## O M ENTERPRISES, INC.

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November 2, 2022

Mr. John T. Hunt Remediation and Redevelopment Program Wisconsin Department of Natural Resources 101 Ogden Road Peshtigo, WI 54157

Subject:

BP Gas Station (Former Clark Gas Station # 562)

4751 N. Santa Monica Blvd., Milwaukee, WI

DATCP-FID # 416189

DNR-FID # 241 574 850

BRRTS #: 03-41-000450

Start: 09-28-1989

End: 05-26-2010

BRRTS #: 03-41-589630

Start: 04-20-2022

End: Active/Open

Addendum to the Site Investigation Work Plan (SIWP)

#### Dear Mr. Hunt:

The site investigation work plan (SIWP) was submitted to the WDNR on September 9, 2022. On October 14, 2022, the WDNR required to address the following items.

- Submit a figure showing the location of former area of the residual soil and groundwater contamination of the closed BRRTS # 03-41-000450 in relation to the proposed soil borings/monitoring wells for the open BRRTS # 03-41-589630 and location of the GEC-TSSA soil samples exceeding the NR 720 residual contaminant levels (RCLs).
- 2. Provide a narrative on how the locations of the four soil borings/wells will aid to determine the degree and extent of the contamination from the recent release, evaluate the new discharge in relation to the residual contamination from the closed BRRTS # 03-41-000450, and explain the applicability of the location of the proposed soil boring at 30 feet away from S-1 and S-11 on the scaled figure.

- 3. Provide the soil disposal document as noted in the TSSA report, and
- 4. Installation of the proposed well MW-4 at the location of the former monitoring well MW-1

## Removal of Two 6,000 Gallons USTs on April 1, 1990

Based on the site investigation scoping report submitted to the DNR, it appears that a gas station was active on the site during 1960s. Two 6,000 gallons capacity USTs were installed east-west at the northwest corner of the canopy. The installation date of the tanks is unknown.

Two pump islands were located to the west of Santa Monica Blvd. The third pump island was located to the east of the building. The tank registration forms are included in **Appendix A**.

<u>Id.</u>	Installed	Gallons	Content	Make	<b>Date Removed</b>
57460	Unknown	6000	UL Gasoline	Coated Steel	04/01/1990
57461	Unknown	6000	UL Gasoline	Coated Steel	04/01/1990

## Removal of Approximately 1,176 Tons of Contaminated Soils in 1990

Omega Environmental Services, Inc. conducted the removal of approximately 1,176 tons (1,176.39 tons) of the contaminated soils between March 13-19, 1990. The soils were disposed of at Parkview Landfill, Menomonee Falls, Wisconsin (Source: WDNR Database for BRRTS # 03-41-000450).

## Installation of Two 12-K Gals. USTs and Four Sumps on April 1, 1990

Two 12K USTs were installed north-south on April 1, 1990 in the former tank bed after the removal of the two 6K USTs and disposal of approximately 1,176 tons of the petroleum contaminated soils.

The four tank sump wells (S-1, S-2, S-3, and S-4) were installed at the NW, NE, SE, and SW corners of the tank bed, respectively (**Table 1** and **Figure 1**: **Figure 6 of Sigma**). The tank registration forms are included in **Appendix A**.

<u>Id.</u>	Installed	Gallons	Content	Make	Date Removed
112903	04/01/1990	12000	UL Gasoline	Coated Steel	03/21/2022
113159	04/01/1990	12000	UL Gasoline	Coated Steel	03/21/2022

## Removal of Two 12K Gals. USTs of April 1, 1990 in March 2022

General Engineering Corporation (GEC) of Portage, Wisconsin, supervised the removal of the two 12K USTs of April 1, 1990. The two USTs and three pump islands were removed on March 21, 2022. The site sampling map and five photos have been included in **Appendix B**. The excavation was approximately 55 feet long (north-south), 35 feet wide (east-west), and 14 feet deep.

OM Enterprises, Inc. has summarized the GEC's TSSA soil sampling data in **Table 1**. The highest concentration of benzene (0.056 ppm) in the tank bed was detected in sample S-1 (north-northeast wall) at approximately 9.5 feet below the grade.

The highest concentration of benzene (0.299 ppm) in the piping/dispenser areas was detected in sample S-11 (northeast pump island) at approximately 3 feet below the grade.

## Soil Disposal (727 Tons) and Confirmatory Soil Sampling

Approximately 727 tons (23.31 tons on 3/21/22 + 377.39 tons on 3/22/22 + 326.32 tons on 3/23/22) of the contaminated soils were hauled to the waste management landfill, Menomonee Falls, Wisconsin in March 2022. The invoice and disposal proof are included in **Appendix C**.

It appears that the excavation was approximately 60 feet long (north-south), 55 feet wide (east-west), and 14 feet deep. It appears that GEC did not collect the confirmatory wall and bottom soil samples following the removal of approximately 727 tons of the contaminated soils. Therefore, we do not have the data about the residual soil contaminants in the excavated areas of 2022.

## Installation of Existing UST System in 2022

One manifold tank-21K (15-K + 6K) was installed in the former tank bed on March 24, 2022. The third pump (west) of 1990 was replaced by two pumps (NW and SW). A tank sump well was installed at the southwest corner of the tank bed.

The existing tanks have been summarized below and tank registration form are included in **Attachment A**.

Id.	<u>Installed</u>	Gallons	Content	Make	Date Removed
238503	03/24/2022	15000	UL Gasoline	Fiberglass	N/A (Active)
238505	03/24/2022	6000	UL Gasoline	Fiberglass	N/A (Active)

## Notification of Petroleum Contamination (BRRTS # 03-41-000450)

Foth and Van Dyke of Milwaukee notified the petroleum contamination to the WDNR in September 1889 (Appendix D).

## Soil Borings and Monitoring Wells (BRRTS # 03-41-000450)

Ten soil borings (B-1 through B-10) were advanced in June 1992. Six out of the ten soil boring were converted into six 2 inches diameter groundwater monitoring wells MW-1 through MW-6 (Table 2).

Two soil borings (B-11 and B-12) were advanced in April 1993. The soil boring B-11 was converted into a 2 inches diameter groundwater monitoring well MW-7 (Table 2).

Two soil borings (B-13 and B-14) were advanced between June and October of 1995. The soil borings were converted into 2 inches diameter groundwater monitoring wells MW-8 and MW-9, respectively (Table 2). The well construction reports have been included in Appendix E.

The soil quality data has been summarized in Table 3: Table 2 of Sigma. The soil quality data will be included in the SIR of the BRRTS # 03-41-589630. The detected concentrations of benzene are as follows.

Boring	<u><b>Depth</b></u> (∼ ft.)	Conc. (ppb)	Location
B-2/MW-2	7-9	74	NE Corner of Bldg. (Figure: 2)
B-7/MW-5	11-12.5	2100	4771 N Santa Monica Blvd. (Figure: 2)
B-10/B-10	7-9	13,000	N of Q-1 (6" dia. 25 ft. RW, Figure: 2)

Sigma submitted "Report of A Subsurface Investigation" to the WDNR on March 25, 1994 (Source: Page 1251 to...., the WDNR site file).

OM Enterprises, Inc. believes that the above soil borings were not in the areas of the BRRTS # 03-41-589630.

## Soil and Groundwater Remediations (BRRTS # 03-41-000450)

OM Enterprises, Inc. reviewed the following documents posted on the web site of the closed BRRTS # 03-41-000450.

- 1. A Remedial Alternative Analysis, Sigma, July 1994: Page 1241 to.....
- 2. Project Manual for Installation of A Soil Vapor Extraction / Groundwater Extraction and Treatment System, Sigma, September 1995: Page 1008 to.....
- Remedial System Installation and Start-up Report, Sigma, May 1997: Page 819 to.... 3.
- 4. Status Report for the Soil and Groundwater Remediation System, Sigma, February 1998: Pag 617 to.....
- 5. Status Report for the Soil and Groundwater Remediation System, Sigma, October 1999: Page 494 to.....
- 6. Status Report for the Soil and Groundwater Remediation System, Sigma, May 2000: Page 368 to

Based on the review of the site file, it appears that soil excavation was not selected as a remedial alternative for the remediation of the petroleum impacted soils. The WDNR approved the soil vapor extraction (SVE) and groundwater remedial system for the site remediation. The treated water was discharged into the MMSD sewer system and contaminated granular carbon was hauled to the Waste Management landfill in Menomonee Falls, Wisconsin.

Two vapor extraction wells (VE-1 and VE-2), each 9 ft. deep and 6" in diameter were installed on October 9, 1995 (Figure 2, Table 2, and Appendix E).

Four recovery wells (Q-1 through Q-4), each ~ 22-25 ft. deep and 6" in diameter were also installed on October 9, 1995 (Figure 2, Table 2, and Appendix E).

## Closure Packet for BRRTS # 03-41-000450

Sigma submitted the closure request in September 2002 (Appendix F). The groundwater quality data will be included in the SIR of the BRRTS # 03-41-589630.

The concentration of benzene at the time of the submittal of the closure request is as follows. The locations are shown on Figure 3: Figure 1 of Sigma.

Id.	Date	Conc.	Location	Comment
S-1	10/30/2001	48	Tank Bed	Appears located in new release area
S-2	07/23/2001	650	Tank Bed	Appears located in new release area
S-3	7/23/2001	1100	Tank Bed	Appears located in new release area
S-4	10/23/2001	30	Tank Bed	Appears located in new release area
MW-1	10/22/2001	< 22	N of Tank Bed	Appears located in new release area
MW-2	10/22/2001	290	NE Corner of Bldg.	Not located in new release area
MW-3	7/23/2001	< 0.45	NE of Canopy	Not located in new release area
MW-4	10/22/2001	< 0.45	SW Corner of Canopy	Not located in new release area
MW-5	10/22/2001	870	4771 N Santa Monica	Not located in new release area
MW-6	10/22/2001	560	NW Corner of Lot	Not located in new release area
MW-7	10/22/2001	< 0.45	NW Corner of Lot	Not located in new release area
MW-8	10/22/2001	< 11	NW Corner of Lot	Not located in new release area
MW-9	10/22/2001	< 0.45	NW Corner of Lot	
Q-1	7/23/2001	< 4.5	NW of Bldg. & N of Shed	Not located in new release area
Q-2	7/23/2001	590	N of Q-1	Not located in new release area
Q-3	7/23/2001	20	NW of Tank Bed	Not located in new release area
Q-4	7/23/2001	120	NE of MW-1	Appears located in new release area

The four former abandoned sump wells (S-1 through S-4), MW-1, and Q-1 appear to be in the new release area (BRRTS # 03-41-589630). The approximate locations and concentrations at the time of closure have been shown on Figure 4.

## Proposed Boring/Wells and Issues of Abandoned Well MW-1

OM Enterprises, Inc. proposed to advance four soil borings/monitoring wells as shown on Figure 5 and summarized below.

Boring Id.	Borings Depth (~ft.)	Wells Depth (~ft.)	Screen (ft.)	Approximate Location	Rationale/ Comments
B-1	17.5	MW-1 (17.5)	10	East of Canopy	Delineate Plume
B-2	17.5	MW-2 (17.5)	10	South Lot Line	Delineate Plume
B-3	17.5	MW-3 (17.5)	10	West of Canopy	Delineate Plume
B-4	17.5	MW-4 (17.5)	10	North of Canopy	Delineate Plume

Mr. John T. Hunt Page 7

The locations of the soil borings/monitoring wells are not to the scale and cannot be placed to the scale because of the following conditions known and unforeseen circumstances encountered during the exploration activities.

- 1. The driller cannot start the drilling without the clearance from the Digger's Hotline.
- 2. The driller must maintain the Digger's Hotline required underground and aboveground separation distances from the utility lines.
- 3. The driller retains a private locator because the Digger's Hotline does not locate the private utilities.
- 4. The driller changes the locations of the borings depending on the results of the private locators.
- 5. The on-site building and other structures (canopy, shed, pole, etc.) affect the locations of the proposed drill holes.
- 6. Sometimes the unforeseen encountered conditions during the drilling require to change the locations of the drill holes

The area of the site has been paved with the concrete after the construction of the new building and installation of the new UST system.

#### MW-1:

The monitoring well MW-1 has been proposed in the landscape area. The proposed well MW-1 is located very close to the NE pump island (S-11 sample location). The well will be moved to the north to cover the sample location of S-1. If the well is contaminated, we may consider drilling hole in the public right of way.

#### MW-2:

The monitoring well MW-2 has also been proposed in the landscape area. We believe that the well define the plume. If the plume is not defined, we may consider drilling in the right of way of the county park.

#### MW-3:

The monitoring well MW-3 has been proposed in the asphalt area. There is no room to install a well between the building and canopy. There is a sump well (~ 15 feet deep) at the southwest corner of the tank bed. The depth to the groundwater in the sump well was ~ 10 feet below the grade in August 2022. If the sump well is contaminated, MW-3 would be helpful to define the plume.

#### MW-4 at Abandoned Well MW-1

Sentinel Environmental Services LLC abandoned the well on June 2, 2009. The well abandonment forms have been included in Appendix G. The Wisconsin Administrative Code § NR 141.25 (2) (d) requires cutting the well casing at least 30 inches below the grade. OM Enterprises, Inc. opened the well. The PVC has not been cut. The PVC is filled with the bentonite.

The owner wanted to use the well for the new release. The monitoring well was exposed during the development of the site in 2022. The bentonite of the top of the sand was removed during the excavation to install the new tank. OM Enterprises, Inc. talked to the driller. The driller will pull the PVC pipe; remove the residual bentonite, if any; and install the monitoring well MW-4 at the same location. Benzene in the soil was not detected in B-1 during the investigation in 1992. The concentration of benzene in the groundwater of MW-1 was detected at < 22 ppb on October 22, 2001 (last sampling).

#### Need of Additional Well at NW Corner

The NW corner of the site was impacted by the previous release/closed BRRTS of this former Clark Site as well as by the two closed BRRTS activities of the northside property (gas station and dry cleaning). The insurance company would not pay for the costs associated with the previous release. Therefore, OM Enterprises, Inc. would not advance borings in the areas away from the insurance covered release areas.

## **Summary and Conclusions**

- 1. Two 6,000 gallons capacity USTs and approximately 1,176 tons of the contaminated soils were removed between March 1990 and April 1990
- Two 12K USTs were installed on April 1, 1990 in the former tank bed after the removal of the two 6K USTs and disposal of approximately 1,176 tons of the petroleum contaminated soils.

- 3. Two USTs and three pump islands were removed on March 21, 2022. The highest concentration of benzene (0.056 ppm) in the tank bed was detected in sample S-1 (north-northeast wall) at approximately 9.5 feet below the grade. The highest concentration of benzene (0.299 ppm) in the piping/dispenser areas was detected in sample S-11 (northeast pump island) at approximately 3 feet below the grade.
- 4. Approximately 727 tons of the contaminated soils were hauled in March 2022. GEC did not collect the confirmatory wall and bottom soil samples following the removal of approximately 727 tons of the contaminated soils. Therefore, we do not have the data about the residual soil contaminants.
- One manifold tank-21K (15-K + 6K) was installed in the former tank bed on March 24, 2022. The third pump (west) of 1990 was replaced by two pumps (NW and SW). A tank sump well was installed at the southwest corner of the tank bed.
- 6. Fourteen soil borings were advanced for the closed BRRTS # 03-41-000450 between in June 1992 and October 1995. Nine soil boring were converted into the groundwater monitoring wells.
- 7. Benzene was detected at 74 ppb in B-2/MW-2 at 7'-9'; 2100 ppb in B-7/MW-5 at 11'-12.5'; and 13000 ppb in B-10 at 7-9' below the grades.
- 8. The WDNR approved the soil vapor extraction (SVE) and groundwater remedial system for the site remediation. Two vapor extraction wells (VE- and VE-2) and four recovery wells (Q-1 through Q-4) were installed. The following concentrations of benzene were present in the tank bed at the time of the closure of the closed BRRTS # 03-41-000450.

Sump Well	<b>Date Sampled</b>	Conc. (ppb)
S-1	10/30/2001	48
S-2	07/23/2001	650
S-3	7/23/2001	1100
S-4	10/23/2001	30

9. The locations of the soil borings/monitoring wells are not to the scale and cannot be placed to the scale because of the known and unforeseen circumstances encountered during the exploration activities.

- 10. The area of the site has been paved with the concrete after the construction of the new building and installation of the new UST system.
- 11. The monitoring well MW-1 has been proposed in the landscape area. The well will be moved to the north to cover the sample location of S-1. If the well is contaminated, we may consider drilling hole in the public right of way.
- 12. The monitoring well MW-2 has also been proposed in the landscape area. We believe that the well define the plume.
- 13. The monitoring well MW-3 has been proposed in the asphalt area. If the tank sump well is contaminated, MW-3 would be helpful to define the plume.
- 14. The Wisconsin Administrative Code § NR 141.25 (2) (d) requires cutting the well casing at least thirty inches below the grade. The PVC has not been cut. The PVC is filled with the bentonite. There is no bentonite surrounding the well casing. The driller will pull the PVC pipe; remove the residual bentonite, if any; and install the monitoring well MW-4 at the same location.
- 15. The insurance company would not pay for the costs associated with the previous release. Therefore, OM Enterprises, Inc. would not advance borings in the areas away from the insurance covered release areas.

Thank you for your cooperation.

Sincerely,

O M ENTERPRISES, INC.

Raghu B, Singh, Ph. D. Environmental Professional 40 CFR § 312.10 (b)

**Encls:** 

Table 1: Summary of Petroleum Volatile Organic Compounds (PVOCs and Naphthalene of Tank System Site Assessment (TSSA) Soil Samples Collected by General Engineering Corporation on March 21, 2022 and March 23, 2022.

- Summary of Soil Borings, Monitoring Wells, Tank Sump Wells, Vapor Table 2: Extraction Wells, and Recovery Wells for BRRTS # 03-41-000450 (Closed: 05-26-2010)
- Table 2 of Sigma: Soil Sample Analytical Results Table 3:
- Figure 6 of Sigma: Groundwater and Soil Remediation System Figure 1: Groundwater Contour Map (October 2001)
- Figure 1 of Sigma: Soil Quality Map Figure 2:
- Figure 1 of Sigma: Soil Quality Map Figure 3:
- Benzene Concentration (ppb) at Closure of BRRTS # 03-41-000450 Figure 4:
- Location of Proposed Soil Borings and Monitoring Wells Figure 5:
- Appendix A: WDATCP-Tank Registration Forms
- Appendix B: General Engineering Corporation (GEC) Map and Photos of UST Removal, 2022 (BRRTS # 03-41-589630)
- Appendix C: Proof for Disposal of Approximately 727 Tons Contaminated Soils in 2022 (BRRTS # 03-41-589630)
- Appendix D: Foth & Van Dyke Notification of Contamination to the WDNR, September 1989 (Closed BRRTS # 03-41-000450)
- Monitoring Wells, Vapor Extraction Wells, and Recovery Wells Appendix E: Construction Reports (Closed BRRTS # 03-41-000450)
- Closure Request of Sigma of September 12, 2002 for Appendix F: Closed BRRTS # 03-41-000450
- Appendix G: Well Abandonment Forms of Sentinel Environmental of February 16, 2010 for Closed BRRTS # 03-41-000450
- Mr. Amin Bhimani/Responsible Party / AYSS786@gmail.com CC:

#### Table 1

# Summary of Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene of Tank System Site Assessment (TSSA) Soil Samples Collected by General Engineering Corporation on March 21, 2022 and March 23, 2022 BP Gas Station (Former Clark Gas Station) 4751 N Santa Monica Blvd., Milwaukee, WI 53211

DATCP-Tank-FID # 416189

LUST-FID # 241574850

LUST-BRRTS # 03-41-589630

Page 1 of 2

Contaminants	Not-To-Exceed	Not-To-Exceed	RCL-GW	Sample	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
of	D-C RCL	D-C RCL	(mg/kg)	Location	N/NE Wall	N/NW Wall	E/NE Wall	E/SE Wall	W/SW Wall	W/NW Wall	W/SW Wall	SW Dispense
Concern	(mg/kg)	(mg/kg)	DF=2	Depth (ft.)	8	8	8	8	8	8	8	3
	Non-Industrial	Industrial	Soil to GW	Soil	FILL	FILL	FILL	FILL	FILL	FILL	FILL	FILL
	*RR	-106, October 20	18	PID (ppm)	9.5	332	7	2	2	579	2	2
Benzene	1.6	7.07	0.0051	ppm	0.056	< 0.025	< 0.025	0.040 "J"	< 0.025	< 0.025	< 0.025	< 0.025
Ethylbenzene	8.02	35.4	1.57	ppm	0.034 "J"	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.033 "J"	< 0.025
MTBE	63.8	282	0.027	ppm	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Naphthalene	5.52	24.1	0.6582	ppm	0.112	< 0.025	< 0.025	< 0.025	< 0.025	0.053	0.07	0.052 "J"
Toluene	818	818	1.1072	ppm	0.055 "J"	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
1,2,4-TMB	219	219		ppm	0.098	< 0.025	0.055 "J"	0.036 "J"	< 0.025	< 0.025	< 0.025	0.041 "J"
1,3,5-TMB	182	182	1.3787	ppm	0.113	< 0.025	0.0257 "J"	< 0.025	< 0.025	< 0.025	< 0.025	0.040"J"
m & p-Xylenes				ppm	0.168	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o-Xylene	260	260	3.96	ppm	0.072	< 0.025	< 0.025	< 0.025	< 0.025	0.036 "J"	0.036 "J"	0.037 "J"
			***************************************	Solids %	90.00	91.30	85.60	84.60	91.20	90.30	83.10	88.30

#### Note:

Concentration in bold color indicate the concentration exceeding RCLs-GW (Soil to GW)

<sup>\*</sup> denotes the Wis, Admin. Code § 720 RCL Quick Reference Table: Contaminated Soil, October 2018 (RR-106)

<sup>&</sup>quot;J" denotes the concentration between the method of detection (MOD) and method of quantification (MOQ).

#### Table 1

# Summary of Petroleum Volatile Organic Compounds (PVOCs) and Naphthalene of Tank System Site Assessment (TSSA) Soil Samples Collected by General Engineering Corporation on March 21, 2022 and March 23, 2022 BP Gas Station (Former Clark Gas Station)

4751 N Santa Monica Blvd., Milwaukee, WI 53211

DATCP-Tank-FID # 416189

LUST-FID # 241574850

LUST-BRRTS # 03-41-589630

Page 2 of 2

Contaminants	Not-To-Exceed	Not-To-Exceed	RCL-GW	Sample	S-9 S	S-10 S	S-11		
of	D-C RCL	D-C RCL	(mg/kg)	Location	Prod. Line T	SE Dispenser	NE Dispenser		
Concern	(mg/kg)	(mg/kg)	DF=2	Depth (ft.)	3	3	3		
	Non-Industrial	Industrial	Soil to GW	Soil	FILL	FILL	FILL		
	*RR	-106, October 20	18	PID (ppm)	2	3	3		
Benzene	1.6	7.07	0.0051	ppm	< 0.025	< 0.025	0.299		
Ethylbenzene	8.02	35.4	1.57	ppm	< 0.025	< 0.025	0.282		
МТВЕ	63.8	282	0.027	ppm	< 0.025	< 0.025	< 0.025		
Naphthalene	5.52	24.1	0.6582	ppm	< 0.025	0.098	0.37		
Toluene	818	818	1.1072	ppm	0.034 "J"	0.128	1.13		
1,2,4-TMB	219	219		ppm	0.033 "J"	0.072	0.86		
1,3,5-TMB	182	182	1.3787	ppm	0.0281 "J"	0.079	0.293		
m & p-Xylenes				ppm	0.067 "J"	0.12	2.01		
o-Xylene	260	260	3.96	ppm	0.0316 "J"	0.082	0.32		
	·			Solids %	88.20	84.50	71.80		

#### Note:

Concentration in bold color indicate the concentration exceeding RCLs-GW (Soil to GW)

<sup>\*</sup> denotes the Wis. Admin. Code § 720 RCL Quick Reference Table: Contaminated Soil, October 2018 (RR-106)

<sup>&</sup>quot;J" denotes the concentration between the method of detection (MOD) and method of quantification (MOQ).

BP Gas Station (Former Clark # 562) 4751 N Santa Monica Blvd., Milwaukee, WI 53211

BRRTS # 03-41-000450 (Closed: 05-26-2010)

(Page 1 of 1)

Abandoned	Boring	Well	(40)		CONTRACTOR OF THE PROPERTY OF	Location
Date	Id.	Id.	(~ ft.)	(ft.)	(inch)	Location
6/2/2009	B-1	MW-1	14.00	10.00	2.00	N of Tank Bed
6/2/2009	B-2	MW-2	15.00	10.00	2.00	NE Corner of Building
6/2/2009	B-3	MW-3	15.00	10.00	2.00	NE of Canopy
6/2/2009	B-4	MW-4	15.00	10.00	2.00	SW Corner of Canopy
6/26/1992	B-5	N/A	N/A	N/A	N/A	SE of Canopy
6/26/1992	B-6	N/A	N/A	N/A	N/A	SW Corner: 4771 N. Santa Monica
6/2/2009	B-7	MW-5	15.00	10.00	2.00	4771 N Santa Monica Bed.
9/29/1992	B-8	N/A	N/A	N/A	N/A	W ROW of Santa Monica
6/2/2009	B-9	MW-6	14.50	10.00	2.00	NW Corner of Lot
9/30/1992	B-10	N/A	N/A	N/A	N/A	N of Q-1
6/2/2009	B-11	MW-7	14.50	10.00	2.00	NW Corner of Lot
4/13/1993	B-12	N/A	N/A	N/A	N/A	NW of MW-6
6/2/2009	B-13	MW-8	15.00	10.00	2.00	NW Corner of Lot
6/2/2009	B-14	MW-9	15.00	10.00	2.00	NW Corner of Lot
6/2/2009	VE-1	VE-1	9.00	3.00	6.00	NW Corner of Canopy
6/2/2009	VE-2	VE-2	9.00	3.00	6.00	N of Canopy
6/2/2009	Q-1	Q-1	25.00	18.00	6.00	NW of Bldg. & N of Shed
6/2/2009	Q-2	Q-2	24.00	18.00	6.00	N of Q-1
Not Located*	Q-3	Q-3	22.00	15.00	6.00	NW of Tanks Removed in 2021
6/2/2009	Q-4	Q-4	25.00	18.00	6.00	NE of MW-1
3/21/2021	S-1	Tank Sun	np Well of U	STs Rem	oved in 2021	NW Corner of Former Tank Bed
3/21/2021	S-2	Tank Sun	np Well of U	STs Rem	oved in 2021	NE Corner of Former Tank Bed
3/21/2021	S-3	Tank Sun	np Well of U	STs Remo	oved in 2021	SE Corner of Former Tank Bed
3/21/2021	S-4	Tank Sun	np Well of U	STs Rem	oved in 2021	SW Corner of Former Tank Bed
	6/2/2009 6/2/2009 6/2/2009 6/2/2009 6/26/1992 6/26/1992 6/2/2009 9/29/1992 6/2/2009 4/13/1993 6/2/2009 6/2/2009 6/2/2009 6/2/2009 6/2/2009 6/2/2009 8/2/2009 6/2/2009 3/21/2021 3/21/2021	Date         Id.           6/2/2009         B-1           6/2/2009         B-2           6/2/2009         B-3           6/2/2009         B-4           6/26/1992         B-5           6/26/1992         B-6           6/2/2009         B-7           9/29/1992         B-8           6/2/2009         B-9           9/30/1992         B-10           6/2/2009         B-11           4/13/1993         B-12           6/2/2009         B-13           6/2/2009         VE-1           6/2/2009         VE-1           6/2/2009         Q-1           6/2/2009         Q-2           Not Located*         Q-3           6/2/2009         Q-4           3/21/2021         S-1           3/21/2021         S-2           3/21/2021         S-3	Date         Id.         Id.           6/2/2009         B-1         MW-1           6/2/2009         B-2         MW-2           6/2/2009         B-3         MW-3           6/2/2009         B-4         MW-4           6/26/1992         B-5         N/A           6/26/1992         B-6         N/A           6/2/2009         B-7         MW-5           9/29/1992         B-8         N/A           6/2/2009         B-9         MW-6           9/30/1992         B-10         N/A           6/2/2009         B-11         MW-7           4/13/1993         B-12         N/A           6/2/2009         B-13         MW-8           6/2/2009         B-13         MW-8           6/2/2009         VE-1         VE-1           6/2/2009         VE-2         VE-2           6/2/2009         Q-1         Q-1           6/2/2009         Q-2         Q-2           Not Located*         Q-3         Q-3           6/2/2009         Q-4         Q-4           3/21/2021         S-1         Tank Sun           3/21/2021         S-3         Tank Sun <tr <="" td=""><td>Abandoned Date         Boring Id.         Well Id.         Well Cepth (~ft.)           6/2/2009         B-1         MW-1         14.00           6/2/2009         B-2         MW-2         15.00           6/2/2009         B-3         MW-3         15.00           6/2/2009         B-4         MW-4         15.00           6/26/1992         B-5         N/A         N/A           6/26/1992         B-6         N/A         N/A           6/2/2009         B-7         MW-5         15.00           9/29/1992         B-8         N/A         N/A           6/2/2009         B-9         MW-6         14.50           9/30/1992         B-10         N/A         N/A           6/2/2009         B-11         MW-7         14.50           4/13/1993         B-12         N/A         N/A           6/2/2009         B-13         MW-8         15.00           6/2/2009         B-14         MW-9         15.00           6/2/2009         VE-1         VE-1         9.00           6/2/2009         Q-1         Q-1         25.00           6/2/2009         Q-2         Q-2         24.00           Not</td><td>Date         Id.         Id.         (~ ft.)         (ft.)           6/2/2009         B-1         MW-1         14.00         10.00           6/2/2009         B-2         MW-2         15.00         10.00           6/2/2009         B-3         MW-3         15.00         10.00           6/2/2009         B-4         MW-4         15.00         10.00           6/26/1992         B-5         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00           9/29/1992         B-8         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00           9/30/1992         B-10         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00           4/13/1993         B-12         N/A         N/A         N/A           6/2/2009         B-13         MW-8         15.00         10.00           6/2/2009         VE-1         VE-1         9.00         3.00           6/2/2009         VE-2<td>Abandoned Date         Boring Id.         Well Id.         Well Ceft.         Screen (ft.)         Inside Dia. (inch)           6/2/2009         B-1         MW-1         14.00         10.00         2.00           6/2/2009         B-2         MW-2         15.00         10.00         2.00           6/2/2009         B-3         MW-3         15.00         10.00         2.00           6/2/2009         B-4         MW-4         15.00         10.00         2.00           6/26/1992         B-5         N/A         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00         2.00           9/29/1992         B-8         N/A         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00         2.00           9/30/1992         B-10         N/A         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00         2.00           4/13/1993         B-12         N/A         N/A         N/A         N/A</td></td></tr>	Abandoned Date         Boring Id.         Well Id.         Well Cepth (~ft.)           6/2/2009         B-1         MW-1         14.00           6/2/2009         B-2         MW-2         15.00           6/2/2009         B-3         MW-3         15.00           6/2/2009         B-4         MW-4         15.00           6/26/1992         B-5         N/A         N/A           6/26/1992         B-6         N/A         N/A           6/2/2009         B-7         MW-5         15.00           9/29/1992         B-8         N/A         N/A           6/2/2009         B-9         MW-6         14.50           9/30/1992         B-10         N/A         N/A           6/2/2009         B-11         MW-7         14.50           4/13/1993         B-12         N/A         N/A           6/2/2009         B-13         MW-8         15.00           6/2/2009         B-14         MW-9         15.00           6/2/2009         VE-1         VE-1         9.00           6/2/2009         Q-1         Q-1         25.00           6/2/2009         Q-2         Q-2         24.00           Not	Date         Id.         Id.         (~ ft.)         (ft.)           6/2/2009         B-1         MW-1         14.00         10.00           6/2/2009         B-2         MW-2         15.00         10.00           6/2/2009         B-3         MW-3         15.00         10.00           6/2/2009         B-4         MW-4         15.00         10.00           6/26/1992         B-5         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00           9/29/1992         B-8         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00           9/30/1992         B-10         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00           4/13/1993         B-12         N/A         N/A         N/A           6/2/2009         B-13         MW-8         15.00         10.00           6/2/2009         VE-1         VE-1         9.00         3.00           6/2/2009         VE-2 <td>Abandoned Date         Boring Id.         Well Id.         Well Ceft.         Screen (ft.)         Inside Dia. (inch)           6/2/2009         B-1         MW-1         14.00         10.00         2.00           6/2/2009         B-2         MW-2         15.00         10.00         2.00           6/2/2009         B-3         MW-3         15.00         10.00         2.00           6/2/2009         B-4         MW-4         15.00         10.00         2.00           6/26/1992         B-5         N/A         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00         2.00           9/29/1992         B-8         N/A         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00         2.00           9/30/1992         B-10         N/A         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00         2.00           4/13/1993         B-12         N/A         N/A         N/A         N/A</td>	Abandoned Date         Boring Id.         Well Id.         Well Ceft.         Screen (ft.)         Inside Dia. (inch)           6/2/2009         B-1         MW-1         14.00         10.00         2.00           6/2/2009         B-2         MW-2         15.00         10.00         2.00           6/2/2009         B-3         MW-3         15.00         10.00         2.00           6/2/2009         B-4         MW-4         15.00         10.00         2.00           6/26/1992         B-5         N/A         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00         2.00           9/29/1992         B-8         N/A         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00         2.00           9/30/1992         B-10         N/A         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00         2.00           4/13/1993         B-12         N/A         N/A         N/A         N/A
Abandoned Date         Boring Id.         Well Id.         Well Cepth (~ft.)           6/2/2009         B-1         MW-1         14.00           6/2/2009         B-2         MW-2         15.00           6/2/2009         B-3         MW-3         15.00           6/2/2009         B-4         MW-4         15.00           6/26/1992         B-5         N/A         N/A           6/26/1992         B-6         N/A         N/A           6/2/2009         B-7         MW-5         15.00           9/29/1992         B-8         N/A         N/A           6/2/2009         B-9         MW-6         14.50           9/30/1992         B-10         N/A         N/A           6/2/2009         B-11         MW-7         14.50           4/13/1993         B-12         N/A         N/A           6/2/2009         B-13         MW-8         15.00           6/2/2009         B-14         MW-9         15.00           6/2/2009         VE-1         VE-1         9.00           6/2/2009         Q-1         Q-1         25.00           6/2/2009         Q-2         Q-2         24.00           Not	Date         Id.         Id.         (~ ft.)         (ft.)           6/2/2009         B-1         MW-1         14.00         10.00           6/2/2009         B-2         MW-2         15.00         10.00           6/2/2009         B-3         MW-3         15.00         10.00           6/2/2009         B-4         MW-4         15.00         10.00           6/26/1992         B-5         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00           9/29/1992         B-8         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00           9/30/1992         B-10         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00           4/13/1993         B-12         N/A         N/A         N/A           6/2/2009         B-13         MW-8         15.00         10.00           6/2/2009         VE-1         VE-1         9.00         3.00           6/2/2009         VE-2 <td>Abandoned Date         Boring Id.         Well Id.         Well Ceft.         Screen (ft.)         Inside Dia. (inch)           6/2/2009         B-1         MW-1         14.00         10.00         2.00           6/2/2009         B-2         MW-2         15.00         10.00         2.00           6/2/2009         B-3         MW-3         15.00         10.00         2.00           6/2/2009         B-4         MW-4         15.00         10.00         2.00           6/26/1992         B-5         N/A         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00         2.00           9/29/1992         B-8         N/A         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00         2.00           9/30/1992         B-10         N/A         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00         2.00           4/13/1993         B-12         N/A         N/A         N/A         N/A</td>	Abandoned Date         Boring Id.         Well Id.         Well Ceft.         Screen (ft.)         Inside Dia. (inch)           6/2/2009         B-1         MW-1         14.00         10.00         2.00           6/2/2009         B-2         MW-2         15.00         10.00         2.00           6/2/2009         B-3         MW-3         15.00         10.00         2.00           6/2/2009         B-4         MW-4         15.00         10.00         2.00           6/26/1992         B-5         N/A         N/A         N/A         N/A           6/26/1992         B-6         N/A         N/A         N/A         N/A           6/2/2009         B-7         MW-5         15.00         10.00         2.00           9/29/1992         B-8         N/A         N/A         N/A         N/A           6/2/2009         B-9         MW-6         14.50         10.00         2.00           9/30/1992         B-10         N/A         N/A         N/A         N/A           6/2/2009         B-11         MW-7         14.50         10.00         2.00           4/13/1993         B-12         N/A         N/A         N/A         N/A				

#### Note:

Two 6-K tanks (E-W), removed on 04-01-1990, were located at the NW corner of the canopy.

Two 12-K tanks (N-S), removed on 03-21-2021, were located to the north of the canopy.

S-1, S-2, S-3, and S-4 denotes the tank sump wells installed at the four corners of the tanks bed removed in 2021

VE denotes the vapor extraction wells advanced for the soil remediation.

Q-1 through Q-4 denotes the 6" diameter recovery wells to pump water for on-site carbon treatment.

<sup>\*</sup> Well abandonment form was not located.

## Table 2 Soil Sample Analytical Results Clark Retail Enterprises Station #0562 Milwaukee, Wisconsin

	Photo-lonization	Petro	leum Volatil	e Organic Co	mpounds (	ug/kg)	(mg/	kg)
Date Sampled Soil Boring I.D.	Detector (i.u.i.)	Benzene	Ethyl- benzene	Toluene	Total Xylene	Methyl-tert butyl ether	GRO	Total Lead
NR 720 RCL		5.5	2,900	1,500	4,100		100	50
NR 746 Table 1		8.500	4.600	38,000	42,000	***		***
NR 746 Table 2		1,100						med
June-92		15	2 2					
B-1/7-9'	4,084.0	<6.0	310	270	4,200	< 6.0	400	3.4
B-1/9-11'	109.0	NA	NA	NA	NA	NA	190	NA
B-2/7-9'	3,975.0	74	250	760	1,900	< 2.4	64	3.8
B-2/9-11'	15.0	NA	· NA	NA .	NA	NA	98	NA
B-3/7-9'	1,965.0	<1.2	3.6	7.1	7.1	<1.2	39	<1.2
B-3/9-11'	112.0	NA	NA	NA	NA	NA	35	NA
B-4/7-9'	0.0	<1.1	<1.1	2.2	3.3	<1.1	< 6.0	2.1
B-4/9-11'	0.0	NA	NA	NA	NA	NA	< 6.0	NA
B-5/7-9'	0.0	< 1.2	<1.2	<1.2	< 1.2	< 1.2	< 5.8	18
B-5/9-11'	0.0	NA	NA	NA	NA	NA	< 5.0	NA
September-92		-						
B-6/6-8*	36.1	< 5.0	21	<5.0	33	< 5.4	< 5.3	< 1.1
B-6/8-10"	163.0	NA -	NA	NA	NA	NA	70	NA
B-7/11-12.5'	876.0 —	2,100	8.600	20,000	51.000	200	700	1.6
B-7/13.5-15'	184.0	NA	NA	NA	NA	NA	95	NA
B-8/7-9°	0.0	< 2.0	< 2.0	<3.0	<3.0	< 2.0	< 6.2	< 1.2
B-8/9-11'	0.0	NA .	NA	NA	NA	NA	< 6.1	NA
B-9/7-9'	2,161.0	<1.0	13	2	70	<1.0	11	<1.1
B-9/14.5-16'	871.0	NA	NA	NA	NA	NA	54	NA
B-10/7-9'	>2,500	13.000	49.000	130.000	27,000	< 5.9	2,400	2.3
B-10/9-11'	1,010.0	NA.	NA	NA	NA	NA	38	NA
April-93			1					
B-11/6-8'	2.6	<l00< td=""><td>&lt;100</td><td>&lt;100</td><td><l00< td=""><td><l0q< td=""><td><l00< td=""><td>3.6</td></l00<></td></l0q<></td></l00<></td></l00<>	<100	<100	<l00< td=""><td><l0q< td=""><td><l00< td=""><td>3.6</td></l00<></td></l0q<></td></l00<>	<l0q< td=""><td><l00< td=""><td>3.6</td></l00<></td></l0q<>	<l00< td=""><td>3.6</td></l00<>	3.6
B-12/6-8'	3.7	<l00< td=""><td>&lt; L0Q</td><td><l00< td=""><td><l00< td=""><td>&lt;100</td><td><l00< td=""><td>4.5</td></l00<></td></l00<></td></l00<></td></l00<>	< L0Q	<l00< td=""><td><l00< td=""><td>&lt;100</td><td><l00< td=""><td>4.5</td></l00<></td></l00<></td></l00<>	<l00< td=""><td>&lt;100</td><td><l00< td=""><td>4.5</td></l00<></td></l00<>	<100	<l00< td=""><td>4.5</td></l00<>	4.5

Note:

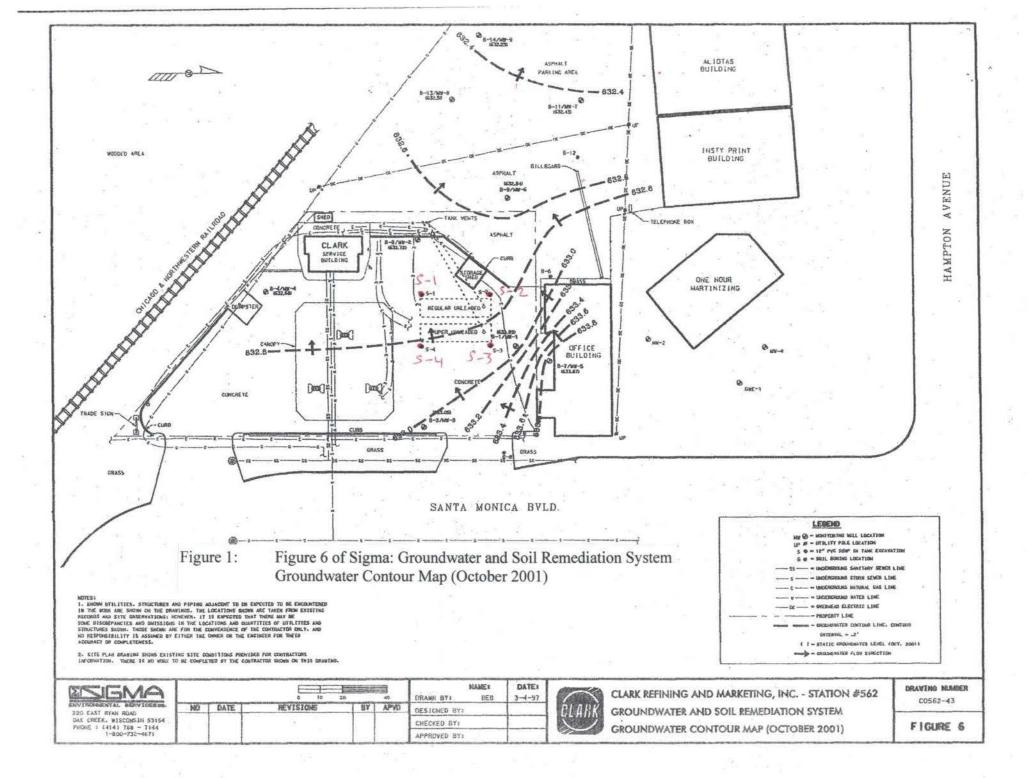
<LOQ = Less than the Laboratory Level of Quantification

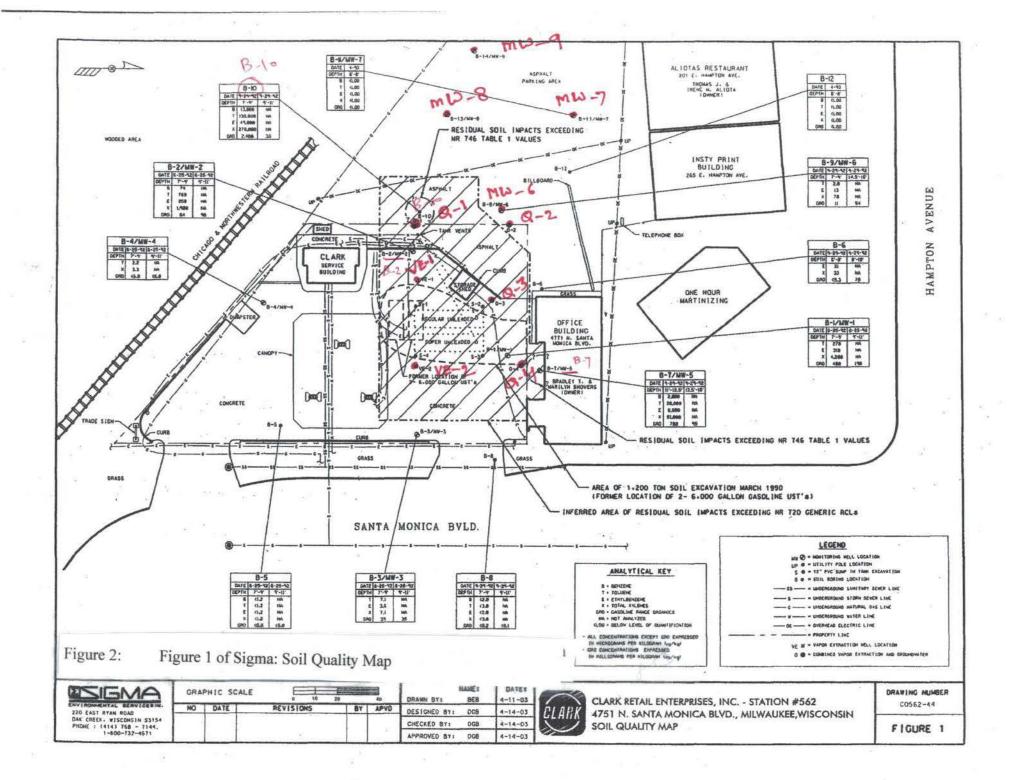
NA = Not Analyzed

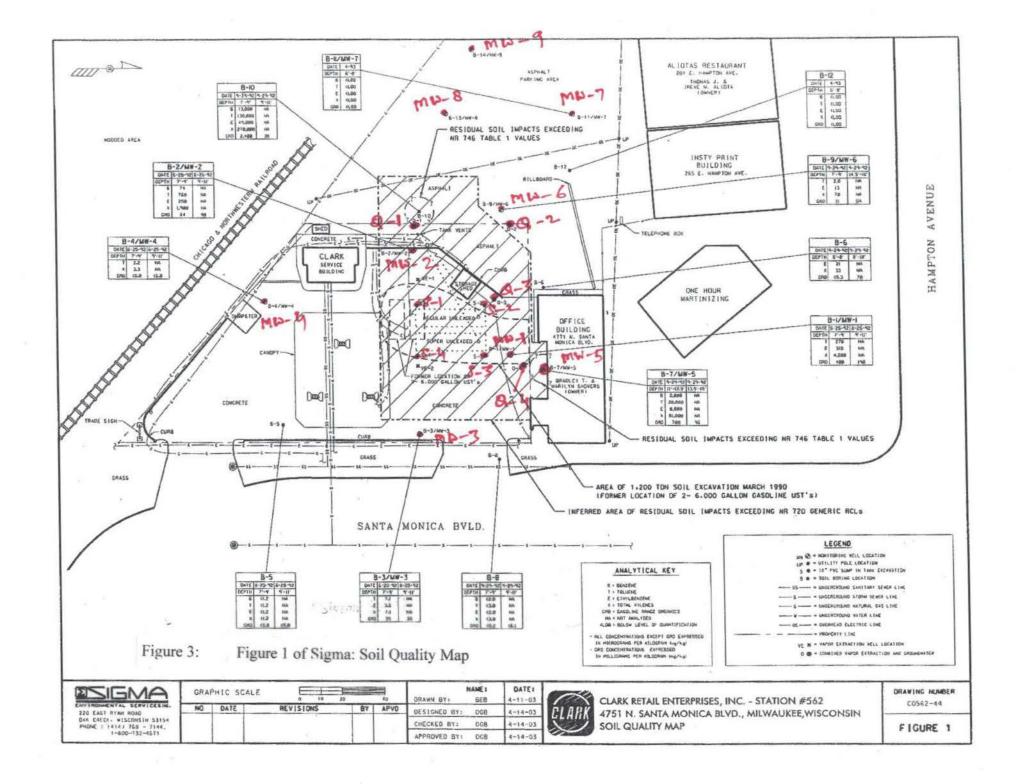
i.u.l. = Instrument Units as Isobutylene

74 = Exceeds NR 720 Generic RCL

13.000 = Exceeds NR 746 Table 1 Value









## East Hampton Avenue

One Hour Martinizing 285 E. Hampton Avenue (Former Gas Station) BRRTS # 03-41-002225 Closed: 03-01-2017

One Hour Martinizing 285 E. Hampton Avenue (Now Dry Cleaning Site) BRRTS # 02-41- 543260 Wells Abandoned on 6/17/22 & 8/5/22

Shover's Realty 4771 N. Santa Monica Blvd.

B-7/MW-5 for Clark Oil

(Abandoned) Alley Manhole MW-4 B-1/MW-1 for Clark Oil -004 (Abandoned) (Proposed) 1100 ppb (s-3) 7/23/2001 650 7/23/2001 Tank Sump Wells MW.3 (Proposed) (Abandoned) 48 ppb 10/30/2001 30 ppb 10/23/2001 (S-4 **BP Gas Station** BRRTS # 03-41-589630 Pump Island CANOPY MW-1 (Proposed) Santa Monica Blvd Pump Island Pump Island MW-2 (Proposed)

Figure 4: Benzene Concentration (ppb) at Closure of BRRTS # 03-41-000450

Site	Consultant	NOT TO SCALE	Project #	Legend
Clark Gas Station 4751 N Santa Monica Blvd.	OM Enterprises, Inc. 124 W Scott Street	0 15 30	3062 Date	Monitoring Well
Milwaukee, WI 53211	Fond du Lac, WI 54935		07/24/2022	Soil Boring

# Ŵ

## East Hampton Avenue

One Hour Martinizing 285 E. Hampton Avenue (Former Gas Station) BRRTS # 03-41-002225 Closed: 03-01-2017 One Hour Martinizing 285 E. Hampton Avenue (Now Dry Cleaning Site) BRRTS # 02-41- 543260 Wells Abandoned on 6/17/22 & 8/5/22

Shover's Realty 4771 N. Santa Monica Blvd.

B-7/MW-5 for Clark Oil (Abandoned)

Closed: 03-01-2017 Alley Manhole MW-4 B-1/MW-1 for Clark Oil (Abandoned) (Proposed) NEW TANK (21-K) INSTALLED ON 3/24/22 **Area Excavated During Tank Installation** 6-K MW.3 (Proposed) 15-K Regular Regular (No Premium) Premium **Tank Sump Well BP Gas Station** 0 MW-i (Proposed) Pump Island BRRTS # 03-41-589630 CANOPY Santa Monica Blvd. Pump Island Pump Island MW-2 (Proposed)

Figure 5: Locations of Proposed Soil Borings and Monitoring Wells

Site	Consultant	NOT TO SCALE	Project #	Legend
Clark Gas Station	OM Enterprises, Inc.	NOT TO SCALE	3062	Monitoring Well
4751 N Santa Monica Blvd, Milwaukee, WI 53211	124 W Scott Street Fond du Lac, WI 54935	0 15 30	Date 07/24/2022	Soil Boring

## Appendix A WDATCP-Tank Registration Forms

Tank Search Public Access  Number of matching records: 6							10/27/2022 4:56
Tank Type	Tank ID	Facility ID	Street Address	Tank Status	Tank Contents	Tank Size (Gal)	Facility Owner
County: Milwaukee County	y, FDID: 402	20					
Underground Storage Tank	57460	416189	4751 N Santa Monica Blvd	Closed/Removed	Unleaded Gasoline	6,000	Clark Of Milwaukee Inc
Underground Storage Tank	57461	416189	4751 N Santa Monica Blvd	Closed/Removed	Unleaded Gasoline	6,000	Clark Of Milwaukee Inc
Underground Storage Tank	112903	416189	4751 N Santa Monica Blvd	Closed/Removed	Unleaded Gasoline	12,000	Clark Of Milwaukee Inc
Underground Storage Tank	113159	416189	4751 N Santa Monica Blvd	Closed/Removed	Unleaded Gasoline	12,000	Clark Of Milwaukee Inc
Underground Storage Tank	238503	416189	4751 N Santa Monica Blvd	Install Pending	Unleaded Gasoline	15,000	Clark Of Milwaukee Inc
Underground Storage Tank	238505	416189	4751 N Santa Monica Blvd	Install Pending	Unleaded Gasoline	6,000	Clark Of Milwaukee Inc

## To go back to your search results please click the back arrow (e) in the above Toolbar

### **Tank Details**

Site and Owner

Facility ID: 416189

Clark Of Milwaukee Inc.

4751 N Santa Monica Blvd

Milwaukee

Site Info

Site Anniversary Date: April 28

County & Municipality

Milwaukee County

City of Milwaukee

Fire Dept ID: 4020

Owner

Clark Of Milwaukee Inc

4751 N Santa Monica Blvd

Milwaukee

WI 53211

Dispenser Has Sumps: N

### Underground Storage Tank - ID: 57460, WANG ID: 402004399, Closed/Removed as of 1990-04-01

Install Date:

Tank Occupancy: Retail Fuel Sales

Capacity In Gallons:

6,000

Contents:

Unleaded Gasoline

Federally Regulated:

Yes

Marketer:

Y

**CAS Number** 

Overfill Protection:

Not Installed

Overfill Prot Type:

Not Installed

Spill Protection: Containment Sump Installed:

Date Of Lining:

N

Not Installed

Lining Inspected Date:

**Corrosion Protect Type:** 

Leak Detection:

Unknown

Wall Type:

Single

**Underground Piping:** 

N

Leak Test Method:

Construction Material:

Coated Steel

#### PIPING -

Flex Connectors:

Type:

**UST Mainfolded:** 

Aboveground Piping:

N

Related Tank ID:

Aboveground Pipe Cons:

Construction Material:

**Corrosion Protect Type:** 

Leak Detection:

Leak Test Method:

Pipe Wall Type:

Piping System Type:

## **Inspection Test Dates**

Catastrophic Leak Detection:

**Test Type** 

**Test Date** 

**Test Expire Date** 

FacilityId	Inspection Type	Inspection Date
416189	Annual	05/09/2016
416189	Annual	07/11/2017
416189	Annual	11/28/2018
416189	Annual	07/08/2020
416189	Annual	08/04/2021

## To go back to your search results please click the back arrow e in the above Toolbar

## **Tank Details**

#### Site and Owner

Site Info

Facility ID: 416189

Clark Of Milwaukee Inc

4751 N Santa Monica Blvd

Milwaukee

Site Anniversary Date: April 28

County & Municipality

Milwaukee County

City of Milwaukee

Fire Dept ID: 4020

Containment Sump Installed:

Owner

Clark Of Milwaukee Inc.

4751 N Santa Monica Blvd

Milwaukee

WI 53211

Dispenser Has Sumps: N

## Underground Storage Tank - ID: 57461, WANG ID: 402004400, Closed/Removed as of 1990-04-01

Install Date:

Capacity In Gallons:

6,000

Contents:

Unleaded Gasoline

Tank Occupancy:

Retail Fuel Sales

Marketer:

Y

**CAS Number** 

Federally Regulated:

Yes

Spill Protection:

Not Installed

Overfill Protection:

Not Installed

Overfill Prot Type:

Not Installed

Date Of Lining:

N

Lining Inspected Date:

Corrosion Protect Type:

Leak Detection:

Unknown

Wall Type:

Single

**Underground Piping:** 

N

**Test Expire Date** 

Leak Test Method:

Construction Material:

Coated Steel

**Test Type** 

#### PIPING -

Flex Connectors:

**UST Mainfolded:** 

**Test Date** 

Related Tank ID:

Type:

**Aboveground Piping:** 

N

Aboveground Pipe Cons:

Construction Material:

Corrosion Protect Type:

Leak Detection:

Leak Test Method:

Pipe Wall Type: Piping System Type:

### Inspection Test Dates

Catastrophic Leak Detection:

Facilityld	Inspection Type	Inspection Date
Inspections	多多。中华的特别。由于美国中国人民民主义	

FacilityId	Inspection Type	Inspection Date
416189	Annual	05/09/2016
416189	Annual	07/11/2017
416189	Annual	11/28/2018
416189	Annual	07/08/2020
416189	Annual	08/04/2021

#### To go back to your search results please click the back arrow e in the above Toolbar **Tank Details** Site and Owner Owner County & Municipality Site Info Clark Of Milwaukee Inc Milwaukee County Facility ID: 416189 4751 N Santa Monica Blvd City of Milwaukee Clark Of Milwaukee Inc Milwaukee 4751 N Santa Monica Blvd Fire Dept ID: 4020 WI 53211 Milwaukee Dispenser Has Sumps: N Site Anniversary Date: April 28 Underground Storage Tank - ID: 112903, WANG ID: 402005373, Closed/Removed as of 2022-03-21 Unleaded Gasoline 04/01/1990 12,000 Contents: Install Date: Capacity In Gallons: Retail Fuel Sales Y **CAS Number** Tank Occupancy: Marketer: Installed Overfill Protection: Federally Regulated: Yes Spill Protection: Installed Lining Inspected Date: 90alrm95auto N Overfill Prot Type: Containment Sump Installed: Sacrificial Anodes **Underground Piping:** N **Corrosion Protect Type:** Date Of Lining: Leak Detection: Automatic Tank Gauge Wall Type: Single Leak Test Method: Monthly Monitoring **Construction Material:** Coated Steel

	PIPING -		
Flex Connectors:	UST Mainfolded:	Related Tank ID:	
Type:	Aboveground Piping: N	Aboveground Pipe Cons:	
Construction Material:	Corrosion Protect Type:	Leak Detection:	
Catastrophic Leak Detection:		Leak Test Method:	
		Pipe Wall Type:	
		Piping System Type:	

Test Type	Test Date	Test Expire Date	
spections			
FacilityId	Inspection Type	Inspection Date	
416189	Annual	05/09/2016	
416189	Annual	07/11/2017	
416189	Annual	11/28/2018	
416189			
416189	Annual	08/04/2021	

## To go back to your search results please click the back arrow e in the above Toolbar

## **Tank Details**

Site and Owner

Facility ID: 416189

Clark Of Milwaukee Inc.

4751 N Santa Monica Blvd

Milwaukee

Site Info

Site Anniversary Date: April 28

County & Municipality

Milwaukee County

City of Milwaukee

Fire Dept ID: 4020

Containment Sump Installed:

Owner

Clark Of Milwaukee Inc

4751 N Santa Monica Blvd

Milwaukee

WI 53211

Dispenser Has Sumps: N

## Underground Storage Tank - ID: 113159, WANG ID: 402005374, Closed/Removed as of 2022-03-21

Install Date:

04/01/1990

Capacity In Gallons:

12,000

Contents:

Unleaded Gasoline

Tank Occupancy:

Retail Fuel Sales

Marketer:

Y

**CAS Number** 

Federally Regulated:

Yes

Spill Protection:

Installed

Single

Overfill Protection:

Installed

Overfill Prot Type: Corrosion Protect Type: 90alrm95auto Sacrificial Anodes

Date Of Lining:

Wall Type:

N

Lining Inspected Date: **Underground Piping:** 

N

Leak Detection:

Automatic Tank Gauge

Leak Test Method:

Monthly Monitoring

Construction Material:

Construction Material:

Catastrophic Leak Detection:

Coated Steel

#### PIPING -

Flex Connectors:

Type:

**UST Mainfolded:** 

Aboveground Piping:

N

Related Tank ID:

Aboveground Pipe Cons:

**Corrosion Protect Type:** 

Leak Detection:

Leak Test Method: Pipe Wall Type:

Piping System Type:

## Inspection Test Dates

**Test Expire Date Test Type Test Date** 

## Inspections

FacilityId	Inspection Type	Inspection Date
416189	Annual	05/09/2016
416189	Annual	07/11/2017
416189	Annual	11/28/2018
416189	Annual	07/08/2020
416189	Annual	08/04/2021

## To go back to your search results please click the back arrow (e) in the above Toolbar

## **Tank Details**

#### Site and Owner

Facility ID: 416189

Clark Of Milwaukee Inc.

4751 N Santa Monica Blvd

Milwaukee

Site Info

Site Anniversary Date: April 28

County & Municipality

Milwaukee County

City of Milwaukee

Fire Dept ID: 4020

Owner

Clark Of Milwaukee Inc.

4751 N Santa Monica Blvd

Milwaukee

WI 53211

Dispenser Has Sumps: N

## Underground Storage Tank - ID: 238503, WANG ID: , Install Pending

Install Date:

03/24/2022

Capacity In Gallons:

15,000

Contents:

Unleaded Gasoline

Tank Occupancy:

Retail Fuel Sales

Marketer:

Y

**CAS Number** 

Federally Regulated:

Yes

Spill Protection:

Installed

Overfill Protection:

Installed

Overfill Prot Type:

90alrm95auto

Containment Sump Installed:

N

Lining Inspected Date: **Underground Piping:** 

N

Corrosion Protect Type:

**Construction Material:** 

Date Of Lining: Wall Type:

Double

Leak Detection: Leak Test Method: Interstitial Monitor - Electronic

Monthly Monitoring

Fiberglass or Poly

#### PIPING -

Flex Connectors:

Type:

**UST Mainfolded:** 

Related Tank ID:

**Aboveground Piping:** 

N

Aboveground Pipe Cons:

Construction Material:

Corrosion Protect Type:

Leak Detection:

Leak Test Method: Pipe Wall Type:

Piping System Type:

### **Inspection Test Dates**

Catastrophic Leak Detection:

**Test Type Test Expire Date Test Date** 

FacilityId	Inspection Type	Inspection Date	
416189	Annual	05/09/2016	
416189	Annual	07/11/2017	
416189	Annual	11/28/2018	
416189	Annual	07/08/2020	
416189	Annual	08/04/2021	

#### To go back to your search results please click the back arrow e in the above Toolbar **Tank Details** Site and Owner Site Info Owner County & Municipality Facility ID: 416189 Clark Of Milwaukee Inc Milwaukee County Clark Of Milwaukee Inc. City of Milwaukee 4751 N Santa Monica Blvd 4751 N Santa Monica Blvd Fire Dept ID: 4020 Milwaukee Milwaukee WI 53211 Site Anniversary Date: April 28 Dispenser Has Sumps: N Underground Storage Tank - ID: 238505, WANG ID: , Install Pending Install Date: 03/24/2022 Contents: Unleaded Gasoline Capacity In Gallons: 6,000 Retail Fuel Sales Y Tank Occupancy: **CAS Number** Marketer: Federally Regulated: Yes Overfill Protection: Installed Spill Protection: Installed Overfill Prot Type: 90alrm95auto Lining Inspected Date: Containment Sump Installed: N Corrosion Protect Type: **Underground Piping:** Date Of Lining: N Interstitial Monitor - Electronic Leak Detection: Wall Type: Double Leak Test Method: Monthly Monitoring Construction Material: Fiberglass or Poly PIPING -Flex Connectors: **UST Mainfolded:** Related Tank ID: Type: Aboveground Piping: N Aboveground Pipe Cons: **Construction Material:** Leak Detection: Corrosion Protect Type: Catastrophic Leak Detection: Leak Test Method: Pipe Wall Type: Piping System Type: **Inspection Test Dates Test Type Test Date Test Expire Date** Inspections

Inspection Type

Annual

Annual

Annual

Annual

Annual

Inspection Date

05/09/2016

07/11/2017

11/28/2018

07/08/2020

08/04/2021

Facilityld

416189

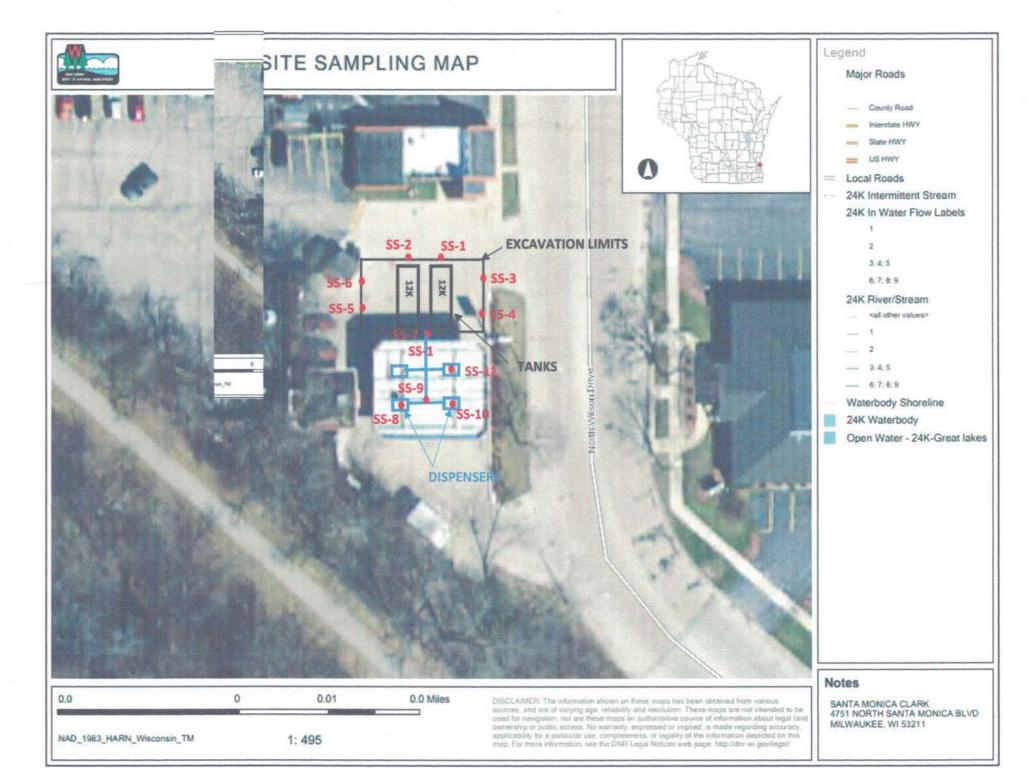
416189

416189

416189

416189

Appendix B General Engineering Corporation (GEC) Map and Photos of UST Removal, 2022 (BRRTS # 03-41-589630)





PHOTOGRAPH OF THE FIRST 12,000-GALLON TANK AFTER REMOVAL



PHOTOGRAPH OF THE SECOND 12,000-GALLON UST JUST AFTER REMOVAL FROM THE EXCAVATION



PHOTOGRAPH OF THE EXCAVATION AFTER REMOVAL OF TANKS



PHOTOGRAPH OF THE TANK BED AFTER OVER EXCAVATION



PHOTOGRAPH OF THE FORMER DISPENSER AREA

Appendix C **Proof for Disposal of Approximately 727 Tons Contaminated** Soils in 2022 (BRRTS # 03-41-589630)



## INVOICE

#### Customer ID:

Customer Name: Service Period: Invoice Date: Invoice Number:

8-99196-03009

GENERAL ENGINEERING 03/16/22 - 03/31/22 04/01/2022 0064091-2286-5

#### **How To Contact Us**

Visit wm.com to sign up for paperless billing or pay your invoices.

Visit wmsolutions.com to manage your waste streams and access additional disposal documentation.







Your Payment Is Due

04/30/2022

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

**Your Total Due** 

\$20,504.06

**Previous Balance** 15,115.58

**Payments** (15,115.58) Adjustments 0.00

**Current Invoice** Charges 20,504.06

Total Account **Balance Due** 

20,504.06

#### **IMPORTANT MESSAGES**

Effective January 1, 2022, our environmental and waste water management charges will be increased or added to your account as specified on your invoice. If you have a disposal agreement, this change may require your consent. For more information about these charges, call our Technical Service Center at 1-800-963-4776.

WASTE MANAGEMENT OF WISCONSIN, INC.

Please detach and send the lower portion with payment --- (no cash or staples) -----

Customer ID (Include with your payment)

Invoice Date 04/01/2022

Invoice Number 0064091-2286-5

8-99196-03009

**Payment Terms** Total Due by

04/30/2022

Total Due \$20,504.06

Amount

PHOENIX, AZ 85080 (800) 963-4776

PO BOX 42390

TSCMIDWEST@WM.COM

2286000089919603009000640910000205040600002050406 7

10401L23

**GENERAL ENGINEERING** 916 SILVER LAKE DR **PORTAGE WI 53901-1015**  Remit To: WM CORPORATE SERVICES, INC. AS PAYMENT AGENT PO BOX 4648 **CAROL STREAM, IL 60197-4648** 



## **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

Customer ID: 8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: na Ticket Total			24.42	TON	1.75	42.74 0.00 0.00 0.00 686.21
Vehicle#: 48 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/22/22	2057862	22.84 22.84 22.84 22.84	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 548.16 25.12 28.55 39.97 0.00 0.00 641.80
Vehicle#: 72 ENVIRONMENTAL FEE TON Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/22/22	2057866	19.95 19.95 19.95 19.95	TON TON TON TON	1.75 24.00 1.10 1.25	0.00 34.91 478.80 21.95 24.94 0.00 0.00 0.00 560.60
Vehicle#: 57 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/22/22	2057870	20.35 20.35 20.35 20.35	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 488.40 22.39 25.44 35.61 0.00 0.00 571.84
Vehicle#: 9 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/22/22	2057907	20.02 20.02 20.02 20.02	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 480.48 22.02 25.03 35.04 0.00 0.00 562.57
Vehicle#: 85 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/22/22	2057913	19.54 19.54 19.54 19.54	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 468.96 21.49 24.43 34.20 0.00 0.00 0.00 549.08
Vehicle#: 72 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI	03/22/22	2057915	20.31 20.31 20.31 20.31	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 487.44 22.34 25.39 35.54 0.00



#### Customer ID:

Customer Name: Service Period: Invoice Date: Invoice Number: 8-99196-03009

GENERAL ENGINEERING 03/16/22 - 03/31/22 04/01/2022 0064091-2286-5

## **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

Customer ID: 8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Generator SANTA MONICA CLARK						0.00
Manifest#: NA Ticket Total						0.00 <b>570.7</b>
ricket rotal						370.7
Vehicle#: 57	03/22/22	2057917				0.00
PO#:WALTS SANTA MONICA P			and the second	2000		0.00
Unspecified material, bioremediated, daily cover,			20.24	TON	24.00	485.7
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON			20.24	TON	1.10 1.25	22.2 25.3
ENVIRONMENTAL FEE TON			20.24	TON	1.75	35.4
Profile # BIO136932WI						0.0
Generator SANTA MONICA CLARK						0.0
Manifest#: NA Ticket Total						0.0
Ticket Total					i i	568.7
Vehicle#: 48	03/22/22	2057920				0.0
PO#:WALTS SANTA MONICA P			Marian V	122-0710		0.0
Unspecified material, bioremediated, daily cover,			22.34	TON	24.00	536.1
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON			22.34 22.34	TON	1.10	24.5 27.9
ENVIRONMENTAL FEE TON			22.34	TON	1.75	39.1
Profile # BIO136932WI				27,00		0.0
Generator SANTA MONICA CLARK						0.0
Manifest#: NA Ficket Total						0.0 <b>627.7</b>
Ticket Total						027.7
Vehicle#: 85	03/22/22	2057971				0.0
PO#:WALTS SANTA MONICA P						0.0
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON			24.37 24.37	TON	24.00	584.8 26.8
FUEL SURCHARGE TON			24.37	TON	1.25	30.46
ENVIRONMENTAL FEE TON			24.37	TON	1.75	42.6
Profile # BIO136932WI		- 1		0.0000	18692	0.0
Generator SANTA MONICA CLARK						0.0
Manifest#: na Ticket Total						0.00 <b>684.8</b> 0
Ticket Forti						004.00
/ehicle#: 72	03/22/22	2057973				0.00
PO#:WALTS SANTA MONICA P			the action		100000000	0.00
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON			19.25 19.25	TON	24.00	462.00
FUEL SURCHARGE TON			19.25	TON	1.10 1.25	21.18
NVIRONMENTAL FEE TON			19.25	TON	1.75	33.69
Profile # BIO136932WI						0.00
Generator SANTA MONICA CLARK Manifest#: na						0.00
ricket Total						0.00 <b>540.9</b> 3
						5-10.5.
Vehicle#, 57	03/22/22	2057975			1	0.00
PO#:WALTS SANTA MONICA P			24.24	TON	2 4 40	0.00
Inspecified material, bioremediated, daily cover, NASTE WATER MANAGEMENT TON			21.34 21.34	TON	24.00	512.16 23.47
UEL SURCHARGE TON			21.34	TON	1.25	26.68
NVIRONMENTAL FEE TON			21.34	TON	1.75	37.35
Profile # BIO136932WI						0.00
Generator SANTA MONICA CLARK Manifest#: na						0.00
Ficket Total						599.66



# **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

**Customer ID:** 

8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 48 PO#:WALTS SANTA MONICA P	03/22/22	2057977				0.00
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON			20.61	TON	24.00	494.64
FUEL SURCHARGE TON			20.61 20.61	TON	1.10 1.25	22.67 25.76
ENVIRONMENTAL FEE TON			20.61	TON	1.75	36.07
Profile # BIO136932WI Generator SANTA MONICA CLARK						0.00
Manifest#: na		1				0.00
Ticket Total						579.14
Vehicle#: 9	03/22/22	2057980				0.00
PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover,			24.00	TON		0.00
WASTE WATER MANAGEMENT TON			21.99 21.99	TON	24.00	527.76 24.19
FUEL SURCHARGE TON			21.99	TON	1.25	27.49
ENVIRONMENTAL FEE TON Profile # BIO136932WI			21.99	TON	1.75	38.48
Generator SANTA MONICA CLARK						0.00
Manifest#: NA Ticket Total						0.00
						617.92
Vehicle#; 74 PO#:WALTS SANTA MONICA P	03/23/22	2058084				0.00
Unspecified material, bioremediated, daily cover,			20.54	TON	24.00	0.00 492.96
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON			20.54	TON	1.10	22.59
NVIRONMENTAL FEE TON			20.54	TON	1.25 1.75	25.68
Profile # BIO136932WI			20.54	TON	1./5	35.95 0.00
Generator SANTA MONICA CLARK Manifest#: na						0.00
Ticket Total						0.00 <b>577.18</b>
/ehicle#: 57	03/23/22	2058089				
O#:WALTS SANTA MONICA P						0.00
Inspecified material, bioremediated, daily cover, VASTE WATER MANAGEMENT TON			23.32	TON	24.00	559.68
UEL SURCHARGE TON			23.32	TON	1.10	25.65 29.15
NVIRONMENTAL FEE TON rofile # BIO136932WI			23.32	TON	1.75	40.81
enerator SANTA MONICA CLARK					1	0.00
Aanifest#: NA		- 1				0.00
icket Total						655.29
ehicle#: 59	03/23/22	2058092				0.00
O#:WALTS SANTA MONICA P nspecified material, bioremediated, daily cover,			20.24	7011		0.00
ASTE WATER MANAGEMENT TON			20.34	TON	24.00	488.16 22.37
JEL SURCHARGE TON			20.34	TON	1.25	25.43
NVIRONMENTAL FEE TON rofile # BIO136932WI	1		20.34	TON	1.75	35.60
enerator SANTA MONICA CLARK						0.00
anifest#: NA cket Total	1					0.00
						571.56
Phicle#: 74 D#:WALTS SANTA MONICA P	03/23/22	2058127				0.00
nspecified material, bioremediated, daily cover,			22.89	TON	24.00	0.00
ASTE WATER MANAGEMENT TON			22.89	TON	1.10	549.36 25.18
JEL SURCHARGE TON IVIRONMENTAL FEE TON			22.89	TON	1.25	28.61
ofile # BIO136932WI			22.89	TON	1.75	40.06
enerator SANTA MONICA CLARK						0.00
lanifest#; NA icket Total						0.00
Tana Tana Tana Tana Tana Tana Tana Tan						643.21



#### **Customer ID:**

Customer Name: Service Period: Invoice Date: Invoice Number:

### 8-99196-03009

GENERAL ENGINEERING 03/16/22 - 03/31/22 04/01/2022 0064091-2286-5

# **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

Customer ID: 8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 57	03/23/22	2058130		Measure	011 W-742 W-74	0.00
PO#:WALTS SANTA MONICA P						0.00
Unspecified material, bioremediated, daily cover,			22.63	TON	24.00	543.12
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON			22.63	TON	1.10	24.89
ENVIRONMENTAL FEE TON			22.63	TON	1.25	28.29
Profile # BIO136932WI			22.63	TON	1.75	39.60
Generator SANTA MONICA CLARK						0.00
Manifest#: NA						0.00
Ticket Total						0.00 <b>635.90</b>
Vehicle#: 59	03/23/22	2058139				0.00
PO#:WALTS SANTA MONICA P	33,23,22	2030.53				0.00
Unspecified material, bioremediated, daily cover,			21.02	TON	24.00	504.48
WASTE WATER MANAGEMENT TON			21.02	TON	1.10	23.12
FUEL SURCHARGE TON		1	21.02	TON	1.25	26.28
ENVIRONMENTAL FEE TON			21.02	TON	1.75	36.79
Profile # BIO136932WI Generator SANTA MONICA CLARK						0.00
Manifest#: na						0.00
Ticket Total						0.00 <b>590.67</b>
Vehicle#: 9	02/22/22	2050445				350.07
PO#:WALTS SANTA MONICA P	03/23/22	2058147				0.00
Unspecified material, bioremediated, daily cover,			19.99	TON	24.00	0.00
WASTE WATER MANAGEMENT TON			19.99	TON	24.00	479.76
FUEL SURCHARGE TON			19.99	TON	1.25	21.99 24.99
ENVIRONMENTAL FEE TON			19.99	TON	1.75	34.98
Profile # BIO136932WI			(277.500.6%)	MASSO   1	10000001	0.00
Generator SANTA MONICA CLARK						0.00
Manifest#: na Ticket Total					1	0.00
CONTRACTOR STATE						561.72
Vehicle#: 74	03/23/22	2058172			1	0.00
PO#:WALTS SANTA MONICA P		- 1				0.00
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON		1	21.59	TON	24.00	518.16
FUEL SURCHARGE TON			21.59	TON	1.10	23.75
ENVIRONMENTAL FEE TON			21.59	TON	1.25	26.99
Profile # BIO136932WI			21.59	TON	1.75	37.78
Generator SANTA MONICA CLARK						0.00
Manifest#: na	1 1					0.00
Ficket Total						0.00 <b>606.68</b>
/ehicle#: 57	03/23/22	2050175				
PO#:WALTS SANTA MONICA P	03/23/22	2058175				0.00
Inspecified material, bioremediated, daily cover,			22.08	TON	24.00	0.00
NASTE WATER MANAGEMENT TON			22.08	TON	24.00	529.92
FUEL SURCHARGE TON		1	22.08	TON	1.25	24.29 27.60
NVIRONMENTAL FEE TON			22.08	TON	1.75	38.64
Profile # BIO136932WI			30 m. m. m. m.		1.000	0.00
Generator SANTA MONICA CLARK						0.00
Manifest#: na						0.00
Ticket Total						620.45
/ehicle#: 68	03/23/22	2058180				0.00
O#:WALTS SANTA MONICA P	, non-resource					0.00
Inspecified material, bioremediated, daily cover,			18.69	TON	24.00	448.56

# **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

Customer ID: 8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: na Ticket Total			18.69 18.69 18.69	TON TON TON	1.10 1.25 1.75	20.56 23.36 32.71 0.00 0.00 0.00 <b>525.19</b>
Vehicle#: 9 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: na Ticket Total	03/23/22	2058191	19.18 19.18 19.18 19.18	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 460.32 21.10 23.98 33.57 0.00 0.00 0.00
Vehicle#: 74 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total	03/23/22	2058221	14.75 14.75 14.75 14.75	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 354.00 16.23 18.44 25.81 0.00 0.00 414.48
Vehicle#: 57 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: na Ticket Total	03/23/22	2058231	20.08 20.08 20.08 20.08	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 481,92 22,09 25,10 35,14 0.00 0.00 0.00
Vehicle#: 59 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ficket Total	03/23/22	2058311	19.97 19.97 19.97 19.97	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 479.28 21.97 24.96 34.95 0.00 0.00 0.00
Vehicle#: 74 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ficket Total	03/23/22	2058316	18.21 18.21 18.21 18.21	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 437.04 20.03 22.76 31.87 0.00 0.00 0.00 511.70
/ehicle#: 57 'O#:WALTS SANTA MONICA P Jnspecified material, bioremediated, daily cover, VASTE WATER MANAGEMENT TON	03/23/22	2058318	20.14 20.14	TON TON	24.00 1.10	0.00 0.00 483.36 22.15



#### **Customer ID:**

Customer Name: Service Period: Invoice Date: Invoice Number:

## 8-99196-03009

GENERAL ENGINEERING 03/16/22 - 03/31/22 04/01/2022 0064091-2286-5

# **DETAILS OF SERVICE - continued**

**Details for Service Location:** 

General Engineering, 916 Silver Lake Dr, Portage WI 53901-1015

Customer ID: 8-99196-03009

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
FUEL SURCHARGE TON ENVIRONMENTAL FEE TON Profile # BIO136932WI Generator SANTA MONICA CLARK Manifest#: NA Ticket Total			20.14 20.14	TON	1.25 1.75	25.18 35.25 0.00 0.00 0.00 565.94
Total Current Charges						20,504.06

Appendix D Foth & Van Dyke Notification of Contamination to the WDNR, September 1989 (Closed BRRTS # 03-41-000450)

1693-

# Foth & Van Dyke

LETTER REPORT

UNDERGROUND STORAGE TANK INVESTIGATION/SITE ASSESSMENT

at

CLARK STATION NO. 562 4751 NORTH SANTA MONICA AVENUE WHITEFISH BAY, WISCONSIN

Scope I.D. 89C47

# RECEIVED

SEP 2 8 1989

D.N.R. SED Hqtrs. Milwaukee, WI

## Prepared for:

CLARK OIL & REFINING CORPORATION 9451 North 107th Street Milwaukee, Wisconsin 53202

CLARK OIL & REFINING CORPORATION 8182 Maryland Avenue St. Louis, Missouri 63105-3721

SEPTEMBER 1989

# Foth & Van Dyke

Thitects
Planners
Scientists

Economists

Two Park Plaza Suite 950 10850 West Park Place Milwaukee, WI 53224-3619 414/359-2500

September 19, 1989

Mr. Lindy Lindberg Clark Oil & Refining Corporation 9451 North 107th Street Milwaukee, Wisconsin 53224 89C47

Mr. Jeffrey Bingham
Environmental Project Coordinator
Clark Oil & Refining Corporation
8182 Maryland Avenue
St. Louis, Missouri 63105-3721

#### Gentlemen:

RE: UNDERGROUND STORAGE TANK INVESTIGATION/SITE ASSESSMENT STATION NO. 562
4751 NORTH SANTA MONICA AVENUE WHITEFISH BAY, WISCONSIN

#### EXECUTIVE SUMMARY

On August 28, 1989, a total of three borings were drilled and sampled by a Foth & Van Dyke geologist; two to a depth of 13 feet and one to a depth of 4 feet, at the Clark Oil Station located at Hampton Avenue and Santa Monica in Whitefish Bay, Wisconsin. Soil contamination was detected in the field using a photoionization meter which detects organic vapors. Composite soil samples were therefore collected from each boring and were submitted for analysis of Total Petroleum Hydrocarbons (TPH) and Benzene, Ethylbenzene, Toluene, and Xylene (BETX) and a waste characterization profile was obtained on a composite soil sample from the site.

Although regulations do not currently exist for this type of contamination in soil, proposed Wisconsin Department of Natural Resources (WDNR) guidelines establish 10 parts-permillion (ppm) of TPH and/or 10 ppm of BETX for a cleanup standard. Soils with contamination in excess of the 10 ppm guideline will require treatment or disposal at a licensed landfill.



The analytical results for the Hampton Avenue and Santa Monica Clark Oil Station indicate significant contamination (minimum 182.6 ppm BETX) in both of the 13-foot borings. The 4-foot soil boring drilled adjacent to one of the islands detected 13 ppm gasoline.

#### PURPOSE AND SCOPE OF INVESTIGATION

## Purpose of Investigation

The purpose of this investigation was to determine whether there is evidence of soil contamination at the site.

### Scope of Investigation

The scope of the investigation included the following:

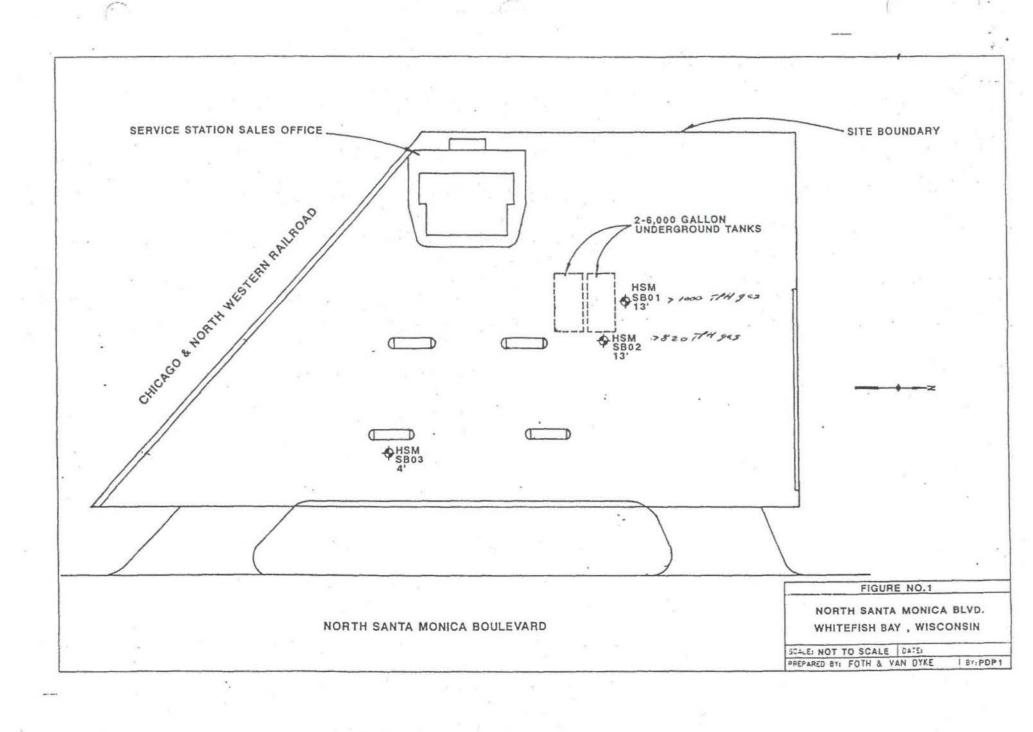
- Survey of the site using a metal detector to determine location of underground storage tanks and pipes.
- Drilling of two soil borings to a depth of 13 feet and one soil boring to a depth of 4 feet with samples collected from each boring and monitored in the field using an organic vapor detector.
- Laboratory analysis of one soil sample from each boring for Total Petroleum Hydrocarbons (TPH), and Benzene, Ethylbenzene, Toluene, and Xylene (BETX).
- Laboratory analysis of a composite soil sample from the site for a waste characterization profile (necessary for disposal of contaminated soils at a licensed landfill).

### SITE DESCRIPTION AND BACKGROUND

The site consists of the Clark Oil Station No. 562, located at Hampton Avenue and Santa Monica in Whitefish Bay, Wisconsin. Figure No. 1 shows the location of the tanks on the site.

#### REGIONAL/LOCAL GEOLOGY

The geology of this portion of Milwaukee County, Wisconsin is characterized by Pleistocene glacial deposits associated with the Lake Michigan Glacial Lobe. The deposits range in thickness from 50 to 200 feet and consist of lacustrine



silt and clay, fluvial sand and gravel, and clayey, silty till. Glacial deposits in the region are underlain by a thick (>2,000 feet) sequence of Silurian, Ordivician, and Cambrian aged dolomites, shales, and sandstones.

#### FINDINGS OF INVESTIGATION

### Investigation Activities

On August 28, 1989, a field crew was mobilized to the site. One 4-foot soil boring and two 13-foot soil borings were drilled, and one composite soil sample was collected from each boring and submitted to a laboratory for analysis of TPH and BETX. Sample locations are shown in Figure No. 1 and were based on the results of a magnetic survey conducted to locate underground storage tanks and pipes. The borings were drilled by Wisconsin Test Drilling using a D-50 drill rig and 4.25-inch I.D. hollow stem augers. Samples were collected utilizing a decontaminated 2-inch O.D. split-spoon sampler, and were monitored in the field using a Photovac TIP 1 Photoionization Detector (PID).

The maximum PID reading (see attached boring logs) was 1,370 parts per million (ppm) in Boring No. HSMSB02. The Wisconsin Department of Natural Resources recommends using 10 ppm as a guideline for classification of soils. PID readings in excess of 10 ppm indicate soil contamination.

Since contamination was detected at the site, a composite sample was collected from all of the borings and submitted to the laboratory for a waste characterization profile. This information, along with the BETX and TPH values from each contaminated boring, will be necessary in order to dispose of the contaminated soils at a licensed landfill. Foth & Van Dyke has submitted the necessary paperwork to Waste Management for disposal of the soils at Metro Landfill. Approval from the landfill is expected within 1 to 2 weeks.

Boring logs were maintained by a qualified geologist and equipment decontamination procedures were followed to minimize the possibility of cross-contamination between samples and boreholes. All downhole drilling equipment (i.e. augers, bits, drill rods, etc.) was steam cleaned between borings. Split-spoon samplers and stainless steel sampling equipment were decontaminated between samples as follows:

- · Tap Water/Trisodium Phosphate Detergent (TSP) Wash.
- · Tap Water Rinse.
- · Reagent Grade Methyl Alcohol Rinse.
- · Distilled Water Rinse.
- · Air Dried.

### Investigation Results

Soil analytical results are summarized in Table No. 1. Both of the 13-foot borings contained BETX and Gasoline concentrations in excess of WDNR cleanup standards (10,000 ppb total BETX or gasoline). The minimum contaminant level detected in these two borings was 182,600 ppb total BETX. Boring No. HSMSB03 also detected BETX and gasoline in the soil, but contaminant levels are significantly lower than in the borings near the tanks. The maximum contamination detected in Boring No. HSMSB03 was 13,000 ppb gasoline.

The analytical results from this site investigation indicate that soils excavated from the tank pit during tank removal operations will require disposal at a licensed landfill.

#### TABLE NO. 1

Soil Analytical Results Clark Oil Station No. 562 4751 North Santa Monica Avenue Whitefish Bay, Wisconsin

Parameter (parts per		3 7 3	
hillion)	HSMS <u>B0</u> 1-C	HSMSB02-C	HSMSB03-C
Benzene	8,900	ND	ND
Ethylbenzene	9,700	250,000	53
Toluene	54,000	960,000	67
Xylene	110,000	2,800,000	1,200
Total BETX	182,600	4,010,000	1,320
Gasoline	>1,000,000	>820,000	13,000

ND: Not Detected

WDNR Cleanup Standards - >10,000 ppb Total BETX or Gasoline

#### LIMITATIONS OF INVESTIGATION

Our investigation was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable Engineers and Geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The interpretations and conclusions contained in this report are based on the results of laboratory tests and analysis intended to detect the presence and concentration of certain chemical constituents in samples taken from the subject property. Such testing and analysis have been conducted by an independent laboratory which is certified by the State of Wisconsin to conduct such test analysis, and which used methodologies mandated by the Environmental Protection Agency in the performance of such test and analysis. Consultant has no involvement in , or control over, such testing and analysis and has no non-laboratory means of confirming the occurrence of such laboratory results. Consultant, therefore, disclaims any responsibility for any inaccuracy in such laboratory results.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agencies.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of the report may be investigated wholly or partially by changes outside our control.

The opportunity to be of service is appreciated. If you have any questions, please call.

Respectfully submitted,

FOTH & VAN DYKE

Liz Porter Project Geologist

EMP:kll

Enclosure

# Foth & Van Dyke

Engineers

Architects

Planners .

Scientists

Economists

September 27, 1989

Two Park Plaza Suite 950 10850 West Park Place Milwaukee, WI 53224-3619 414/359-2500

Ms. Bernice Aument Wisconsin Dept. of Natural Resources Southeast District Office 2300 North Martin Luther King Drive Milwaukee, WI 53212 89C46 89C47

Dear Ms. Aument:

RE: INITIAL SITE ASSESSMENTS AT TWO MILWAUKEE AREA CLARK STATIONS

Enclosed please find copies of Foth & Van Dyke's initial site assessments on the following Clark Oil Stations:

1. Clark Oil Station No. 365 13th and Layton Avenue Milwaukee, Wisconsin RECEIVED

SEP 2 8 1989

2. Clark Oil Station No. 562 4751 North Santa Monica Avenue Whitefish Bay, Wisconsin

D.N.H. SED Hqus. Milwaukee, WI

As the reports indicate, evidence of contamination was encountered at both sites.

Contaminated soils from the Clark Oil Station at 13th and Layton have been approved for disposal at Metro Landfill. The two underground storage tanks were removed from the site on September 22, 1989, and excavation and transport of the soils began on September 25, 1989. Foth & Van Dyke is monitoring the excavation and will be collecting samples from the sides and base of the excavation pit. A follow-up report on this site will be submitted once the results of the excavation samples are available.

Removal of the underground storage tanks and excavation of the contaminated soils are also planned at the Santa Monica station. The timetable for this remediation has not yet been established, but the permitting process for disposal of the contaminated soils at Metro Landfill has already been initiated.



Bureau for Remediation and Redevelopment Activity Detail Report - Case Tracking Activity Number: 03-41-000450 Transferred to: DCOM Waste DATCP RECEIVED Activity Type: LUST DCOM Number: 53211104351 MAR 1 8 2003 Activity Name: CLARK OIL STATION #562 Activity Address: ERS DIVISION County: MINWAUKEE Region: Southeast Region FID: 241574850 Location Name: CLARK OIL STATION #562 EPA ID: Location Address: 4751 N SANTA MONICA BLVD Start Date: 09/28/1989 End Date: OPEN Municipality: WHITEFISH BAY Project Manager: Priority: High Score: 38.00 LUST Trust Eligible: FEDERAL Comments: Activity Geo Location: Legal Desc: None Found Latitude: None Found Longitude: None Found SHWIMS Geo Location: Legal Desc: None Found Latitude: None Found Longitude: None Found VPLE ✓ Co-Contamination ✓ PECFA Eligible PECFA 80K Failure Gen Prop ✓ Tracked by DCOM PECFA 80K Who: Contact Type: RESPONSIBLE PARTY Phone: (734) 669-6155 Ext: Name: Fax: (734) 668-9631 Title: E-Mail: eric.larson@clarkretail.com Company: CLARK RETAIL ENTERPRISES Address: ATTN ERIC LARSON 601 S MAIN ST ANN ARBOR, MI 48104 Contact Type: CONSULTANT Phone: (414) 768-7144 Ext: Name: Fax: (414) 768-7158 Title: E-Mail: Company: SIGMA ENVIRONMENTAL SERVICES INC Address: 220 E RYAN RD OAK CREEK, WI 53154 Impacts: Soil Contamination Groundwater Contamination Free Product Co-contamination Risk: Medium Risk Assigned: 03/12/2003 Substances:

Notification

Gasoline - Leaded Gasoline - Unleaded

Actions:

09/28/1989

## Bureau for Remediation and Redevelopment Activity Detail Report - Case Tracking

(Annahuses)		
Actions 37	SI Report Received (w/out Fee) SI REPORT RECV'D	07/08/1991
36	Site Investigation Workplan Approved SI WORK PLAN APPV'D	08/18/1992
43	Status Report Received QRTLY/MTHLY STATUS RPT	11/10/1992
37	SI Report Received (w/out Fee)/2 SI REPORT RECV'D	11/19/1992
37	SI Report Received (w/out Fee)/3 SI REPORT RECV'D	05/24/1994
43	Status Report Received/2 QRTLY/MTHLY STATUS RPT	03/16/1995
3	Notice of Noncompliance (NON) NTC OF NON COMPLIENCE	04/05/1995
39	Remedial Action Options Report received (w/out Fee) RA WORK PLAN RECV'D	08/02/1995
40	Remedial Action Options Report Approved RA WORK PLAN APPV'D	08/29/1995
99	Miscellaneous RE-SCORE TO 38.00	09/05/1995
99	Miscellaneous/2 REC'D LETTER ABOUT REMEDIAL SYSTEMS OPERATION	02/04/1997
43	Status Report Received/3	05/07/1997
80	Closure Not Approved	05/30/1997
43	Status Report Received/4	07/25/1997
43	Status Report Received/5	04/20/1998
92	O&M Report Received (w/out Fee)	12/03/1999
43	Status Report Received/6	12/03/1999
43	Status Report Received/7 SOIL & GW REMEDIATION SYSTEM	08/14/2000
79	Closure Review Request Received with Fee REC'D CK#37131 \$750.00 - REC'D GIS PKT GIVEN TO MW 9/2	09/17/2002 20/02 JH PICKED UP 10/11/02
700	Date Groundwater Registry Fee Received REC'D CK # 37132 \$250.00	09/18/2002
90	Start FIFO Review JH GIS PKT COMPLETE (MW)	10/07/2002
91	End FIFO Review  JH ADDITIONAL INFO REQUEST FOR CLOSURE DETERMINATION OF THE PROPERTY OF THE P	11/05/2002 ATION
76	Activity Transferred to DCOM	03/12/2003

# LEAKING UNDERGROUND STORAGE TANK (Case Tracking) Form 4400-146 Rev. 2-93

	1153 1050 1
UID Number: 450 FID Number:	4 15 7 4850 PMN Number:
County: 41	_ Initial Contact Date: 9 28.89
Sice Name: Clark Oil Station 4 562	_ Date &PLetter Sent:
Address: 4751 N. Santon Manica	Date Closure Approved:
	- Jan Cosac Approved
Municipality:	Person/Firm Reporting:
Legal Descript: 1/4 1/4 sec. T NR E	mi-
Lat: Long:	Phone Number: ( )
2 = Medium 2 2 = 3 = Low 3 3 = 3 = 4 = Unknown 4 1 = 5	Source Effective Date LUST Trust Eligible  RP LTF
F) Free Product Removal  E) RP Emergency Response  R) LTF Emergency Response  L) Long Term Monitoring  Responsible Party Maureen Turman	Start Date End Date
Company Name: Clark Refining + Marketing	Enter "P" for potential and "K" for known
Contact Person: 1307 Butter field Rd Suite4	
Address: Nowhers Grove ILM	(2) Contaminated Private Well(s, #of Wells
208 121 5220	(3) Contaminated Public Well
Phone Number: 198 . 434-5300 9×6	(4) Groundwater Contamination
CC.	
and the second s	(6) Other:
A disc on	(7) Surface Water Impacts
	(9) Floating Product
Consultant	Substances # Tank(s) Size
Company Names: 5 4 pma	CONTRACT ENDING TO THE PARTY OF
Contract Name:	(1) Leaded Gas
Address:	(3) Diesel
The state of the s	(4) Fuel Oil
Telephone: ( )	(8) Other:————————————————————————————————————

CONKOIL #562 241574850 ERR-LUST

TD#			DJECT MANAGER_	
ID#	FID#	ACTION	ACTION DATE	ACTION COMMENTS
		37	5 12/94 8/2/95 8/29/95	
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## ACTION CODES

02 = RP Letter Sent*	33 = Tank Cls/SA Report Rec'd
03 = Notice of Noncompliance*	34 = Tank Cls/SA Report Appvd
04 = Enforcement Conference*	35 = SI Workplan Rec'd*
14 = Notice of Violation*	36 = SI Workplan Appyd*
18 = Admin. Order Issued*	37 = SI Report Rec'd
19 = Admin. Order Modified	38 = SI Report Appvd*
20 = Admin. Order Cancelled	39 = RA Workplan Rec'd*
21 = Contest Case Hearing*	40 = RA Workplan Appyd®
23 = Referral to DOJ*	41 = RA Report Rec'd*
30 = Notice to Proceed*	42 = RA Report Appyd*
31 = Tnk Cls/SA Workplan Rec'd	
32 = Tnk Cls/SA Workplan Appvo	d 44 = Form 4 Received

45 = Form 4 Approved 46 = Form 4 Denied 47 = PECFA Reimbursement 48 = Free Product Recovery\* 49 = Alternate Water Supplied\*

60 = Consent Order +

NOTE: \* = EPA Reporting Requirements

ATTACHMENT

Boring Logs

LOG OF TEST BORING NO.: HSMSB01

CLIENT: CLARK OIL

PROJECT: HAMPTON & SANTA MONICA

PROJECT NUMBER: 89C47

LOCATION:

SURFACE ELEVATION:

BORING DEPTH:

13.0 FT.

DATE:

08-28-89

EPTH FR	SAMP DEPTH INTERVAL	TYPE	#	N	REC (in)	DESCRIPTION OF MATERIAL	CLASS	UNCONFINED STRENGTH	MOISTURE	PID	DRILLING AND SAMPLING NOTE
0.0						REBAR CONCRETE ' 0.5"					
	2.5-4.0	ss	1	21	18	M. DENSE, M. TO C. SAND & GRAVEL FILL, SOME WOOD BROWN TO RED,	hf		DRY	67.0	
5.0	5.0-6.5	ss	2	21	18	STRONG COOR M. DENSE, TAN F. SAND W/ TR. SILT,	hf		DRY	400.	
	7.5-9.0	ss	3	19		STRONG ODOR-FILL M. DENSE, TAN TO GRAY CLAYEY SAND W/ SOME SILT, V. STRONG ODOR	sc		SL. MOIST	750.	
10.0	10.0-12.0	ss	4	10	24	STIFF TAN CLAY, SOME F. SAND	cl	×.	SL.MOIST	849.	5
A Li	12.0-13.0	ss	5	6	12	AS ABOVE E.O.B. 13.0'	u i		SL. MOIST	350.	T=1520 1D NO. HSMSB01
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START DATE: 08-28-89 COMPLETION DATE: 08-28-89

LOGGED BY: B. HACKENBERG
DRILLING METHOD: 4.25" HSA
DRILLING CONTRACTOR: WISCONSIN TEST DRILLING

WATER LEVEL INFORMATION

DEPTH AT COMPLETION: DRY LATER TIME/DEPTH:

LATER TIME/DEPTH: CAVE-IN DEPTH:

DRILLING LOSSES:

LOG OF TEST BORING NO.: HSMSBO2

CLIENT: CLARK OIL PROJECT: HAMPTON & SANTA MONICA PROJECT NUMBER: 89C47

LOCATION:

SURFACE ELEVATION:

BORING DEPTH:

13.0 FT.

08-28-89 DATE:

ND SURF	SAMP DEPTH INTERVAL	TYPE	#	N	(in)	DESCRIPTION OF MATERIAL	CLASS	UNCONFINED STRENGTH	MOISTURE	PID	DRILLING AND SAMPLING NOTE
- 0.0						REBAR CONCRETE 0.5"					
	2.5-4.0	ss	1	5	18	LOOSE, M. TO C. SAND & GRAVEL FILL BROWN, ODOR, FEW GLASS SHARDS	hf		DRY	65.0	#
- 5.0	5.0-6.5	\$S	2	21	18	M. DENSE, TAN F. SAND, STRONG ODOR	hf		DRY	352.	
	7.5-9.0	SS	3	19	18	M. DENSE, GRAY SILTY SAND, V. STRONG ODOR	sm		SL. MOIST	1300	
- 10.0	10.0-12.0	ss	4	8	24	LOOSE, GRAY SILTY F. SAND W/ SOME CLAY, V. STRONG ODOR AS ABOVE	sm		SL.MOIST	1370	
	12.0-13.0	ss	5	9	12	AS ABOVE			SL. MOIST	1296	T=1610 ID NO. HSMSB02
- 15.0		- 1				E.O.B. 13.0'		8			
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START DATE: 08-28-89
COMPLETION DATE: 08-28-89
LOGGED BY: B. HACKENBERG
DRILLING METHOD: 4.25" HSA
DRILLING CONTRACTOR: WISCONSIN TEST DRILLING

WATER LEVEL INFORMATION

DEPTH AT COMPLETION: DRY LATER TIME/DEPTH:

LATER TIME/DEPTH:

CAVE-IN DEPTH:

DRILLING LOSSES:

LOG OF TEST BORING NO .: HSMSBO3

CLIENT: CLARK OIL
PROJECT: HAMPTON & SANTA MONICA
PROJECT NUMBER: 89C47

LOCATION:

SURFACE ELEVATION:

BORING DEPTH: 4.0 FT.

08-28-89

EPTH FR ND SURF	SAMP DEPTH INTERVAL	TYPE	#	N	REC (in)	DESCRIPTION	OF MATERIAL		CLASS	UNCONFINED STRENGTH	MOISTURE	PID	DRILLING AND SAMPLING NOTES
- 0.0	0.5-2.0	SS	1 2	15	4	REBAR CONCRETE SOFT, BROWN CLAY 8 SOME GLASS SHARDS, M. DENSE, TAN TO B GRAVEL	C. GRAVEL, C FILL HITE SAND &	0.5" DOOR	hf hf	0.25	DRY DRY	20.0	T=1650 ID NO. HSMSBO3-
5.0	201						E.O.B. 4	4.0'		TEN	¥		io noi noioco
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START DATE: 08-28-89
COMPLETION DATE: 08-28-89
LOGGED BY: B. HACKENBERG
DRILLING METHOD: 4.25" HSA
DRILLING CONTRACTOR: WISCONSIN TEST DRILLING

DEPTH AT COMPLETION: LATER TIME/DEPTH: LATER TIME/DEPTH:

WATER LEVEL INFORMATION

CAVE-IN DEPTH:

State of Wisconsin

Department of Natural Resources

State Div. Emergency Gov't. (608) 266-3232

TOXIC AND HAZARDOUS SPILL REPORT-Form 4400-91 Rev. 6-86 Spill ID Number

		U.S. Nat'l. Respondence: Chemtree/Pestic		(800) 424-8802 (800) 424-9300	890928-06 YYMMDD 099
Date of Incident	Day of Week	Time of Incident	□ A.M.	Reported By (Name)	Telephone Number
UNK		Park STA	□ P.M.		
Date Reported	Day of Week	Time Reported	□ A.M.	Agency or Firm Reporting	Reported thru Div. Emergen.
Substance Involved	I Musi		P.M.	toth & Van Dyk	Gov't. Yes Ne
Subscance involved		Quantity	Units	Person or Firm Responsible	
Substance Involved		Quantity	Units		mpany
January III		Constitution of the second	Omes	Contact Name	Telephone Number
Physical Characterist	ics			Address - Street or Route	The state of the s
				GILE) 1/ 107 th	1 start
□ Solid	L. Liquid	Color		City, State, Zip Code	DIVECT
☐ Semisolid	☐ Gas	Odor		Milwa Kee.	WT 53202
Cause of Incident			Note: To William	Action Taken By Spiller	WI STACK
	LUST				
Exact Location Descr	iption (intersect	ion, mileage, etc.)	whitefish	No Action No No Taken	otification \( \sum_{\text{Investigate}} \)
		longe Ave	Berry	Containment: Type	venication 🖒 Anvestigate
County Location		on, Town, Range	1.05-507		
				Cleanup; Method	9 - (6)
Milwaukee		, TN,	R	Amount Recovered	38 6
DNR Dist DNR Area	Groundwaters	Affected		Monitor	68 4
SED Milw	Yes	☐ No ☒ Pot	ential	Contractor Hired; Name _	Foth Justin DXKE
Surface Waters Affect	Charles and the second	Name of Surface	Water	Other Action	
Yes No	N Potential		arman and	Spill Location	22 02 0
Date District	Day of Week	Time District Not	ified	☐ Industrial Facility/Paper I	Mill/Chem. Co.
Notified of her land	The transfer of		☐ A.M.	A Gas/Service Station/Garag	
1100/87			LJ P.M.	Ag Coop/Facility/Cheese F	
District Person Notific	ed	Telephone Numbe			ik, grocery, insurance co., etc.)
Date Investigated	D C 117 - 1	( )		I make the second of the secon	
Date Investigated	Day of Week	Time Investigated	France		nty, state, church, school, etc.)
			☐ A.M.	Utility Co., Power General	
Person Investigating		Telephone Number		Private Property (home/far	
		( )		Pipeline, Terminal, Tank F	'arm, Oil Jobber/Wholesaler
Action Taken By DNF	R COMPANY		C UNITED BY	☐ Transportation Accident, I	Fuel Supply Tank Spill
No Action				Transportation Accident, I	Load Spill
Taken	☐ Investigat		rise/Conduct	Construction, Excavation,	Wrecking, Quarry, Mine
Spiller Required T				Other	
Take Action; Type				Spilled Substance Destination	
_ Contractor Hired				☐ Air	
By DNR; Name _				Soil	
Amount Recovered				Groundwater	
			7	Surface Water	是是不是假想的人。这种可以是
29.29 Enforcement			li e	Storm Sewer	
Other Agencies on Sce	ne				
The state of the s				Sanitary Sewer	
Local				Contained/Recovered	
				Other	
State		Carried Colonial Colonia Colonial Colonial Colon		Person Filing This Report (prin	
Pederal				Signature Signature	T
	ASSESSMENT			Skip Boh	Date Signed
Additional Comments:	The Vite	HISTORY IN COLUMN			1211181
9/28/8	7 501	borings u	vere i	collected to eve	aluate Site
	Talling Palities	0			
condition:	Symifice	ent contain	unation	was discovere	

Appendix E
Monitoring Wells, Vapor Extraction Wells, and Recovery
Wells Construction Reports (Closed BRRTS # 03-41-000450)

State of Wisconsin Department of Natural Resources		3	MCN	TTORING WELL	CONSTRUCTION		
Clark # 562	God Lecanon	ft. []	N. □ S.	B-1/			-
Pantity License, Permit or Montaning Sumper			= 13	is Unique well Yu	3 3 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	rett.iv	tumo
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And the second s	MSL	-	Cap and ock		Z Y	3 0	No
E. Weil casing, top elevation fit.	MSL TI	100	L Protective co	1 200			
C. Luni surface elevation	MSL_		b. Length:	Moun	ζ.		o di
D. Surface seal, bostom ft MSL or	- A 01007		c. Matemii		Stee		0.
12 USCS classification of soil near screen:  GR GGM GCC GGW GSW GSP  \$-SM GSC GML GML GC GCH			d. Additional		C Ye	= 0	.16
C Bedrock	\	<b>1</b> / 3	. Surrace seai:		Gentoni		
13. Sieve analysis attached? C Yes S No.			Varanii Sam	en weil casing and			(38) (20)
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15. Drilling fluid used: Weer   02 Air   0 0 Drilling Mud   03 Name   5-95		5.	Annuiz space		Consular Bensonis	: 0	33
				i mud weight I i mud weight			
16. Drilling additives used?    Yes				es siment	mnite-cement grou		
17. Source of water (attach analysis):	Io io		How installed:		Tremis pumped Gravity		01
E Bennonius seni. top fL MSL or1	0 14	/6.	Benunius seri:	ENE EINE	Bentonita gramles L. Bentonita pellas Other	Z	32
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. Well screen, top ± MSL or _ 4	0 0	/		30 FILT		m .	H 2500
Weil screen, bottom ± MSL or 14.	Q n		Well cases:		PVC schedule 40 PVC schedule 80		23 2-
Filter pack, bostom it. MSL or	D #				Cther		25
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EYs EN	☐ Upgradient ☐ Downgrad				
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			2. Protective cover	vipe Trush	
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and surface elevation	P MSL		b. Length		-1
Surface and bearing to MCT		1	c. Materini		Steesi 🗆
Surface seal, bottom ft MSL or _				A-	Cther E
USCS classification of soil zer screen:	1 Strait	A Parkets	d. Additional pro	tection?	☐ Yes Ø
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G Berirock	1	単層 / /	3. Surface seni:		Bentonice 🗆
Sieve maiysis arrached? 🗆 Yes 🔘	5				Concrete S
	\ 8				Ob= □
Drilling method used: Rotary	. \	<b>***</b>	4. Materiai between	weil casing and prote	
Hollow Stem Anger	impositions / S				Bensomite 🖾
	) g			Am	miar space seal 🗆
Drilling fluid used: Water 🗆 92 Air 📮	01				Other [
Dailling Mud [ 93 None [ ]	99		5. Ammiar space se		misr Benomia 🗆
	8			1	entonite sium
Drilling additives used? C Ym 🗷 N	6		1% Berne		_ /   /
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Whate accomple and remain 2000 straight this income as treatment on contract on the Man. And the contract of t N. LD. well casing In a section of the control of the cost of M. O.D. well caring I. Filter pack, bostom H. Well senson, cop G. Film yack. upp L. Bornhoie diamana R. Somionie, boctom L Well screen, bombin F. Fine send top go: Jess ssimus 5.3 17. Source of water (accach analysis): 15. Drilling finid used: Water [] 02 Drilling Mind [] 03 14. Drilling method useds C Serious C-24 C SC C SW. C SW. C C C C SP C-24 C SC C SW. C D. Surince seal bontom C. Last surface elevanon H. Well curing, top elevation 5 . Act of courses countries con ? O Chock the Appropriate Artes Committee Committe 16. Delling additives used? State of Wisdoman Committees of Valuati Resources 15. Siere anxiysis attached? A. Prometre pipe, top elevation \_\_\_\_ ft. MSL \_ Percent was somethy of the popular of the popular of the percentage of the percentag Cype of West Water Lacie Observation West (8) II 12.25 ---- # WIL # \_120 ---- T.MSL or \_\_\_ 1.0 TXSL # 150 \* MSL at \_ 5.0 F Hollow Sum Auger Cl 41
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**VPPENDIX H** 

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method used: Rotary EL 5	0 \	d Maremai be	ween well casing and protective	Other 🗆 💇
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fluid used: Water 🗆 02 Air 🚨 0	1 .	5. Annular spo	ce seels Granuia	Benonies E 13
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additives used? I Yes IN			Sentomite Sentomite-ce	The second secon
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water (attacit analysis):	##	How installs		Tremie 🗆 01
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1/4				Gravity 0.8
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eal top ft MSL or f	.o	/ C1/4 5	. 53/8 in. [1/2 in. Benton	
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Scars., failure to file this form may result in a foresture of not less than \$100, for some may of violation. In accordance with Wis. Stars., failure to file this form may result in a foresture of not less than \$10. nor more than \$5,000 for each day of violation. In accordance Wis. Stars., failure to file this form may result in a foresture of not more than \$10,000 for some may of violation.

		47 F 49 40 114 114 114 114 114 114 114 114 114
State of Wisconson		
Constitution Natural Resources		MONITORING WELL CONSTRUCTION Form 400-113A
SELECTIVICADISCE . NAME	God Lacation	
Clark 562		B-7/mw-5
Figury License. Fermit or Montanny Jumper		
	# C E	- C. M. Mer harden wert virtues D. N. Mer Northern Andrees
Type of Well Water Tagle Observation Weil Zil	Section Location	Live West installed
Piecometer CC	NE 1/4 of NE 1/4 of Section 3	5 09/27/92
Distance wert is utout wasterpointed dominaria	T 7 N. R Z2 BECW	weit installed by: (Person's Name and ram)
30'	acation of Well Selative to Wester South	
is well A count of antorement and Application?	☐ Upgraties ☐ Steepanie	m —
B. 2 C. %	Se Downserstient    Not Know	
A. Protective pipe. top elevation fi		Carp and local Size I No
B. Weil casing, top elevation ft		Stotective cover hiper
		Linite dimen
C. L.mi surface elevation f		1.0 ±
D. Surface seal bottom ft MSL or	_ ft_	Stæ □ 0÷
12 USCS classification of soil new screen:		Che E
C SW C SC CWL C WE C C C C C SW C SV C SV	/ WILL	L Additional protection?
ESM CSC CML CMECC CC		
C Beincix	5. A	Ourrhea seni: Bermania C 30 Concess C 01
13. Sleve analysis amorined? C Ym KN6	\	Cother C
14. Drilling method used: Roszy 🗆 50	4.5	faterni berween weil casing and protective pipes
Hollow Stem Auger 241	\	Bersonia 4 30
Other C ::		Ammiar space seal. 🗆
15. Drilling fluid used: Water 🗆 02 Air 🚨 01		Cthe C Service
Drilling Mind [ 03 None 5 99	3.4	umular space seal: Granular Bensonie 🛛 33
	-	Lbugai mud weight Bentonits-sand shary [2] 3.5
16. Drilling additives used? C Yes 2 16		Lbs/gri musi weight Bemonize sinny G 3 :
Describe -		
17. Source of water (attach analysis):	—   <b># #</b>	w installen: Transic C 01
(1. source of water (mixing analysis):		Tremis pumpei 🗆 02
		Gravity = 08
	6.3	munica seni: Benomica granules 🔲 3 3
E. 3 contamine send, top ft, MSL or	- 4、	C1/4 in - 13/8 in. C1/2 in. Benomite peiles - 32
	選     -	Cther C
F. Fine search top it MSL or	7.55 Vo	ne sand margai: Manufacture, product name and mesh size
5 Net		#100 FILMT SAME
G. File pack top it MSL or	- 2 2 70	iume societft <sup>3</sup>
H. Well screen, top 1 MSL or		ter pack mariai: Manufacturer, product mane and mesis size
		#30 Frint Sind
Well screen, bostom ± MSL or	fL OW	iume societ fusio mended PVC schedule 40 K 23
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Filter pack, bottom & MSL or	- 1	Che I
	10. Sc	PrC
2 3 Greenie bottom = MSL or		Tent type: Factory on & 11
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. Boreroie, diameter in.	_	Other C 💮
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K. O.D. weil casing	\ S1a	size: 0.610in.

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N. LD. weil casing

Signs

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APPENDIX

State of Wisconsin  Department of Natural Resources  Route to: Solid Waste  Has  Env. Response & Repair	Underground Tanks & Other D Form 4400-113A Rev. 4-90
acility/Project Name 1-4562 Local Grid Loc	apon of Well Name
Clark Refining + Marketing / Clark	ft.   Sft.   E. MW -8
Facility License, Permit or Monitoring Number Grid Origin Loc	10000000000000000000000000000000000000
	Longor
	ft. Nft. E. Date Well Installed 06/29/95
	n of Waste/Source mm d d y y  Well Installed By: (Person's Name and Firm)
	174 01 3d 1 17. R U W.   V L
Is Well A Point of Enforcement Std. Application? u Upgradie	The state of the s
	adient n   Not Known Brionn Environmenta
A. Protective pipe, top elevation ft. MSL	
5 VCI	2. Protective cover pipe:
B. Well casing, top elevation	a Inside diameter: _8.Qin.
C. Land surface elevation ft. MSL	b. Length: _1. Oft
D. Surface seal, bottom ft. MSL or ft.	c. Material: Steel 🗵 04
12. USCS classification of soil near screen:	Other D
GP GM GC GW GSW GSP G	d. Additional protection?
SM SC ML MH CL CH CH	181 18 \
Bedrock 🗆	3. Surface seal: Bentonite 3 0
13. Sieve analysis attached?    Yes    No	Other 🗆
14. Drilling method used: Rotary ☐ 50	4. Material between well casing and protective pipe:
Hollow Stern Auger 🔯 4 I	Bentonite 🖾 30
Other 🗆 🕮	Annular space seal 🗆 🔬
15. Drilling fluid used: Water □ 02 Air □ 01	Other 🗆 💮
Drilling Mud 🗆 03 None 🖾 99	5. Annular space seal: a. Granular Bentonise   3 3
	bLbs/gal mud weight Bentonite-sand shurry [] 3.5
16. Drilling additives used? ☐ Yes ☑ No	cLbs/gal mud weight Bentonite shurry 3 1 d % Bentonite Bentonite-cement grout 5 0
	eFt 3 volume added for any of the above
Describe	f. How installed: Tremie 0 1
17. Source of water (attach analysis):	Tremie pumped 🗆 02
	Gravity ⊠ 08
	6. Bentonite seal: a Bentonite granules [ 33
E. Bentonite seal, top ft. MSL or ft.	b. 01/4 in. \$3/8 in. 01/2 in. Bentonite pellets \$3 2
F. Fine sand, top ft. MSL or ft.	3. Surface seal:  Concrete 0 01  Other 0  4. Material between well casing and protective pipe:  Bentonite 3 0  Annular space seal 0  Other 0  3. Annular space seal:  bLbs/gal mud weight Bentonite-sand shurry 0 3 5  cLbs/gal mud weight Bentonite slurry 0 3 1  d% Bentonite Bentonite-cement grout 0 50  eFt volume added for any of the above  f. How installed:  Tremie 0 1  Tremie pumped 0 2  Gravity 0 8  6. Bentonite seal:  a. Bentonite granules 0 3 3  b. 0 1/4 in. 0 3/8 in. 0 1/2 in. Bentonite pellets 2 3 2  COther 0  7. Fine sand material: Manufacturer, product name & mesh size
	7. Fine sand material: Manufacturer, product name & mesh size
G. Filter pack, top ft. MSL or ft.	b. Volume added ft <sup>3</sup>
	8. Filter pack material: Manufacturer, product name and mesh size
3H. Screen joint, top ft. MSL or 5 0 ft.	
	b. Volume added ft <sup>3</sup>
I. Well bottom ft. MSL or _ 15.0 ft.	9. Well casing: Flush threaded PVC schedule 40 0 23
150	Flush threaded PVC schedule 80 🛘 24
III. Filter pack, bottom ft. MSL or _ 15 0 ft.	Other D
IX. Borehole, bottom ft_ MSL or _ 15 0 ft_	10. Screen material: PVC
ac bostable bottom IL Male of _12 .5 IL	a. Screen type: Factory cut 🗷 11
L. Borehole, diameter in	Continuous slot 0 01
a solution mainten	b. ManufacturerOther 🗆
M. O.D. well casing	c. Slot size: 0 in.
	d. Slotted length: 10.2 ft.
N. LD. well casing in.	11. Backfill material (below filter pack): None 8 14
	Other 🗆 😩
I hereby certify that the information on this form is true	and correct to the best of my knowledge.
Signature 9 Firm	CCCIT
Please complete both sid	Din En Jul tu.
Talle Ch. Mr. 141, Wis. Ad Code In accordance with ch 144 Wir State	ONR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats s., failure to file this form may result in a forfeiture of not less than \$10, nor more than
33000 for each day of violation. In accordance with ch. 147, Wis. Sta	us., failure to file this form may result in a forfeiture of not more than \$10,000 for each
To feel the main Carlo	

	d Waste Haz. Waste Wastewater Form 4400-113A Rev. 4-9
	& Repair Underground Tanks Of Other Well Name
Clark Station #0562	56.0 ft. S. 93.0 ft. W. B14/MW-9
Facility License, Permit or Monitoring Number	Grid Origin Location Was Unique Well Number DNR Well Number
	Lat. 43 6 11 Long. 87 54 25 or
Type of Well Water Table Observation Well 211	St. Plane ft. N, ft. E. Date Well Installed 1 0/0 9/9 5
	Section Location of Waste/Source m m d d d y y v
Distance Well Is From Waste/Source Boundary	NE 1/4 of NE 1/4 of Sec. 5. T. 7. N. P. 22 T.W. Well Installed By: (Person's Name and Firm)
100 ft.	Midwest Profing
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to Waste/Source  u   Upgradient
☑ Yes ☐ No	d   Downgradient n   Not Known
V	. MSL 1. Cap and lock? MYes No
A. Protective pipe, top elevation f	2. Protective cover pipe:
B. Well casing, top elevation	a. Inside diameter: 8.0 in.
C. Land surface elevation fi	b. Length:  c. Material:  1.0 ft.  Steel 🗖 04
D. Surface seal, bottom ft. MSL or1	
12. USCS classification of soil near screen:	
GP GM GC GW SW KOS S	U =
Bedrock□	3. Surface seal:  Bentonite  Concrete  01
13. Sieve analysis attached? ☐ Yes 📉 N	1 100 1000 \
	A Maria I bernard and a second
14. Drilling method used: Rotary ☐ 5 Hollow Stem Auger 🗷 4	4. Material between well casing and protective pipe: Bentonite 2 30
Other	A
Odda Li	Annular space seal Other
15. Drilling fluid used: Water □02 Air □ 0	Other 5. Annular space seal: a. Granular Bentonite 33
Drilling Mud □03 None 🖾 9	b. Lbs/gal mud weight.Bentonite-sand slurry 35
Diffing Mad 200 Holle 200	0. Los gai mud weight. Dentonite said stury 1 33
16. Drilling additives used? ☐ Yes ☑ No	c. Lbs/gal mud weight Bentonite slurry 31 d. % Bentonite Bentonite-cement grout 50
	d
Describe	e. Ft³ volume added for any of the above f. How installed: Tremie □ 01
17. Source of water (attach analysis):	f. How installed: Tremie 01
` ` ` ` ` `	Tremie pumped □ 02 Gravity □ 08
	— Glavity 0 00
	6. Bentonite seal: a. Bentonite granules 33  b. 1/4 in. \$\infty\$3/8 in. \$\infty\$1/2 in. Bentonite pellets \$\infty\$32
E. Bentonite seal, top ft. MSL or1.	0 ft. □ 1/4 in. 33/8 in. □ 1/2 in. Bentonite pellets 33 32
	cOther 🗆 💹
F. Fine sand, top ft. MSL or3.	
	a. Badger, Fine Sand, #40-60
G. Filter pack, top ft. MSL or4.	
	8. Filter pack material: Manufacturer, product name & mesh size
H. Screen joint, top ft. MSL or5.	
2200 To 100 To 1	b. Volume added 5.6 ft <sup>3</sup>
I. Well bottom ft. MSL or15.	9. Well casing: Flush threaded PVC schedule 40 22 23
	Flush threaded PVC schedule 80   24
J. Filter pack, bottom ft. MSL or _ 15.	ft. Other
100 100 100 100 100 100 100 100 100 100	10. Screen material: PVC
K. Borehole, bottom ft. MSL or _ 15.	a. Screen type: Factory cut 🛛 11
1.	Continuous slot   01
L. Borehole, diameter _ 8.0 in.	Other 🗆
	b. Manufacturer Badger
M. O.D. well casing 2.25 in.	c. Slot size: 0.010 in.
3	d. Slotted length: 10.0 ft.
N. LD. well casing 2.00 in.	11. Backfill material (below filter pack): None 🖾 14
	Other 🗆
hereby certify that the information on the	is form is true and correct to the best of my knowledge.
thereof corting that the information on the	
Signature	Firm Sigma Environmental Services, Inc.
Signature Days Kure	102 Progress Drive, Saukville, WI 53080 (414) 284-6824
Signature Sauge Kure case complete both sides of this form and return to the	



State of Wisconsin Department of Natural Resources Route to:	Solid Waste DHaz.	Waste □ Wastewate	rO	MONITORING W Form 4400-113A		UCTIO
Env. Respon	se & Repair U One	derground Tanks W	Other	District Control of the Control of t		
Facility/Project Name Clark Station #0562	Local Grid Loca 26.0	ft. S. 17.0	IOI 12 I	Well Name VE-1	1	
Facility License, Permit or Monitoring Number	Grid Origin Loc	ation		Wis Unique Well No	mber DNR We	Numb
	_ Lat. 43 6	11 Long. 87	_54 _ 25 or			
Type of Well Water Table Observation Well	11 St. Plane	ft. N,	ft. E.	Date Well Installed	1 0/0 9/	9 5
Piezometer	12 Section Location	n of Waste/Source			m m d d	VV
Distance Well Is From Waste/Source Boundary 5 ft	NE 1/4 of NE	1/4 of Sec. 5 , T. 7	N, R. 22 W.	Well Installed By: (P		d Firm)
Is Well A Point of Enforcement Std. Application		I KCIALIVE TO MASTERS	ource	Midwest Engir	icering	
☑ Yes □ N	LOuman	dient n 🛛 Not K		-	18	
A. Protective pipe, top elevation	0 3 (0)		1. Cap and lock	7	№ Yes	□ No
			2. Protective cov	er pipe:		
B. Well casing, top elevation	ft. MSL	THE	a, Inside diam	eter:	لا ا	18.0 in
C. Land surface elevation	ft. MSL		b. Length:		C4 - 1	1.0 ft.
D. Surface seal, bottom ft. MSL or _	1.0 ft.		c. Material:		Steel Other	
12. USCS classification of soil near screen:		兴] 化冷毒	d. Additional	protection?	□ Yes	460.7
GP GM GC GW SW G	SP 🖾		If yes, desc			
	CH 🗆	用用//	3. Surface seal:		Bentonite	
Bedrock ☐  13. Sieve analysis attached? ☐ Yes	a No			-14	Concrete	
The same of the sa			Asph:		Other	M
14. Drilling method used: Rotary D Hollow Stem Auger			4. Material betw	een well casing and p	Bentonite	30
Other D	5000000			An	nular space seal	
					Other	
15. Drilling fluid used: Water 02 Air 0			<ol><li>Annular space</li></ol>		nular Bentonite	33
Drilling Mud □03 None M	1 99			al mud weight. Bento		
16. Drilling additives used? ☐ Yes	INo			al mud weight E conite Bentonite		
			d			
Describe			f. How install	Ft³ volume added f led:	Tremie	
17. Source of water (attach analysis):				J	remie pumped	
					Gravity	□ 08
			6. Bentonite seal		tonite granules	
E. Bentonite seal, top ft. MSL or	ft. \		b.   1/4 in.	□3/8 in. □1/2 in. E		
			с		Other	865 566
F. Fine sand, topft. MSL or	.3.0 ft.	KWI KWI /		erial: Manufacturer, p	roduct name & n	nesh siz
G. Filter pack, topft. MSL or	50 0 1		b. Volume ad	ne Sand, #40-60 ded 1.2	ft <sup>3</sup>	. 22
G. Filter pack, topft. MSL or	. 3.0 Ir			terial: Manufacturer,		mesh si
H. Screen joint, top ft. MSL or	6.0 ft.			Flint Sand #20	<b>F</b>	
			b. Volume add	ded 5.8	ft³	_ *****
i. Well bottom ft. MSL or	9.0 ft.		9. Well casing:	Flush threaded P		
1000 C C C C C C C C C C C C C C C C C C				Flush threaded P	A STONE SHALL GET MICH. THE CO.	
Filter pack, bottom ft. MSL or	10.0 ft.		0. Screen materia	ıl: PVC	Other !	ч
V Develole hotter	100 0 5				Factory cut	M 11
K. Borehole, bottomft. MSL or	10.0 ft		a. Screen type		Continuous slot	
Borehole, diameter18.0 in.				- 100	Other	
,			b. Manufactur	er Badger		
M. O.D. well casing6.25 in.			c. Slot size:		0,	in.
		\	d. Slotted leng		and the second second	3.0 ft.
N. I.D. well casing 6.00 in.		- 1	i. Backfill mater	ial (below filter pack)	): None I Other I	<b>⊠</b> 14
hereby certify that the information on	this form is tru	e and correct to	the hest of n	ny knowledge	Onle I	
signature //	The second second	igma Environmen				
Jang Kure	77.00	2 Progress Drive, Sa				
ease complete both sides of this form and return	to the appropriate D	NR office listed at the	e ton of this form	as required by che la	44,147 & 160, W	is Stats
Fch NR 141, Wis Ad Code. In accordance with 000 for each day of violation. In accordance with y of violation. NOTE: Shaded areas are for DNR	ch 144, Wis Stats, for 1 ch 147, Wis Stats, 1 use only. See instr	ailure to file this form failure to file this for fuctions for more info	n may result in a m may result in a rmation includin	forfeiture of not less to forfeiture of not more where the complete	han \$10, nor mo re than \$10,000 f d form should be	re than or each sent.

	d Waste □Haz. Wast & Repair □ Underg			Form 440	ORING WELL 0-113A	L CONSTR		TIO!
Facility/Project Name	Local Grid Location	of Well		Weil Nam	ie vm e		-	
Clark Station #0562	ft.	S53.0	ft. 🖺 E		VE-2			
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43 6 11	Long. 87		*****	ne Well Numbe	er DNR We	II No	imbe
Type of Well Water Table Observation Well 211			ft.	E. Date Well	Installed 1	0/0 9	/_9_	5
Piezometer   Distance Well Is From Waste/Source Boundary	Section Location of	Waste/Source	21	E. Well Insta	m lled By: (Perso	m d d	y V	Y
Distance well is From WasterSource Boundary  5 ft.	NE 1/4 of NE 1/4 of Location of Well Re	f Sec. 5, T. 7	N, R_22   V	Wen insta	west Engineer		ia ri	Im)
Is Well A Point of Enforcement Std. Application?  Yes No	u Upgradient d Downgradien	s 🗆 Sidegr	adient					
A. Protective pipe, top elevation f	L MSL		1. Cap and lo	ock?		X Yes		No
B. Well casing, top elevation f	t. MSL	FIS	2. Protective a. Inside di				18.0	0 in.
C. Land surface elevation	t. MSL	111	b. Length:					0 ft.
	THE PARTY OF THE P	CONTRACTOR OF THE PARTY OF THE	c. Material			Stee	100	04
D. Surface seal, bottom ft. MSL or1	T L	1.36				Othe		
12. USCS classification of soil near screen:  GP GM GC GC SW SW SW SW	SP ED			al protection? lescribe:			e.co	3.00
SM SC ML MH CL C	-n -		3. Surface sea	al:		Bentonite		30 01
13. Sieve analysis attached? ☐ Yes N	To .		As	phalt		Other		100
14. Drilling method used: Rotary 5	o 📗	`.			asing and prote	ective pipe:		2000
Hollow Stem Auger 🖾 4	1					Bentonite	100	30
Other 🗆 🛚	1 9 0 ft.				Annula	r space seal Other		
15. Drilling fluid used: Water □02 Air □ 0	1		5. Annular sp	ace seal:	a. Granula	r Bentonite		33
Drilling Mud □03 None ☑ 9	9   8	₩ t		A STATE OF THE PARTY OF THE PAR	ightBentonite-	Committee of the control of the cont		35
16. Drilling additives used? ☐ Yes KIN	.	<b>**</b> •			ght Bente			31
10. Dilling additives used: 11 165 Mil			i% B		. Bentonite-cer			50
Describe		i f	. How ins		me added for a	Tremie		01
17. Source of water (attach analysis):	1 88				Tren	nie pumped		02
-						Gravity		08
		6		eal:		te granules		33
E. Bentonite seal, top ft. MSL or	- ft. \		0. 1/41	п. Пэле ш.	□ 1/2 in, Bent	Other		32
F. Fine sand, top ft. MSL or 3.	0 ft	<b>M</b> / , 7	. Fine sand n	naterial: Man	ufacturer, produ			h siz
				Fine Sand, #			_	
G. Filter pack, topft. MSL or	ō tr	1		added 1.2				
H. Screen joint, top ft. MSL or6.	o A	1/	a. Red Fli	nt, Flint San		auct name &	mes	sn si
			b. Volume			anhadal 40	_	0.7
I. Well bottom ft. MSL or9.	ō tr		. Well casing		threaded PVC s threaded PVC s			23
Filter pack, bottomft. MSL or _10.	0 ft.		Connen met		anouscu i vo .	Other	765	
	0.0	10	a. Screen mat	erial: PVC	1	Factory cut	00	11
	ō tr		- Satout 6	, E		tinuous slot		01
Borehole, diameter18.0 in.	1					Other		
M. O.D. well casing6.25_ in.			<ul><li>b. Manufac</li><li>c. Slot size</li></ul>		Badger			in.
			d. Slotted l		F 98		3.0	
N. I.D. well casing 6.00 in.		11		terial (below	filter pack):	None Other	M	14
hereby certify that the information on the	nis form is true a	nd correct to	the best o	f my know	rledge.			
Signature //		a Environmen					_	_

rase complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, it ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than \$10, nor more than 1000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than \$10,000 for each lay of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

	olid Waste □Haz. W se & Repair □ Und			MONITORING WEI Form 4400-113A	L CONSTRUC	CTION ev. 4-90
Facility/Project Name	Local Grid Locat	ion of Well		Well Name		
Clark Station #0562		ft. S. 10.0	ft. KW	Q-1		
Facility License, Permit or Monitoring Number	Grid Origin Loca Lat. 43 6	tion 11 Long. 87	54 25 or	Wis. Unique Well Numb	per DNR Well )	Numbe
Type of Well Water Table Observation Well 🛛	11 St. Plane	ft. N,	ft. E.	Date Well Installed 1	0/0 9/9	9 5
Piezometer	12 Section Location	of Waste/Source	ON 12	m	mddy	/ V
Distance Well Is From Waste/Source Boundary 45 ft.		/4 of Sec. 5 T. 7	N, R. 22 W.	Well Installed By: (Pers Midwest Enginee		Firm)
s Well A Point of Enforcement Std. Application?   Z Yes   No	u 🛛 Upgradien	nt s □ Sideg lient n □ Not I	gradient Known			_
A. Protective pipe, top elevation	ft. MSL —		1. Cap and lock	2	☑ Yes □	□ No
B. Well casing, top elevation	ft. MSL	H	<ol><li>Protective co a. Inside diam</li></ol>		_18	8.0 in.
C. Land surface elevation	ft. MSL		b. Length:			1.0 ft.
D. Surface seal, bottom ft. MSL or	10 0		c. Material:		Steel D	
12. USCS classification of soil near screen:		[1] [1] [2]	d. Additional	protection?	Other L	2000
GP GM GC GW SW G	SP KI			cribe:		
Bedrock□			3. Surface seal:		Bentonite C	THE CENTER
	No		Asph	alt	Other 2	
14. Drilling method used: Rotary	50		-	veen well casing and prot		2000
Hollow Stem Auger	41				Bentonite 2	
Other 🗆				Annul	ar space seal C	
15. Drilling fluid used: Water □02 Air □	01		5. Annular spac	e seal: a. Granul	ar Bentonite	33
Drilling Mud □03 None 🖾	99			al mud weightBentonite		
16. Drilling additives used?  Yes	No			al mud weight Ben		
10. Dining additives used: [2] 105	110		d% Ben	tonite Bentonite-c		
Describe			f. How instal	Ft³ volume added for	any of the above	
17. Source of water (attach analysis):			22011		mie pumped	
	×				Gravity 🗆	
			6. Bentonite sea		nite granules	
E. Bentonite seal, top ft. MSL or	1.0 ft.		b. 1/4 in. c.	□3/8 in. □1/2 in. Ben	tonite pellets	
F. Fine sand, topft. MSL or	1.0 ft.			terial: Manufacturer, produce Sand, #40-60	duct name & me	esh size
G. Filter pack, top ft. MSL or	6.0 ft	图图/	b. Volume ac		<del>1</del> 3	202
	\			aterial: Manufacturer, pro	oduct name & m	nesh siz
H. Screen joint, topft. MSL or	7.0 ft.		a. Red Flint b. Volume ad	Flint Sand #20 ft <sup>3</sup>		- 44
. Well bottom ft. MSL or _ 2	5.0 ft.		9. Well casing:	Flush threaded PVC Flush threaded PVC		
J. Filter pack, bottomft. MSL or2	5.0 ft.		0. Screen materi	al: PVC	Other □	1 🚆
K. Borehole, bottom ft. MSL or _ 2	5.0 ft.		a. Screen type	e:	Factory cut I	
L. Borehole, diameter _18.0 in.				Col	Other	
M. O.D. well casing6.25_ in.			<ul><li>b. Manufactu</li><li>c. Slot size:</li></ul>			in.
N. I.D. well casing 6.00 in.		\	d. Slotted len  1. Backfill mater	gth: rial (below filter pack):	_1 <u>5</u> . None ⊠	.0 ft. 1 14
N. I.D. well casing6.00_ in.				(out to annual provide).	Other □	2500000
hereby certify that the information on	Abla farm to take		al Francis	and the sounded as		

ease complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by the 144,147 & 160, Wis Stats, of the NR 141, Wis Ad Code. In accordance with the 144, Wis Stats, failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. In accordance with the 147, Wis Stats, failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

	id Waste DHaz. Waste D Wastewater Form 4400-113A Rev. 4-9
	& Repair Underground Tanks O Other
Facility/Project Name Clark Station #0562	Local Grid Location of Well  71.0 ft. S. 10.0 ft. Well Name  Q-2
Facility License, Permit or Monitoring Number	Grid Origin Location Was Unique Well Number DNR Well Number
	Lat. 43 6 11 Long. 87 54 25 or
	St. Planeft. N,ft. E. Date Well Installed 1 0 / 0 9 / 9 5 Section Location of Waste/Source ft. E. Date Well Installed 1 0 / 0 9 / 9 5
Distance Well Is From Waste/Source Boundary	NE 1/4 of NE 1/4 of Sec. 5. T. 7. N. P. 22 T. W. Well Installed By: (Person's Name and Firm)
45 ft.	Midwest Engineering
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to Waste/Source u 🖾 Upgradient s 🗆 Sidegradient
🛛 Yes 🔲 No	d Downgradient n Not Known
A. Protective pipe, top elevation	R. MSL 1. Cap and lock?
B. Well casing, top elevation	MSI. 2. Protective cover pipe:
C. Land surface elevation	ft. MSL b. Length: c. Material:  5. Length: Steel M 0
D. Surface seal, bottom ft. MSL or	
12. USCS classification of soil near screen:	d. Additional protection? □ Yes □ N
GP GM GC GW SW G	SP M If yes, describe:
(	CH    3. Surface seal:  Bentonite   30
Bedrock ☐  13. Sieve analysis attached? ☐ Yes	Souriace scal. Concrete 0
	No Asphalt Other 🖾 🔛
14. Drilling method used: Rotary	
Hollow Stem Auger Other	Annular space seal
Other Li	Other 🗆
15. Drilling fluid used: Water 002 Air 0	5. Annular space seal: a. Granular Bentonite 3
Drilling Mud □03 None ☑	b. Lbs/gal mud weightBentonite-sand slurry   33
	cLbs/gal mud weight Bentonite slurry □ 31
16. Drilling additives used? ☐ Yes ☑	d. % Bentonite Bentonite-cement grout 50
D	eFt <sup>s</sup> volume added for any of the above
Describe	— f. How installed: Tremie □ 01
17. Source of water (attach analysis):	Tremie pumped □ 02
ľ	Gravity 08
	6. Bentonite seal: a. Bentonite granules 33
E. Bentonite seal, top ft. MSL or	.0 ft.   b.   1/4 in.   3/8 in.   1/2 in. Bentonite pellets   32
	C. Other
F. Fine sand, top ft. MSL or	7. Fine sand material: Manufacturer, product name & mesh size a. Badger, Fine Sand, #40-60
G. Filter pack, top ft. MSL or	
is in part, top	8. Filter pack material: Manufacturer, product name & mesh s
H. Screen joint, top ft. MSL or	\ E::
	b. Volume added 15.6 ft <sup>3</sup>
t. Well bottom ft. MSL or _ 24	.0 ft. 9. Well casing: Flush threaded PVC schedule 40 \( \sigma 23
	Flush threaded PVC schedule 80 🖸 24
Filter pack, bottom ft. MSL or _ 25	.0 ft. Other D
J	10. Screen material: PVC
K. Borehole, bottom ft. MSL or25	.o ft. a. Screen type: Factory cut ☑ 11 Continuous slot □ 01
Borehole, diameter18.0 in.	Other 🗆 📗
	b. Manufacturer Badger
M. O.D. well casing 6.25 in.	c. Slot size: 0 in.
	d. Slotted length: _15.0 ft.
N. I.D. well casing 6.00 in.	11. Backfill material (below filter pack): None 🖸 14
haveby and the short short short	Other []
necessy certify that the information on t	his form is true and correct to the best of my knowledge.    Firm   Sigma Environmental Services, Inc.
Something 11	LETTE STORM & BUTEON MODIFOL SAMPLEDE INC
Signature Jacy & Kure	
Signatural Sury Kure  Lease complete both sides of this form and return to	102 Progress Drive, Saukville, WI 53080 (414) 284-6824 the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis State

	Waste □Haz. Waste □ Wastewater□ MONITORING WELL CONSTRUCTION Repair □ Underground Tanks ② Other□
	ocal Grid Location of Well   Well Name
Clark Station #0562	
	arid Origin Location Lat. 43 6 11 Long. 87 54 25 or Wis Unique Well Number DNR Well Number
Piezometer 🗆 12 s	St. Planeft. N,ft. E. Date Well Installed 1 0 0 9 / 9 5 ection Location of Waste/Source
Distance Well Is From Waste/Source Boundary	NE 1/4 of NE 1/4 of Sec. 5, T. 7 N, R. 22 W. Well Installed By: (Person's Name and Firm)
Is Well A Point of Enforcement Std. Application?	ocation of Well Relative to Waste/Source  Upgradient s S Sidegradient  Downgradient n Not Known
A. Protective pipe, top elevation ft.	MSL 1. Cap and lock?   MYes □ No
B. Well casing, top elevation ft.	MSL 2. Protective cover pipe: a. Inside diameter: 18.0 in.
C. Land surface elevation ft.	MSL b. Length: 1.0 ft.
D. Surface seal, bottom ft. MSL or1.0	\$123777 A 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12. USCS classification of soil near screen:  GP □ GM □ GC □ GW □ SW □ SP	
SM SO SC ML MH CL SO CH	3. Surface seal:  Bentonite  30 Concrete  01
13. Sieve analysis attached? ☐ Yes          No	Asphalt Other 🔯
14. Drilling method used: Rotary ☐ 50	4. Material between well casing and protective pipe:
Hollow Stem Auger ⊠ 41 Other □	Bentonite 🖾 30 Annular space seal 🗆
	Other 🗆
Dilling fluid used: Water □02 Air □ 01 Drilling Mud □03 None 🖾 99	5. Annular space seal: a. Granular Bentonite   33 b. Lbs/gal mud weight. Bentonite-sand slurry   35
	c. Lbs/gal mud weight Bentonite slurry  31
16. Drilling additives used? ☐ Yes ☑ No	d% Bentonite Bentonite-cement grout   50
Describe	e Ft³ volume added for any of the above f. How installed: O1
17. Source of water (attach analysis):	Tremie pumped □ 02 Gravity □ 08
	6. Bentonite seal: a. Bentonite granules   33
E. Bentonite seal, topft. MSL or	/ h = 1/4 in = 2/9 in = 1/2 in Posta in = 11/4 in = 22
F. Fine sand, topft. MSL or3.0	ft. 7. Fine sand material: Manufacturer, product name & mesh size a. Badger, Fine Sand, #40-60
G. Filter pack, topft. MSL or6.0	ft. b. Volume added 5.6 ft <sup>3</sup>
H. Screen joint, topft. MSL or7.0	
Well bettern & Mel en 220	b. Volume added 15.6 ft <sup>3</sup> 9. Well casing: Flush threaded PVC schedule 40 23
I. Well bottomft. MSL or _ 22.0	Flush threaded PVC schedule 80 🖾 24
J. Filter pack, bottomft. MSL or _ 25.0	ft. Other 10. Screen material: PVC
K. Borehole, bottomft. MSL or _ 25.0	ft. a. Screen type: Factory cut ☑ 11 Continuous slot □ 01
L. Borehole, diameter <u>18.0</u> in.	Other 🗆 🎆
M. O.D. well casing 6.25 in.	b. Manufacturer Badger c. Slot size: 0in.
	d. Slotted length:15.0 ft.  11. Backfill material (below filter pack): None 🖾 14
N. LD. well casing6.00_ in.	11. Backfill material (below filter pack): None ☑ 14 Other □
	s form is true and correct to the best of my knowledge.
Signature Lay Kul	Firm Sigma Environmental Services, Inc.
Pease complete both sides of this form and return to the	102 Progress Drive, Saukville, WI 53080 (414) 284-6824 appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats,
of ch NR 141. Wis Ad Code. In accordance with ch 14	14, Wis Stats, failure to file this form may result in a forfeiture of not less than \$10, nor more than 47, Wis Stats, failure to file this form may result in a forfeiture of not more than \$10,000 for each only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources Route to: Soli					2	MONITOR Form 4400-	RING WELL	CONSTR	RUCT Rev.	TON 4-90
Env. Response Facility/Project Name				Other 🗆	AND RESIDENCE OF THE PARTY OF T	177 11 5 7				1000000
Clark Station #0562	Local Grid Lo 73.0	ft. S.		ft.	NE.	Well Name	Q-4			
Facility License, Permit or Monitoring Number	Grid Origin L Lat. 43	ocation		Name of the last	A	Wis, Unique	Well Number	DNR We	II Nii	mber
Type of Well Water Table Observation Well 211	7,000,000	SM COMMISSION IN			- 8	Date Well In	stalled 1	0/0 9	/ 0	5
Piezometer 12  Pistance Well Is From Waste/Source Boundary	Section Locati	on of Waste/S	Source				m r	n d d	VV	7
15 ft.	NE 1/4 of NE	1/4 of Sec	5 , T7 1	N, R. 22	ŪW.	Well Installe Midwe	d By: (Person st Engineeri	i's Name ar	nd Fir	m)
Is Well A Point of Enforcement Std. Application?  Yes No	Location of W u   Upgrad d  Downg	lient s	Sidegra	adient						<b>*</b> 01
A. Protective pipe, top elevation f	t. MSL			l. Cap ar	nd lock?	110		☑ Yes	10	No
B. Well casing, top elevation f	. MSL		8 2	2. Protect						
	MSL ~	ITH		a. Insid	le diame zth:	ter		39	18.0 1.0	
D. Surface seal, bottom ft. MSL or			<b>经验证</b>	c. Mate				Stee	1 🖾	04
12. USCS classification of soil near screen:	.v .r.			d Åddi	itional n	rotection?		Other  ☐ Yes		N.
GP GM GC GW SW SS SM SC ML MH CL SC	PKC	1	//			ribe:			52-50	No
Bedrock D	-		/ , 3	. Surface	e seal:			Bentonite Concrete	7,102,700	30 01
13. Sieve analysis attached? ☐ Yes 📉 N	1			N garage	-	lt		Other	23	
14. Drilling method used: Rotary 5 Hollow Stem Auger 4			4	. Materia	al betwe	en well casi	ng and protec	tive pipe: Bentonite	100	30
Other 🗆							Annular	space seal		
15. Drilling fluid used: Water 002 Air 0			<u> </u>			1		Other		
Drilling Mud 🗆03 None 🗷 99							a. Granular Bentonite-s			33 35
16. Drilling additives used? ☐ Yes ☑ No	.		c.		Lbs/gal	mud weight	Bentor	nite slurry		31
T		₩ ₩	d.	9	% Bento		entonite-cem			50
Describe			e. f.	How	installe	_Ft³ volume	added for any	y of the abo Tremie		01
17. Source of water (attach analysis):							Tremi	e pumped		02
And the second s				Danton!			<b>5</b>	Gravity		08
E. Bentonite seal, topft. MSL or	ft N		1/2/(0/2013)	Bentoni b. 1			a. Bentonite /2 in. Benton			33 32
			/	c				Other		
F. Fine sand, topft. MSL or3.	1 ft.	N 1007 B0002					turer, produc	t name & r	mesh :	size
Filter pack, top ft. MSL or6.	rt.			b. Volu		e Sand, #40- ed 5.6	ft <sup>3</sup>		- 3	22
			A Control			and the same of th	cturer, produ	ct name &	mesh	size
H. Screen joint, topft. MSL or7.0	) ft. —	7-7		a. Red b. Volu		Flint Sand #.			_ #	
I. Well bottom ft. MSL or _ 25.0	ft.			Well cas		Flush thre	aded PVC scl			23
4						Flush thre	aded PVC sci		0.000	24
Filter pack, bottomft. MSL or25.0	A		10.	Screen r	naterial	PVC		Other		
K. Borehole, bottomft. MSL or _ 25.0	ft.		a.		n type:			ctory cut		11
. Borehole, diameter _18.0 in.				-			Contin	uous slot   Other	500	01
M. O.D. well casing 6.25 in.		2	b. c.		ufacture	B	adger	- 0	9.	_
A Mario and any		-	\ d.	. Slotte	ed lengtl		8	0 _1	5.0 f	n. L
N. I.D. well casing 6.00 in.		-30	11.	Backfill	materia	l (below filte	er pack):	None I	100	4
hereby certify that the information on thi	s form is tr	ue and cor	rect to th	he best	t of m	v knowled	ge.	_ Other [	u <u>®</u>	200
ignature	Name and Address of the Owner, where the Owner, which the	igma Envi		-	-		30.			-
"ase complete both sides of this form and return to the	1	02 Progress T	rive Sauk	cville V	VT 5308	0 (414) 284	-6824			-
rase complete both sides of this form and return to the fich NR 141, Wis Ad Code. In accordance with ch 1000 for each day of violation. In accordance with ch ay of violation. NOTE; Shaded areas are for DNR use	44, Wis Stats, 147, Wis Stats	failure to file, failure to file	this form not this form	nay resul may resul	s form a lt in a fo ult in a f	orfeiture of no forfeiture of n	ot less than \$ not more than	10, nor mor	re that or eac	its, n ch
and of violation. NOTE, shaded areas are for DNR use	only. See inst	ructions for n	nore inform	ation inc	cluding	where the co	mpleted form	should be	sent.	ANT

CI.0562

Appendix F Closure Request of Sigma of September 12, 2002 for Closed BRRTS # 03-41-000450

#### Letter Of Transmittal

Type of Submittal:

X LUST \_\_ ERP \_\_ VPLE \_\_ other (describe)

To:

Program Assistant/BRR Program Wisconsin Department of Natural Resources Box12436 2300 N. Dr. Martin Luther King Jr. Dr. Milwaukee, WI 53212 From: Name Mary E. Clifford

Company Sigma Environmental Services, Inc.

Address 220 East Ryan Road
Oak Creek, Wisconsin 53154

Phone (414) 768-7144

Date 9/13/02

FOR: Site Name Clark Station # 0562

Address 4751 N. Santa Monica Blvd. Milwaukee, Wisconsin 5321

Check type(s) of documents enclosed. Submittals are tracked & filed based on information you provide. Include FID & BRRTS numbers assisgned to this site. Identify the intent of documents(s) you are submitting in order to speed processing. Please attach required fees to this form.

FID# BRRTS# 241574850 03-41-0004

SEP 1 7 2002

re you requesting Department Review? Y ...

PE OF DOCUMENT/REPORT	FEE	DNR (office use CODE only)
tification of Release	none	01
nk Closure/Site Assessment where release(s) have been dete	ected* none	33
e Investigation Workplan	\$500 if review is requested	35,135~
e Investigation groundwater impacts above ES no groundwater impacts or gw impacts below ES (if petrole) nsferred to Department of Commerce)	\$750 if review is requested um constituents only, case will be	37. 137~, 76, 96
quest to Transfer Case to Department of Commerce	none	76
-Site Determination Request	\$500 mandatory	638~
medial Action Options Plan	\$750 if review is requested	39,143~
720.19 Site Specific Clean-Up Goal Proposal	\$750 if review is requested	67,68~
718 Landspreading Request	\$500 mandatory	61~
otification to Treat or Dispose" of Contaminated Soil/Water	none	99
ection/Infiltration Request	\$500 mandatory	63~
arterly Report or Update	\$500 if review is requested	43, 43~
M Form 4400-194	\$300 if review is requested	92, 192~
medial Action Options Report	\$750 if review is requested	41, 41~
sure Review Request	\$750 mandatory	79~
700.11 Simple Site Closure Request	\$250 mandatory	183~
aft Deed Affidavit" or "Restriction required for close-out"	none	99
ell Abandonment Forms"	none	99
medial Design Report	\$750 if review is requested	147, 148~
nstruction Documentation Reports	\$250 if review is requested	151, 152~
ng Term Monitoring Plan	\$300 if review is requested	24, 25~
luntary Party Liability Exemption (VPLE) Application	\$250 mandatory	662
LE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
x Cancellation Agreement	\$500 mandatory	654
gotiated Agreement	\$1000 mandatory	630
nder Assessment	\$500 mandatory	686
gotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
neral Liability Clarification Request	\$500 mandatory	684
ase Letter Request - Single Property	\$500 mandatory	646
ase Letter Request - Multiple Properties	\$1000 mandatory	646
quest for Other Technical Assistance	\$500 mandatory	90~
ner ase ase que	al Liability Clarification Request Letter Request - Single Property Letter Request - Multiple Properties	Tal Liability Clarification Request \$500 mandatory  Letter Request - Single Property \$500 mandatory  Letter Request - Multiple Properties \$1000 mandatory  est for Other Technical Assistance \$500 mandatory

<sup>\*</sup>Closure reports for sites where no releases have been detected should be sent directly to "Clean Closures" c/o DNR Remediation a& Redevelopment Program, P.O. Box 7921, Madison WI 53707

WDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 0 WDNR SITE NAME: Clark Station # 0562

Form Completed By:	X Closeout Review Fee Attached
	GW Registry Fee Attached
DA 9-16-02	
(Signature) (Date)	
Printed Name:Dave G. Bauer	Company Name: Sigma Environmental Services, Inc.
Email address: dbauer@thesigmagroup.com	
If not site owner, relationship to site owner:environment	tal consultant
Address: 220 East Ryan Road	
Telephone Number: ( 414 ) 768-7144	FAX Number: ( 414 ) 768-7158
Environmental Consultant (if different then above):	
Address:	
Telephone Number: ( )	FAX Number: ( )
. SITE LOCATION & ZONING  /DNR Site Name: Clark Station #0562	
omplete Site Address: 4751 Santa Monica Boulevard 53211	
VDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 FID #	f: <u>2 4 1 5 7 4 8 5 0</u>
ECFA Claim #: 5 3 2 1 1 - 1 0 4 3 - 5 1	9(9 M)
esponsible Party Name: Clark Retail Enterprises, Inc.	
omplete Responsible Party Address: 601 South Main Stree	t, Ann Arbor, Michigan 48104
ite Legal Description: <u>NE ¼, NE ¼, Sec 5, T 7N, R 22</u>	
IS Coordinates obtained: on site using GPS Locator conver	( E/W) Town: Milwaukee
ounty: Milwaukee value Sec _5 , T _7_N, R _22 value	(E/W) Town: Milwaukee  Longitude: 'Longitude: 'Longitude: 'Longitude: 'Longitude: Longitude: Longit

WDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 0 WDNR SITE NAME: Clark Station # 0562
2. RECEPTORS   Identify all pre-remedial and actual reports, the potential risk and their locations (i.e., both on and off site utility corrido basements or sumps of nearby buildings, direct contact threat from soil, water supplies, surface waters, sediments, eteror definition refer to s. NR 700.03 (47), Wis. Adm. Code.):  There are no recorded pre-remedial reports. Utilities are located onsite on the southern and eastern property line. Direct contreat does not appear to be present onsite.  Have the remedial actions abated the potential or actual impacts to these receptors? YesX No   If no, provide details in case summary. If yes, please identify the nature of the remaining risk and the receptor at risk:
treat does not appear to be present onsite.
If no, provide details in case summary.
Soil Type(s):sand and clayey sand Depth of Contamination:6-13 feet bgs
List all contaminants found in soil (regardless of ch. NR 720 standards/attach table if necessary)
Remedial Action Completed? X Yes No s. NR 720.19 Analysis? Yes X No If yes, attach supporting documentation
Brief description of Remedial Action Taken: Soil vapor extraction
Were soils excavated? X Yes No Quantity: 1200 tons Disposal Method: disposed of at Parkview Landfill, Menomonee Falls
Final confirmation Sample Collection Methods: composite grab samples were collected from the sidewalls and bottom of excavation
Final Soil/Drill Cuttings Disposal Location: Parkview Landfill, Menomonee Falls, Wisconsin
Estimated volume and depth of in situ soils exceeding ch. NR 720 Table RCLs or site specific RCLs: 400 ft <sup>3</sup> , 7-9 feet bgs(B-1 and B-2), pre-remediation
Estimated volume and depth of in situ soils exceeding ch. NR 746 Table 1 or Table 2 or site specific RCLs: 400 ft³, (B-10:7-9,B-7: 7-9), pre-remediation
5. GROUNDWATER INFORMATION
Extent of Contamination Defined? X Yes No N/A Remedial Action Completed? X Yes No N/A
Brief Description of Remedial Action Taken: vacuum enhanced groundwater recovery
# of Sample Rounds: 21 Depth(s) to Groundwater/Flow Direction(s): 7-11 feet bgs, west to southwest, see attached report
Field Analyses? X Yes No Lab Analyses? X Yes No # of Sampling points: 17

WDNR BRR15 CASE #: 0 3 - 4 1 - 0 0 0 4 5 0 WDNR SITE NAME:Clark Station # 0562	
# NR 141 Monitoring Wells Sampled: 9 # Temporary Groundwater Sampling Points Sampled: 0	
# Recovery Sumps Sampled: # Municipal Wells Sampled: 0 # Private Wells Sampled: 0	
List all contaminants found in groundwater (regardless of ch. NR 720 standards/attach table if necessary)  Benzene, ethylbenzene, toluene, xylenes, trimethlybenzenes, methyl tert butyl benzene. Refer to attached report	
Has DNR Been Notified of Substances in Groundwater w/o Standards? Yes X No If Yes, How Many?	
What Substances?	
Any Potable Wells Within 1,200 Feet of Site? Yes _X No Have They Been Sampled? Yes No [NOTE: Wells are to be included on map described in Item B8]	
Have Well Owners/Occupants Been Notified of Results? Yes No Are notification letters attached?	
Preventive Action Limit Currently Exceeded? X Yes No If Yes, identify location(s)	
Enforcement Standard Currently Exceeded? X Yes No If Yes, identify location(s)	
Measurable Free Product Detected? X Yes No X pre-remediation? post-remediation?	
Was Free Product remediated? X Yes No Explain: Vacuum enhanced groundwater recovery and natural attenuation see attached report	
6. OTHER CONTAMINATED MEDIA INFORMATION  Have other media been impacted (either on-site or off-site)? YesX _ No  Briefly describe type and extent of all contamination found in media other than soil or groundwater:	
Remedial Action Completed? YesX _ No N/A	
# of Sample Rounds: Yes No Lab Analyses? Yes No	
# of Sampling Points: Yes No	
# Recovery Sumps Sampled: 8  # Municipal Wells Sampled: 0  # Private Wells Sampled: 0  List all contaminants found in groundwater (regardless of ch. NR 720 standards/attach table if necessary) Benzene, ethylbenzene, toluene, xylenes, trimethlybenzenes, methyl tert butyl benzene. Refer to attached report  Has DNR Been Notified of Substances in Groundwater w/o Standards? Yes No	
C-11	
ND TOO COMMON AS A	
ND 700 1010 C H P 4	
s. NR 720.19(3) Site Specific Standards (SSRCLs) s. NR 726.05(2)(b), > ES Natural Attenuation	

WDNR BRRTS CASE #: 0 3 - 4 1						
Petroleum Storage Tank Soil Options for	THE WAY OF		Storage Tank Groundy			101 (0)
s. NR 746.07 Soil Screening Levels			46.07 > PAL < ES Lov			tigation
X s. NR 746.08 Soil Screening Levels	s/Post Remediation	Commence of the Commence of th	46.07 > ES, Permeabl			
			746.08>ES, Low Per			ion
		<u>X</u> s. NR	746.08 > ES, Permeat	ole Site, Post Ri	emediation	
A. Enforcement actions closed out?	Yes No	N/A P	ermits closed out?	Yes	No1	N/A
B. Proposed post remediation land use:	ResidentialX	Commercial	Industrial	Other Spe	cify:	
C. Does remedy include Soil Performant	ce Standards (SPS)?	YesX_	_No			
Type: Cap So Specify:	il Building	Natural	Attenuation of Ground	dwater	Other	
Will the proposed post remedia Why?	tion land use be consiste	ent with the ma	intenance of the SPS	? Yes	No	
Proof of ch. NR 714 public no newspaper with the notice OR				her be the act	ual entire page	e of the
Maps and photos attached doc	umenting the cap area, o	construction, a	nd/or the integrity of t	he cap?Ye	sNo	_N/A
A maintenance plan is attachedYesNo	for the performance sta	andard per ss. I	NR 720.19(2) and 724	1.13(2), Wis. A	dm. Code?	
D. Does remedy include SSRCLs?Y Is post-remedial land use industrial?_						
Is zoning change required or completed in the second secon		affected prope	ties?YesNo			
Complete assumptions and calculation	ons for SSRCLs attached	d with justificia	tion?YesNo			
If using EPA Soil Screening Level M (circle one) site specific inputs					are the numbe	rs used:
E. Does remedy include natural attenuat Mann-Kendall/Mann-Whitney U						
F. Describe how the following pathway  1) Direct Contact Pathway: Ti		covered by as	phalt or concrete, see	attached repor	t.	
2) Groundwater: The impact	plume margin is general	ally decreasing	and is excepted to	continue by na	stural attenuat	ion, see
attached report.						
8. PROPOSED INSTITUTIONAL O	CONTROLS (See PU	B. RR-606)				
Deed Restriction (required to Deed Notice	for industrial cleanup lev	vel/ and when p	erformance standard	requires mainte	nance plan)	
For public street or highwork checklist)	vay right of way contain	mination, provi	de notice as required	(See item (E)	in the case s	summary
X RR GIS Registry of Closed Other	Sites					
Copy of Draft Deed Document(	s) attached? X Yes _	_No (see RR w	eb site: http://www.d		org/aw/rr/index	

O IFOT MANAGED		0 99 99 5	2		
ROJECT WANAGER:		Date Revie	ewed:		-
IRST REVIEW DATE:		[ ] Approved	[ ] Denie	ed	
Signature)	(Signature)	(Signature)		(Signature)	
SECOND REVIEW DATE:		[ ] Approved	[ ] Denie	ed	
Signature)	(Signature)	(Signature)		(Signature)	
COMMITTEE RECOMM	ENDATION:				
Closure Approve	ctions				
Listing on Zoning Ve	rification riction		Ē	# <sub>6</sub> £	
Well Abar	fic Close Out Letter donment Documentation				
Public Not	sal Documentation ice of soil performance standard xemption For:	I remedy			
Specific C	omments:				
					_
	n er Monitoring		or.		
Documenta	er Remediation tion of Soil Landspreading or Bio	pile Destiny			
Specific Col	nments:				



192-



220 East Ryan Road Oak Creek, WI 53154-4533 414-768-7144

Project Reference # CL0562 FAX: 414-768-7158

Mr. John Hnat Hydrogeologist WDNR-Southeast Region 2300 N. DR. Martin Luther King Blvd. P.O Box 12436 Milwaukee, WI 53212-0436

RE:

CASE SUMMARY AND CLOSE OUT REQUEST

Clark Station #0562 4751 Santa Monica Boulevard Milwaukee, WI BRRTS # 03-41-000450 FID # 241574850

Dear Ms. Stovel:

Sigma Environmental Services, Inc. (Sigma) has provided environmental consulting services for the implementation of soil and groundwater remediation activities at the Clark Retail Enterprises, Inc. (Clark) site located at 4751 Santa Monica Boulevard, Milwaukee, Wisconsin. Based on the information available to date, and in accordance with the requirements of Chapters NR 726 and NR 746 of the Wisconsin Administrative Code (WAC), Sigma on behalf of Clark, is requesting that the site be considered for case closure. As petroleum hydrocarbon impacts remain in the groundwater at concentrations above the established enforcement standards for select Petroleum Volatile Organic Compounds (PVOCs), it is understood that registration on the GIS database will be required. A check for \$250 has been submitted to the Wisconsin Department of Natural Resources-Southeast District.

Enclosed please find the necessary documentation required for obtaining site closure. If there are any questions or comments concerning this request, please contact Sigma at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Mary E Clifford

Staff Scientist

David G. Bauer, P.G.

Project Manager/ Hydrogeologist

Randy E. Boness, P.G. Senior Project Manager

Enclosures

Cc: Eric Larson - Clark Retail Enterprises, Inc.

#### CERTIFICATIONS

"I, Randy E. Boness", hereby certify that I am a scientist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Ray Brown Signature and title Emor Garloy P.G. Stamp

"I, <u>Dave G. Bauer</u>, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

DR Hychrogeologist
Signature and title

P.G. Stamp Date

Date

"I, Mary E. Clifford, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Mercy Clif Statt Scientist 9/10/02
Signature and title Date

#### CASE SUMMARY

Responsible Party: Clark Retail Enterprises, Inc.

601 S. Main Street Ann Arbor, MI 48104 Attn: Eric Larson

Telephone: (734) 669-6155 FAX: (734) 668-9631

E-mail: eric.larson@clarkretail.com

# Case Summary and Chronology of Events

# August 1989 through January 1990

Foth and Van Dyke (FVD) conducted a preliminary site assessment to determine if a release from the underground storage tank (UST) systems had occurred. FVD's assessment included drilling 3 soil boring onsite and collecting composite samples for laboratory analysis. Based on laboratory result, a petroleum release had occurred at the site. In the fall of 1986, tightness testing was performed on the tanks and product piping. The regular unleaded UST systems passed however, the super unleaded tank failed. Subsequent excavation around the product lines did not indicate a release. On January 5, 1990, Clark Oil relined the super unleaded tank and placed it back in service.

#### March 1990

Omega Environmental Services, Inc. (Omega) conducted soil removal activities of 1200 tons of petroleum impacted soil during the removal and upgrade of two 6,000 gallon unleaded gasoline underground storage tanks (UST) on March 13 to 16, 1990. Approximately 1176.39 tons of contaminated soil was removed and diposed of at Parkview Landfill, Menomonee Falls, Wisconsin from the tank excavation and continued north and west to the property lines. Representative composite grab soil samples were collected from the sidewalls and bottom of the excavation.

After the excavation was complete, the entire excavation was lined with 6 millimeter polyethylene plastic. Two (2) EPA approved steel 12,000 gallon, cathodically protected USTs were installed in the excavation and leak tested. Based on site activities Omega recommended no further action.

# January 1992

The Wisconsin Department of Natural Resources (WDNR) notified Clark that additional investigation was necessary to determine the horizontal and vertical extent of contamination to the soil and/or groundwater.

June 1992 through April 1993

Sigma conducted subsurface investigation activities on-site and off-site to determine the extent and character of petroleum impacts beneath the site. The investigation included drilling 12 soil borings (GP-1 through GP-12) and installing seven groundwater monitoring wells (MW-1 through MW-7). Based on the laboratory results, field screening results and physical observations, and estimated 2,000 cubic yards of petroleum impacted soil exists on and off-site. The laboratory analysis indicated that predominant soil impacts appeared to be related to releases from the two gasoline USTs that were removed in 1990. Soil boring and monitoring well locations are included in Figure 1.

Volatile organic compounds (VOCs) above NR 140 Enforcement Standards (ES) or Preventative Action Limit (PAL) were detected in groundwater monitoring wells MW-1, MW-2, MW-3, MW-5, and MW-6. Soluble lead was detected in monitoring well MW-1 and MW-2 at concentrations above NR 140 ESs. Based on a review of the subsurface investigation data it was determined that remediation of both soil and groundwater was necessary. Groundwater quality results are present as Table 1. Refer to "Report of a Subsurface Investigation at Clark Station #562 ..." for further in formation.

July 1994 through June 1995

Sigma completed a preliminary remedial alternative analysis for the site and Analysis For Clark Refining and Marketing, Inc...", dated July 1994). Three remedial alternatives were identified and evaluated based upon their technical feasibility, remediation efficiency and cost-effectiveness. Sigma recommended soil vapor extraction (SVE) with groundwater air sparge.

Based on review of the WDNR records of the remediation work at the One Hour Martinizing site directly north of the Clark site and discussion with the WDNR, the air sparge technology did not appear to be the most effective option for remediation. Sigma then proposed a SVE/groundwater extraction and treatment system as the most effective alternative. For further infromation refer to "Remedial Action Plan and Proposed Design for the Clark Station #0562...".

June 1995

Offsite monitoring well MW-8 was installed on June 29, 1995 west of the Clark property. Select PVOC concentrations were detected above NR 140 ESs during the July 1995 and August 1995 sampling events. Groundwater quality results are presented as Table 1.

Jud

# October 1995 through February 1997

Construction of the remediation system consisting of Vacuum Enhanced Groundwater Recovery (VEGR) in conjunction with Soil Vapor Extraction (SVE) was initiated in October 1995. The system consisted of four vacuum enhanced extraction wells (Q-1 through Q-4) to extract both soil vapor and groundwater from the subsurface and two AVE wells (VE-1 and VE-2) connected to the SVE unit to extract vapors from the vadose zone.

The four dual extraction wells (Q-1 through Q-4), two SVE wells (VE-1 and VE-2), and an additional monitoring well (MW-9) were installed October 4 through October 11, 1995. The parking lot was saw cut and a trench was excavated for the installation of the system piping from October to December 1995. Well locations are included in Figure 1.

During the trench excavation, soil was field screened using a Photoionization Detector (PID). The soil in the trench appeared to be impacted based on the PID readings. Therefore, approximately 170 yd<sup>3</sup> contaminated soil was sent to the Orchard Ridge Recycling and Disposal Facility in Menomonee Falls, Wisconsin (Waste Profile # ORC-BIO/57989).

Installation of the remediation equipment within the treatment building was initiated in May 1996. The system was designed to discharge effluent groundwater from the remediation system to the sanitary sewer (MMSD) on a temporary basis until a storm sewer WPDES permit was received.

On October 11, 1996 groundwater samples were collected from the entire monitoring well network (MW-1 through MW-9) and analyzed for PVOC's. These samples were analyzed to provide a baseline of groundwater quality prior to the system start-up. Groundwater results are presented in Table 1.

On October 21, 1996, the SVE system was activated. The system operated intermittently during the first three months of operation because of an electrical problem in the control panel. The problem was repaired and the system began full operation in February 1997.

For more detailed information on the remediation system operation at Clark Station #0562 refer to "Remediation System Installation and Start-up Report" for Clark Station #0562..., dated May 1997.

# April 1997 though December 1997

Since remediation system start-up in October 1996, the system removed approximately 647.5 pounds of VOC's and 32.2 pounds of benzene while the groundwater extraction and treatment system has removed approximately 6.6 pounds of PVOC's. During the period of April 15, 1997

through December 31, 1997, the SVE system removed approximately 10.2 pounds of benzene and 466.5 pounds on VOC's while the groundwater extraction and treatment system removed approximately 3.96 pounds of PVOC's.

Quarterly groundwater sampling for GRO, PVOCs, and lead was preformed for monitoring wells MW-1 through MW-9. Sampling events were conducted on May 21 and August 28, 1997. Analytical reports indicate benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations remained above NR 140 ESs at monitoring wells, MW-1, MW-2, MW-5, and MW-8 while benzene and xylene were reported above NR 140 ESs at monitoring well MW-6. Groundwater quality results are presented as Table 1. For further information refer to "Status Report for the Soil and Groundwater Remediation System at Clark Station #0562..." dated February 1998.

# January 1998 to April 1999

The active remediation systems were shut down between September 29, 1998 and March 25, 1999 to monitor groundwater quality and evaluate the site conditions based on COMM 47 guidelines. Based on the results of COMM 47 evaluation, continued operation of the active remediation systems was warranted to minimize contaminant plum expansion.

Since remediation system start-up in October 1996, the system removed approximately 1033.8 pounds of VOCs and approximately 96.7 pounds of benzene. During the reported period of January 1, 1998 through April 30, 1999, the SVE system removed approximately 38.7 pounds of benzene and 218.5 pounds of VOCs while the groundwater extraction and treatment system removed approximately 1.08 pounds of PVOCs.

Periodic groundwater sampling activities were performed on February 18, 1998, May 19, 1998, July 23, 1998, November 24, 1998, and March 24, 1999. Results for the groundwater monitoring for the March 24, 1999 sampling event show NR 140 ES excxeedances for one or more of the following compounds, benzene, toluene, ethylbenzene, and xylene (BTEX) in monitoring wells MW-1, MW-2, MW-5, MW-6 and MW-8. Groundwater results are presented in Table 1. Refer to "Status Report for the Soil and Groundwater Remediation System at Clark Station #0562..." dated October 1999 for more information.

# May 1999 through April 2000

During the recording period of May 1, 1999 through April 30, 2000, the SVE system removed approximately 2.9 pounds of VOCs. Since the remediation start-up in October 1996, the system removed approximately 1036.7 pounds of VOCs and 96.7 pounds of benzene. The groundwater extraction

and treatment system removed approximately 2.4 pounds of PVOC's during the recording period and approximately 10.2 pounds of PVOC's since the remediation start-up in October 1996.

Periodic groundwater sampling for PVOCs was performed on one of more groundwater monitoring wells on July 20, 1999, October 11, 1999 and February 28, 2000. Results of groundwater monitoring for the February 28, 2000 sampling event indicated NR 140 ES exceedances for one or more of the following compounds, benzene, toluene, ethylbenzene, xylene (BTEX) and trimethylbenzene in monitoring wells MW-1, MW-2, MW-5, and MW-6. Groundwater results are presented on Table 1 and Figure 2.

Based on an evaluation of COMM 46 Risk Factors, Sigma recommended active remediation system shutdown and implementation of a groundwater natural attenuation monitoring program was appropriate for the site. Sigma also recommended implementing a quarterly groundwater monitoring program at the site to verify that natural attenuation is occurring and that contaminant plum continues to remain stable and recede.

The groundwater monitoring program consisted of quarterly monitoring of PVOCs, geochemical and biochemical indicators of natural attenuation at monitoring wells MW-1, MW-2, MW-5, MW-6 and MW-8, and annual monitoring of the above listed compounds at monitoring wells MW-3, MW-4, MW-7 and MW-9. For more information refer to "Status Report for the Soil and Groundwater Remediation System at Clark Station #0562..." dated May 2000.

#### May 2000

A groundwater sampling event occurred at monitoring wells MW-1, MW-2, MW-5, MW-6, MW-7, and MW-8 on May 24, 2000. Select BTEX compounds and/or trimethylbenzene concentrations were detected above NR 140 ESs at monitoring wells MW-1, MW-2, MW-5, MW-6, and MW-8. Groundwater results are presented on Table 1 and Figure 2.

#### July 2000

The SVE system and groundwater extraction and treatment system was shut down July 2000. The system was cleaned after shut down on July 24, 2000. Activities at the site will now consist of quarterly groundwater monitoring for natural attenuation.

# October 2000 through October 2001

Four groundwater sampling events were completed at the site on October 5, 2000, April 2, 2001, July 23, 2001, and October 22, 2001. Groundwater samples were collected at all groundwater monitoring wells for the four

above referenced groundwater sampling events with the exception of the October 5, 2000 groundwater sampling event. Groundwater samples were analyzed for PVOCs along with select *in-situ* field measurements.

Static groundwater measurements were used to calculate groundwater elevations and flow directions. During the sampling events occurring October 2000 through October 2001 depth to water measurements varied across the site from 7.26 feet below ground surface (bgs) to 10.93 feet bgs with an average depth of 8.98 feet bgs. The October 2001 sampling event indicates that groundwater flow direction is generally west to southwest across the site. The hydraulic gradient for the October 2001 sampling event is approximately 0.0076 feet per foot, consistent with previous sampling events. Table 2 provides a summary of historical groundwater elevations. Groundwater contour maps for the October 5, 2000, April 2, 2001, July 23, 2001, and October 22, 2001 are presented as Figure 3, 4, 5 and 6, respectively.

Select PVOC concentrations were detected above NR 140 ESs during the last four sampling events. Concentrations of benzene were detected above NR 140 ESs at monitoring well MW-1, MW-2, MW-5, and MW-6 at all four sampling events with the exception of benzene concentrations at monitoring well MW-1 during the October 2000 and April 2001 sampling events. Ethylbenzene was detected above NR 140 ES concentrations at monitoring well MW-1 during the July and October 2001 sampling and at monitoring wells MW-5 and MW-8 during last four sampling events. concentrations above NR 140 ESs were detected at monitoring well MW-1 during the October 2000 and April, July and October 2001 sampling events. Concentrations of total xylenes above the NR 140 ESs were detected at monitoring well MW-1 during the October 2000, July and October 2001 sampling events and at monitoring well MW-8 during the October 2000 and October 2001 sampling events. Total trimethylbenzene concentrations were detected above NR 140 ESs at monitoring well MW-1, MW-2, MW-5, and MW-8 for the sampling events occurring from October 2000 to October 2001. Groundwater quality results are presented on Table 1 and Figure 2. Groundwater laboratory results for the sampling events occurring April 2001, July 2001 and October 2001 are included as Attachment A.

In-situ field measurements were collected at select monitoring wells during the October 2000, April 2001, July 2001, and October 2001 sampling events to further evaluate if intrinsic bioremediation of hydrocarbon impacts to groundwater is feasible and on-going. A review of the in-situ field measurements during the October 2001 sampling event indicate subsurface conditions are favorable for intrinsic bioremediation. Dissolved oxygen levels and reduction-oxidation potential were both detected in impacted monitoring

wells MW-1 and MW-5 at lower levels than were indicated in non-impacted monitoring well MW-9 indicating that microbial consumption has depleted the oxygen present in the groundwater. The presence of ferrous iron in impacted monitoring wells MW-1 and MW-5 indicates microbes are utilizing iron (III) as an alternate electron acceptor and further supports the fact that intrinsic bioremediation is on-going. Table 3 presents at summary of the *insitu* field measurements for groundwater.

Mann Kendall statistical analysis was completed on monitoring wells MW-1, MW-2, MW-5, MW-6, and MW-8 one or more of the following PVOCs, benzene, ethylbenzene, toluene, total xylenes, and total trimethylbenzenes. Concentrations of PVOCs were found to be decreasing or stable at all monitoring wells analyzed with the exception of ethylbenzene at monitoring well MW-1 and trimethylbenzenes at monitoring wells MW-5 and MW-8. Mann Kendall analysis is presented as Attachment B.

#### Justification for Site Closure

The Clark site located at 4751 Santa Monica Boulevard has been in operation as a gasoline station since the early 1960's. The site is approximately 0.4 acres in size and is located in a mixed residential/commercial area of Milwaukee, Wisconsin. The site is bordered by the Chicago & Northwestern Railraod to the southwest, a Martinizing Dry Cleaners (formerly a Mobil Station) to the north, and a parking lot on the southeast corner of the intersection of Hampton Avenue and Santa Monica Boulevard. (refer to "A Subsurface Investigation for Clark Station #562..." dated March 1994).

Remedial strategies at the site were warranted to restore soil and groundwater qualities to practical levels as determined by the Wisconsin Department of Natural Resources. Given the Clark Station's hydrogeologic setting and the results of the subsurface investigation, a soil vapor extraction and vacuum enhanced groundwater recovery and treatment system was installed to address impacted soil and groundwater. The system was in operation from October 22, 1996 through July 2000 with a temporary system shut down from September 29, 1998 and March 25, 1999 to monitor groundwater quality and evaluate the site conditions based on COMM 47 guidelines. The SVE system removed a total of approximately 1036.7 pounds of VOC's and approximately 96.7 pounds of benzene. While the groundwater extraction and treatment system removed a total of approximately 10.2 pound of PVOC's. The system was shutdown in July 2000 to implement a groundwater natural attenuation monitoring program.

Since the remediation system shut down in July 2000 a total of four groundwater monitoring events have occurred. Groundwater flow is consistently to the west with a varying north to south component present.

Post remedial groundwater quality monitoring has documented stable and/or decreasing concentrations of benzene, ethylbenzene, toluene, total xylenes, and trimethylbenzene at monitoring wells MW-1, MW-2, MW-5, MW-6, and MW-8 with the exception of ethylbenzene concentrations at monitoring well MW-1 and trimethlybenzene concentrations at monitoring wells MW-5 and MW-8. While monitoring wells MW-3, MW-4, MW-7 and MW-9 continue to have no detected concentrations of PVOCs.

#### Evaluation of NR 746 Risk Screening Criteria

In accordance with NR 746.06, the following risk criteria (and how each applies to the site) were used to determine whether the site may be closed as provided in NR 746.07:

 Presence or absence of NR 746 Environmental factors (EFs) or the satisfactory response to any EF present.

Upon evaluation of the site environmental data generated, none of the environmental factors as outlined in NR 746 appear to be present at the site. Specifically, 1) there is no documented expansion of the plume margin (with the exception of ethylbenzene concentrations at MW-1 and trimethylbenzene concentrations at MW-5 and MW-8 2), no verified contaminant concentrations in a private or public potable well that attains or exceeds the preventative action limit, 3) no contamination within bedrock or within 1 meter of bedrock, 4) no petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more, and has been verified by more than one sampling event, and 5) no documented contamination discharges to a surface water or wetland.

 No soil contamination is present at the site that exceeds any of the indicators of petroleum product listed NR 746.06 Table 1.

Laboratory analysis of soil samples reveal that concentrations (before remediation) of ethylbenzene and xylene at soil borings B-7 and B-10 were detected above the NR 746.06 Table 1 values for soil screening along with bezene and toluene at soil boring B-10. However, post remediation system operation soil samples have not been collected, therefore current levels of contaminants are not known. The site is primarily concrete and/or asphalt paved, limiting exposure routes to any soil impacts that may remain on site.

 There is no soil contamination within 4 feet of the ground surface that exceeds NR 746.06 Table 2 direct contact values. During site investigation activities, field screening of shallow soil samples with a photoionization detector indicated elevated levels of petroleum hydrocarbons however, laboratory analysis of shallow soil samples (within 4 feet of the surface) was not performed. The site is primarily concrete and/or asphalt paved, limiting exposure routes to soil that may remain on site.

For substances not listed in NR 746.06 Table 2 that are present within 4 feet of the ground surface and have been approved by the agency with administrative authority of the site as contaminants of concern as defined in s. NR 720.03(2), any potential human health risk from direct contact has been addressed.

During site investigation activities, field screening of shallow soil samples with a photoionization detector indicated elevated levels of petroleum hydrocarbons however, laboratory analysis of shallow soil samples (within 4 feet of the surface) was not performed. The site is primarily concrete and/or asphalt paved, limiting exposure routes to soil that may remain on site.

Except for the substances listed in Table 2, there is no human health risk from direct contact for a substance listed in Table 1 if the substances's concentration is below the Table 1 soil screening level.

During site investigation activities, field screening of shallow soil samples with a photoionization detector indicated elevated levels of petroleum hydrocarbons however, laboratory analysis of shallow soil samples (within 4 feet of the surface) was not performed. The site is primarily concrete and/or asphalt paved, limiting exposure routes to soil that may remain on site.

No release of a petroleum product to the soil or groundwater at the site has occurred within the last 10 years.

Historical data indicates that the site has been operating as a Clark station since the early 1960's. In 1989, a release was confirmed and reported to the WDNR at the site and two 6,000 gallon unleaded gasoline UST were subsequently removed from the site and replaced with two 12,000 gallon gasoline USTs in 1990.

There is no evidence of migration of petroleum product contamination within a utility corridor or within a permeable material or soil along which vapors, free product or contaminated water may flow. No evidence of migration of petroleum product contamination within a utility corridor is present based on the groundwater analytical results of groundwater monitoring wells, MW-3 and MW-4 located near underground utilities. Based on a review of the site conditions and adjacent properties, utility corridors are present adjacent to the site, along the eastern and southern property boundaries. Specifically, natural gas, storm sewer, and sanitary sewer utility line run adjacent to the property along N. Santa Monica Boulevard. In addition a natural gas utility line runs along the south property boundary.

There is no evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of entry into a basement or other enclosed structure where petroleum vapors could collect and create odors or an adverse impact on indoor air quality or where the contaminants may pose an explosion hazard

There is no current evidence to support contaminant/vapor migration to other structures in the vicinity of the site.

No enforcement standard is attained or exceeded in any groundwater within 1000 feet of a well operated by a public utility, as defined in s. 196.01(5), Stats., or within 100 feet of any other well used to provide water for human consumption.

No public wells were identified within 1000 feet of the site and no private wells were identified within 100 feet of the site (refer to "Subsurface Investigation for Clark Station #562..." dated March 1994).

Based on the available site specific information NR 746.06 risk criteria have been evaluated and substantially met for this site; consequently it is our professional opinion that minimal risk to human health and/or the environment is present with respect to the release that occurred at the Clark Station #1363. A review of groundwater quality data indicates that dissolved petroleum hydrocarbons have impacted groundwater, however, empirical evidence indicates that natural attenuation is occurring beneath the site and will continue to effectively remediate the site to the extent possible.

## Conclusion and Recommendation

The implementation of an aggressive remediation program has significantly reduced subsurface impacts to the extent practicable, and based on current information no significant risk to human health and/or the environment currently exists as a result of the past gasoline release at the site. The groundwater impact plume is generally stable and down gradient monitoring

wells are not impacted at concentration greater then NR 140 ESs or PALs. Biodegradation is active and will continue to reduce dissolved impacts remaining on-site. Sigma therefore recommends the Wisconsin Department of Natural Resources require No Further Action and grant Case Closure. Upon approval of Case Closure, the monitoring well network will be abandoned in accordance with NR 141. As groundwater impacts remain at concentrations above the established enforcement standards, it is understood that the WDNR and COMM will require the site and adjacent properties to be listed on the WDNR Geographic Information Systems database.

#### Table 1 (con't)

#### GROUNDWATER QUALITY RESULTS

#### CLARK STATION #0562

SUMPS

							S	ample Loca	tion and Da	te								
COMPOUND		200				100	S-1		T. CAN	ded bert		and and	1	سلطانية	S-2			
	02/18/1998	05/19/1998	07/23/1998	11/24/1996	03/24/1999	07/20/1999	10/11/1999	02/28/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/30/2001	10/05/2000	04/02/2001	07/23/2001	ES	PAL
Senzone	120	36	64	1,8	32	14	9	<0.27	42	105	38	100	48	280	460	650	5	0.5
Ethythenzene	160	30	95	5	160	35	23	0.38	2.2	5.5	36	37	35	35	100	1900	700	140
Toluene	57	17	27	1:6	15	2.2	7.6	0.53	8.4	1.5	15	250	210	250	450	8500	1000	200
Total Xylenes	1,200	380	880	40	550	134	20	3	39	- 3	144	270	221	370	1,030	9,600	10000	1000
3,5-Trimethylbanzene	290	27	96	12	110	13	5	<0.27	8	1	30	15	100	25	63	760	480	96
2,4-Trmelhylbenzene	1,300	200	880	57	790	280	240	5	8	44	330	200	61	120	580	3,200	480	96
telhyl Tert Butyl Ether	<50	<10	<50	8.2	3.3	<0.44	<0.64	<0.32	30	1.5	8.6	130	55	42.0	25	300	60	12

Key

All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

Shaded = Exceeds WDNR Enforcement Standard

ES "Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

S-1 - Sumps located within the tank basin. Installed with tank installation

Q-1 = Groundwater extraction wells

NT = Not Tested

= No Establish Standard

FP = Free Product in well

						The same of the same of		***	-	market and an	THE PARTY OF	-			No. of Concession, Name of Street, or other Designation, or other	-	******	Arrange and a second	-
	-								iampting Da	te .				-		_			
COMPOUND	10/11/1995	02/21/1997	05/21/1997	08/28/1997	02/18/1998	05/19/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	02/26/2000	05/24/2000	10/05/2001	04/02/2001	07/23/2001	10/22/2001	ES	PAI
Benzene	<1,0	<1.0	<1.0	<1.0	Not	<1.0	NT	NT	<0.26	NT	<0.27	NT	NT	NT	<0.29	<0.45	<0.45	5	0.5
Ethylberizene	<1.0	<1.0	<1.0	<1.0	Sampled	<1.0	NT	NT	<0.24	NT	<0.32	NT	NT	NT	<0.57	<0.82	<0.82	700	140
Toluene	<1.0	<1,0	<1.0	<1.0		<1.0	NT	NT	<0.21	NT	<0.27	NT	NT	NT	<0.13	<0.68	<0.68	1000	200
Total Xylenes	<1.0	<1.0	<1.0	<1.0		<3.0	NT	NT	<0.97	NT	<0.43	NT	NT	NT	<0.63	42.47	<2.47	10000	100
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0		<1.0	NT	NT	<0.54	NT	<0.27	NT	NT	NT	<0.29	<0.94	<0.94	-	-
1,2,4-Trimethylbenzene	<1,0	<1.0	<t.0< td=""><td>&lt;1.0</td><td></td><td>&lt;1.0</td><td>NT</td><td>NT</td><td>&lt;0.88</td><td>NT</td><td>&lt;0.27</td><td>NT</td><td>NT</td><td>NT</td><td>&lt;0.34</td><td>&lt;0.92</td><td>&lt;0.92</td><td>-</td><td>-</td></t.0<>	<1.0		<1.0	NT	NT	<0.88	NT	<0.27	NT	NT	NT	<0.34	<0.92	<0.92	-	-
Total Trimethylbenzene	<2.0	<2.0	<2.0	<2.0		<2.0	NT	NT	<1.40	NT	<0.54	NT	NT	NT	<0.63	<1.86	<1.86	480	96
Methyl Tart Butyl Ether	<10.0	<10.0	<10.0	<10.0		<10	NT	NT	<0.22	NT	<0.32	NT	NT	NT	<0.20	<0.43	<0.43	60	12
Gasoline Range Organics	<0.1	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NY	NT	NT	NT	-	-
Lead - Soluble	<1.5	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	1.5
1200	Groundwals Remediation Shaded ES PAL NT	r recovery sy n system shu = Exceeds = Wisconsin	ystem startsc ktiown Spring WDNR Enfo Administrati Administrati Mish Standard	I on October g of 2000 (be reement Sta we Code, Ch we Code, Ch	21, 1996 fore 5/24/20 ndard apter NR 14/	00 sampling 0 Enforceme	er liter (mg/l) ) ent Standard Action Limit												

PROFILE OF						P					3		
		PAL	0.5	140	200	1,000	1	1	96	12	4	1.5	1.7
	4	629 113	40	700	1,000	10,000	1	1	480	98	1	15	
		10/22/2001	112	1,750	110	7,500	350	2,000	2,350	411	N.	NT	
			423	2,500	270	11,600	960	4,000	4,890	425	MT	IN	11 11 11
		10/05/2000 04/02/2001 07/23/2001	42	1,500	40	9.200	790	3,300	4.050	-5.0	NT	N.	
		75000 000	48.8	1,900	750	10,200	450	2,000	2,450	0.6>	NT	TN	
		08/24/2006 10/0	-		11		-	-	-	-		-	
		500 0524	7 413	470		2,260	110	380	900	2 411	NT	NT NT	19 2 4 7 7
		09 02282000	40.27	99	PK.	157	10	202	76	46.32	NIT	TN	
		07/201989 10:11/1989	45.8	2,100	470	0.500	3350	1,900	2,230	48.0	INT	- NT	
			(13	1,500	480	8.700	930	2/100	2,620	413	TN.	NT	
AESULTS 862 Mr48		03/24/1990	689	1,400	008	6,800	560	1,200	1,460	4.5	MT	INT	
TABLE I (CONT) HOWATER CLARK WEST CLARK STATION WEST WORTDRING WELL MIN'S	Sampling Date	11/24/1998	16	1,700	280	5,000	270	1,200	1,470	445	IN	TN	
8	si.	366175240	450	2,000	1,200	11,006	460	1,600	2,040	-500	IN	IN	
		06/15/1998 07/23/1998 11/24/1998 03/24/1999	4	2,100	280	8,700	330	086	1,310	6250	TM	PN.	
			12	200	79	4,800	420	1,500	1,926	99	TN	TN	
		06/28/1997 02/18/1998	127	2,380	970	5,480	203	2,550	3,182	ध्य	MT	NT	introgramm por later (Legit), percept GRO. Into it in miligrams (per flare (engli)) recovery system examble on October 21, 1993.  **Excepts WORN Enforcement Standard  **Excepts WORN Enforcement Standard  **Wiscoursen Administration Code. Chapter NR: 146 Preventive Action Line  **Wiscoursen Administration Code. Chapter NR: 146 Preventive Action Line  **Ne Excepts Administration  **Ne Exception Standard
		-	121	2,150	1,610	6,200	583	1,500	2,583	22	MT	NT	tr miligrams 2000 sample 140 Enfosce 140 Prevent
		78871	444	1,660 2	1,710	8,110 8	112	916	1,527 2	<10	NCT	NT	introgramm por their (kg/lt), except GRO that is in mility recovery system stands on October 21, 1996 system shadown Sping of 2000 (before \$20,000 to system shadown Sping of 2000 (before \$20,000 to system shadown Sping of 2000 (before \$20,000 to system) a Wescoman Administrative Code. Chapter NR 14d E is Wescoman Administrative Code. Chapter NR 14d E is NR feeted.  * No Establish Standard  * The Project In wet
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		11/01 086	0 2,100	9,280	16,790	17,500	199	2,470	3,151	015	MT	c1.5	intengranus por alen (1491), eccept GRO, intengranus por alen grando en Cocketa 21, 15 aprilem orazionen Spaing of 2000 (betroit 55; a Eccept WDRN Enforcement Standard en Weizonnein Administrativa Cocke, Chapter a Wasconson Administrativa Cocke, Chapter a Macconson Administrativa C
		79111020 G82011900 001111900 G80119170	1,190	1,356	3,720	6,760	199	840	1,039	450	IN	TN	15 2 6
		97/18/19	2,260	2,130	3,340	10,340	349	1,650	1,989	<250	43,600	,	All results in Groundwall Remediate Shaded ES PAL NT
		COMPOUND	Bonguise	Ethyltonzona	Toluna	Total Xyenes	13.5-Trimethyfbertzene	1.2.4-Trimothylbergrene	Total Trimethylbergane	Methyl Text Bulyl Ether	Gasolne Range Organics	Lead - Soluble	Kar

SECTION AND SECTION			1000円の日本				2007	1000	min y had		18	9 2 5 5 5	100		STORY	WANTE BY	ALCOHOL: N		C. T. V.		Marie Control	MOTES.
								_	_	Sampli	ng Date											
COMPOUND	04/28/1993	06/29/1994	10/31/1994	10/11/1996	02/21/1997	05/21/1997	08/28/1997	02/16/1998	05/19/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	02/28/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/22/2001	E\$	PAI
Benzene	ND	16	<0.6	5.6	10.5	2.8	2.7	<1.0	3.1	<1.0	<0.26	<0.26	<0.26	<0.27	<0.27	<0.28	<0.35	<0.29	<0.45	<0.45	5	0.5
Ethylbenzene	ND	<1.0	<1,0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24	<0.32	< 0.32	< 0.24	<0.37	<0,57	<0.62	<0.82	700	140
Toluene	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1,0	<1.0	<0.21	0.2	<q.21< td=""><td>&lt;0.27</td><td>&lt;0.27</td><td>0.2</td><td>&lt;0.38</td><td>&lt;0.13</td><td>&lt;0.68</td><td>&lt;0.68</td><td>1,000</td><td>200</td></q.21<>	<0.27	<0.27	0.2	<0.38	<0.13	<0.68	<0.68	1,000	200
Total Xylenes	ND	<3.0	<1.0	<3.0	<3.0	<3.0	<3.0	<3.0	<2.0	<3.0	<0.97	<0.97	<0.97	<0.43	<0.43	<0.97	<0.76	<0.63	<2.47	2.47	10,000	1.000
1,3,5-Trimethylberizene	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.54	<0.54	<0.54	<0.27	<0.27	<0.54	<0.37	<0.29	<0.94	<0.94	-	-
1,2,4-Trimethylbenzene	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.86	<0.88	<0.86	<0.22	<0.22	<0.88	<0.37	<0.34	<0.92	< 0.92	480	95
Total Trimethylberzene	ND	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.40	<1.40	<1,40	<0.49	<0.49	<1.40	<0.74	<0.63	<1.86	<1.85	480	96
Methyl Tert Butyl Ether	ND	250	130	50.5	11.4	11.2	29.5	<50	<10	15.0	11.0	14.0	4.7	5.4	3.8	4.4	4.1	1.2	2.7	1.3	60	12
Gasoline Range Organics	<0.1	0.16	0.07	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	
Lead - Soluble	<5.0	<3.0	<2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	1,5
	Groundwate Remediation Shaded ES PAL NT	micrograms r recovery sy n system shuf = Exceeds \ = Wisconsin = Wisconsin = Not Teste = No Establ = Free Prod	stem started down Spring NDNR Enfor Administration Administration dish Standard	on October of 2000 (be roement Sta- se Code, Ch se Code, Ch	21, 1996 sfore 5/24/20 ndard apter NR 14/	00 sampling) Enforcemen	nt Standard															

						PULL OF LANDING				TAB CLARK BEONITO	TABLE 1 (Cont) GROSEMMTH QUALITY RESULTS GLASH STATION FORZ BROMTOWNS WELL MINE	PRESULTS Sea MV-6											
											Sampling Date												
COMPOUND	07716/1992	04/25/1993	M0118280	10/31/1994	10/11/198	GPHISTOR DAZENISBS DOIZBHIGH TOTSTIFFEM TOTTIFFEM TOTTIFFEM	05/21/1997	08/28/1987		95019150	8218760 8691978 89878750	11/24/1988 03/24/1969		67/20/1993	10/11/1990	02/28/2000	05/4/2900 10/05/2000	002/500	1002/20140	07/23/2001	1002/2001	2	PAL
Bentone	10,000	9,800	16,000	12,000	12,000	7,890	2,480	929	1,100	380	430	2,300	3,800	630	3,606	1,300	4,700	110	130	80	296	143	0.5
Ethyslenzens	300	80	930	1,200	2,340	424	140	398	25	23	16	99	23	130	190	140	110	69	69	240	180	200	140
Tolumo	250	160	310	320	111	808	121	62.9	03'>	13	<10	452	22	9	13	10	11	22	38	4.6	11	1,000	200
Total Xybres	1383	376	4,400	4,615	97500	1,320	101	240	900	1100	Ø	11	故	141	3	5.4	<48	16.6	572	281	393	10,000	1,000
1,3,5-Trimethybeczene	<250	ON	300	380	1,000	265	141	3	24	210	3	4134	414	80	×6.4	427	427	0.4	2.1	41.9	417	1	1
1,2,4-Trimethybettsere	4250	QN	1,200	1,400	3,410	622	365	1,140	23	490	280	2.0	422	36	38	16	cho.	19.	H	909	130	1	1
Total Trimetty Sercone	<500	QN	1,500	1,786	4,410	1,087	905	1,203	17	700	346	28	85	138	38	19	470	19	11	907	130	480	98
Methyl Test Buryl Ether	Q\$0	MT	340	160	cto	27.1	25	<125	99	950	<100	90	93	2.1	5.0	25.05	115	6870	<0.20	-0.86	421	99	12
Gassine Rarge Organica	19	18	52	31	INT	- NT		111	NT	IN	NT.	NT	14	NT	NT	NT	NT	NT	NT	MT	NT	1	1
Lend - Soluble	0.50	0.5>	43.0	420	M	14	NT	NT	T/A	TM	NT	INT	TN	NT	INT	MT	NT.	TN	NT	NT	NT	12	1.5
Key	All cosults in	meroporams p	ac Mer (up/U. e	SKORPI GRO 1	that is in milig	Alt results in monograms per film (up/L, except GRO, that 4, in miligrams per ten (mg/B)	(mg/8)									1							
	Groundwater	Gribundwater resovery system started on October 21, 1996	tem started on	1 Despter 25.	1000													60					
	Remediation	Remediation syntem shutdown Spring of 2000 (before \$724/2000 sampling)	own Spring of	2000 (before	S G002/12/5	10xijdat																	
	Shaded	* Exceeds *	* Exceeds WDKR Enforcement Standard	Smith Stands	pag																		
	ES	m.Wisconsin	Administrative	Code, Chapt	BEN NR 140 E	a Wisconsin Administrative Code, Chapter NR 149 Enforcement Standard	undard																
	PA	» Wisconsin.	Administrative	Code, Chap	Ner NR 140 P	<ul> <li>Wiccord Administrative Code, Chapter NR 140 Preventive Action Limit</li> </ul>	on Limit				,												
	PA.	* Not Tested	1.00																				
	1	* No Establish Standard	Diebries 45																				
	d.	* Free Product at well	act at well																				
	BOLD	BOLD - Concertisations exceed NR 140	One extend N	IR 145																			

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										TAB OFCUNDING CLARK MEMICS	TABLE ( (Com.)  OPCINGWATTS QUALITY RESULTS  CLAR STATION RISE  MONTORIO WELL MINES	ESTA. 73 13 4-3									199	_	
						100					Sampling Date										2		
CONSIDERATION	Q775/1902	2 04/28/1953	3 0625/1994	10/25/1994	NOT VISSE	622V 1997	98/21/2897	2628/1097	S21/8/1958	05/18/19/8	012371950	11/24/1956	63/24/1996	97/20/1989	10/1/1986	000000000	05/04/2000	1045/2000	04022001	07/25/300 K	V decan:	5	쳁
Berzens	6,300	2,600	3,600	5,400	4,400	4.300	180	3,340	7880	1,500	750	1,000	1,800	1,200	1,000	1,800	650	1,186	610	600	878	\$	6.0
Eltr/banzere	3,200	005	1,300	1,800	2,060	1,850	1,666	1,620	2,150	1,900	430	1,000	1,500	1,600	1,400	1,400	680	1,300	1, 350	1,400	1,500	200	Des
Tulueru	1,500	5,700	3,200	3,409	1,110	914	465	600	906	1,000	99	210	430	210	418	300	130	091	120	140	300	1,900	900
Talaf Aylones	12.700	3,700	6,800	8,100	8,040	6,230	6,700	6,530	7,600	7,100	920	2,870	5,649	3.530	4,560	4.700	2,600	55	4.050	4,100	6,200	10,000	1,000
13.5 Tembergianuse	1,300	340	202	300	386	286	225	107	935	800	18	280	310	210	340	982	380	見	902	210	370	-	±
12.2.Tenuthfrances	2,100	619	720	1,000	1339	364	1,160	1,000	1,700	1,300	200	2000	1,100	700	980	088	280	980	260	1,000	1.500	**	(F)
Total Transitty Bendatia	3,400	150	930	1,390	1,686	1,232	1,465	2,013	2,250	1,790	321	1,040	1,413	910	1,250	1,140	240	1,170	1,110	1,310	1,679	480	Ħ
Methyl Ter Botyl Ethan	00031×	JH.	<100	120	416	<10	202	050	<500	005>	4100	50	22	*6.5	0.85	181	422	71	4.2	22	48.5	90	12
Скоста Яхеря Опратер	25	16	52	28	ME	M	NT	114	111	NT	NT	NT	279	N.	MT	Mt	NT	NT	NT	111	IN	t	1
Laxi-Subble		46	2.4	4.2	100	NT	101	111	382	100	M	JJ.	M	111	NT	141	M	NT	NI	352	NT	115	15
5	All results in	maznązama p	All results in micrograms per star (ugif), except GRO. That is in militarms per than (mg/l)	Not GRO mail	a in militaria	industry (molt)																	
	Groundware	sts Asertoni L	Groundware recovery system started on October 21, 1896	Ostoor 21, 1994																			
	Remediation.	System Shall	Remediation system shadows Spring of 2000 (before 5.24/2000 sampling)	100 (batters 5.24	Supplied sampling																		
	Studed		* Extremis PrDNM Entonsorant Bransland	next Bundled																			
	83	* Wisconsi	a Wiscocah Administrativa Code, Chapter NR 140 Enfocement Strettural	Code Chapter	140 Extores	ment Statism	ı																
	PAR	= Water	= Wassers Admentisha Coda, Oughe NR 140 Preventive Apten Limit	Code, Chapter	NOT 140 Prevent	the Appendies																	
	H	* Aze Tested	¥																				
	-14	# No Estab	in No Essablish Standard																				
	£	* Free Podoct in well	Section and																				
			- Concentrations recess NR 140 ES	\$3.0%														Walter County					

#### TABLE ! (Cont.) GROUNDWATER QUALITY RESULTS CLARK STATICM #0362 MONITORING WELL MW-2 Sampling Date COMPOUND 07191992 04281993 062817994 10311994 10311996 02211997 05211997 05211997 05211997 05211997 05211997 05211997 05211997 05211997 05211998 077242001 10/22/200 Benzene 29,000 15,000 FP. FP 892 Not 190 69 1,400 120 150 325 1,500 1,000 340 27 21 290 0.5 140 Ethylbenzene 1,500 1,200 (0.04) 808 Sampled 170 480 120 360 210 120 110 160 200 Toluene 35,000 34,000 28,000 83 1,000 200 7,400 Cauld not 2,500 740 1,400 520 840 660 346 160 120 23,000 2,800 10.000 1.000 14,000 10,000 6,900 4.200 4,400 Total Xylones 8,000 22,100 locate 5,700 1,500 9,100 6,600 12,000 12,100 7,000 1,3,5-Trimethylbenzene <1.0 1,300 800 1,820 1,500 360 850 1,200 1,200 1,200 1,100 1,000 1,200 1,300 1,300 1,800 due to 1,2,4-Trimethylbonzene 1,500 3,500 5,780 3,500 650 2,400 2,900 3,700 4,100 3,100 2,500 3,000 3,100 2,500 3,400 andw. 96 Total Trimetry/bergene 2,800 4,300 8,600 5,000 1,010 3,250 4,100 4,900 5,200 4,200 3,500 4,200 4,400 3,800 5,000 480 60 12 +200 <500 16.0 Methyl Tert Butyl Ether 68 ND <250 <100 8.5 <11 45.5 ±16 <0.4 44.4 16.0 -4.D \*11 Gasoline Range Organics 105 NIT NT NT NT NT NE NT NT 86. 81 NT NT NT NT MT 11 NT NE NT NT NT NT NT NT NET NT I NT NT NT 15 1.5 Lead - Soluble 80 <3.0 Key All results in micrograms per liter (ug/l), except GRO, that is in milligrams per liter (mg/l) Groundwater recovery system started on October 21, 1996 Remediation system shutdown Spring of 2000 (before 5/24/2000 earnpling) Shaded \* Exceeds WDNR Enforcement Standard = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard = Wiscorein Administrative Code, Chapter NR 140 Preventive Action Limit = Not Tested = No Establish Standard

FP = Free Product in well

BOLD = Concentrations exceed NR 140 ES

									_	-	Sampling Dat		-			-			-	-			
COMPOUND	07/16/1992	04/26/1993	06/29/1994	10/31/1994	10/11/1996	02/21/1997	05/21/1997	08/28/1997	02/18/1998	05/19/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	02/28/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/22/2001	ES	PAL
Benzene	900	ND	350	210	2.9	1.0	<1.0	<1.0	Not	<1.0	MT	NT	1,4	NT	<0.27	NT	NT	NT	<0.29	<0.45	NT	5	0.5
Ethylbergene	750	ND	510	170	<1.0	<1.0	<1.0	<1.0	Sampled	3.3	NT	NT	<0.24	NT	<0.32	NT	NT	NT	<0.57	<0.82	NT	700	140
Toluena	<5.0	ND	34	13	<1.0	≪1.0	<1.0	<1.0		<1.0	NT	NT	<0.21	NT	<0.27	NT	NT	NT	<0.13	<0.68	NT	1,000	200
Total Xylenes	3,200	7	1,100	245,4	<1.0	<3.0	<3.0	<3.0		<3.0	NT	NT	<0.97	NT	<0.43	NT	NT	NT	<0.63	<2.47	NT	10,000	1,000
1,3,5-Trimethylbenzene	<50	NO .	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	NT	NT	<0.54	NT	<0.27	NT	NT	NT	<0.29	<0.94	NT	-	_
1,2,4-Trimethylbenzene	<50	ND	8	2.5	<1.0	<1.0	<1.0	<1.0		4.3	NT	NT	<0.86	NT	<0.27	NT	NT	NT	<0.34	<0.92	NT	-	-
Total Trimethybenzeres	<100	ND	8	2.5	<2.0	<2.0	<2.0	<2.0		4.3	NT	NT	<1.40	NT	<0.54	NT	NT	NT	<0.63	<1.86	NT	480	96
Methyl Tert Butyl Ether	<50	ND	<5.0	8.8	<10	<10	<10	<10		<10	NT	NT	1.6	NT	<0.32	NT	NT	NT	0.64	<0.43	NT	80	12
Gasoline Range Organics	7	<0.1	3.5	1,1	ND	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		-
Lead - Soluble	<4.0	<5.0	<3.0	<2.0	ND	NT	NT.	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	1.5

9/12/2002

TABLE 1 (Cont.)

GROUNDWATER QUALITY RESULTS

CLARK STATION 80562

Key:

HclarkIcI05621Gwdata.xis

All results in micrograms per liter (ug/l), except GRO that is in miligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

Remediation system shutdown Spring of 2000 (before 5/24/2000 sampling)

Shaded = Exceeds WDNR Enforcement Standard

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

NT = Not Tested

- = No Establish Standard

FP = Free Product in well

BOLD = Concentrations exceed NR 140 ES

	_										ampling Dat												
COMPOUND	07/16/1992	04/26/1993	06/29/1994	10/31/1994	10/11/1996	02/21/1967	05/21/1997	08/28/1997	02/18/1998	05/19/1998	07/23/1996	11/24/1998	03/24/1999	07/20/1999	10/11/1999	02/28/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/22/2001	ES	PAL
Berzene	<1.0	ND	1	<0.6	<1.0	<1.0	<1.0	<1.0	Not	<1.0	NT	NT	<0.26	NT.	<0.27	NT	NT	NT	<0.29	<0.45	<0.45	5	0.5
Ethylbenzene	<1.0	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	Sampled	<1.0	NT	NT	<0.24	NT	<0.32	NT	NT	NT	<0.57	<0.82	<0.82	700	140
Toluene	<1.0	ND	11	<1.0	2.2	<1.0	<1.0	<1.0		<1.0	NT	NT	<0.21	NT	<0.27	NT	NT	NT	<0.13	<0.68	<0.68	1000	200
Total Xylenes	<1.0	ND	28	<1.0	7.3	<3.0	<3.0	<3.0		<3.0	NT	NT	<0.97	NT	<0.43	NT	NT	NT	<0.63	<2.47	<2.47	10000	1000
1,3,5-Trimethylberizene	<1.0	NO	2.8	<1.0	1.5	<1.0	<1.0	<1.0		<1.0	NT	NT	<0.54	NT	<0.27	NT	NT	NT	<0.29	<0.94	<0.94	-	100
1,2,4-Trimethylbergene	<1.0	ND	10	<1.0	4.3	<1.0	<1.0	<1.0		<1.0	NT	NT	<0.86	NT	<0.27	NT	NT	NT	<0.34	<0.92	<0.92	-	-
Total Trimethylbenzene	<2.0	ND	13	<2.0	5.8	<2.0	<2.0	<2.0		<2.0	NT	NT	<1.4	NT	<0.54	NT	NT	NT	<0.63	<1.86	<1.86	480	96
Methyl Tert Bulyl Elher	3	ND	<1.0	<1,0	<10	<10	<10	<10		<10	NT	NT	<0.22	NT	<0.32	NT	NT	NT	<0.20	<0.43	<0.43	60	12
asoline Range Organics	0	<0.1	0.11	<50	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NY	NT	NT	NT	-	-
Lead - Soluble	<4.0	<5.0	<3.0	<2.0	NT	NT	NT	NT		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	1.5

The Control of the Co

NT = Not Teated

= No Establish Standard

FP = Free Product in well

BOLD = Concentrations exceed NR 140 ES

# TABLE 1 GROUNOWATER QUALITY RESULTS CLARK STATION 40562 MONITORRIG WELL MW-1

			157		OTA S	U. Barrier				And Driver			5.							10.	SOLD MILE		
									1000		Sampling Da	tie				37				NI			
COMPOUND	07/16/199)	04/26/1990	06/29/1994	10/31/1994	10/11/1996	02/21/1997	05/21/1993	7 G8/28/1997	02/18/1996	05/19/1006	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1990	02/20/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/22/2001	ES	PAL
Benzers	8,100	2,800	hb	FP	FP	FP .	pp.	417	240	<500	<250	71	170	64	3.8	62	49	27	78	<56	422	5.0	0.5
Ethythetizene	3,100	1,160		-	(0.25)	(0.59)		2,000	2,100	1,400	1,100	390	520	450	790	140	230	540	420	1,000	740	700	140
Toluene	10,000	29,000						13,100	4,500	21,000	14,000	6,900	4,000	8,700	11,000	990	5,200	3,500	1,260	9,500	6,000	1.000	200
Total xylenes	16,900	9,000						17,800	24.000	24,000	22,000	12.100	11,800	13,500	15,500	4,600	8,900	10,900	9,500	14,400	12,600	10:000	1.000
1.3,5-Trimethylbenzene	<100	1,000						1,370	1,700	1,500	1,800	1,100	1.500	1,500	1,300	1.800	1,300	1.600	1,800	1,900	1,800	-	-
1.2,4-Trimethy/benzere	1,500	1,000						5,450	5,300	5,000	4,900	2,700	3,700	3,700	3,700	2,800	1,700	2,500	2.600	3,400	2,900	- 8	0
Total Trimethylbenzenes	1,300	2,000			17 - 1			6,826	7,000	6,500	6,700	3,800	5,200	5,200	5,000	4,600	3,000	4,100	4,200	5,300	4,500	480	96
Methyl Tert Sutyl Ether	1,500	NT						<500	<250	<2000	<100	<11	18	c22	<32	<8.0	<4.4	10	×5.0	454	<22	60	12
Gasoline Range Organics	40	54						NT	MT	NT	NT	NT	NT	NT	MT	NT	NT	NT	NT	NT	NT		
Lead - Soluble	69	70 4	1		100			NT.	NT	NT	NT	NT	NT	NT	NT	NT.	NT	NT	NT	- NT	NT	15	1.5

Kir

All results in micrograms per liter (ug/l), except GRO that is in milligrams per iter (mg/l)

Groundwater recovery system started on October 21, 1996

Remediation system shedown Spring of 2000 (before 5/24/2000 sampling)

Shaded = Exceeds WONR Enforcement Standard

ES Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL # Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

NT = Not Tested

- No Establish Standard

FP # Free Product in well

BOLD = Concentrations above NR 148 ES

The state of	abla 1 (con	U ME	-
GROUNDWA	TER QUAL	TY RESU	LTS 1
CEAR	K-STATION	#0562	
	SUMPS		6

		S-3							Sample	Location a	nd Date							
COMPOUND	10/05/2000	04/02/2001	07/23/2001	02/18/1998	05/19/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	02/28/2000	05/24/2000	10/05/2000	04/02/2001	07/23/2001	10/30/2001	ES	PAL
Benzene	46	220	1100	67	55	30	1.2	21	2.8	1.5	1.1	2	0.91	5.5	140	30	5	0.5
Ethylbenzene	2.7	53	4400	18	1.6	4.2	0.46	37	<0.24	<0.24	0.63	0.33	<0.37	1.9	9.2	32	700	140
Toluene	23	220	18000	1,3	31	9.1	<0.21	0.83	0.29	<0.21	<0.27	0.35	<0.38	0.23	440	200	1000	200
Total Xylenes	35	500	21200	5.3	<3.0	8.3	<0.97	11	<0.97	<0.97	<0.43	0.37	<0.76	<1.20	113	240	10000	1000
,3,5-Trimethylbenzene	5.2	14	1000	<1.0	<1.0	<1.0	<.054	<0.54	<0.54	<0.54	<0.27	<0.54	<0.37	<0.29	<2.3	7.5	480	96
,2,4-Trimethylbenzene	7.7	99	4100	3.2	2.3	<1.0	<0.86	3	<0.88	<0.86	<0.22	<0.86	<0.37	0.54	<23	30	480	96
Methyl Tert Butyl Ether	13	13	720	<50	<10	<10	<0.22	1.3	<0.22	<0.22	<0.32	<0.22	<0.36	2.7	200	59	60	12

Key:

All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

Shaded = Exceeds WDNR Enforcement Standard

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

S-1 = Sumps located within the tank basin. Installed with tank installation

Q-1 = Groundwater extraction wells

IT = Not Tested

= No Establish Standard

FP = Free Product in well

## GROUNDWATER QUALITY RESULTS

				Q	-1					
COMPOUND	02/18/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	04/02/2001	07/23/2001	ES	PAL
Benzene	<25	35	84	<0.26	110	8	NT	<4.5	5	0.5
Ethylbenzene	32	22	61	<0.24	170	11	NT	100	700	140
Toluene	170	18	7,6	<0.21	120	1.6	NT	15	1000	200
Total Xylenes	5,500	86	181	<0.97	3,100	117	NT	592	10000	1000
1,3,5-Trimethylbenzene	1,200	17	20	<0.54	600	23	NT	72	480	96
1,2,4-Trimethylbenzene	1,800	27	30	<0.86	1,600	88	NT	1,000	480	96
Methyl Terl Bulyl Ether	<130	78	57	<0.22	8	100	NT	<4.3	60	12

Var.

All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

Shaded = Exceeds WDNR Enforcement Standard

S = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

S-1 = Sumps located within the tank basin. Installed with tank installation

Q-1 = Groundwater extraction wells

NT = Not Tested

= No Establish Standard

P = Free Product in well

## GROUNDWATER QUALITY RESULTS CLARK STATION #0362

					le Location	and Date							
	Q-2 Q-3												
COMPOUND	02/18/1998	05/19/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	04/02/2001	07/23/2001	04/02/2001	07/23/2001	ES	PAL
Benzene	700	400	7,500	5,100	4,800	1,200	4,100	1,200	590	230	20	5	0.5
Ethylbenzene	13	41	640	490	350	260	720	220	140	42	16	700	140
Toluene	54	270	<100	69	38	54	150	8	6.9	45	14	1000	200
Total Xylanes	360	3,500	1,300	921	537	376	1,491	12	<12.4	395	243	10000	1000
1,3,5-Trimelhylbenzene	11	530	<100	<14	<27	<5.4	9.4	<2.9	c4.7	6,1	16	480	96
1,2,4-Trimethylbenzene	140	1,100	440	85	73	87	72	13	9	180	140	480	98
Methyl Tert Butyl Ether	91	<100	<1000	34	16	22	87	<20	<2.1	5.3	<0.43	60	12

Key:

All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

Shaded = Exceeds WDNR Enforcement Standard

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

S-1 = Sumps located within the tank basin. Installed with tank installation

Q-1 = Groundwater extraction wells

VT = Not Tested

= No Establish Standard

FP = Free Product in well

# CLARK STATION #0552 RECOVERY WELLS

			S	ample Loca						
Comment	02/18/1998	07/23/2001	ES	PAL						
Compound		07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1999	04/02/2001			
Benzene	3.9	1,500	890	360	290	740	180	120	5	0.5
Ethylbenzene	2	270	530	320	670	300	210	340	700	140
Toluena	1	420	720	520	8,000	260	1,800	790	1000	200
Total Xylenes	22	2,000	3,510	2,420	8,400	1,190	3,200	3,020	10000	1000
1,3,5-Trimethylbenzene	5.4	230	100	74	430	35	170	150	480	96
1,2,4-Trimethylbenzene	8.3	<25	390	250	1,400	190	720	940	480	96
Methyl Tert Butyl Ether	67	<250	3	14	<22	10	<4.0	<4.3	60	12

Key:

All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)

Groundwater recovery system started on October 21, 1996

bold = Exceeds WDNR Enforcement Standard

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

S-1 = Sumps located within the tank basin. Installed with tank installation

Q-1 = Groundwater extraction wells

VT = Not Tested

= No Establish Standard

FP = Free Product in well

#### ELEVATION SURVEY DATA CLARK STATION #1562 4751 NORTH SANTA MONICA BOULEVARD MEWAUKEE WI Well Date TOC Static water Level Water Table Number (From TOC) Elevation Elevation (ft) 632.89 10/22/2001 643.13 10.24 07/23/2001 643.13 9.41 633.72 04/02/2001 643.13 9.2 633.93 10/05/2000 643.13 9.1 634.03 05/24/2000 643.13 9.13 634,00 02/28/2000 643.13 11.37 631.76 10/11/1999 643.13 10.22 632.91 07/20/1999 643,13 8.71 634.42 MW-1 03/24/1999 643.13 10 633.13 11/24/1998 643.13 10.57 632.56 07/23/1998 643.13 9.86 633.27 05/19/1998 643.13 9.12 634.01 643.13 02/18/1998 10.56 632.57 08/28/1997 643.13 9.55 633.58 07/01/1997 643.13 8.38 634.75 05/21/1997 643 13 02/21/1997 11.53 643.13 631,60 10/11/1996 643.13 10.85 632 28 10/31/1994 100 45 10.00 90.45 06/29/1994 100.45 10.05 90.40 04/02/1993 100.45 7.58 92.87 02/05/1993 10.31 100.45 90.14 10/12/1992 100.45 10.78 89.67 07/16/1992 100.45 9.96 90.49 10/22/2001 643.65 10.93 632.72 07/23/2001 643.65 9.88 633.77 04/02/2001 643.65 8.82 634.83 10/05/2000 643.65 9.51 634 14 05/24/2000 643.66 634.65 9.01 02/28/2000 643.65 11.86 631.79 10/11/1999 643.65 10.96 632.69 07/20/1999 643.65 9.30 634.35 MW-2 03/24/1999 643.65 9.55 634.10 11/24/1998 643.65 11.07 632.58 07/23/1998 643.65 10.45 633.20 05/19/1998 643.65 8.45 635.20 02/18/1998 NT NT NT 08/28/1997 633.56 643.65 10.09 07/01/1997 643.65 7.81 635.84 05/21/1997 643.65 02/21/1997 643.65 10/11/1996 643.65 11.33 632,32 10/31/1994 100.96 12.08 88.88 06/29/1994 100.96 10,57 90.39 04/02/1993 100.96 6.98 93.98 02/05/1993 100.96 10.48 90.48 10/12/1992 100.96 11.39 89.57 07/16/1992 100.96 10.44 90.52 10/22/2001 642.61 9.56 633,05 07/23/2001 642.61 8,68 633.93 04/02/2001 642.61 8.48 634.13 10/05/2000 642.61 8.52 634 09 05/24/2000 642.61 8.47 634.14 02/28/2000 642.61 10/11/1999 642 61 9.58 633 03 07/20/1999 642.61 8.04 634.57 MW-3 03/24/1999 642.61 9.30 633.31 11/24/1998 642.61 10.06 632.55 07/23/1998 642.61 10.21 632.40 05/19/1998 642.61 8.21 634.40 02/18/1998 642.61 9.52 633.09 08/28/1997 642.61 9.01 633.60 07/01/1997 642.61 7.74 634.87 05/21/1997 642.61 9.17 633.44 02/21/1997 642.61 10.28 632 33 10/11/1996 642 61 9.83 632 78 10/31/1994 99.93 10.68 89.25 06/29/1994 99 93 9.05 90.88 04/02/1993 99 93 6.74 93.19 02/05/1993

KEY TOC

= Top of well casing

= feet below ground surface

Note: Site was surveyed to a USGS benchmark on July 3, 1997

10/12/1992

07/16/1992

9.74

10.11

9.34

90.19

89.82

90.59

99.93

99.93

99.93

# TABLE 2 (CONE) ELEVATION SURVEY DATA CLARK STATION 10062 4751 NORTH SANTA MONICA SOLLEVARO MILWALIKEE INT

		MILWAUKE		
Well	Date	TOC	Static water Level	Water Table
Number		Elevation	(From TOC)	Elevation (ft)
	10/22/2001	643.25	10.57	632.68
	07/23/2001	643.25	9.57	633,68
1	04/02/2001	643.25	8.31	634.94
	10/05/2000	643.25	8.95	634.30
	05/24/2000	643.25	7.99	635.26
1	02/28/2000	643.25		200000000
1	10/11/1999	643.25	10.5	632.75
	07/20/1999	643.25	8.85	634.40
MW-4	03/24/1999	643.25	9.53	633.72
1	11/24/1998	643.25	10.55	632.70
1	07/23/1998	643.25	7.16	636.09
1	05/19/1998	643.25	5.15	638.10
- 1	02/18/1998	643.25	10.43	632.82
- 1	08/28/1997	643.25	9.53	633.72
	07/01/1997	643.25 643.25	7.89	635.36
	05/21/1997 02/21/1997	643.25	10.58	634.88 632.67
- 1	10/11/1996	643.25	10.55	632.58
	10/31/1994	100.53	11.30	89.23
	06/29/1994	100.53	10.04	90,49
1	04/02/1993	100.53	5.79	94.74
	02/05/1993	100.53	9.72	90.81
	10/12/1992	100.53	10.96	89.57
	07/16/1992	100.53	9.98	90.55
	10/22/2001	643.99	10.12	633.87
-	07/23/2001	643.99	9.42	634.57
	04/02/2001	643.99	9.39	634.60
- 1	10/05/2000	643.99	9.40	634,59
	05/24/2000	643.99	9.64	634.35
1	02/28/2000	643.99	11.20	632.79
- 1	10/11/1999	643,99	10.19	633.80
	07/20/1999	643.99	9.07	634.92
MW-5	03/24/1999	643.99	10.11	633.88
- 1	11/24/1998	643.99	10.63	633.36
- 1	07/23/1998	643.99	9.87	634.12
1	05/19/1998	643.09	9,56	633.53
1	02/18/1998	643.09	10.61	632.48
1	08/28/1997	643.09	9.75	633.34
	07/01/1997	643.09	8.98	634.11
	05/21/1997	643.09 643.09	10.53 11.04	632.56 632.05
- 1	02/21/1997 10/11/1996	643.09	10.50	632.59
(1)	10/31/1994	100.46	11.40	89.06
	06/29/1994	100.46	10.19	90.27
	04/02/1993	100.46	8.43	92.03
-	02/05/1993	100.46	10.56	89.90
	10/12/1992	100.46	10.90	89.56
	07/16/1992	100.46	-	-
	10/22/2001	642.36	9,82	632.54
	07/23/2001	642.36	8.99	633.37
1	04/02/2001	642.36	8,25	634.11
	10/05/2000	642.36	8.20	634.16
	05/24/2000	642.36	8.20	634.16
	02/28/2000	642.36	10.56	631.80
	10/11/1999	642.36	9.83	632.53
	07/20/1999	642.36	8.50	633.86
MW-6	03/24/1999	642.36	9.25	633,11
-	11/24/1998	642.36	9.88	632.48
- 1	07/23/1998	642.36	9.32	633.04
1	05/19/1998	642.36	7.82	634.54
1	02/18/1998	642.36	9.43	632.93
	08/28/1997	642.36	9.05	633.31
	07/01/1997	642.36	9.18	633.18
	05/21/1997	642.36	8.63	633.73
	02/21/1997	642.36	10.15	632.21
	10/11/1996	642.36	9.99	632.37
	10/31/1994	99.66	10.64	89.02
	06/29/1994	99.66	5.47	94.19
	04/02/1993	99.66	6.42	93,24
1	02/05/1993	99.66	9.35	90.31
		99.66	10.20	89.46
	10/12/1992 07/16/1992	99.66		-

TOC

TOC = Top of well casing
ft = feet below ground surface
Note: Site was surveyed to a USGS benchmark on July 3, 1997

# Table 2 (Cont.) ELEVATION SURVEY DATA CLARK STATION #0562) 4781 NORTH SANTA MONICA BOULEVARD MILWAUKEE, WIL

STATE OF THE PARTY OF			<b>以此為於於為於於其後的</b>	2.2.2.100 EXAMPLE TO THE PERSON OF THE PERS
Well	Date	TOC	Static water Level	Water Table
Number		Elevation	(From TOC)	Elevation (ft)
	10/22/2001	642.12	9.69	632.43
1	07/23/2001	642.12	8.87	633.25
- 1	04/02/2001	642.12	8.24	633.88
1	10/05/2000	642.12	8.55	633.57
- 1	05/24/2000	642.12	8.1	634.02
- 1	02/28/2000	642.12	10.44	631.68
- 1	10/11/1999	642.12	9.72	632.40
- 1	07/20/1999	642.12	8.46	633.66
MW-7	03/24/1999	642.12	9.17	632.95
2007	11/24/1998	642.12	9.73	632.39
9.1	07/23/1998	642.12	9.16	632.96
- 1	05/19/1998	642.12	7.99	634.13
- 1	02/18/1998	642.12	9.57	632.55
- 1	08/28/1997	642.12	8.95	633.17
- 1	07/01/1997	642.12	7.24	634.88
- 1	05/21/1997	642.12	8.60	633.52
1	02/21/1997	642.12	9.91	632.21
1	10/11/1996	642.12	9.81	632.31
- 1	10/31/1994	99.41	10.44	88.97
1	06/29/1994	99.41	9.35	90.06
- 1	04/02/1993	99.41	6.62	92.79
- 1	02/05/1993	99.41		
1	10/12/1992	99.41	_	
	07/16/1992	99.41	_	_
	10/22/2001	641.68	9.17	632.51
	07/23/2001	641.68	8.27	633.41
	04/02/2001	641.68	7.39	634.29
- 1	10/05/2000	641.68	7.87	633.81
	05/24/2000	641.68	7.22	634.46
- 1	02/28/2000	641.68	9.89	631.79
	10/11/1999	641.68	9.21	632.47
	07/20/1999	641.68	7.81	633.87
MW-8	03/24/1999	641.68	8.45	633.23
	11/24/1998	641.68	9.20	632.48
	07/23/1998	641.68	8.64	633.04
- 1	05/19/1998	641.68	7.21	634.47
- 1	02/18/1998	641.68	9.05	632.63
	08/28/1997	641.68	8.37	633.31
1	07/01/1997	641.68	6.21	635.47
- 1	05/21/1997	641.68	8.15	633.53
- 1	02/21/1997	641.68	9.37	632.31
1	10/11/1996	641.68	9.35	632.33
	08/30/1995	641.68	8.72	632.96
	10/22/2001	641.37	8.94	632.43
	07/23/2001	641.37	7.99	633.38
	04/02/2001	641.37	7.26	634.11
1	10/05/2000	641.37	7.71	633.66
1	05/24/2000	641.37	7.08	634.29
	02/28/2000	641.37	9.65	631.72
1	10/11/1999	641.37	9.00	632.37
	07/20/1999	641.37	7.67	633.70
MW-9	03/24/1999	641.37	8.39	632.98
	11/24/1998	641.37	8.95	632.42
1	07/23/1998	641.37	9.34	632.03
	-05/19/1998	641.37	7.09	634.28
1	02/18/1998	641.37	8.80	632.57
- 1	08/28/1997	641.37	8.15	633.22
	07/04/4007	641.37	6.18	635.19
	07/01/1997			
	05/21/1997	641.37	8.00	633.37
		641.37 641.37	8.00 9.08 9.14	633.37 632.29 632.23

KEY: TOC

TOC = Top of well casing

ft = feet below ground surface

Note: Site was surveyed to a USGS benchmark on July 3, 1997

# Table 2 (cont.) ELEVATION SURVEY DATA CLARK STATION #0562 4781 NORTH SANTA MONICA BOULEVARDS ME.WAUKEE, WI

Well	Date	TOC	Static water Level	Water Table
Number		Elevation	(From TOC)	Elevation (ft)
Q-1	02/18/1998	642.3	18.21	624.09
	05/19/1998	642.30	NT	NT
	07/23/1998	642.30	17.52	624.78
	11/24/1998	642.30	9.84	632.46
	03/24/1999	642.30	8.31	633.99
- 1	07/20/1999	642.30	8.17	634.13
	10/11/1999	642.30	9.78	632.52
	02/28/2000	642.30	11.81	630.49
1	05/24/2000	642.30	NT I	NT
	10/05/2000	642.30	NT	NT
	04/02/2001	642.30	NT	NT
1	07/23/2001	642.30	7.21	635.09
	10/22/2001	642.30	NT	NT
Q-2	02/18/1998	642.40	10.86	631.54
1000	05/19/1998	642.40	6.73	635.67
1	07/23/1998	642.40	10.91	631.49
1	11/24/1998	642.40	9.95	632.45
1	03/24/1999	642.40	9.28	633.12
1	07/20/1999	642.40	8.53	633.87
	10/11/1999	642.40	9.87	632.53
- 1	02/28/2000	642.40	10.96	631.44
1	05/24/2000	642.40	NT	NT
1	10/05/2000	642.40	NT	NT
1	04/02/2001	642.40	8.33	634.07
1	07/23/2001	642.40	8.99	633.41
	10/22/2001	642.40	9.81	632.59
Q-3	02/18/1998	643.04	NT I	NT NT
40	05/19/1998	643.04	NT	NT
1	07/23/1998	643.04	9.85	633.19
	11/24/1998	643.04	NT NT	NT
- 1	03/24/1999	643.04	NT	NT
1	07/20/1999	643.04	NT	NT
1		643.04	NT	NT
1	02/28/2000	643.04	NT NT	NT
	05/24/2000	643.04	NT NT	NT
- 1	10/05/2000			
1	04/02/2001	643.04	8.92 9.28	634.12 633.76
1	07/23/2001	643.04		
	10/22/2001	643.04	NT 1000	NT OCC 12
Q-4	02/18/1998	642.62	19.20	623.42
1	05/19/1998	642.62	NT	NT
- 1	07/23/1998	642.62	21,35	621.27
	11/24/1998	642.62	10.24	632.38
1	03/24/1999	642.62	9.72	632.90
1	07/20/1999	642.62	8.45	634.17
1	10/11/1999	642.62	9.81	632.81
1	02/28/2000	642.62	11.81	630.81
1	05/24/2000	642.62	NT	NT
1	10/05/2000	642.62	NT	NT
- 1	04/02/2001	642.62	8.87	633.75
- 1	07/23/2001	642.62	8.92	633.70
	10/22/2001	642.62	9.74	632.88

KEY: TOC ft

TOC = Top of well casing
ft = feet below ground surface
Note: Site was surveyed to a USGS benchmark on July 3, 1997

Table 3
Conductivity, Dissolved Oxygen, pH and Redox Potential Readings
Clark Station #9562
4751 North Santa Monica Boulevard, Milwaukee, WI

Well	Depth to	Conductivity	pH	Redox Potential	Dissolved Oxygen	Ferrous	Temp	Date
Number	Water	uS		mV_	mg/l	tron (mg/l)	Deg. C	Measure
MW-1	10.85	NT	NT	NT	NT	NT	NT	10/21/199
	11.53	NT	NT	NT	NT	NT	NT	02/21/199
	NT	NT	NT	NT	NT	NT	NT	05/21/199
	9.55	1941	7.27	NT	0.33	NT	15.1	08/28/199
	10.56	3930	7.1	-7.1	0.22	3	9.0	02/18/199
	9.12	3510	7.2	+45.7	0.42	3	13.1	05/19/199
	9.86	2410	8.9	+35.1	0.31	3.1	14.6	07/23/190
	10.57	3190	NT	-75.4	0.2	2.2	12.6	11/24/19
	10	NT	NT	NT	0.2	NT	NT	03/24/19
	8.71	NT	NT	NT	0.19	NT	NT	07/20/19
	10.22	NT	NT	NT	0.2	NT	NT	10/11/19
	11.37	NT	NT	NT	0.18	NT	NT	02/28/200
	9.13	NT	NT	NT	0.27	NT	NT	05/24/20
	9.1	NT	NT	NT	0.17	NT	NT	10/05/200
	9.2	NT	NT	NT	0.16	NT	NT	04/02/20
	9.41	NT	NT	-79.8	0.24	NT	NT	07/23/20
	10.24	NT	7	-171.6	0.16	2.8	16.2	10/22/20
MW-2	11.33	NT	NT	NT	NT	NT	NT	10/21/19
	NT	NT	NT	NT	NT	NT	NT	02/21/19
	NT	NT	NT	NT	NT	NT	NT	05/21/19
	10.09	2100	7.09	NT	0.47	NT	13.2	08/28/19
				and due to snow cover		NT	NT	02/18/19
	8.45	2310	1 7.1	+47.6	0.61	2	13.6	05/19/19
	10.45	2320	7	+35.4	0.41	2.5	14.6	07/23/19
	11.07	2880	7.1	-62.3	0.18	2.5	12.2	11/24/19
	9.55	NT	NT	NT	0.19	NT	NT	03/24/19
	9.3	NT	NT	NT	0.18	NT	NT	07/20/19
	10.96	NT	NT	NT	0.19	NT	NT	10/11/19
	11.86	NT	NT	NT	0.19	NT	NT	02/28/20
	9.01	NT	NT	NT	0.35	NT	NT	05/24/20
	9.51	NT	NT	NT	0.18	NT	NT	10/05/20
	8.82	NT	NT	NT	0.19	NT	NT	04/02/20
	9.88	NT	NT	-88.6	0.21	NT	NT	07/23/20
	10.93	NT	7	-84.1	0.2	2.6	16.4	10/22/20
MW-3	9.83	NT	7.6	NT	1.2	NT	13.0	10/21/19
mrr-s	10.28	NT	6.9	NT	1.33	NT	NT	02/21/19
	9.17	3160	8	-22.7	3.92	NT	9.3	05/21/19
	9.01	1996	7.27	NT	2.95	NT	13.5	08/28/19
	9.52	NT	NT	NT	NT	NT	NT	02/18/19
	8.21	4310	6.8	+221.8	2.35	0	10.3	05/19/19
	10.21	3990	7.2	+188.4	1.89	0	14.5	07/23/19
	10.06	NT	NT	NT	NT	NT	NT	11/24/19
	9.3	NT	NT	NT	0.5	NT	NT	03/24/19
	8.04	NT	NT	NT	0.88	NT	NT	03/24/19
		12.75	132.00	(5,75)		NT NT	375	
	9.58	NT	NT	NT	0.4	0.0000	NT	10/11/19
	NT	NT	NT	NT	NT	NT	NT	02/28/20
	8.47	NT	NT	NT	3.94	NT	NT	05/24/20
	8.52	NT	NT	NT	0.36	NT	NT	10/05/20
	8.48	NT	NT	NT	0.52	NT	NT	04/02/20
	8.68	NT	NT	21.8	0.43	NT	NT	07/23/20
	9.56	NT	NT	NT	0.29	NT	NT	10/22/20

KEY:

mg/l = milligrams per liter NT = Not Tested

mV = millivolts Deg. C = Degrees Celclus

\* Note - Depth of groundwater measured form the top of the well casing

#### Table 3 (Cont.) Conductivity, Dissolved Oxygen, pH and Redox Potential Readings Clark Station #0562 4751 North Santa Monica Boulevard, Milwaukee, WI

Well	Depth to	Conductivity	pH	Redox Potential	Dissolved Oxygen	Ferrous	Temp	Date
Number	Water	uS		mV	mg/l	Iron (mg/l)	Deg. C	Measur
MW-4	10.67	NT	7.1	NT	4.5	NT	11.5	10/21/19
	10.58	NT	6.7	NT	2.3	NT	8.6	02/21/19
	8.37	3670	7.7	-2.5	5.08	NT	8.3	05/21/19
	9.53	1400	7.1	NT	1.34	NT	12.2	08/28/19
	10.43	NT	NT	NT	NT	NT	NT	02/18/19
1	5.15	3910	7.4	+75.9	1.21	1.5	11.9	05/19/19
/	7.16	2430	6.9	+79.1	0.92	2	14.1	07/23/19
i i	10.55	NT	NT	NT	NT	NT	NT	11/24/19
	9.53	NT	NT	NT	0.22	NT	NT	03/24/19
	8.85	NT	NT	NT	0.65	NT	NT	07/20/19
	10.5	NT	NT	NT	0.64	NT	NT	10/11/19
	NT	NT	NT	NT	NT	NT	NT	02/28/20
	7.99	NT	NT	NT	2.72	NT	NT	05/24/20
	8.95	NT	NT	NT	0.8	NT	NT	10/05/20
	8.31	NT	NT	NT	0.47	NT	NT	04/02/20
	9.57	NT	NT	36.9	0.45	NT	NT	07/23/20
	10.57	NT	7	39.1	0.28	1.6	16.3	10/22/20
MW-5	10.50	NT	7.0	NT	0	NT	13,5	10/21/19
SALVAS GC.	11.04	NT	7.8	NT	0.3	NT	11.2	02/21/19
	10.53	1694	7.8	-24.3	0.58	NT	11.0	05/21/19
	9.75	2490	7	NT	0.35	NT	14.1	08/28/19
	10.61	2400	7.4	-25.7	0.25	3	9.1	02/18/19
- 1	9.56	2900	7	-64.5	0.35	5	12.1	05/19/19
	9.87	3140	6.9	-71.7	0.22	5.3	15.2	07/23/19
	10.63	1838	6.9	-105.5	0.19	1.5	11.7	11/24/19
1	10.11	NT	NT	NT	0.19	NT	NT	03/24/19
	9.07	NT	NT	NT	0.22	NT	NT	07/20/19
- 1	10.19	NT	NT	NT	0.22	NT	NT	10/11/19
	11.2	NT	NT	NT	0.21	NT	NT	02/28/200
- 1	9.64	NT	NT	NT	0.24	NT	NT	05/24/20/
ĺ	9.4	NT	NT	NT	0.17	NT	NT	10/05/20
	9.39	NT	NT	NT	0.26	NT	NT	04/02/200
	9.42	NT	NT	-74.3	0.17	NT	NT	07/23/200
	10.12	NT	7	-126.4	0.22	3.4	16.4	10/22/200
MW-6	9.99	NT	7.2	NT	0	NT	14.2	10/22/200
	10.15	NT	6.7	NT	0.3	NT	9.6	02/21/199
1	8,63	2170	7.3	+43.7	0.26	NT	10.3	05/21/199
- 1	9.05	4450	5.99	NT	0.3	NT NT	13.9	
- 1	9.43	5590	7.3	+19.7	0.43	4	NT NT	08/28/199
	7.82	5320	7.2	-34.1	0.45	2	U.65555	02/18/199
1	9.32	6980	7.4	-29.1	0.26	2	12.4 15.6	05/19/199
1	9.88	4100	7	-100	0.21	2	11.7	11/24/199
	9.25	NT	NT	NT	0.2	NT	NT	03/24/199
	8.5 9.83	NT NT	NT NT	NT NT	0.8 0.78	NT	NT	07/20/199
	10.56	NT	NT	NT	0.9	NT NT	NT NT	10/11/199
	8.2	NT	NT	NT	0.29	NT	NT	05/24/200
	8.63	NT	NT	NT	0.38	NT	NT	10/05/200
	8.25 8.99	NT NT	NT NT	NT	0.34	NT	NT	04/02/200
	9.82	NT	7	-38.9 -175.7	0.76 0.15	NT 2	NT 16.1	10/22/200

KEY:
mg/l = milligrams per liter
NT = Not Tested
mV = millivolts
Deg. C = Degrees Celcius
\* Note - Depth of groundwater measured form the top of the well casing

#### Table 3 (Cont.) Conductivity, Dissolved Oxygen, pH and Redox Potential Readings Clark Station #0582 4751 North Santa Monica Boulevard, Milwaukee, Wi

Welt	Depth to	Conductivity	pH	Redox Potential	Dissolved Oxygen	Ferrous	Temp	Date
Number	Water	uS		mV	mg/l	Iron (mg/l)	Deg. C	Measure
MW-7	9.81	NT	7.2	NT	1.2	NT	14.7	10/21/199
	9.91	NT	6.5	NT	0.7	NT	9.8	02/21/199
	8.6	1870	7.2	+83.6	3.39	NT	10.4	05/21/199
	8.95	4140	6.88	NT	0.32	NT	15.5	08/28/199
	9,57	624	7.3	+29.6	0,86	1	NT	02/18/190
	7.99	6990	6.8	+46.1	0.42	1	11.9	05/19/19/
	9.16	5420	7.6	+30.1	0.16	1.5	15.6	07/23/19
	9.73	1210	7	+47.6	1.3	0	NT	11/24/19
	9.17	NT	NT	NT	0.8	NT	NT	03/24/19
	8.46	NT	NT	NT	0.92	NT	NT	07/20/19
	9.72	NT	NT	NT	0.88	NT	NT	10/11/19
	10.44	NT	NT	NT	0.94	NT	NT	02/28/20
	8.1	NT	NT	NT	0.29	NT	NT	05/24/20
	8.55	NT	NT	NT	0.4	NT	NT	10/05/20
	8.24	NT	NT	NT	0.43	NT	NT	04/02/20
- 3	8.87	NT	NT	17.5	0.39	NT	NT	07/23/20
	9.69	NT	7	24.6	0.29	2.2	15.8	10/22/20
MW-8	9.35	NT	7.5	NT	0	NT	13.3	10/21/19
	9.37	NT	6.8	NT	0.4	NT	8.3	02/21/19
	8,15	3420	8.1	+113.7	0.45	NT	8.7	05/21/19
	8,37	1734	7.27	NT	0.3	NT	12.7	08/28/19
	9.05	NT	6.9	+23.8	0.39	3	9.9	02/18/19
	7.21	4320	7.2	+27.3	0.28	1	12.4	05/19/19
	8.64	4210	7.6	+20.1	0.29	1	15.1	07/23/19
	9.2	2110	7.1	-103.8	0.18	4	11.9	11/24/19
	8.45	NT	NT	NT	0.22	NT	NT	03/24/19
	7.81	NT	NT	NT	0.54	NT	NT	07/20/19
	9.21	NT	NT	NT	0.6	NT	NT	10/11/19
	9.89	NT	NT	NT	0.58	NT	NT	02/28/20
	7.22	NT	NT	NT	0.33	NT	NT	05/24/20
	7.87	NT	NT	NT	0.44	NT	NT	10/05/20
	7.39	NT	NT	NT	0.22	NT	NT	04/02/20
9	8.27	NT	NT	-51.4	0.29	NT	NT	07/23/20
	9.17	NT	7	-168.7	0.19	2.8	15.4	10/22/20
MW-9	9.14	NT	7.4	NT	1.4	NT	13.2	10/21/19
	9.08	NT	6.8	NT	0.8	NT	7.9	02/21/19
	8.00	3.08	8.00	+107.7	6.77	NT	8.5	05/21/19
	8.15	1596	7.63	NT	3.97	NT	14.8	08/28/19
3	8.8	NT	NT	NT	NT	NT	NT	02/18/19
	7.09	5380	7.2	+99.7	0.21	0.5	12.4	05/19/19
	9.34	4620	7	+97.6	0.42	1	14.9	07/23/19
	8.95	NT	NT	NT	NT	NT	NT	11/24/19
	8.39	NT	NT	NT	0.17	NT	NT.	03/24/19
	7.67	NT	NT	NT	0.91	NT	NT	07/20/19
	9	NT	NT	NT	0,28	NT	NT	10/11/19
ĺ	9.65	NT	NT	NT	0.95	NT	NT	02/28/20
	7.08	NT	NT	NT	2.58	NT	NT	05/24/20
	7.71	NT	NT	NT	1	NT	NT	10/05/20
	7.26	NT	NT	NT NT	0.31	NT	NT	04/02/20
	7,99	NT	NT	8.2	0.36	NT	NT	07/23/20
	8.94	NT	7	48.5	0.34	1.2	15.7	10/22/20

KEY:
mgf! = milligrams per liter
NT = Not Tested
mV = millivots
Deg. C = Degrees Celcius
\* Note - Depth of groundwater measured form the top of the well casing

# Table 3 (Cont.) Conductivity, Dissolved Oxygen, ph and Redox Potential Readings Clark Station #0562 4751 North Santa Monica Boulevard, Milwaukee, Wi

Well	Depth to	Conductivity	pH	Redox Potential	Dissolved Oxygen	Ferrous	Date
Number	Water	mV		mV	mg/l	Iron (mg/l)	Measure
Q-1	18.21	1920	5,1	+110.6	0.78	0.8	02/18/199
		ested unable to re			· Statement		05/19/199
	17.52	2640	7.2	+131.2	0.32	0	07/23/199
	9.84	3200	7	-79.7	0.25	2	11/24/198
	8.31	NT	NT	NT	0.22	NT	03/24/199
	8.17	NT	NT	NT	0.43	NT	07/20/199
	9.78	NT	NT	NT	0.42	NT	10/11/199
	11.81	NT	NT	NT	0.34	NT	02/28/200
	8.3	NT	NT	NT	0.24	NT	10/05/200
	NT	NT	NT	NT	NT	NT	04/02/200
	7.21	NT	NT	-19.7	0.25	NT	07/23/200
	9.63	NT	NT	NT	0.16	NT	10/22/200
0-2	10.86	3310	7.2	-77.2	0.25	5	02/18/199
	6.73	4310	7.3	-40.1	0.45	2	05/19/199
	10.91	1210	6,9	+120.1	0.56	0	07/23/199
	9.95	1880	7.2	-88.5	0.25	6.5	11/24/199
	9.28	NT	NT	NT	0.21	NT	03/24/199
	8.53	NT	NT	NT	0.4	NT	07/20/199
	9.87	NT	NT	NT	0.37	NT	10/11/199
	10.96	NT	NT	NT	0.38	NT	02/28/200
	8.68	NT	NT	NT	0.28	NT	10/05/200
	8.33	NT	NT	NT	0.22	NT	04/02/200
	8.99	NT	NT	-26.7	0.31	NT	07/23/200
	9.81	NT	NT	NT	0.18	NT	10/22/200
Q-3	1			ster, could not be mo			02/18/199
	Not to	ested unable to re					05/19/199
	9.85	3410	7.2	+88.4	0.48	0	07/23/199
	NT	NT	NT	NT	NT	NT	11/24/199
	NT	NT	NT	NT	NT	NT	03/24/199
	NT	NT	NT	NT	NT	NT	07/20/199
	NT	NT	NT	NT	NT	NT	10/11/199
	NT	NT	NT	NT	NT	NT	02/28/200
	9.1	NT	NT	NT	0.18	NT	10/05/200
	8.92	NT	NT	NT	0.24	NT	04/02/200
	9.28	NT	NT	-35.6	0.22	NT	07/23/200
	3.20			pster, could not be m		141	10/22/200
0-4	19.2	297	6.6	-22.8	0.55	1	02/18/199
0-4		ested unable to re			0.30		05/19/199
	21,35	4250	7.1	1 +5.21	0.48	0	07/23/199
			7.1	+5.21 -101.2	0.48	4	11/24/199
	9.72	2970 NT	NT.	-101,2 NT	0.18	NT	03/24/199
		NT	NT	NT NT	0.19	NT	03/24/199
	8.45		4757	10000	10000004		U. 1015/1025/01/1025
	9.81	NT	NT	NT	0.2	NT	10/11/199
	11.81	NT	NT	NT	0.2	NT	02/28/200
	8.8	NT	NT	NT	0.22	NT	10/05/200
	8.87	NT	NT	NT	0.19	NT	04/02/200
	8.92	NT	NT	-39.1	0.28	NT	07/23/200
	9.74	NT	NT	NT	0.27	NT	10/22/200

KEY:
mg/l = milligrams per liter
NT = Not Tested
mV = millivolts
\* Note - Depth of groundwater measured form the top of the well casing

Appendix G Well Abandonment Forms of Sentinel Environmental of February 16, 2010 for Closed BRRTS # 03-41-000450

#### SENTINEL ENVIRONMENTAL SERVICES, LLC



February 16, 2010

Greg Michael Department of Commerce 9316 N. 107<sup>th</sup> St. Milwaukee, WI 53224 MAY 2 1 2010
PECFA SITE REVIEW
MILWAUKEE OFFICE

RE:

Well Abandonment Form Submittal/Final Closure Request

Former Clark #562

4751 N. Santa Monica Blvd. Milwaukee, WI 53211 BRRTS No. 03-41-000450 PECFA No. 53211-1043-51

Dear Mr. Michael:

Sentinel Environmental Services, LLC was contacted by Mr. Amin Bhimani (responsible party) to complete conditional closure items for the site. The scope of work included well abandonment, granular activated carbon disposal, and permanent remediation system shut down.

All site wells were properly abandoned on 06/02/09. There were 9-2" monitoring wells and 5-6" remediation wells. The remediation wells included 3 dual phase (SVE/Pump) and 2 single phase (SVE only). Pumps and piping required removal at the 3 dual phase well locations. As I had no site map to identify remediation wells, they are identified on the abandonment forms by proximity to monitoring wells or permanent site features. Well abandonment forms are attached for your records.

The site remediation system was permanently shut down on 11/02/09. There were 5 drums of granular activated carbon (GAC) that required disposal at Waste Management under profile #MW103425W1. GAC lab results and profile information are included for your records. The remediation building contained an SVE with groundwater pump and treat system. All components of the system were removed and disposed as scrap.

Please review these conditional closure items as completed and consider this site for final closure. If you have any questions I can be reached at 262-375-8110 or 262-844-6220 (cell).

Sincerely,

Sentinel Environmental Services, LLC

David M. Lennon

David M. Lennon, P.E.

Project Manager

cc: Amin Bhimani, 700 W. Wisconsin Ave., Milwaukee, WI 53233

Attachments

## Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

Verification Only of Fi	II and Se	eal	Drinking Wat	200	Watershed/	Wastewater	Remed	diation/Redevelopment
1. Well Location Information	n			2. Faci	lity / Owner li	nformation		
A Demo	rique Well wed Well	# of	licap #	Facility N	ame	1 Clark	#	
Milwau Kee _				- 33	forme	1 Clark	T56	20-
Lattitude / Longitude (Degrees a	nd Minute:	s) Method	Code (see instruct	tions) Facility II	(FID or PWS)	950		
		N		icanea/S	Permit/Monitoria	7030		
•		W		Licetiseri	MW	-/		
WIN NE W NE	Section		ashin Banas —	Original V	Vell_Owner			
180 110	- Section	- I OW	nship Range		Clark	0:(		
or Gov't Lot #	10:	2 0	Made	W Present y	Vell Owner			
Well Street Address 475/ N. Sau	da 11	lonico	Blud.	A		imani		
Well City, Village or Town	-0	A. S. A.	Well ZIP Code 532/	, Walling A	OW. U	15consin	Ave.	54-#3
Subdivision Name	<u> </u>			City of Pro	esept Owner		State	ZIP Code
Subdivision Name			Lot #	m	i/wank	re	WI	53233
Reason For Removal From Servi	ce Wi Ur	nique Well :	# of Replacement V	Vell 4. Pump	, Liner, Scre	en, Casing & Se	aling Mate	The state of the s
Site Closed				Pump a	and piping remo	oved?	님	Yes No No NA
3. Well / Drillhole / Borehole				100 PM 100 PM 100 PM	removed?		님	Yes No No NA
Monitoring Well		1.	n Date (mm/dd/yyy	y) Screen	removed?			Yes No NA
Water Well	u	And the second second second	rure		left in place?			Yes No No N/A
Borehole / Drillhole	If a Well please at		on Report is availab	le. Was ca	sing cut off bel	ow surface?		Yes No No
Construction Type:	process at	KGOT1			ling material ris		X	Yes No NA
	Sandpoint)		Dug	100000000000000000000000000000000000000	terial settle afte		님	Yes No DNA
Other (specify):	our oponit,	<u>.</u>			es, was hole re nite chips were		intrated -	Yes UNO MINIA
						used, were they hy n safe source?		Yes No N/A
Formation Type:	1	_			nethod of Placif fuctor Pipe-Gra	ng Sealing Material		- 4
Unconsolidated Formation	-6 (0.)	Bedroc	V-101-101-101-101-101-101-101-101-101-10	planeton	ened & Poured		r Pipe-Pump	
Total Well Depth From Ground Su	irrace (π.)	Casing Di	ameter (in.)	(Ben	tonite Chips)	Other (Exp	olain):	207-19
Lower Drilthole Diameter (in.)		Casing De	anth (ft )	Sealing Ma	iterials Cement Grout	Г	٦ ٥٠ ٥	
nakuour			Known	- Innerting	-Cement (Conc	rete) Grout	A Company of the Comp	f Slurry (11 lb./gal. wt.) Sand Slurry " "
	Г			T Cone		rote) Grout	Bentonite	Control of the contro
Was well annular space grouted?	L		No Unkno	IWD I		Monitoring Well Bor		
If yes, to what depth (feet)?	Dept	h to Water			onite Chips	- Immy	onite - Ceme	
AAA AAA		8.3	6	Gran	ular Bentonite	☐ Bento	onite - Sand	Slurry
5. Material Used To Fill Well / D	rillhole			From (ft.)	To (ft.)	No. Yards, Sack or Volume (cire	s Sealant cle one)	Mix Ratio or Mud Weight
3/8" Bentonite	Chip.	5		Surface	145		23	Man Hotalit
	ı							
6. Comments								and the second s
7. Supervision of Work			γ			The second secon	DNR Use (	Only
Name of Person or Firm Doing Filli Sentine   Env. Sorvi		46		f Filling & Sealing / 02 / 6	ng (mm/dd/yyy)	/) Date Received	Note	ed By
Street or Route	7			Telephone Nu	mber	Comments		
P.O. BOX 865				(262) 37	5-8110			
Goafdon		State	ZIP Code		f Person Doing		Date	Signed
0007 707		WI	53024	Lau	e Jen	NON	102	/16/10

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Verification Only of Fi	ll and Se	eal	Drinking Wate Waste Manag		Watershed	i/Wastewater	Reme	ediation/Redevelopmen
1. Well Location Information	n			2. Facil	ity / Owner	Information		
County WI Ur	nique Well	# of	licap #	Facility N				
	ved Well		Cartino Cartin College Court 1		Forms	21 Chart	#56	52
//II was kee				Facility ID	(FID or PWS			20
Lattitude / Longitude (Degrees a	nd Minutes	Method	Code (see instructi	ons) 22	11574	1850		
	''	<b>V</b>		License/P	ermit/Monitor	ing#		
		N			MW-	2		
4/4 AF 14 ALE	Section	Town	ship Range ru	- Original V	/ell Owner			
or Gov't Lot #	104	5 0	ship Range		look	oil		
Well Street Address	10	7 0	1 NIDAL	W Present W	ell Owner	_		
455/ N Co.	1- 1	1	Dlad	H	um Bi	rimani		
Well City, Village or Town	DD //	ONICO	Well ZIP Code	Mailing Ac	dress of Pres	sent Owner	_	/~
Milwauke	0		53211	70	$\omega$ . $u$	215consin	Ave.	56e#3
Subdivision Name			Lot#		sept Owner		State	ZIP Code
			F-01.#	MI	work	ee	WI	53233
Reason For Removal From Servi	ce Wi Un	ique Well #	of Replacement W	ell 4. Pump	Liner, Scre	en, Casing & Se	aling Mate	erial
Site Closed	100			200	nd piping rem	oved?	Г	Yes ONO NA
3. Well / Drillhole / Borehole	Informat	ion			removed?			Yes No No NA
_			Date (mm/dd/vvvv		removed?			Yes Mo DNA
Monitoring Well	/ 4		wu		eft in place?		100	
Water Well	If a Well (		n Report is available		ESCAL NAVOLENIA INC.	Tarana		
Borehole / Drillhole	please at		Treport is available			low surface?		
Construction Type:				The second second		ise to surface?	الما	Yes No NA
Drilled Driven (	Sandpoint)	Г	Dug		erial settle aft		님	Yes No NA
Other (specify):	24ap 0y	L	7009		s, was hole re ite chins were		udrated —	Yes UNO MINA
						used, were they hy vn safe source?		Yes UNO N/A
Formation Type:		_				ing Sealing Material		AVOLUSVA GARANTAN AND THE AND
Unconsolidated Formation		Bedrock		generally .	uctor Pipe-Gra		or Pipe-Pump	
Total Well Depth From Ground Su	rface (ft.)	Casing Dia	imeter (in.)		ned & Poured onite Chips)	Other (Ex	plain): <b>5</b> 1	aunty
- 16		9	<u></u>	Sealing Ma	erials		_	
Lower Drillhole Diameter (in.)		Casing De	GOOD CARD DAY	Neat	Cement Grout		Clay-Sand	d Slurry (11 lb./gal. wt.)
unknown		un	Known	Sand-	Cement (Con	crete) Grout	Bentonite	-Sand Slurry " "
Was well annular space grouted?		Yes 2	No Unknov	vn Concr		L	Bentonite	
If yes, to what depth (feet)?	Depth	to Water (		For Monitor		Monitoring Well Bo		
A STATE OF THE PARTY OF THE STATE OF THE STA		8.4	-/-	- Connect	nite Chips		onite - Ceme	
		0.7	0	Granu	lar Bentonite	Action to the second second	onite - Sand	
5. Material Used To Fill Well / Dr				From (ft.)	To (ft.)	No. Yards, Sack or Volume (cir	cle one)	Mix Ratio or Mud Weight
3/8" Bentonite	Chip	3		Surface	16	0:35 +	+3	
	1							
6. Comments		DE WICHERSON DIE				M-10-20-10-10-10-10-10-10-10-10-10-10-10-10-10		
		(4)						
			1000					
7. Supervision of Work		- mva-saw-sal	The state of the s		active to the second		DNR Use	Only
Name of Person or Firm Doing Filli	ng & Seali	ng Licens		Filling & Sealin	g (mm/dd/yyy	y) Date Received	Note	ed By
Sentine   Env. Servi	ces, L	c 1940	Company of the Compan	102 10	\$			
Street or Route	N			Telephone Nun		Comments	H 2 1 C	
P.O. BOX 865	·			(262) 313				
Grafton			ZIP Code	Signature of	Person Deing		Date	Signed
76at 401 WI 53024				- Lave Leunon 02/16/10				116/10

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Verification Only of Fill and Seal	Coute to:  Drinking Water  Waste Manageme	ent [	Watershed/W	/astewater	Remed	liation/Redevelopment
Well Location Information		2. Facilit	y / Owner Inf	formation		
Milwau Kee Removed Well	licap#	Facility Nar	Former FID or PWS)	Clark	#56	,2
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions)	04	1574 mit/Monitoring	850 *3		
146 146	nship Range DE	Original We	look C	2:(		
or Gov't Lot # 05 0 Well Street Address 475 / N. Soudo Monico	Rlud.	Present We	in Bhi	mani		
Well City, Village or Town Milwaukee	Well ZIP Code 532//	700 City of Pres		Sconsin I	Ave., S	56e #3
Subdivision Name	Lot #	Mi	worker	2	WI	53233
Reason For Removal From Service   WI Unique Well	# of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Sea	aling Mater	rial
Site Closed		Pump an	d piping remov	red?		Yes No No NA
3. Well / Drillhole / Borehole Information		Liner(s)	emoved?		[]	Yes No NA
X Monitoring Well	n Date (mm/dd/yyyy)	Screen re				Yes No NA
Mater Well Whater Well	rure	-	ft in place?		· 12	
Borehole / Drillhole please attach.	on Report is available,		ng cut off below		X	
Construction Type:		TATTOUT AND ADDRESS	ng material rise rial settle after			Yes No NA
Drilled Driven (Sandpoint)	Dug		, was hole reto	The state of the s		res No No N/A
Other (specify):				sed, were they hy safe source?	drated	res DNo N/A
Formation Type:		And the second second second		Sealing Material		es LINO ZINA
▼ Unconsolidated Formation	k		ctor Pipe-Gravi			
Total Well Depth From Ground Surface (ft.) Casing D	iameter (in.)		ned & Poured nite Chips)	Other (Exp	olain): Gr	with
14	2	Sealing Mate		_		
Lower Drillhole Diameter (in.) Casing D			ement Grout		7	Slurry (11 lb./gal. wt.)
unknown un	kupun	Sand-C	Cement (Concre	ete) Grout	7	Sand Slurry " "
Was well annular space grouted?	XI No Unknown			Lonitoring Well Bor	∃ Bentonite (     reholes Only:	50 CO (10 CO)
If yes, to what depth (feet)? Depth to Water		Benton			onite - Ceme	
	86	Granul	ar Bentonite	☐ Bento	onite - Sand	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sack or Volume (circ	s Sealant cle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips		Surface	14	0.31 f	Name and Address of the Owner, where	
6. Comments						
				,		
7. Supervision of Work			7 1111 1	the state of the s	DNR Use (	
Name of Person or Firm Doing Filling & Sealing Licer Sentine   Env. Solves, LLC 94	0910 06/0	02/09	(mm/dd/yyyy)	Date Received Comments	Note	ed By
Street or Route P.O. Box 865	(2	ephone Num	-8/10			
Graffon State WI	53024		Person Doing		Date 02	Signed //0

## Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

Page 1 of 2

Standard Standard Standard (1961) Court Production of Africa and Standard S	Route to:		110414711	107 200 20 20 20 20 20 20 20 20 20 20 20 20				
Verification Only of Fill and Seal	Drinking Water		Watershed/	Nastewater	1 Reme	diation/Redevelopment		
	Waste Manager	ment [	Other:		7-	· ·		
Well Location Information		2 Eacili	ity / Owner In	famatian				
position of the same of the sa	Hicap #	Facility Na	-	normation		***************************************		
Milwan Kee Removed Well	illosp #	97.3349.8n • V 307	Forme	1 Clark	#56	52		
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instruction	ns) Pacility ID	(FID or PWS)	950				
· 'N		l icense/P	ermit/Monitorin	0.#				
. · w		Liconson	M(L) -	1				
All to the second	nship Range ru	Original W	1100					
or Gov't Lot# 05 0	h 20 4	1 6	clark (	Oi(				
Well Street Address	NALV	Present W	ell Owner					
4751 N. Sauda Monico	- Blvd.	The same of the sa	dress of Prese	Man (				
Well City, Village or Town	Well ZIP Code			15consin 1	0,10	str #3		
Milwaukee	532/1		sept Owner	Land Market	State	ZIP Code		
Subdivision Name	Lot#	Mi	/wanke		WI	53233		
Reason For Removal From Service   WI Unique Well	# of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Sea	ling Mate	rial .		
Site Closed		Pump as	nd piping remo	ved?		Yes No No NA		
3. Well / Drillhole / Borehole Information		Liner(s)	removed?			Yes No No NA		
	n Date (mm/dd/yyyy)	Screen r	removed?			Yes No UNA		
Mater Well anku	rure	Casing I	eft in place?			Yes ONO ON/A		
Borehole / Dritthole If a Well Construction	on Report is available,	Was cas	ing cut off belo	w surface?		Yes No No N/A		
Construction Type:		Did seali	ing material rise	e to surface?	[X	Yes No No		
	7	111-111-1111	erial settle after	AND THE RESERVE OF THE PARTY OF		Yes No NA		
	Dug		If yes, was hole retopped?  If bentonite chips were used, were they hydrated with water from a known safe source?  Yes No N/A					
Other (specify):					rated	Yes No No NA		
Formation Type:		Proceed.	Required Method of Placing Sealing Material					
Unconsolidated Formation Bedroc		Conductor Pipe-Gravity Conductor Pipe-Pumped						
Total Well Depth From Ground Surface (ft.) Casing Di	ameter (in.)	Screened & Poured (Bentonite Chips) Other (Explain):						
/5	<del></del>	Sealing Materials						
Lower Drillhole Diameter (in.) Casing De		Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)						
	cuour	Lane I	Cement (Concre	ete) Grout	Bentonite-	Sand Slurry " "		
Was well annular space grouted?	No Unknown	Concre		L	Bentonite			
f yes, to what depth (feet)? Depth to Water	(feet)	For Monitoria	<i>ng Wells and M</i> nite Chips	fonitoring Well Bore				
8.	25	Printeg	ar Bentonite	- Control				
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks	Sealant	Slurry Mix Ratio or		
3/8" Bentonite Chips	THE SHARM THE THE THE	Surface	15	or Volume (circ		Mud Weight		
TO PERIONIA UNIDO		Surface	/5	0.33+6	, 3			
5. Comments								
7. Supervision of Work				T 0	NR Use (	Only		
Name of Person or Firm Doing Filling & Sealing Licens			(mm/dd/yyyy)	Date Received		d By		
Sentine   Env. Services, uc 94	0910 06/	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	,		131	ŒE.		
P.O. Box 865	137	262 375	The state of the s	Comments	XX			
	ZIP Code		Person Doing \	Work	Date	Signed		
Graffon WI	53024	Dave		non	02	116/10		
			Company of the last of the las		The second second second	Marian Company of the Marian Company of the Company		

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to: Verification Only of Fill and Seal **Drinking Water** Watershed/Wastewater 1 Remediation/Redevelopment Waste Management Other: 1. Well Location Information 2. Facility / Owner Information County WI Unique Well # of Hicap # acility Name Removed Well ormer acility ID (FID or PWS Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions) License/Permit/Monitoring # Original Well Owner Fownship TX E look or Gov't Lot # W Well Street Address Mailing Address of Present Owner Well City, Village or Town Well ZIP Code 32 City of Present Owner State ZIP Code Subdivision Name Wilwanker Pump, Liner, Screen, Casing & Sealing Material Reason For Removal From Service WI Unique Well # of Replacement Well Pump and piping removed? 3. Well / Drillhole / Borehole Information Liner(s) removed? Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well Casing left in place? KUDWU Water Well If a Well Construction Report is available. Was casing cut off below surface? Borehole / Drillhole please attach. Did sealing material rise to surface? Construction Type: Did material settle after 24 hours? X Drilled Driven (Sandpoint) Dug If yes, was hole retopped? If bentonite chips were used, were they hydrated with water from a known safe source? Other (specify): \_\_\_Yes Formation Type: Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped X Unconsolidated Formation Bedrock Screened & Poured X Other (Explain): Grave Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) (Bentonite Chips) Sealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.) unteroun Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " X No Concrete Bentonite Chips Was well annular space grouted? Unknown or Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout 8.65 Granular Bentonite Bentonite - Sand Slurry 5. Material Used To Fill Well / Drillhole No. Yards, Sacks Sealant Mix Ratio or From (ft.) To (ft.) or Volume (circle one) Mud Weight Surface Comments 7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing (mm/dd/yyyy) Date Received icense # Noted By Street or Route Telephone Number Comments ZIP Code State Date Signed

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

	Route to:							
Verification Only of Fill and Seal	Drinking Water	Γ	Watershed/V	Nastewater	10 Reme	diation/Redevelopment		
	Waste Managem	nent [	7	rastowater	1/2 reme	ulation (Redevelopment		
Well Location Information	T Tradic Managen		Other:					
	lines #		ity / Owner In	ntormation				
Milway Kee Removed Well	Hicap #	Facility Na	Forme	1 Clark	#56	52		
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instruction	s) acility ID	(FID or PWS)	850				
· 'N		License/P	ermit/Monitorin					
· · · w		-	nw-6	, . ,				
1/4 NE 1/4 NE Section Town	nship Range X E	Original W		211				
or Gov't Lot# 05 0	7 N 22 1 W		clark (	01(	No. of the last of			
Well Street Address 475/ N. Sauda Monica	, ,	Present W	um Bhi	imani				
Well City, Village or Town	Well ZIP Code		dress of Prese		1	11 42		
Milwaukee	53211		sept Owner	isconsin i	State	56e 17-5		
Subdivision Name	Lot#	Mi	/wanke		WI	ZIP Code 53233		
Reason For Removal From Service   WI Unique Well	# of Replacement Well	4. Pump,	Liner, Scree	en, Casing & Sea	lling Mate	rial		
Site Closed		Pump ai	nd piping remo	ved?		Yes No No NA		
3. Well / Drillhole / Borehole Information		Liner(s)	removed?		닏	Yes No NA		
A Monitoring Well	n Date (mm/dd/yyyy)		removed?			Yes Mo NA		
Water Well White	rure	Casing I	eft in place?		AND THE REAL PROPERTY.	Yes No NA		
Borehole / Drillhole   If a Well Construction	on Report is available.	Was cas	sing cut off belo	w surface?		Yes No NA		
Construction Type:	***************************************	Did seal	ing material rise	e to surface?	IXI	Yes No NA		
Drilled Driven (Sandpoint)	Dug	57700 Table 10000	erial settle after		H	Yes No NA		
Other (specify):	_1 bug		If yes, was hole retopped?  If bentonite chips were used, were they hydrated with water from a known safe source?  Yes No N/A					
						Yes No N/A		
Formation Type:		Required Method of Placing Sealing Material  Conductor Pipe-Gravity Conductor Pipe-Pumped						
Unconsolidated Formation Bedroc								
Total Well Depth From Ground Surface (ft.) Casing Di	ameter (in.)	(Bentonite Chips)						
Lower Drillhole Diameter (in.) Casing De	anth (ft )	Sealing Mat			1	44E20 92000 10 TI		
7.7% (12.1.)[[1] [[1] [[1] [[1] [[1] [[1] [[1] [[1]	Known	feetend	Cement Grout Cement (Concre	rete) Grout		d Slurry (11 lb./gal. wt.)		
		Concre		ete) Grout	Bentonite	Sand Slurry " "		
Was well annular space grouted?	No L Unknown	For Monitori	ng Wells and M	fonitoring Well Bore				
if yes, to what depth (feet)? Depth to Water		M Bentor	nite Chips	☐ Bento	nite - Ceme	ent Grout		
	.10		ar Bentonite		nite - Sand			
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	Sealant le one)	Mix Ratio or Mud Weight		
3/8" Bentonite Chips		Surface	14	0,31 ft	3	mad vooigin		
Service and the service of the servi		Summer Towns Control of the Control						
6. Comments		to train and						
7. Supervision of Work	- # b :			"	ONR Use C			
Name of Person or Firm Doing Filling & Sealing Licens Sentine   Env. Services, LLC 94	0910 Date of Fil		g (mm/dd/yyyy)	Date Received	Note	ed By		
Street or Route		lephone Num	her	Comments				
P.O. Box 865		262 395		Vinitolità				
City C/ State	ZIP Code		Person Doing	Work	Date	Signed		
Graffon State WI	53024	Lave	- 0	non		/16/10		

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Verification Only of Fill	and Se	al	Drinking Wate			Watershed/M	Vastewater	Rem	ediation/Redevelopment
1. Well Location Information				2. Fa	cilit	ty / Owner In	formation		
	que Well	# of	Hicap #	Facility	_	me	Harata - Yang ag and a har	-,	
Milian Vac Remov	ed Well			1		Forme	1 Clark	#5	62
Milwan Kee				Facility	ID (	(FID or PWS)	· Coop		20-
Lattitude / Longitude (Degrees and	d Minutes	) Method	Code (see instruct	ions)	4	-1574	850		
	'	N		Licens	e/Pe	mit/Monitoring	#		
0	٠,٧	N			4	M111-	5		
WW ALE W ALE				Origina	1 1/1/6	II.Owner			
XIX NE X NE	Section	I OWI	nship Range	E Oligini	6	look	200		
or Gov't Lot #	05	0 0	7 N 22 [	W Preser	t We	ell Owner			
Well Street Address	, ,	1 .	_ / /	1000	1	. 7/	******		
475/N. Savo	0/1	onica	- Blvd.	Mailing	Add	tress of Preser	MALA (		
Well City, Village or Town	STOREST TO STORES		Well ZIP Code		Ni	!!!	Sconsin	A. 10	CL #2
Milwaukee	,		53211	City of	Pres	ent Owner	Longin	State	ZIP Code
Subdivision Name			Lot #		1	wanke		WI	
			1	4 0	-	-	n, Casing & Se		de maria
Reason For Removal From Service	e WI Un	ique Well	# of Replacement W	/ell . Full	πp,	Liner, Screen	n, Casing & Se	aling mat	
Site Closed				Pum	p an	d piping remov	red?	L	Yes No No NA
3. Well / Drillhole / Borehole I	nformat	ion		Line	r(s) r	emoved?		L	Yes No W N/A
Monitoring Well	Original C	onstruction	n Date (mm/dd/yyy	y) Scre	en re	emoved?		L	Yes M No NA
Lancel	u	nkuo	rure	Casi	ng le	oft in place?		3	Yes ONO ON/A
Water Well	If a Well (		n Report is available	e. Was	casi	ng cut off below	w surface?		Yes ONO ONA
	please att			1		ng material rise			Yes No NA
Construction Type:	- PA D S-IIICHIPARI			522270		rial settle after		ř	
Drilled Driven (Sa	andpoint)	Γ	Dug	5467750		, was hole reto		F	Yes A No L N/A
Other (specify):		-						drated —	Yes No No NA
							sed, were they hy safe source?		Yes LINO NA
Formation Type:	-	_		- Inneced			Sealing Material		
Unconsolidated Formation	L	Bedrock		- processes		ctor Pipe-Gravi	Prompty	or Pipe-Pum	
Total Well Depth From Ground Sur	face (ft.)	Casing Di	ameter (in.)			ned & Poured nite Chips)	Other (Ex	plain): 💪	BUH!
13			2	Sealing	Mate	erials			
Lower Drillhole Diameter (in.)	1	Casing De	opth (ft.)	□ Ne	at C	ement Grout		Clay-San	nd Slurry (11 lb./gal. wt.)
Unkerown		un	Luceva	Sa	nd-C	Cement (Concre	ete) Grout		-Sand Slurry " "
Was well annular space grouted?		Yes D	No Unkno	un Co	ncre	ite		Bentonite	Chips
If yes, to what depth (feet)?	Jan. 11			For Mon	itorin	ng Wells and Me	onitoring Well Bo	reholes Onl	y:
il yes, to what depth (leet)?	Deptr	to Water		Ве	nton	ite Chips	☐ Bent	onite - Cem	ent Grout
		1.	84	☐ Gr	anula	ar Bentonite	Bent	onite - Sand	Slurry
5. Material Used To Fill Well / Dri	llhole			From (	ft.)	To (ft.)	No. Yards, Sack	s Sealant	Mix Ratio or
3/8 " Bentonite (	chipa	5		Surfac	P	/3	or Volume (cir	43	Mud Weight
The Desire I	21192			Julia	-	15	0.27	F -	
A STATE OF THE STA				_	-				<del> </del>
6. Comments									
o, commenta									
7. Supervision of Work							1	DAID II.	
Name of Person or Firm Doing Filling	n & Seali	na Licens	Pote of	Eilling & Co	aliaa	(mmlddhaan)	Data Bassissad	DNR Use	
Sentine   Env. Servi	g a sean	01			A G	(mm/dd/yyyy)	Date Received	Not	ed By
Street or Route	es, u	C 1/97	0910 06	-d-	7	har	Comments		
P.O. Box 865				Telephone I			Comments		
ity	-	Ctata	ZID Cod-			-8110	<u> </u>		
Grafton		State	ZIP Code	Signature	of F	Person Doing V			e Signed
- 1 W 101		WI	53024	Na	UL	Xen	non	00	2/16/10

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### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

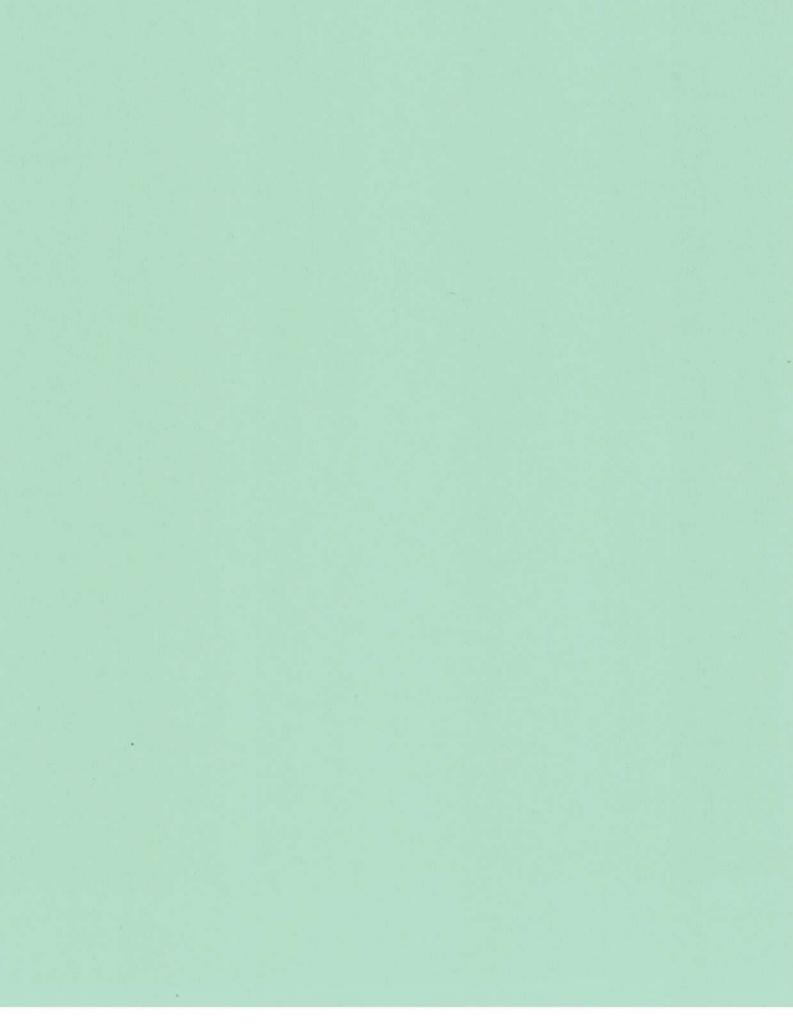
☐ Verification Only of Fi	il and Seal	Drinking Water Waste Managen	nent [	Watershed/\ Other:	Wastewater	Reme	diation/Redevelopment
1. Well Location Information	n		2. Facili	ty / Owner Ir	formation		
		icap#	Facility Na			./	
Milwau Kee Remo	ved Well	fi		Forme	1 Clark	#56	2
Lattitude / Longitude (Degrees a	nd Minutes) Method (	Code (see instruction	s) Facility ID	(FID or PWS)	950		
	'N		OL9	1219	-030		
•	·w		License/Po	M(1) -	9#		
XIX NE X NE	Section Towns	ship Range X E	Original W	ell Owner	2:1		
or Gov't Lot#	105 01	7 N 22 1 N		larki	00(		
Well Street Address	10010	Maarin	Present W	ell Owner			
4751 N. Sau	da Monia	R/m.	HM		mane	-	
Well City, Village or Town	1110111 000	Well ZIP Code	-Mailing Ad	dress of Prese		1	11 45
Milwauke	2	53211	City of Pro	sept Owner	15consin	and the supplement of the supp	be ms
Subdivision Name		Lot#	Mi	wanke	0	State	ZIP Code 5323
Reason For Removal From Servi	ce MI Unique Well #	of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Se	The second second	
Site Closed			Pump ar	nd piping remo	ved?		Yes No DINA
3. Well / Drillhole / Borehole	Information			removed?			Yes No No NA
[V]	Original Construction	Date (mm/dd/yyyy)	Screen	emoved?			Yes No DNA
Monitoring Well	unknow	un	Casing le	eft in place?			gillrang property
Water Well	If a Well Construction	Report is available.	Was cas	ing cut off bek	w surface?	×	Yes No No NA
Borehole / Drillhole	please attach.		1	ng material ris			Yes ONO ONA
Construction Type:			100000000000000000000000000000000000000	rial settle after			Yes No NA
Drilled Driven (S	Sandpoint)	Dug	4	, was hole ret			Yes No No NA
Other (specify):			If bentoni	te chips were u	used, were they hy safe source?	drated -	Yes No NA
Formation Type:		- 100			g Sealing Material		res LINO ALINA
X Unconsolidated Formation	Bedrock		- Brannell	ctor Pipe-Grav	powers	r Pipe-Pump	ed
Total Well Depth From Ground Su	rface (ft.) Casing Diar	meter (in.)		ned & Poured inite Chips)	Other (Exp	plain): Gr	auit.
15.5	6	2	Sealing Mate				
Lower Drillhole Diameter (in.)	Casing Dep	oth (ft.)		ement Grout		Clay-Sanc	Slurry (11 lb./gal. wt.)
Unknown	mek	nour	Sand-	Cement (Concr	ete) Grout		Sand Slurry " "
Was well annular space grouted?	Yes X	No Unknown	☐ Concre			Bentonite	
If yes, to what depth (feet)?	Depth to Water (f	eet)	For Monitorii		fonitoring Well Bor		
, , , , , , , , , , , , , , , , , , , ,	6.6			ite Chips		onite - Ceme	
		93		ar Bentonite		onite - Sand	
5. Material Used To Fill Well / Di			From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	s Sealant de one)	Mix Ratio or Mud Weight
3/8" Bentonite	Chips		Surface	15.5	0.34 f	£3	
							MINISTER CONTRACTOR
6. Comments							
							and a second
7. Supervision of Work					1	DNR Use C	Only
Name of Person or Firm Doing Filling		# Date of Fil	ling & Sealing	(mm/dd/yyyy		The second second second	d By
Sentiae   Env. Servi		AND THE RESERVE OF THE PARTY OF	02/09	3		1.50	3.776
Street or Route	- January Control	Те	lephone Num		Comments		
P.O. BOX 865		(Z	62 375	-8/10			
City Cha		ZIP Code		Person Deing	Work	Date	Signed
Grafton	WI	53024	Lave	Leu	non	02	116/10

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

	Route to:					
Verification Only of Fill and Seal	Drinking Water		] Watershed/W	/astewater	M/ Remedi	ation/Redevelopment
	Waste Manageme	ent [	Other:		,	
1. Well Location Information		2. Facilit	y / Owner In	formation		
	Hicap #	Facility Nar	20		"	
Milwau Kee Removed Well		Facility (D.)	Former FID or PWS)	Clark	#56	2
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions	2 4	150	850		
• 'N		License/Pe	rmit/Monitoring	4		
· w		M	111-9			
	nship Range run F	Original We		- 1/		
or Gov't Lot# 05 0	2 100	6	lark C	2:(		
Well Street Address	17 NADOW	Present We	/			
475/ N. Souda Monia	R/w.	1411		manc		
Well City, Village or Town	Well ZIP Code		ress of Preser	Sconsin	0.00	143
Milwaukee	532/1	City of Pres	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Sconsin	AND DESCRIPTION OF THE PARTY OF	ZIP Code
Subdivision Name	Lot #		worke	0	WI	53233
- Value of the second of the s		-	And in case of the last of the	n, Casing & Se		
Reason For Removal From Service Wi Unique Well	# of Replacement Well		d piping remov			res DNo DANA
3. Well / Drillhole / Borehole Information		-	emoved?	VOOT		res ONO DAVA
	n Date (mm/dd/yyyy)	-	emoved?			res Mo DN/A
X Monitoring Well	rure	1	eft in place?		DZ.	res ONO ONA
Water Wall	on Report is available.	-	ing cut off belo	w surface?	Ø,	
Borehole / Drillhole please attach.		1.55.410.114.467.	ng material rise		X	percent present
Construction Type:	_	100000000000000000000000000000000000000	rial settle after			res No DNA
Drilled Driven (Sandpoint)	Dug		, was hole reto			res No No NA
Other (specify):		if bentoni	te chips were u r from a known	used, were they hy a safe source?	rdrated	es No NA
Formation Type:		Required Me	ethod of Placing	g Sealing Material		
Unconsolidated Formation	:k		ctor Pipe-Grav		or Pipe-Pumpe	
Total Well Depth From Ground Surface (ft.) Casing D	iameter (in.)		ned & Poured inite Chips)	Other (Ex	plain):	way
12	2	Sealing Mate	erials		_	
A STATE OF THE PROPERTY OF THE	epth (ft.)	Lund	Cement Grout	L		Slurry (11 lb./gal. wt.)
natuoun un	Kubur		Cement (Concr	rete) Grout L	7	Sand Slurry " "
Was well annular space grouted?	X No Unknown	Eor Manitori		L fonitoring Well Bo	Bentonite (	
If yes, to what depth (feet)? Depth to Wate			ite Chips		tonite - Ceme	
6.	92		ar Bentonite	Contract	tonite - Sand	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Saci	cs Sealant	Mix Ratio or Mud Weight
3/8" Bentonite Chips		Surface	12	0.26		mud weight
TO ZERIGHT DRIP						
6. Comments						
7 Companieles of Mark				1	DNR Use C	Jahr J
7. Supervision of Work  Name of Person or Firm Doing Filling & Sealing Lice	ose# Date of Fil	ling & Sealing	g (mm/dd/yyyy	) Date Received	the same of the same of	d By
Sentine / Env. Services, LLC 94	10910 06/		9	, , , , , , , , , , , , , , , , , , , ,	1300	/
Street or Route	Te	lephone Nun	Contract of the contract of th	Comments		
P.O. BOX 865	(i	262 395	5-8110			
City State	ZIP Code		Person Doing			Signed
Grafton State WI	53024	Laur	Leu	non	02	116/10



#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

The properties of the contract	Barria Acr					
Verification Only of Fill and Seal	Route to:  Drinking Water		] Watershed/	Wastewater [	Remedi	iation/Redevelopment
2000	Waste Managem	ent [	Other:			
Well Location Information	<del></del>	2. Facili	ty / Owner Is	nformation		
Milwaw Kee WI Unique Well # of Removed Well	licap #	Facility Na	Forme	1 Clark	#56	2
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions	Facility ID	(FID or PWS)	950		
°N		License/Pe	ermit/Monitorin	0,30		
* w		SI		W. of MU	U-3	)
1/1/4 NE 1/4 NE Section Town	ship Range X E	Original W	ell Owner			
or Gov't Lot# 05 0	7 N 22 1 W		lark	0(1		-
Well Street Address	7//	Present W	Same 1	imani		
Well City, Village or Town	Well ZIP Code	- Mailing Ad	dress of Prese	ent Owner		/ >
Milwaukee	53211			isconsin A	ve., 5	be #3
Subdivision Name	Lot#	4	ent Owner	10	A Committee of the Comm	ZIP Code 53233
B			-	en, Casing & Seali	The second second	Children of the Control of the Contr
Reason For Removal From Service M Unique Well #	of Replacement Well	2000000000 720	nd piping remo		□ <sub>Y</sub>	
3. Well / Drillhole / Borehole Information		-	removed?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		es No NA
Monitoring Well Original Construction	Date (mm/dd/yyyy)	Screen r	emoved?			es M No NA
Mater Well ankus	wa	Casing le	eft in place?		22 Y	THE RESERVE THE PERSON NAMED IN COLUMN 2 I
Borehole / Drillhole   If a Well Construction	n Report is available,	Was cas	ing cut off belo	ow surface?	⊠ <sub>Y</sub>	
Construction Type:		CONTRACTOR STATE	ng material ris		X	
Drilled Driven (Sandpoint)	Dug		rial settle after , was hole ret	The second secon		es No N/A
Other (specify):				used, were they hydran safe source?	ated Dy	Readly Though
Formation Type:		THE RESERVE AND PARTY AND PERSONS ASSESSED.	With the state of the Printer of the Party of the State o	g Sealing Material	1,0	SS CON ADINA
✓ Unconsolidated Formation		2 produces	ctor Pipe-Grav			
Total Well Depth From Ground Surface (ft.) Casing Dia	meter (in.)	(Bento	nite Chips)	Other (Explai	n): 12/0	NA 1
Lower Driffhole Diameter (in.) Casing De	pth (ft.)	Sealing Mate	erials Sement Grout		Clay Sand	Chamadad Indonesia
unknown un	Known	l land	Cement (Concr	Comment of the Commen		Siurry (11 lb./gal. wt.)
Was well annular space grouted?	No Unknown	Concre			Bentonite C	
If yes, to what depth (feet)? Depth to Water		For Monitorii	ng Wells and M lite Chips	Monitoring Well Boreh		
7.	48	[	ar Bentonite		te - Cemeni te - Sand Si	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks S	Sealant	Mix Ratio or
3/8" Bentonite Chips	CEON TO SERVICE STATE OF THE S	Surface	9.5	or Volume (circle		Mud Weight
			1.	10 / 75		
5. Comments						
7. Supervision of Work			1	DA	NR Use Or	nly
Name of Person or Firm Doing Filling & Sealing Licens			(mm/dd/yyyy		Noted	
Sentine   Env. Services, LLC 940	0910 06/6	The state of the s	har.	Commonts		
P.O. Box 865		ephone Num (62) 3/15		Comments		
CityState	ZIP Code	Signature of	Person Deing		Date S	Signed
Grafton WI	53024	LAN	Lou	MODE	021	116/10

### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Verification Only of Fill and Seal	Drinking Water Waste Managem	ent [	Watershed/V	Vastewater	Reme	diation/Redevelopment
1. Well Location Information		2. Facili	ty / Owner In	formation		
County   WI Unique Well # of Hica	ap#	Facility Na				
Milwow Kee Removed Well		(5)	Forme	1 Clark	#51	2
		Facility ID	(FID or PWS)	. 0,00		
Lattitude / Longitude (Degrees and Minutes) Method Co	de (see instructions	24	-1574	850		
		License/Pe	mit/Monitoring	g#		`
· w		51	E(n	ear mu	1-2	. )
14/1/4 NE 1/4 NE Section Townshi	ip Range X E	Original W	ell Owner	- 1/		/
or Gov't Lot # 05 07	N22AW		look (	97		
Well Street Address	Naalw	Present W	ell Owner			
4751 N. Sauda Monica	R/w	HM	in Bhi	mane		
	Vell ZIP Code	-Mailing Add	dress of Prese		1	/ -
Milwaukee	53211	100		isconsin i	Company of the last of the las	56e 175
	ot #	City of Pres	1/		State	ZIP Code
		THE RESERVE AND PERSONS NAMED IN	worke		WI	53233
Reason For Removal From Service   WI Unique Well # of	Replacement Well	4. Pump,	Liner, Scree	n, Casing & Sea	aling Mate	
Site Closed		Pump ar	d piping remov	ved?		Yes No No NA
3. Well / Drillhole / Borehole Information		Liner(s)	emoved?			Yes No NA
Monitoring Well Original Construction D	ate (mm/dd/yyyy)	Screen r	emoved?			Yes No NA
E WINKLARD	ru	Casing le	eft in place?		30	Yes ONO ONA
Water Well If a Well Construction R	report is available,	Was cas	ing cut off belo	w surface?		Yes No No
Borehole / Drillhole please attach.		Did seali	ng material rise	e to surface?		Yes ONO ON/A
Construction Type:		Did mate	rial settle after	24 hours?		Yes No DNA
Drilled Driven (Sandpoint)	Dug		, was hole reto			Yes No No NA
Other (specify):		If bentoni	te chips were u	ised, were they hyd safe source?	drated	Yes DNo NA
Formation Type:				g Sealing Material		163 LINA ZINA
Unconsolidated Formation Bedrock		Condu	ctor Pipe-Grav	ity Conductor	Pipe-Pump	ped
Total Well Depth From Ground Surface (ft.) Casing Diame	eter (in.)	Screen	ned & Poured	Other (Exp		
9.5	8	Sealing Mate	nite Chips)		,	
Lower Drillhole Diameter (in.) Casing Depth	(ft.)		ement Grout		Clay-Sand	d Slurry (11 lb./gal. wt.)
nakuoun unk	noun	[	Cement (Concre	ete) Grout		-Sand Slurry " "
	No Unknown	Concre	te		Bentonite	Control of the Contro
		For Monitoria	g Wells and M	onitoring Well Bore		
If yes, to what depth (feet)? Depth to Water (fee	T-17-1	Benton	ite Chips	☐ Bento	nite - Ceme	ent Grout
8.1	0-	☐ Granul	ar Bentonite		nite - Sand	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	Sealant	Mix Ratio or Mud Weight
3/8" Bentonite Chips		Surface	9.5	1.9 ft		mud aagidut
				6 1 1	_	
				A STATE OF THE STA		
6. Comments						
					4-20-100-110-100-100-100-100-100-100-100-	
7. Supervision of Work					ONR Use (	Only
Name of Person or Firm Doing Filling & Sealing License #	Date of Fill	ing & Sealing	(mm/dd/yyyy)	Date Received	Note	ed By
Sentine   Env. Sorvices, uc 1940	910 06/0	-	•			
P.O. Box 865		ephone Num		Comments		
City State ZII	P Code	STATE OF THE OWNER, WHEN PERSON NAMED IN	Person Doing	Work	Date	Signed
Grafton WI	53024	This	Lou		02	/16/m

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Verification Only of Fill and Seal	Route to:  Drinking Water  Waste Manageme	ent _	Watershed/W	/astewater	Remed	liation/Redevelopment
1. Well Location Information		2. Facility	/ Owner In	formation		
Mi Unique Well # of Removed Well	Hicap #	Facility Nan	FID or PWS)	Clark	#56	,2
Lattitude / Longitude (Degrees and Minutes) Meth	od Code (see instructions	License/Per	1574 mit/Monitoring	850 ear mw	-6)	
or Gov't Lot# 05	ownship Range NEO 7 N 22 W	Original We	larke	);(		
Well City, Village or Town	Well ZIP Code	Mailing Add	ress of Preser	Man ( nt Owner Sconsin	Ave.	56e#3
Milwaukee Subdivision Name	532// Lot#		worke		State	ZIP Code 53233
Reason For Removal From Service WI Unique W	ell # of Replacement Well		d piping remov	n, Casing & Sea ved?		Yes No NA
3. Well / Drillhole / Borehole Information Original Construct Original	ction Date (mm/dd/yyyy)	Liner(s) no Screen re				Yes No Man/A
Water Well	ction Report is available.		ft in place?	w surface?		Yes No NA Yes No NA
Borehole / Drillhole please attach.  Construction Type:	,	Did sealing	g material rise	e to surface?		Yes No NA Yes No NA
Drilled Driven (Sandpoint) Other (specify):	Dug	If yes	was hole reto		drated =	Yes No No NA
Formation Type:  Unconsolidated Formation Bed	rock	Condu	thod of Placing ctor Pipe-Grav ed & Poured	page 1	r Pipe-Pump	
Total Well Depth From Ground Surface (ft.) Casing	6	Sealing Mate	nite Chips) rials	A Other (Exp	olain): <b>G</b>	
	Depth (ft.)	Sand-C	ement Grout ement (Concr	ete) Grout	Bentonite-	d Slurry (11 lb./gal. wt.) -Sand Slurry " "
Was well annular space grouted?	X No Unknown	Concre		L fonitoring Well Bor	☐ Bentonite	
If yes, to what depth (feet)? Depth to Wa	rter (feet) 1.78	Benton		☐ Bente	onite - Ceme onite - Sand	ent Grout
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sack or Volume (cir	cle one)	Mix Ratio or Mud Weight
3/8 " Bentonite Chips		Surface	22	4.3 F	£ 3	
6. Comments	1					
7. Supervision of Work				T	DNR Use	Only
Sentine   Env. Services, LLC 9	40910 06/	Contract of the last of the la	7		Note	ed By
P.O. Box 865	(i	262 375	-8110	Comments		
Grafton State		Signature of	Person Doing	Work	Date 02	Signed   10   10

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Verification Only of Fill and	Seal Drinking Water	☐ Watershed/V	Vastewater R	emediation/Redevelopment
	Waste Manager	ment Other.	,	
1. Well Location Information		2. Facility / Owner In	formation	
Milway Kee WI Unique W Removed We			Clark #	562
Lattitude / Longitude (Degrees and Minu	ites) Method Code (see instruction	racility ID (FID or PWS)	850	
	. 'N	License/Permit/Monitoring		1
	'w	SVE CAR	M MW-5	)
1/1/4 NE 1/4 NE Secti	ion Township Range	Original Well Owner	2:(	
or Gov't Lot #	5 07 N 22 1	W Present Well Owner		The state of the s
Well Street Address 475 / N. Sauda	Monia Blad.	1 1	man i	
Well City, Village or Town Milwaukee	Well ZIP Code 532//		Sconsin Ave	., 56e #3
Subdivision Name	Lot#	City of Present Owner	Stat	
		Milwauke		I 53233
Reason For Removal From Service WI	Unique Well # of Replacement Well	11	n, Casing & Sealing I	
Site Closed		Pump and piping remo	ved?	Yes No NA
3. Well / Drillhole / Borehole Inform		Liner(s) removed?		☐Yes ☐No ☑N/A ☐Yes ☑No ☐N/A
Monitoring Well	al Construction Date (mm/dd/yyyy)	Screen removed?  Casing left in place?		Yes No NA
I Mater Moli	ell Construction Report is available.		w surface?	Yes No NA
	attach.	Did sealing material rise		Yes No NA
Construction Type:		Did material settle after		Dyes No DNA
Drilled Driven (Sandpoi	int) Dug	If yes, was hole ret	opped?	Dyes DNo NA
Other (specify):		If bentonite chips were a with water from a known	used, were they hydrated a safe source?	□Yes □No NA
Formation Type:		Required Method of Placin		
X Unconsolidated Formation	Bedrock	Conductor Pipe-Grav		
Total Well Depth From Ground Surface (1	t.) Casing Diameter (in.)	Screened & Poured (Bentonite Chips) Sealing Materials	Other (Explain):	13 rawri
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Neat Cement Grout	☐ Clay-	-Sand Slurry (11 lb./gal. wt.)
uaknown	unknour	Sand-Cement (Concr	rete) Grout 🔲 Benti	onite-Sand Slurry " "
Was well annular space grouted?	Yes No Unknow	n Concrete		onite Chips
If yes, to what depth (feet)?	epth to Water (feet)	For Monitoring Wells and N Bentonite Chips		Only: Cement Grout
	AT COMMUNICATION OF THE STATE O	Granular Bentonite	Bentonite - S	
5. Material Used To Fill Well / Drillhole	· · · · · · · · · · · · · · · · · · ·	From (ft.) To (ft.)	No. Yards, Sacks Seals or Volume (circle one	ant Mix Ratio or
3/8 " Bentonite Chi	05	Surface 25	4.9 ft 3	
THE PART OF THE			A STATE OF THE STA	
6. Comments				
7. Supervision of Work	,		DNR	Use Only
Name of Person or Firm Doing Filling & S		Filling & Sealing (mm/dd/yyyy	) Date Received	Noted By
Sentine   Env. Services,	uc 190910 06	102/09	Comments	L
P.O. Box 865		Telephone Number (262) 3/15-8//0	Comments	
Grafton	State ZIP Code	Signature of Person Deing	Work	Date Signed
Gratyon	WI 53024	Lave Leu	NON	02/16/10

#### Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to: 1 Remediation/Redevelopment Drinking Water Watershed/Wastewater Verification Only of Fill and Seal Waste Management Other. 1. Well Location Information Facility / Owner Information WI Unique Well # of Facility Name County Hicap # Removed Well ormer (FID or PWS Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions) License/Permit/Monitoring # Section X E lark or Gov't Lot # Well Street Address City of Present Owner State ZIP Code Subdivision Name Pump, Liner, Screen, Casing & Sealing Material WI Unique Well # of Replacement Well Reason For Removal From Service Closed Pump and piping removed? LI No Liner(s) removed? 3. Well / Drillhole / Borehole Information No. Original Construction Date (mm/dd/yyyy) Screen removed? Monitoring Well unknown Casing left in place? Water Well If a Well Construction Report is available, Was casing cut off below surface? Borehole / Drillhole please attach. Did sealing material rise to surface? Construction Type: No Did material settle after 24 hours? X Drilled Dug Driven (Sandpoint) If yes, was hole retopped? No If bentonite chips were used, were they hydrated with water from a known safe source? Other (specify): □Yes □No Required Method of Placing Sealing Material Formation Type: Conductor Pipe-Gravity Conductor Pipe-Pumped X Unconsolidated Formation Bedrock Screened & Poured M Other (Explain): Grave Casing Diameter (in.) Total Well Depth From Ground Surface (ft.) (Bentonite Chips) Sealing Materials Lower Drillhole Diameter (in.) Casing Depth (ft.) Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.) nakuowa Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Concrete Bentonite Chips X No Was well annular space grouted? Unknown or Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant Material Used To Fill Well / Drillhole From (ft.) To (ft.) or Volume (circle one) **Mud Weight** Surface Comments 7. Supervision of Work **DNR Use Only** Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing (mm/dd/yyyy) Date Received License # Noted By 102

State ZIP Code

Comments

Telephone Number

Date Signed