05
G-11-2	3.5	U	07/12/16	<0.0135	0.069	0.06	0.36	0.42	0.58	0.36	0.237	0.43	0.063	0.69	<0.0135	0.33	<0.0143	<0.0119	<0.0122	0.156	0.61	1	0.0242	5.3E-06
G-12-1	1.0	U	07/12/16	0.017	0.116	0.142	0.67	0.99	1.5	1.0	0.50	0.92	0.186	1.55	0.0159	0.95	0.0145	0.0173	0.0164	0.34	1.35	3	0.0572	1.3E-05
G-12-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-13-1	1.0	U	07/12/16	<0.0135	<0.012	<0.0124	0.0284	0.026	0.041	0.0249	0.0262	0.034	<0.0142	0.055	<0.0135	0.0182	<0.0143	<0.0119	<0.0122	0.0138	0.051	0	0.0015	3.1E-07
G-13-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-14-1	1.0	U	07/12/16	<0.0135	0.069	0.049	0.41	0.33	0.46	0.233	0.161	0.43	0.051	0.66	<0.0135	0.221	0.05	0.052	0.0221	0.132	0.72	1	0.0196	4.3E-06
G-14-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-15-1	1.0	U	07/12/16	<0.0135	0.033	0.032	0.192	0.181	0.261	0.139	0.117	0.234	0.0152	0.38	<0.0135	0.128	0.029	0.0235	0.018	0.102	0.37	1	0.0107	2.2E-06
G-15-2	3.5	U	07/12/16	<0.0135	<0.012	<0.0124	<0.0116	<0.0113	<0.013	<0.0114	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126			
G-16-1	1.0	U	07/12/16	<0.0135	0.093	0.131	0.67	0.65	0.89	0.42	0.314	0.80	0.099	1.18	<0.0135	0.43	0.094	0.063	0.0193	0.34	1.04	1	0.0380	8.3E-06
G-16-2	3.5	U	07/12/16	<0.0135	0.065	0.073	0.410	0.440	0.610	0.309	0.271	0.520	0.070	0.780	<0.0135	0.301	0.0149	0.0151	<0.0122	0.135	0.680	1	0.0255	5.6E-06
G-17-1	1.0	U	07/12/16	<0.0135	0.0237	0.0233	0.134	0.166	0.217	0.13	0.104	0.196	0.0259	0.286	<0.0135	0.116	0.0189	0.0189	<0.0122	0.110	0.279	1	0.0097	2.1E-06
G-17-2	3.5	U	07/12/16	<0.0135	0.0214	0.028	0.123	0.146	0.196	0.112	0.080	0.180	0.0229	0.261	<0.0135	0.102	<0.0143	<0.0119	<0.0122	0.082	0.272	1	0.0085	1.8E-06
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790		1.00E+00	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
Soil Saturation Concentration (C-sat)*						---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance

Bold & Underline =Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Sampled

U = unsaturated (based on all time low water table per WDNR)

(ppm) = parts per million

S = saturated (based on all time low water table per WDNR)

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

A.2. Soil Analytical Results Table
(PAH)
Chapman Oil BRRTS# 02-68-215749

Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-18-1	1.0	U	07/12/16	<0.0135	0.048	0.078	0.360	0.440	0.66	0.380	0.255	0.510	0.071	0.840	<0.0135	0.340	0.0206	0.0244	<0.0122	0.215	0.720	1	0.0256	5.7E-06
G-18-2	3.5	U	07/12/16	<0.0135	0.034	0.042	0.239	0.271	0.390	0.226	0.182	0.330	0.043	0.510	<0.0135	0.201	<0.0143	<0.0119	<0.0122	0.125	0.450	1	0.0157	3.5E-06
G-19-1	1.0	U	07/12/16	<0.0135	0.046	0.045	0.272	0.340	0.480	0.286	0.209	0.390	0.059	0.60	<0.0135	0.260	<0.0143	<0.0119	<0.0122	0.119	0.50	1	0.0196	4.4E-06
G-19-2	3.5	U	07/12/16	<0.0135	0.09	0.041	0.179	0.254	0.360	0.233	0.133	0.245	0.046	0.301	<0.0135	0.212	<0.0143	<0.0119	<0.0122	0.069	0.288	1	0.0146	3.3E-06
G-20-1	1.0	U	07/12/16	0.108	0.450	0.740	2.23	(2.33)	3.02	1.72	0.990	2.54	0.390	4.30	0.146	1.73	<0.0143	<0.0119	0.0203	2.04	3.50	5	0.1359	3.0E-05
G-20-2	3.5	U	07/12/16	<0.0135	0.202	0.163	0.760	0.86	1.15	0.680	0.470	0.990	0.137	1.57	0.0184	0.640	<0.0143	<0.0119	<0.0122	0.460	1.40	2	0.0498	1.1E-05
G-21-1	1.0	U	07/12/16	<0.0135	<0.012	0.064	0.0137	<0.0113	0.0134	0.0261	<0.0117	<0.038	<0.0142	<0.0131	<0.0135	<0.015	<0.0143	<0.0119	<0.0122	<0.0109	<0.0126	0	0.0000	2.4E-08
G-21-2	3.5	U	07/12/16	<0.0135	0.216	0.244	0.025	0.0149	0.0283	0.146	0.0149	0.0214	0.0188	0.035	<0.0135	0.050	0.032	0.055	0.0281	0.042	0.037	0	0.0013	3.9E-07
G-22-1	1.0	U	07/12/16	<0.0135	0.0171	0.0204	0.037	0.037	0.057	0.057	0.0308	0.048	<0.0142	0.074	<0.0135	0.04	<0.0143	0.0135	<0.0122	0.0223	0.067	0	0.0022	4.4E-07
G-22-2	3.5	U	07/12/16	<0.0135	0.0164	0.0253	0.053	0.058	0.081	0.069	0.043	0.058	<0.0142	0.120	<0.0135	0.056	<0.0143	<0.0119	<0.0122	0.054	0.109	0	0.0034	6.3E-07
G-23-1	1.0	U	02/16/17	<0.0151	<0.0159	0.0176	0.04	0.045	0.088	0.054	0.033	0.041	<0.0078	0.082	<0.0179	0.041	<0.0203	<0.0113	<0.0153	0.0305	0.069	0	0.0026	5.4E-07
G-23-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-24-1	1.0	U	02/16/17	<0.0151	0.0172	0.035	0.127	0.141	0.263	0.121	0.077	0.148	0.0231	0.301	<0.0179	0.097	<0.0203	<0.0113	<0.0153	0.124	0.256	1	0.0082	1.9E-06
G-24-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-25-1	1.0	U	02/16/17	<0.0151	0.063	0.052	0.36	0.34	0.55	0.24	0.148	0.35	0.058	0.53	<0.0179	0.199	0.0217	0.0215	<0.0153	0.137	0.57	1	0.0197	4.4E-06
G-25-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0141	<0.0113	0.0097	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	2.1E-08
G-26-1	1.0	U	02/16/17	<0.0151	0.048	0.037	0.279	0.253	0.42	0.181	0.113	0.246	0.042	0.40	<0.0179	0.153	<0.0203	0.0215	<0.0153	0.105	0.43	1	0.0147	3.3E-06
G-26-2	3.5	U	02/16/17	<0.0151	0.0173	0.0153	0.098	0.083	0.141	0.059	0.035	0.083	0.0147	0.138	<0.0179	0.05	<0.0203	<0.0113	<0.0153	0.036	0.154	0	0.0048	1.1E-06
G-27-1	1.0	U	02/16/17	<0.0151	0.02	0.0174	0.085	0.081	0.128	0.061	0.034	0.077	0.0131	0.141	<0.0179	0.047	<0.0203	<0.0113	<0.0153	0.064	0.164	0	0.0047	1.0E-06
G-27-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-28-1	1.0	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0527	0.057	0.108	0.055	0.0266	0.054	0.0119	0.096	<0.0179	0.041	<0.0203	<0.0113	<0.0153	0.037	0.092	0	0.0033	7.8E-07
G-28-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0116	<0.0113	0.0078	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	1.7E-08
G-29-1	1.0	U	02/16/17	<0.0151	0.144	0.133	0.59	0.64	1.05	0.51	0.288	0.53	0.112	0.95	0.0292	0.44	<0.0203	<0.0113	<0.0153	0.40	0.86	1	0.0370	8.4E-06
G-29-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0127	<0.0113	0.0111	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0	0.0000	2.1E-08
G-30-1	1.0	U	02/16/17	<0.0151	0.0211	0.0278	0.147	0.135	0.242	0.097	0.063	0.127	0.0237	0.221	<0.0179	0.084	<0.0203	0.0195	<0.0153	0.101	0.205	1	0.0079	1.8E-06
G-30-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.074	0.065	0.124	0.05	0.0307	0.059	0.0137	0.099	<0.0179	0.044	<0.0203	<0.0113	<0.0153	0.043	0.094	0	0.0037	9.0E-07
G-31-1	1.0	U	02/16/17	<0.0151	0.0263	0.025	0.183	0.206	0.35	0.171	0.088	0.186	0.035	0.306	<0.0179	0.13	<0.0203	0.015	<0.0153	0.135	0.32	1	0.0119	2.7E-06
G-31-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	<0.0085	<0.0113	<0.0069	<0.0084	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-32-1	1.0	U	02/16/17	<0.0151	0.057	0.036	0.181	0.221	0.38	0.186	0.096	0.179	0.038	0.278	<0.0179	0.147	<0.0203	<0.0113	<0.0153	0.103	0.287	1	0.0127	2.9E-06
G-32-2	3.5	U	02/16/17	<0.0151	<0.0159	<0.0109	0.0219	0.02	0.037	0.0218	<0.0147	0.0142	<0.0078	0.0277	<0.0179	0.0175	<0.0203	<0.0113	<0.0153	<0.0111	0.0252	0	0.0011	2.4E-07
EX-1	1.0		09/25/18	0.058	0.0198	0.39	0.98	0.82	1.26	0.56	0.43	0.94	0.116	2.65	0.063	0.51	<0.0203	<0.0113	<0.0153	1.15	2.01	3	0.0485	1.10E-05
EX-2	3.0		09/25/18	<0.0151	<0.0159	<0.0109	0.0236	0.0162	0.0248	<0.0114	<0.0147	0.0158	<0.0078	0.0234	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	0.0222	0	0.0011	2.60E-07
EX-3	1.0		09/25/18	<0.0151	<0.0159	<0.0109	<0.016	<0.013	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
EX-4	3.0		09/25/18	<0.0151	0.0199	<0.0109	0.053	0.055	0.101	0.051	0.038	0.06	0.0092	0.081	<0.0179	0.038	<0.0203	<0.0113	<0.0153	0.0232	0.074	0	0.0033	7.30E-07
EX-5	1.0		09/25/18	<0.0151	0.037	0.037	0.233	0.261	0.41	0.204	0.158	0.281	0.045	0.50	<0.0179	0.175	<0.0203	<0.0113	<0.0153	0.107	0.42	1	0.0153	3.40E-06
EX-6	3.0		09/25/18	<																				

Bold = Groundwater RCL Exceedance
Bold & Underline =Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
VOC's = Volatile Organic Compounds

U = unsaturated (based on all time low water table per WDNR)
S = saturated (based on all time low water table per WDNR)

A.2. Soil Analytical Results Table
(cPAH)
Chapman Oil BRRTS# 02-68-215749

Sample	Depth (feet)	Saturation U/S	Date	Acenaph- thene (ppm)	Acenaph- thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl- naphthalene (ppm)	2-Methyl- naphthalene (ppm)	Naph- thalene (ppm)	Phenan- threne (ppm)	Pyrene (ppm)	DIRECT CONTACT PAH	
																						(Cumulative) cPAH Cancer Risk	Cumulative Hazard Index
G-6-1	3.5	U	08/13/13	<0.0218	<0.0192	<0.0195	0.105	0.138	0.225	0.086	0.079	0.129	<0.0223	0.129	<0.0222	0.073	<0.0207	0.0289	<0.0221	0.047	0.131	1.8E-06	0.0081
HA-2	1.5	U	08/12/14	0.032	0.037	0.089	0.330	0.400	0.620	0.350	0.252	0.450	0.068	0.960	0.033	0.288	<0.0195	<0.0204	<0.0211	0.500	0.750	5.2E-06	0.0235
G-11-2	3.5	U	07/12/16	<0.0135	0.069	0.06	0.36	0.42	0.58	0.36	0.237	0.43	0.063	0.69	<0.0135	0.33	<0.0143	<0.0119	<0.0122	0.156	0.61	5.3E-06	0.0244
G-12-1	1.0	U	07/12/16	0.017	0.116	0.142	0.67	0.99	1.5	1.0	0.50	0.92	0.186	1.55	0.0159	0.95	0.0145	0.0173	0.0164	0.34	1.35	1.3E-05	0.0572
G-14-1	1.0	U	07/12/16	<0.0135	0.069	0.049	0.41	0.33	0.46	0.233	0.161	0.43	0.051	0.66	<0.0135	0.221	0.05	0.052	0.0221	0.132	0.72	4.3E-06	0.0196
G-15-1	1.0	U	07/12/16	<0.0135	0.033	0.032	0.192	0.181	0.261	0.139	0.117	0.234	0.0152	0.38	<0.0135	0.128	0.029	0.0235	0.018	0.102	0.37	2.2E-06	0.0108
G-16-2	3.5	U	07/12/16	<0.0135	0.065	0.073	0.410	0.440	0.610	0.309	0.271	0.520	0.070	0.780	<0.0135	0.301	0.0149	0.0151	<0.0122	0.135	0.680	5.6E-06	0.0256
G-17-1	1.0	U	07/12/16	<0.0135	0.0237	0.0233	0.134	0.166	0.217	0.13	0.104	0.196	0.0259	0.286	<0.0135	0.116	0.0189	0.0189	<0.0122	0.110	0.279	2.1E-06	0.0098
G-17-2	3.5	U	07/12/16	<0.0135	0.0214	0.028	0.123	0.146	0.196	0.112	0.080	0.180	0.0229	0.261	<0.0135	0.102	<0.0143	<0.0119	<0.0122	0.082	0.272	1.8E-06	0.0086
G-18-1	1.0	U	07/12/16	<0.0135	0.048	0.078	0.360	0.440	0.66	0.380	0.255	0.510	0.071	0.840	<0.0135	0.340	0.0206	0.0244	<0.0122	0.215	0.720	5.7E-06	0.0254
G-18-2	3.5	U	07/12/16	<0.0135	0.034	0.042	0.239	0.271	0.390	0.226	0.182	0.330	0.043	0.510	<0.0135	0.201	<0.0143	<0.0119	<0.0122	0.125	0.450	3.5E-06	0.0164
G-19-1	1.0	U	07/12/16	<0.0135	0.046	0.045	0.272	0.340	0.480	0.286	0.209	0.390	0.059	0.60	<0.0135	0.260	<0.0143	<0.0119	<0.0122	0.119	0.50	4.4E-06	0.0204
G-19-2	3.5	U	07/12/16	<0.0135	0.09	0.041	0.179	0.254	0.360	0.233	0.133	0.245	0.046	0.301	<0.0135	0.212	<0.0143	<0.0119	<0.0122	0.069	0.288	3.3E-06	0.0154
G-20-1	1.0	U	07/12/16	0.108	0.450	0.740	2.23	(2.33)	3.02	1.72	0.990	2.54	0.390	4.30	0.146	1.73	<0.0143	<0.0119	0.0203	2.04	3.50	3.0E-05	0.135
G-20-2	3.5	U	07/12/16	<0.0135	0.202	0.163	0.760	0.86	1.15	0.680	0.470	0.990	0.137	1.57	0.0184	0.640	<0.0143	<0.0119	<0.0122	0.460	1.40	1.0E-05	0.0499
G-24-1	1.0	U	02/16/17	<0.0151	0.0172	0.035	0.127	0.141	0.263	0.121	0.077	0.148	0.0231	0.301	<0.0179	0.097	<0.0203	<0.0113	<0.0153	0.124	0.256	1.9E-06	0.0091
G-25-1	1.0	U	02/16/17	<0.0151	0.063	0.052	0.36	0.34	0.55	0.24	0.148	0.35	0.058	0.53	<0.0179	0.199	0.0217	0.0215	<0.0153	0.137	0.57	4.4E-06	0.0206
G-26-1	1.0	U	02/16/17	<0.0151	0.048	0.037	0.279	0.253	0.42	0.181	0.113	0.246	0.042	0.40	<0.0179	0.153	<0.0203	0.0215	<0.0153	0.105	0.43	3.3E-06	0.0156
G-29-1	1.0	U	02/16/17	<0.0151	0.144	0.133	0.59	0.64	1.05	0.51	0.288	0.53	0.112	0.95	0.0292	0.44	<0.0203	<0.0113	<0.0153	0.40	0.86	8.4E-06	0.0369
G-30-1	1.0	U	02/16/17	<0.0151	0.0211	0.0278	0.147	0.135	0.242	0.097	0.063	0.127	0.0237	0.221	<0.0179	0.084	<0.0203	0.0195	<0.0153	0.101	0.205	1.8E-06	0.0088
G-31-1	1.0	U	02/16/17	<0.0151	0.0263	0.025	0.183	0.206	0.35	0.171	0.088	0.186	0.035	0.306	<0.0179	0.13	<0.0203	0.015	<0.0153	0.135	0.32	2.7E-06	0.0128
G-32-1	1.0	U	02/16/17	<0.0151	0.057	0.036	0.181	0.221	0.38	0.186	0.096	0.179	0.038	0.278	<0.0179	0.147	<0.0203	<0.0113	<0.0153	0.103	0.287	2.9E-06	0.0136
EX-1	1.0		09/25/18	0.058	0.0198	0.39	0.98	0.82	1.26	0.56	0.43	0.94	0.116	2.65	0.063	0.51	<0.0203	<0.0113	<0.0153	1.15	2.01	1.10E-05	0.0485
EX-6	3.0		09/25/18	<0.0151	0.108	0.067	0.37	0.48	0.73	0.41	0.261	0.42	0.087	0.67	<0.0179	0.36	<0.0203	<0.0113	<0.0153	0.148	0.59	6.2E-06	0.0277
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	---	0.6582	---	54.5		
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790	5.00E-06	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)		
Soil Saturation Concentration (C-sat)*						---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		

Bold = Groundwater RCL Exceedance

Bold & Underline =Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

NS = Not Sampled

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

U = unsaturated (based on all time low water table per WDNR)

S = saturated (based on all time low water table per WDNR)

NR 722 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS #:	02-68-215749 Chapman Oil EX-1 1.0'	# of Soil-Concentration Entries:	18	(Cumulative) cPAH Cancer Risk	1.1E-05	Number of Individual Exceedance	0	(Cumulative) Hazard Index	0.0485	(Cumulative) Cancer Risk	1.1E-05
Bottom-Line:											NOI This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

Date of Entry: 10/12/2018. List below only has contaminants with data.
Date of Worksheet Used: 03/14/2017.

[illegible]

NR 722 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS #:	# of Soil-Concentration Entries:	18	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-68-215749 Chapman Oil EX-2 3.0'			2.6E-07	0	0.0011	2.7E-07
Bottom-Line:			Yes, levels are below direct-contact concern.			

Date of Entry: 10/12/2018. List below only has contaminants with data.
Date of Worksheet Used: 03/14/2017.

[illegible]

NR 722 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS # :	# of Soil-Concentration Entries: 18	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-68-215749 Chapman Oil EX-4 3.0'		7.3E-07	0	0.0033	7.3E-07
	Bottom-Line:	Yes, levels are below direct-contact concern.			

Date of Entry: 10/12/2018. List below only has contaminants with data.
Date of Worksheet Used: 03/14/2017.

[illegible]

NR 722 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs)

BRRTS #: 02-68-215749 Chapman Oil EX-5 1.0'	# of Soil-Concentration Entries:	18	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
			3.4E-06	0	0.0153	3.4E-06
	Bottom-Line:		Yes, levels are below direct-contact concern.			

Date of Entry: 10/12/2018 List below only has contaminants with data.
Date of Worksheet Used: 03/14/2017.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not To Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag = Individual Exceedance	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0153			0.0001	2.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.281	2.27E-08	cPAH	0.0147	2.3E-08
Acenaphthene	83-32-8	3,590.	-	3,590.	nc		0.0151			0	
Acenaphthylene	208-96-8	-	-	-			0.037				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.037			0	
Benzo[a]anthracene	56-56-3	-	1.14	1.14	ca		0.233	2.04E-07	cPAH		2.0E-07
Benzo[b]fluoranthene	205-98-2	-	1.15	1.15	ca		0.41	3.57E-07	cPAH		3.6E-07
Benzo[a,h]perylene	191-24-2	-	-	-			0.204				
Benzo[k]fluoranthene	207-08-6	-	11.5	11.5	ca		0.158	1.07E-08	cPAH		1.4E-08
Chrysene	218-01-6	-	115	115	ca		0.281	2.44E-09	cPAH		2.4E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.045	3.91E-07	cPAH		3.9E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.5			0.0002	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0179			0	
Indeno[1,2,3-cd]pyrene	183-39-5	-	1.15	1.15	ca		0.175	1.62E-07	cPAH		1.6E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0203			0	1.2E-09
Methylnaphthalene, 2-	91-57-5	239.	-	239.	nc		0.0113			0	
Phenanthrene	85-01-8	-	-	-			0.107				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.42			0.0002	

NR 722 Direct-Contact **Exceedance** - **Hazard** - **Risk** Calculation Summary from Soil Data (Exclusive Cumulative-only Assessment of cPAHs;

BRRTS #:	# of Soil-Concentration Entries:	17	(Cumulative) cPAH Cancer Risk	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-68-215749 Chapman Oil EX-6 3.0'			6.2E-06	0	0.0277	6.2E-06
	Bottom-Line:	NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.				

Date of Entry: 10/12/2018. List below only has contaminants with data.
Date of Worksheet Used: 03/14/2017.

Contaminant	CAS Number	NCRL (mg/kg)	CRCL (mg/kg)	NCRL Exceed D-CRCL (mg/kg)	Basis	STV (mg/kg)	INPUTTED Site Data (mg/kg)	cPAH Cancer Risk from Data	Flag E = Individual Exceedance?	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0153			0.0001	2.8E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.48	4.17E-08	cPAH	0.027	4.2E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.0151			0.	
Acenaphthylene	208-96-8	-	-				0.108				
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.067			0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.37	3.25E-07	cPAH		3.2E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.73	6.35E-07	cPAH		6.3E-07
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.261	2.27E-08	cPAH		2.3E-08
Chrysene	218-01-9	-	115.	115.	ca		0.42	3.65E-09	cPAH		3.7E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.087	7.67E-07	cPAH		7.6E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.67			0.0003	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0179			0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.36	3.13E-07	cPAH		3.1E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.0203			0.	1.2E-08
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0113			0.	
Phenanthrene	85-01-8	-	-				0.148				
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.59			0.0003	

Invoice

DKS CONSTRUCTION SERVICES, INC

2520 WILSON STREET
MENOMONIE, WI 54751

Date	Invoice #
9/26/2018	3569

Bill To

METCO
In Care of Rob Chapman
709 GILLETTE ST
LACROSSE, WI 54603

P.O. No.	Terms	Due Date	Project
	Net 30	10/26/2018	

Quantity	Description	Rate	Amount
1	Mobilization	3,500.00	3,500.00
1	Grub out trees and brush	4,650.00	4,650.00
1,024.16	Excavation	5.00	5,120.80
1,024.16	Hauling	16.00	16,386.56
1,024.16	Soil Disposal	37.50	38,406.00
1,024.16	Fill	10.00	7,891.60
789.16	Gravel	20.00	440.00
22	Top Soil	25.00	5,325.00
213	Backfill & Compaction	3.25	3,328.52
1,024.16	Seed & E Mat	2,700.00	2,700.00
1	Remove and Replace Wood Fence	1,800.00	1,800.00
1	Remove and Replace Chain Link Fence	1,800.00	1,800.00
	Jobsite: Chapman Oil, Eagle WI WI & Dunn Sales Tax	5.50%	0.00
<i>Excavation/Disposal Project Reviewed 9/27/18 OK</i>			
Total			\$91,348.48

Phone #

715-235-2600

Total

\$91,348.48

A 1.5% Interest fee may be charged to invoices past Due Date stated on the invoice. Interest charges may be billed on first day past Due Date on invoice.

Looking northwest at Excavation Area A



Looking north at Excavation Area A



Looking south at Excavation Area A



Looking east at Excavation Area A



Looking northeast at Excavation Area B



Looking south at Excavation Area B



Looking northwest at Excavation Area C



Looking northeast at Excavation Area C



Looking northeast at Excavation Area D



Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

ROB CHAPMAN
ROB CHAPMAN
W344 S945 JERICHO DRIVE
EAGLE, WI 53119

Report Date 09-Oct-18

Project Name CHAPMAN OIL BULK PLANT
Project #

Invoice # E35282

Lab Code 5035282A
Sample ID EX-1
Sample Matrix Soil
Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.058	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	0.0198 "J"	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	0.39	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	0.98	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	0.82	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	1.26	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	0.56	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	0.43	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	0.94	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	0.116	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	2.65	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	0.063	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.51	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	1.15	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	2.01	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

Project Name CHAPMAN OIL BULK PLANT
Project #

Invoice # E35282

Lab Code 5035282B
Sample ID EX-2
Sample Matrix Soil
Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.2	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	0.0236 "J"	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	0.0162 "J"	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	0.0248 "J"	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	0.0158 "J"	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	0.0234 "J"	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	0.0222 "J"	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

Project Name CHAPMAN OIL BULK PLANT
Project #

Invoice # E35282

Lab Code 5035282C
Sample ID EX-3
Sample Matrix Soil
Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.4	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	< 0.016	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	< 0.013	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

Project Name CHAPMAN OIL BULK PLANT

Invoice # E35282

Project

Lab Code 5035282D

Sample ID EX-4

Sample Matrix Soil

Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	0.0199 "J"	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	0.053	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	0.055	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	0.101	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	0.051	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	0.038 "J"	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	0.06	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	0.0092 "J"	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	0.081	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.038	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	0.0232 "J"	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	0.074	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

Project Name CHAPMAN OIL BULK PLANT

Invoice # E35282

Project #

Lab Code 5035282E

Sample ID EX-5

Sample Matrix Soil

Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.5	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	0.037 "J"	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	0.037	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	0.233	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	0.261	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	0.41	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	0.204	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	0.158	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	0.281	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	0.045	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	0.50	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.175	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	0.107	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	0.42	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

Project Name CHAPMAN OIL BULK PLANT

Invoice # E35282

Project

Lab Code 5035282F

Sample ID EX-6

Sample Matrix Soil

Sample Date 9/25/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.6	%			1	5021		10/2/2018	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/4/2018	10/6/2018	NJC	1
Acenaphthylene	0.108	mg/kg	0.0159	0.0508	1	M8270C	10/4/2018	10/6/2018	NJC	1
Anthracene	0.067	mg/kg	0.0109	0.0345	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)anthracene	0.37	mg/kg	0.016	0.053	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(a)pyrene	0.48	mg/kg	0.013	0.042	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(b)fluoranthene	0.73	mg/kg	0.013	0.041	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(g,h,i)perylene	0.41	mg/kg	0.0114	0.036	1	M8270C	10/4/2018	10/6/2018	NJC	1
Benzo(k)fluoranthene	0.261	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Chrysene	0.42	mg/kg	0.0121	0.0383	1	M8270C	10/4/2018	10/6/2018	NJC	1
Dibenzo(a,h)anthracene	0.087	mg/kg	0.0078	0.0251	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluoranthene	0.67	mg/kg	0.0147	0.0469	1	M8270C	10/4/2018	10/6/2018	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/4/2018	10/6/2018	NJC	1
Indeno(1,2,3-cd)pyrene	0.36	mg/kg	0.0114	0.0362	1	M8270C	10/4/2018	10/6/2018	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/4/2018	10/6/2018	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/4/2018	10/6/2018	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/4/2018	10/6/2018	NJC	1
Phenanthrene	0.148	mg/kg	0.0111	0.0352	1	M8270C	10/4/2018	10/6/2018	NJC	1
Pyrene	0.59	mg/kg	0.0153	0.0487	1	M8270C	10/4/2018	10/6/2018	NJC	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

Lab ID #	
Account No.:	Quote No.:
Project #:	
Sampler: (signature) <i>T. Powell</i>	

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

☒ Normal Turn Around

Project (Name / Location): *Chapman Oil Bulk Plant - Eagle, WI*

Reports To: *Rob Chapman* Invoice To: *Rob Chapman*

Company: *Chapman Oil Bulk Inc.* Company: *c/o METCO*

Address: *W344 S9450 Jericho Dr* Address: *709 Gillette St, Ste #3*

City State Zip: *Eagle, WI 53119* City State Zip: *La Crosse WI, 54603*

Phone: Phone:

FAX: FAX:

Analysis Requested

Other Analysis

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-PCRA METALS	PID/FID
5035282-A	EX-1	9/24/18			✓		1	S	None						✓									
B	EX-2	9/24/18			↓		↓	↓	↓						✓									
C	EX-3	11/20/18			↓		↓	↓	↓						✓									
D	EX-4	11/30/18			↓		↓	↓	↓						✓									
E	EX-5	4/20/19			↓		↓	↓	↓						✓									
F	EX-6	4/25/19			↓		↓	↓	↓						✓									

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*Note to Lab: Copies of report to METCO/LAX Attn: Jason.
w/c Rates Apply
"Agent Status"*

Sample Integrity - To be completed by receiving lab.

Method of Shipment: *GC*

Temp. of Temp. Blank: _____ °C On Ice: ☒

Cooler seal intact upon receipt: ☒ Yes ☐ No

Relinquished By: (sign)

Time

Date

Received By: (sign)

Time

Date

Received in Laboratory By:

Time:

Date: *9/29/18*