TVB

Seneca Companies

The Complete Solution

BRANCH ADDRESS
7241 Gaines Street Court
Davenport, IA 52806-1353
Phone: 563-332- 8000
Toll-Free: 800-728-6900
Fax: 563-332-9465

CORPORATE HEADQUARTERS
4140 E. 14th Street
Des Moines, IA 50313-3804
Toll-Free: 800-369-5500

April 2, 2018

RECEIVED
APR 06 2018

James Gastineau
IUST Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, Iowa 50265

Subject: Data Transmittal
USTCA 1104-01: State of Iowa Closure Contract Project
HM Minimart, 101 East Mayne Street, Blue Grass, IA
Registration No. 8603857 LUST No. 7LTS81

Dear Mr. Gastineau:

Seneca Environmental Services is pleased to submit this data transmittal presenting the results of the most recent groundwater sampling event. The purpose of this sampling event was to collect current data prior to completing additional plume closure. On February 27, 2018 all existing monitoring wells were sampled. Groundwater concentrations decreased to remain stable throughout the site except for MW8. Seneca recommends completing a revised Tier 2 using the on-line application. Prior to remodeling it will be determined if MW11 or MW12 will need to be replaced per DNR, as they are down gradient of MW8.

We have appreciated the opportunity to provide you professional environmental services. If you have any questions or concerns, please feel free to contact me at 563-332-8000 or Tfelderman@senecaco.com.

Sincerely,
Seneca Environmental Services

Todd Felderman, IGWP 2044
Project Manager

Attachments

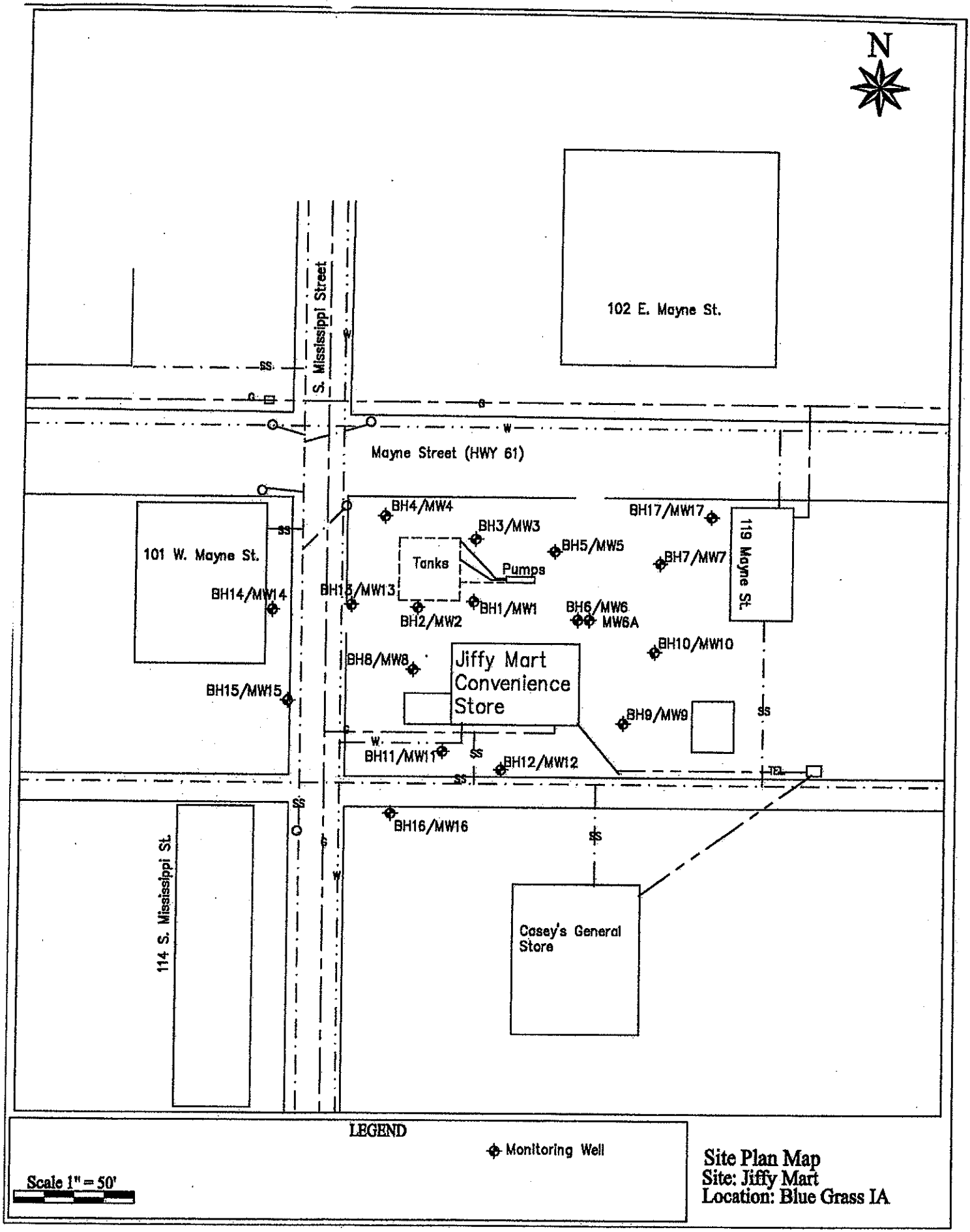
cc: Tammy Vander Bloemen, IDNR LUST Section
SES file # 6358300

Tier 2 Groundwater Analytical Data (ug/L), V-3.00, 7LTS81

Boring/ Well #	Date Sampled	Elevations(ASL)				Group 1				Group 2			FP	FP
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO	Naph.	Type	Default?
MW1	08/27/1990	N	N	N	N	<1.	<1.	<1.	<3.	N	N	N	N	N
MW1	10/15/1993	N	N	N	N	<1.	<1.	<1.	<1.	N	N	N	N	N
MW1	05/28/1998	N	N	N	N	<0.2	<0.2	<0.3	<0.9	N	N	N	N	N
MW2	08/27/1990	N	N	N	N	70.	20.	<1.	30.	N	N	N	N	N
MW2	10/15/1993	N	N	N	N	99.	18.	240.	173.	N	N	N	N	N
MW2	05/28/1998	N	N	N	N	1.2	<0.4	<0.6	<1.8	N	N	N	N	N
MW3	08/27/1990	N	N	N	N	70.	20.	<1.	50.	N	N	N	N	N
MW3	10/15/1993	N	N	N	N	40.	7.	22.	22.	N	N	N	N	N
MW3	03/20/2009	N	N	N	N	172.	351.	806.	10,700.	N	N	N	N	N
MW4	03/31/1993	797.80	N	794.80	792.31	<1.	<1.	<1.	<1.	N	N	N	N	N
MW4	03/20/2009	797.80	N	794.80	792.25	1,900.	13,800.	6,600.	48,800.	N	N	N	N	N
MW4	05/29/2013	797.80	N	794.80	N	504.	11,500.	4,100.	26,500.	N	N	N	N	N
GW-1 (MW4)	01/18/2018	797.80	N	794.80	N	~~72.4~~	~~1,590.~~	~~1,270.~~	~~6,590.~~	~~N~~	~~N~~	~~N~~	~~N~~	N
MW4	02/27/2018	797.80	N	794.80	792.29	55.5	970.	1,530.	7,800.	N	N	N	N	N
MW5	03/31/1993	798.50	N	795.50	793.60	<1.	<1.	<1.	<1.	N	N	N	N	N
MW5	05/23/2002	798.50	N	795.50	793.60	<2.	<2.	<2.	<2.	N	N	N	N	N
MW5	03/20/2009	798.50	N	795.50	794.50	2.1	12.	196.	199.	N	N	N	N	N
MW5	05/29/2013	798.50	N	795.50	N	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW5	02/27/2018	798.50	N	795.50	793.65	<0.5	1.05	28.7	86.4	N	N	N	N	N
MW6	03/31/1993	798.70	N	793.70	793.03	36.	13.	16.	53.	N	N	N	N	N
MW6	05/02/1996	798.70	N	793.70	N	3,700.	110.	650.	1,800.	N	N	N	N	N
MW6	06/06/1997	798.70	N	793.70	N	3,600.	45.	970.	1,500.	N	N	N	N	N
MW6	05/28/1998	798.70	N	793.70	N	1,600.	6.	520.	1,000.	N	N	N	N	N
MW6	01/19/1999	798.70	N	793.70	792.15	2,600.	<20.	1,100.	2,800.	N	N	N	N	N
MW6	08/23/2002	798.70	N	793.70	792.56	1,800.	<2.	1,300.	2,200.	N	N	N	N	N
MW6	03/20/2009	798.70	N	793.70	793.27	18.9	<1.	64.5	127.	N	N	N	N	N
MW6	05/29/2013	798.70	N	793.70	N	<0.5	<1.	2.21	<3.	N	N	N	N	N
MW6A	02/27/2018	798.70	N	793.70	793.52	7.63	<1.	434.	378.	N	N	N	N	N
MW7	03/31/1993	798.80	N	793.50	793.87	<5.	<5.	430.	78.	N	N	N	N	N
MW7	03/20/2009	798.80	N	793.50	793.06	<1.	<1.	<1.	<3.	N	N	N	N	N
MW7	02/27/2018	798.80	N	793.50	793.68	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW8	03/31/1993	797.50	N	794.10	791.37	19.	2.	110.	82.	N	N	N	N	N
MW8	02/27/2018	797.50	N	794.10	791.52	1,470.	11.5	150.	107.	N	N	N	N	N
MW9	04/06/1993	798.00	N	794.10	792.40	<1.	<1.	<1.	<1.	N	N	N	N	N
MW9	02/27/2018	798.00	N	794.10	791.97	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW10	04/06/1993	798.40	N	795.10	793.04	<1.	<1.	<1.	<1.	N	N	N	N	N
MW10	02/27/2018	798.40	N	795.10	792.60	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW11	04/06/1993	795.00	N	791.80	790.48	3.	3.	2.	5.	N	N	N	N	N

Tier 2 Groundwater Analytical Data (ug/L), V-3.00, 7LTS81

Boring/ Well #	Date Sampled	Elevations(ASL)				Group 1				Group 2			FP	FP
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO	Naph.	Type	Default?
MW12	04/06/1993	796.50	N	793.30	791.26	<1.	<1.	<1.	2.	N	N	N	N	N
MW13	04/06/1993	796.10	N	792.80	791.11	840.	720.	500.	4,080.	N	N	N	N	N
MW13	05/29/2013	796.10	N	792.80	N	556.	25,600.	3,340.	129,000.	N	N	N	N	N
MW13	02/27/2018	796.10	N	792.80	792.24	234.	5,040.	2,410.	25,500.	N	N	N	N	N
MW14	04/06/1993	796.00	N	792.60	790.05	<1.	<1.	<1.	<1.	N	N	N	N	N
MW14	05/02/1996	796.00	N	792.60	N	<2.	<2.	<2.	2.2	N	N	N	N	N
MW14	06/06/1997	796.00	N	792.60	N	<2.	<2.	<2.	<3.	N	N	N	N	N
MW14	05/28/1998	796.00	N	792.60	N	<0.2	<0.2	<0.3	<0.9	N	N	N	N	N
MW15	04/06/1993	794.80	N	791.50	789.84	<1.	<1.	<1.	<1.	N	N	N	N	N
MW15	05/02/1996	794.80	N	791.50	N	<2.	<2.	<2.	<2.	N	N	N	N	N
MW15	06/06/1997	794.80	N	791.50	N	<2.	<2.	<2.	<3.	N	N	N	N	N
MW15	05/28/1998	794.80	N	791.50	N	<2.	<2.	<0.3	<0.9	N	N	N	N	N
MW16	04/06/1993	794.10	N	790.90	789.31	<1.	<1.	<1.	<1.	N	N	N	N	N
MW17	04/06/1993	799.70	N	796.40	794.18	5.	9.	<1.	15.	N	N	N	N	N
MW17	02/27/2018	799.70	N	796.40	793.93	<0.5	<1.	<1.	<3.	N	N	N	N	N


N
102 E. Mayne St.
S. Mississippi Street
Mayne Street (HWY 61)
101 W. Mayne St.
119 Mayne St.
114 S. Mississippi St.
Tanks
Pumps
BH1/MW1
BH2/MW2
BH3/MW3
BH4/MW4
BH5/MW5
BH6/MW6
MW6A
BH7/MW7
BH8/MW8
BH9/MW9
BH10/MW10
BH11/MW11
BH12/MW12
BH13/MW13
BH14/MW14
BH15/MW15
BH16/MW16
BH17/MW17
Jiffy Mart Convenience Store
Casey's General Store
LEGEND
Monitoring Well
Scale 1" = 50'
Site Plan Map
Site: Jiffy Mart
Location: Blue Grass IA

Correspondence

Vander Bloemen, Tammy <tammy.vander_bloemen@dnr.iowa.gov>

RE: USTCA Closure Contract 1104-01: HM Minimart, 8603857, 7LTS81

1 message

Todd Felderman <TFelderman@senecaco.com> Tue, Apr 3, 2018 at 1:33 PM
To: "Vander Bloemen, Tammy" <tammy.vander_bloemen@dnr.iowa.gov>
Cc: "James Gastineau (james.gastineau@aon.com)" <james.gastineau@aon.com>, Leslie Nagel <lnagel@senecaco.com>

Ok,

Also I have contacted the City of Blue Grass and Iowa American who owns the water system now and neither party identified any PE/PB/AC lines or PVC/gasketed service lines within 200' of the groundwater source. They don't know the water main gaskets so we have to assume receptor.

Todd

Seneca

From: Vander Bloemen, Tammy <tammy.vander_bloemen@dnr.iowa.gov>
Sent: Tuesday, April 3, 2018 1:29 PM
To: Todd Felderman <TFelderman@senecaco.com>
Cc: James Gastineau (james.gastineau@aon.com) <james.gastineau@aon.com>; Leslie Nagel <lnagel@senecaco.com>
Subject: Re: USTCA Closure Contract 1104-01: HM Minimart, 8603857, 7LTS81

Todd,

Monitoring wells MW11 and MW12 should be reinstalled and sampled. MW8 was last sampled in 1993 with MW11 and MW12 and MW8 increased from 19 ppb benzene to 1470 ppb. There are drinking water wells within 1000 ft and PE/PB/AC water lines are unknown at this time.

Tammy Vander Bloemen | Environmental Specialist, Sr.
Iowa Department of Natural Resources
P 515-725-8329 | F 515-725-8201 | 502 E. 9th St., Des Moines, IA 50319
www.iowadnr.gov

On Tue, Apr 3, 2018 at 10:29 AM, Todd Felderman <TFelderman@senecaco.com> wrote:

> All,
>
> Attached is the data summary including the tank pull and May 2013 groundwater sampling results. Seneca recommends remodeling the Tier 2 using the online application. The benzene source appears to have migrated south

to MW8. Monitoring wells MW11 ar. .IW12 were destroyed. Does the DNR requ /W11 or MW12 to be reinstalled for plume migration prior to remodeling?

A hard copy will be mailed out.

Thanks

Todd Felderman

Seneca Companies, Inc.

www.senecaco.com

t: 563-332-8000 | c: 563-449-4347

tfelderman@senecaco.com

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7241 Gaines Street Court
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Des Moines, IA 50313-3804
Toll-Free: 800-369-5500

April 2, 2018

James Gastineau
IUST Fund Board
2700 Westown Parkway, Suite 320
West Des Moines, Iowa 50265

Subject: Data Transmittal
USTCA 1104-01: State of Iowa Closure Contract Project
HM Minimart, 101 East Mayne Street, Blue Grass, IA
Registration No. 8603857 LUST No. 7LTS81

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We have appreciated the opportunity to provide you professional environmental services. If you have any questions or concerns, please feel free to contact me at 563-332-8000 or Tfelderman@senecaco.com.

Sincerely,
Seneca Environmental Services

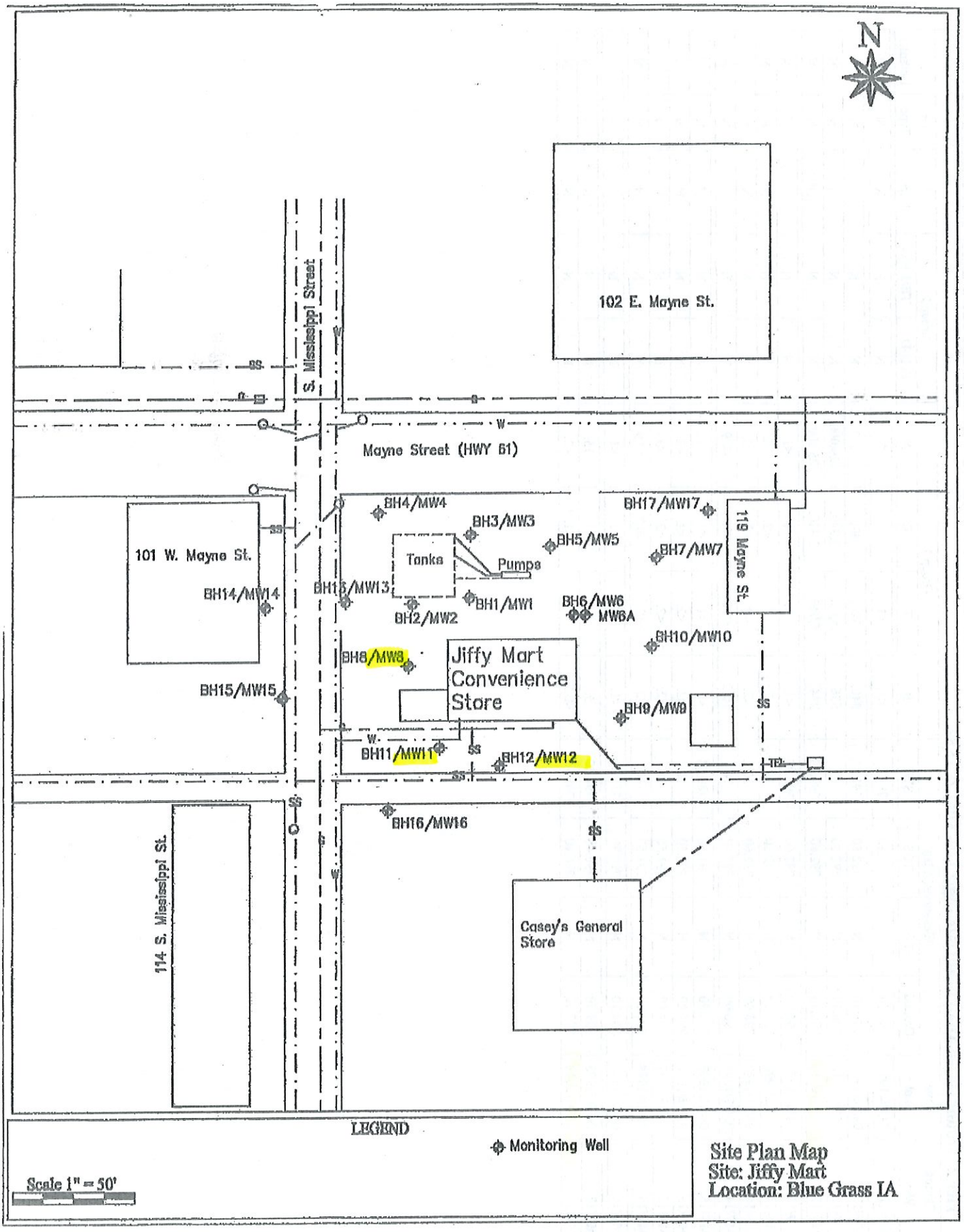
Todd Felderman, IGWP 2044
Project Manager

Attachments

cc: Tammy Vander Bloemen, IDNR LUST Section
SES file # 6358300

Tier 2 Groundwater Analytical Data (ug/L), V-3.00, 7LTS81

Boring/ Well #	Date Sampled	Elevations(ASL)				Group 1				Group 2			FP	FP
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO	Naph.	Type	Default?
MW1	08/27/1990	N	N	N	N	<1.	<1.	<1.	<3.	N	N	N	N	N
MW1	10/15/1993	N	N	N	N	<1.	<1.	<1.	<1.	N	N	N	N	N
MW1	05/28/1998	N	N	N	N	<0.2	<0.2	<0.3	<0.9	N	N	N	N	N
MW2	08/27/1990	N	N	N	N	70.	20.	<1.	30.	N	N	N	N	N
MW2	10/15/1993	N	N	N	N	99.	18.	240.	173.	N	N	N	N	N
MW2	05/28/1998	N	N	N	N	1.2	<0.4	<0.6	<1.8	N	N	N	N	N
MW3	08/27/1990	N	N	N	N	70.	20.	<1.	50.	N	N	N	N	N
MW3	10/15/1993	N	N	N	N	40.	7.	22.	22.	N	N	N	N	N
MW3	03/20/2009	N	N	N	N	172.	351.	806.	10,700.	N	N	N	N	N
MW4	03/31/1993	797.80	N	794.80	792.31	<1.	<1.	<1.	<1.	N	N	N	N	N
MW4	03/20/2009	797.80	N	794.80	792.25	1,900.	13,800.	6,600.	48,800.	N	N	N	N	N
MW4	05/29/2013	797.80	N	794.80	N	504.	11,500.	4,100.	26,500.	N	N	N	N	N
GW-1 (MW4)	01/18/2018	797.80	N	794.80	N	~~72.4~~	~~1,590.~~	~~1,270.~~	~~6,590.~~	~~N~~	~~N~~	~~N~~	~~N~~	N
MW4	02/27/2018	797.80	N	794.80	792.29	55.5	970.	1,530.	7,800.	N	N	N	N	N
MW5	03/31/1993	798.50	N	795.50	793.60	<1.	<1.	<1.	<1.	N	N	N	N	N
MW5	05/23/2002	798.50	N	795.50	793.60	<2.	<2.	<2.	<2.	N	N	N	N	N
MW5	03/20/2009	798.50	N	795.50	794.50	2.1	12.	196.	199.	N	N	N	N	N
MW5	05/29/2013	798.50	N	795.50	N	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW5	02/27/2018	798.50	N	795.50	793.65	<0.5	1.05	28.7	86.4	N	N	N	N	N
MW6	03/31/1993	798.70	N	793.70	793.03	36.	13.	16.	53.	N	N	N	N	N
MW6	05/02/1996	798.70	N	793.70	N	3,700.	110.	650.	1,800.	N	N	N	N	N
MW6	06/06/1997	798.70	N	793.70	N	3,600.	45.	970.	1,500.	N	N	N	N	N
MW6	05/28/1998	798.70	N	793.70	N	1,600.	6.	520.	1,000.	N	N	N	N	N
MW6	01/19/1999	798.70	N	793.70	792.15	2,600.	<20.	1,100.	2,800.	N	N	N	N	N
MW6	08/23/2002	798.70	N	793.70	792.56	1,800.	<2.	1,300.	2,200.	N	N	N	N	N
MW6	03/20/2009	798.70	N	793.70	793.27	18.9	<1.	64.5	127.	N	N	N	N	N
MW6	05/29/2013	798.70	N	793.70	N	<0.5	<1.	2.21	<3.	N	N	N	N	N
MW6A	02/27/2018	798.70	N	793.70	793.52	7.63	<1.	434.	378.	N	N	N	N	N
MW7	03/31/1993	798.80	N	793.50	793.87	<5.	<5.	430.	78.	N	N	N	N	N
MW7	03/20/2009	798.80	N	793.50	793.06	<1.	<1.	<1.	<3.	N	N	N	N	N
MW7	02/27/2018	798.80	N	793.50	793.68	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW8	03/31/1993	797.50	N	794.10	791.37	19.	2.	110.	82.	N	N	N	N	N
MW8	02/27/2018	797.50	N	794.10	791.52	1,470.	11.5	150.	107.	N	N	N	N	N
MW9	04/06/1993	798.00	N	794.10	792.40	<1.	<1.	<1.	<1.	N	N	N	N	N
MW9	02/27/2018	798.00	N	794.10	791.97	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW10	04/06/1993	798.40	N	795.10	793.04	<1.	<1.	<1.	<1.	N	N	N	N	N
MW10	02/27/2018	798.40	N	795.10	792.60	<0.5	<1.	<1.	<3.	N	N	N	N	N
MW11	04/06/1993	795.00	N	791.80	790.48	3.	3.	2.	5.	N	N	N	N	N


N
102 E. Mayne St.
S. Mississippi Street
Mayne Street (HWY 61)
101 W. Mayne St.
119 Mayne St.
BH4/MW4
BH3/MW3
BH17/MW17
BH5/MW5
BH7/MW7
Tanks
Pumps
BH14/MW14
BH13/MW13
BH1/MW1
BH6/MW6
MW6A
BH2/MW2
BH10/MW10
BH8/MW8
Jiffy Mart
Convenience
Store
BH15/MW15
BH9/MW9
BH11/MW11
BH12/MW12
BH16/MW16
114 S. Mississippi St.
Casey's General
Store
LEGEND
Monitoring Well
Scale 1" = 50'
Site Plan Map
Site: Jiffy Mart
Location: Blue Grass IA

Tier 2 Groundwater Analytical Data (ug/L), V-3.00, 7LTS81

Boring/ Well #	Date Sampled	Elevations(ASL)				Group 1				Group 2			FP	FP
		Ground	TOC	TOS	SWL	B	T	E	X	TEH-D	TEH-WO	Naph.	Type	Default?
MW12	04/06/1993	796.50	N	793.30	791.26	<1.	<1.	<1.	2.	N	N	N	N	N
MW13	04/06/1993	796.10	N	792.80	791.11	840.	720.	500.	4,080.	N	N	N	N	N
MW13	05/29/2013	796.10	N	792.80	N	556.	25,600.	3,340.	129,000.	N	N	N	N	N
MW13	02/27/2018	796.10	N	792.80	792.24	234.	5,040.	2,410.	25,500.	N	N	N	N	N
MW14	04/06/1993	796.00	N	792.60	790.05	<1.	<1.	<1.	<1.	N	N	N	N	N
MW14	05/02/1996	796.00	N	792.60	N	<2.	<2.	<2.	2.2	N	N	N	N	N
MW14	06/06/1997	796.00	N	792.60	N	<2.	<2.	<2.	<3.	N	N	N	N	N
MW14	05/28/1998	796.00	N	792.60	N	<0.2	<0.2	<0.3	<0.9	N	N	N	N	N
MW15	04/06/1993	794.80	N	791.50	789.84	<1.	<1.	<1.	<1.	N	N	N	N	N
MW15	05/02/1996	794.80	N	791.50	N	<2.	<2.	<2.	<2.	N	N	N	N	N
MW15	06/06/1997	794.80	N	791.50	N	<2.	<2.	<2.	<3.	N	N	N	N	N
MW15	05/28/1998	794.80	N	791.50	N	<2.	<2.	<0.3	<0.9	N	N	N	N	N
MW16	04/06/1993	794.10	N	790.90	789.31	<1.	<1.	<1.	<1.	N	N	N	N	N
MW17	04/06/1993	799.70	N	796.40	794.18	5.	9.	<1.	15.	N	N	N	N	N
MW17	02/27/2018	799.70	N	796.40	793.93	<0.5	<1.	<1.	<3.	N	N	N	N	N

7LTS81
correspondence TVB

IOWA DEPARTMENT OF NATURAL RESOURCES
IOWA COMPREHENSIVE PETROLEUM UNDERGROUND STORAGE TANK FUND

RIGHT OF ENTRY AND INDEMNITY AGREEMENT

This **Agreement** is made this 13th day of February, 2018, by and between AKD Investments LLC ("**Property Owner**"), and Seneca Companies ("**Contractor**") (jointly the "**Parties**").

The Iowa Department of Natural Resources ("**DNR**") and the Iowa Comprehensive Petroleum Underground Storage Tank Fund Board ("**FUND**") have jointly entered into a contract ("**Contract**") with the **Contractor** to conduct certain environmental corrective action at the underground storage tank (UST) site located at 101 East Mayne Street, Blue Grass (the "**Property**") and identified by **DNR** Registration No. 198603857 and **DNR** LUST No. 7LTS81.

This corrective action may involve excavation of soil and surface covering, the placement of temporary boreholes and permanent groundwater monitoring wells, periodic on-site sampling of soil and groundwater and other remedial action. The **Parties** wish to establish reasonable terms for access to the **Property,** now and in the future.

The **Parties**, for valuable consideration, agree to the following:

1. **Property Owner** is an owner of the **Property** and authorized to grant access to the real estate as provided in this agreement.
2. **Property Owner** agrees to allow the **Contractor**, it agents, employees and assigns, the right to enter the **Property** for the purpose of completing a Tier 1 and/or Tier 2 site assessment in accordance with **DNR** administrative rules contained in Chapter 567 IAC 135 and the **Contract**. This corrective action may include periodic soil and groundwater sampling, soil and surface covering removal, the placement of temporary boreholes and permanent groundwater monitoring wells and other corrective action as directed by the **DNR**.
3. The **Contractor** agrees to provide the **Property Owner** reasonable notice in advance of entry to the **Property** and a reasonable description of the actions to be taken on the **Property.**
4. The **Contractor** agrees to reasonably restore the property to the condition immediately prior to entry. If concrete is required to be removed the **Contractor** agrees to replace the concrete with gravel.
5. The **Contractor** agrees to indemnify the **Property Owner** for all claims, losses, damages or reasonable expenses to the extent they arise out of the performance of activities by the **Contractor**, its agents, employees and assigns conducted on the **Property**.
6. **Property Owner** agrees that he/she is responsible to identify location of any and all privately owned utilities on the site. The **Contractor** will exercise due care in working near the utilities but is not responsible for damages to the private utilities if incorrectly located.
7. This **Agreement** is effective upon execution by all parties. This **Agreement** shall terminate upon written notice from the **DNR** that the **Contractor** has completed its obligations for corrective action at the **Property** as provided in the **Contract.**

AKD Investments LLC
Property Owner

Dated this 13 day of February 2018

Property Owner Phone Number

Leslie Nagel, Project Manager
Seneca Companies
515-261-7717

Dated this 19 day of Feb, 2018.

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