O M ENTERPRISES, INC.

124 West Scott Street Fond du Lac, WI 54935-2270

(262) 853 - 0712

raghuom@gmail.com

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	Date Removed
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**.

Id.	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.	Installed	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>Depth</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......
- 3. Remedial System Installation and Start-up Report, Sigma, May 1997: Page 819 to....
- 4. Status Report for the Soil and Groundwater Remediation System, Sigma, February 1998: Pag 617 to...
- Status Report for the Soil and Groundwater Remediation System, Sigma, October 1999: Page 494 to....
- 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.
- 5. 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	Date Sampled	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.

Table 2:

Summary of Soil Borings, Monitoring Wells, Tank Sump Wells, Vapor

Extraction Wells, and Recovery Wells for BRRTS # 03-41-000450

(Closed: 05-26-2010)

Table 3:

Table 2 of Sigma: Soil Sample Analytical Results

Figure 1:

Figure 6 of Sigma: Groundwater and Soil Remediation System

Groundwater Contour Map (October 2001)

Figure 2:

Figure 1 of Sigma: Soil Quality Map

Figure 3:

Figure 1 of Sigma: Soil Quality Map

Figure 4:

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

Figure 5:

Location of Proposed Soil Borings and Monitoring Wells

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)

Appendix E:

Monitoring Wells, Vapor Extraction Wells, and Recovery Wells

Construction Reports (Closed BRRTS # 03-41-000450)

Appendix F:

Closure Request of Sigma of September 12, 2002 for

Closed BRRTS # 03-41-000450

Appendix G: Well Abandonment Forms of Sentinel Environmental

of February 16, 2010 for Closed BRRTS # 03-41-000450

CC:

Mr. Amin Bhimani/Responsible Party / AYSS786@gmail.com

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-

LUST-BRRTS # 03-41-589630

Page 1 of 2

S-7 S-8	W/SW Wall SW Dispenser	8 3	FILL FILL	2 2	< 0.025 < 0.025	0.033 "J" < 0.025	< 0.025 < 0.025	0.07 0.052 "J"	< 0.025 < 0.025	< 0.025 0.041 "J"	< 0.025 0.040"J"	< 0.05 < 0.05	0.036 "J" 0.037 "J"	
9-S	W/NW Wall	8	FILL	579	< 0.025	< 0.025	< 0.025	0.053	< 0.025	< 0.025	< 0.025	< 0.05	0.036 "J"	
S-5	W/SW Wall	8	FILL	2	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.05	< 0.025	
S-4	E/SE Wall	8	FILL	2	0.040 "J"	< 0.025	< 0.025	< 0.025	< 0.025	0.036 "J"	< 0.025	< 0.05	< 0.025	
S-3	E/NE Wall	8	FILL	7	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.055 "J"	0.0257 "J"	< 0.05	< 0.025	
S-2	N/NW Wall	8	FILL	332	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.05	< 0.025	
S-1	N/NE Wall	8	FILL	9.5	0.056	0.034 "J"	< 0.025	0.112	0.055 "J"	0.098	0.113	0.168	0.072	
Sample	Location	Depth (ft.)	Soil	PID (ppm)	mdd	mdd	mdd	mdd	mdd	mdd	mdd	mdd	mdd	
RCL-GW	(mg/kg)	DF=2	Soil to GW	8	0.0051	1.57	0.027	0.6582	1.1072		1.3787		3.96	
Not-To-Exceed	D-C RCL	(mg/kg)	Industrial	*RR-106, October 2018	7.07	35.4	282	24.1	818	219	182		260	
Contaminants Not-To-Exceed Not-To-Exceed	D-C RCL	(mg/kg)	Non-Industrial	*RR-	1.6	8.02	63.8	5.52	818	219	182		260	
Contaminants	Jo	Concern			Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	m & p-Xylenes	o-Xylene	

Vote:

^{*} denotes the Wis. Admin. Code § 720 RCL Quick Reference Table: Contaminated Soil, October 2018 (RR-106)

[&]quot;J" denotes the concentration between the method of detection (MOD) and method of quantification (MOQ). Concentration in bold color indicate the concentration exceeding RCLs-GW (Soil to GW)

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

DATCP-Tank-FID # 416189

LUST-FID # 241574850

LUST-BRRTS # 03-41-589630

Page 2 of 2

		_		_	_	_	_	_	_	_	_	_	_	-
S-11	NE Dispenser	3	FILL	3	0.299	0.282	< 0.025	0.37	1.13	0.86	0.293	2.01	0.32	71.80
S-10 S	Prod. Line T SE Dispenser NE Dispenser	3	FILL	3	< 0.025	< 0.025	< 0.025	0.098	0.128	0.072	0.079	0.12	0.082	84.50
S-9 S	Prod. Line T	3	FILL	2	< 0.025	< 0.025	< 0.025	< 0.025	0.034 "J"	0.033 "J"	0.0281 "J"	"L" 790.0	0.0316 "J"	88.20
Sample	Location	Depth (ft.)	Soil	PID (ppm)	mdd	mdd	mdd	mdd	mdd	mdd	mdd	mdd	mdd	Solids %
RCL-GW	(mg/kg)	DF=2	Soil to GW	8	0.0051	1.57	0.027	0.6582	1.1072		1.3787		3.96	
Not-To-Exceed	D-C RCL	(mg/kg)	Industrial	*RR-106, October 2018	7.07	35.4	282	24.1	818	219	182		260	
Not-To-Exceed Not-To-Exceed	D-C RCL	(mg/kg)	Non-Industrial	*RR-	1.6	8.02	63.8	5.52	818	219	182		260	
Contaminants	Jo	Concern			Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	m & p-Xylenes	o-Xylene	

Note:

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

^{*} denotes the Wis. Admin. Code § 720 RCL Quick Reference Table: Contaminated Soil, October 2018 (RR-106)

[&]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)

Installed	Abandoned	Boring	Well	Well Depth	Screen	Inside Dia.	Location
Date	Date	Id.	Id.	(~ ft.)	(ft.)	(inch)	Location
6/25/1992	6/2/2009	B-1	MW-1	14.00	10.00	2.00	N of Tank Bed
6/25/1992	6/2/2009	B-2	MW-2	15.00	10.00	2.00	NE Corner of Building
6/25/1992	6/2/2009	B-3	MW-3	15.00	10.00	2.00	NE of Canopy
6/26/1992	6/2/2009	B-4	MW-4	15.00	10.00	2.00	SW Corner of Canopy
6/26/1992	6/26/1992	B-5	N/A	N/A	N/A	N/A	SE of Canopy
6/26/1992	6/26/1992	B-6	N/A	N/A	N/A	N/A	SW Corner: 4771 N. Santa Monica
9/29/1992	6/2/2009	B-7	MW-5	15.00	10.00	2.00	4771 N Santa Monica Bed.
9/29/1992	9/29/1992	B-8	N/A	N/A	N/A	N/A	W ROW of Santa Monica
9/30/1992	6/2/2009	B-9	MW-6	14.50	10.00	2.00	NW Corner of Lot
9/30/1992	9/30/1992	B-10	N/A	N/A	N/A	N/A	N of Q-1
4/13/1993	6/2/2009	B-11	MW-7	14.50	10.00	2.00	NW Corner of Lot
4/13/1993	4/13/1993	B-12	N/A	N/A	N/A	N/A	NW of MW-6
6/29/1995	6/2/2009	B-13	MW-8	15.00	10.00	2.00	NW Corner of Lot
10/9/1995	6/2/2009	B-14	MW-9	15.00	10.00	2.00	NW Corner of Lot
10/9/1995	6/2/2009	VE-1	VE-1	9.00	3.00	6.00	NW Corner of Canopy
10/9/1995	6/2/2009	VE-2	VE-2	9.00	3.00	6.00	N of Canopy
10/9/1995	6/2/2009	Q-1	Q-1	25.00	18.00	6.00	NW of Bldg. & N of Shed
10/9/1995	6/2/2009	Q-2	Q-2	24.00	18.00	6.00	N of Q-1
10/9/1995	Not Located*	Q-3	Q-3	22.00	15.00	6.00	NW of Tanks Removed in 2021
10/9/1995	6/2/2009	Q-4	Q-4	25.00	18.00	6.00	NE of MW-1
4/1/1990	3/21/2021	S-1	Tank Sun	np Well of U	STs Rem	oved in 2021	NW Corner of Former Tank Bed
4/1/1990	3/21/2021	S-2	Tank Sun	np Well of U	STs Rem	oved in 2021	NE Corner of Former Tank Bed
4/1/1990	3/21/2021	S-3	Tank Sun	np Well of U	STs Remo	oved in 2021	SE Corner of Former Tank Bed
4/1/1990	3/21/2021	S-4	Tank Sun	np Well of U	STs Reme	oved in 2021	SW Corner of Former Tank Bed

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.

^{*} Well abandonment form was not located.

Table 2 of Sigma: Soil Sample Analytical Results

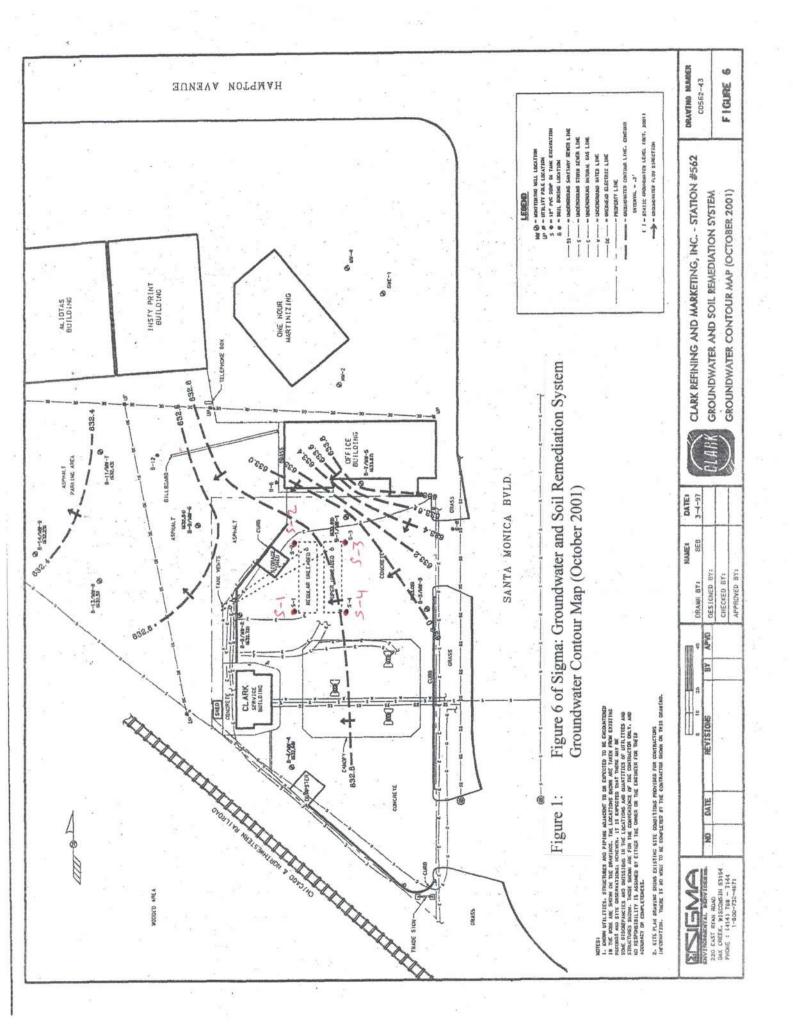
Soil Sample Analytical Results Clark Retail Enterprises Station #0562 Table 2

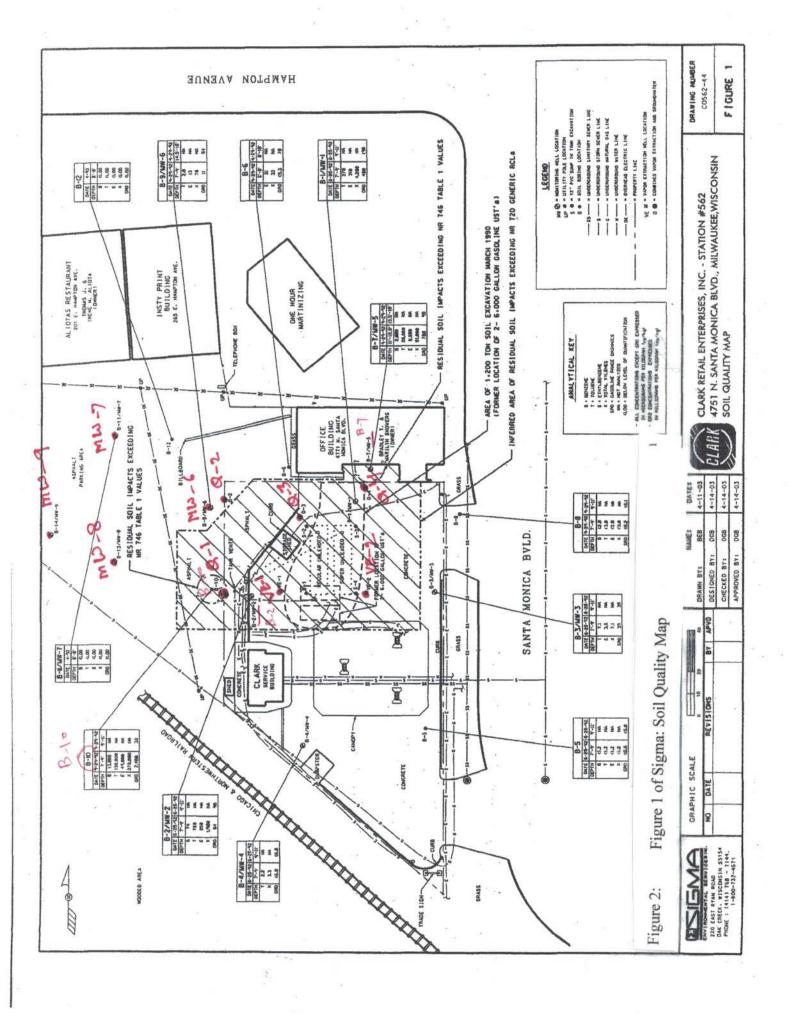
Milwaukee, Wisconsin

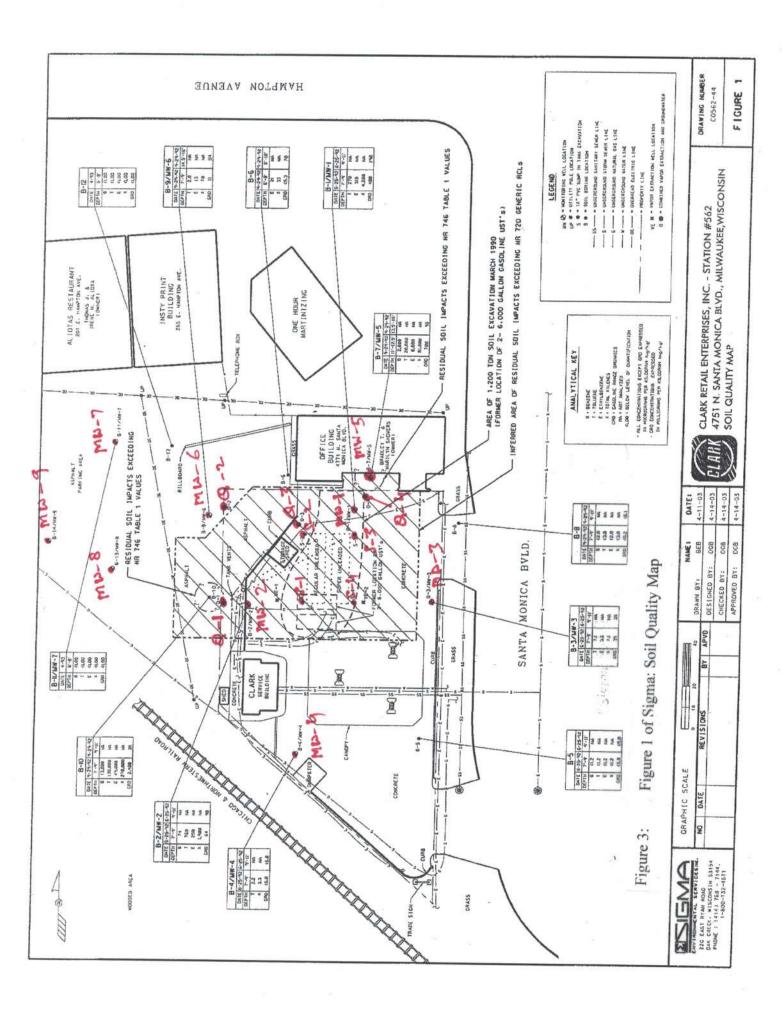
9 1.D. (CL. sable 7 sable 2 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8.50 8.50 1,70 1,70 8.50 1,70 NA NA NA NA NA	Ethyl- Total Met Met 2,900 1,500 4,100 100 100 100 100 100 100 100 100 100	Toluene	Total	Methyl-tert		-
			Toluene				013
Table 1 Table 2 Table 3 Table				Xylene	butyl ether	GRO	Lead
able 1 able 2 er-92		-	1,500	4,100	1	100	50
able 2 er-92		+	38,000	42.000	i)
er-92		-	ı				1
er-92							
er-92			270	0000	0		
er-92	,		2 4	4,700	0.0	400	€. 4.
er-92		AN OTO	Y Y	A N	AN	190	NA
er-92	*	750	760	1,900	<2.4	64	3.8
er-92	*		AN	AN	AN	96	NA
er-92	*		7.1	7.1	<1.2	39	<1.2
er-92		_	AN	A Z	AN	35	AN
er-92	1.1.	_	2.2	3,3	×1.1	<6.0	2.1
er-92	AN	NA	AN	AN	Ą	082	. VIV
per-92	<1.2	<1.2	<1.2	<1.2	<1.2	ν . ν α	2 0
ser-92	NA	NA	AN A	AN	AN	0 0	2
						70.0	WA
	< 5,0	21	0 10	8	in /		
B-6/8-10' 163.0			NA N	0 2	100	50.0	<1.1
8-7/11-12.5' 876.0	1	٩	00000	ZZ 1	AN	0/	AN
B-7/13,5-15'			20,000	27.000	200	200	1.6
		_	NA C	AN I	AN	92	NA
	7.2.7	V 2.0	0.50	<3.0	< 2.0	< 6.2	<1.2
8-9/7-9'	27	_	N C	A C	Y.	< 6.1	AN
8-9/14,5-16			7	? ;		11	<1.1
			AN	AN	A N	54	AN
	13.000	49,000	130.000	27,000		2,400	2.3
April-93	1		ZN.	NA	AN	38	NA
8-11/6-8' 2.6	<100	2017	2	001	,		8
8-12/6-8' 3.7	V-100		001	7.00	V 200	2007	9.0

<LOQ = Less than the Laboratory Level of Quantification</p> NA = Not Analyzed

i.u.i. = 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. Milwaukee, WI 53211	OM Enterprises, Inc. 124 W Scott Street Fond du Lac, WI 54935	0 19 30	3062 Date 07/24/2022	Monitoring Well Soil Boring	

East Hampton Avenue

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

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)

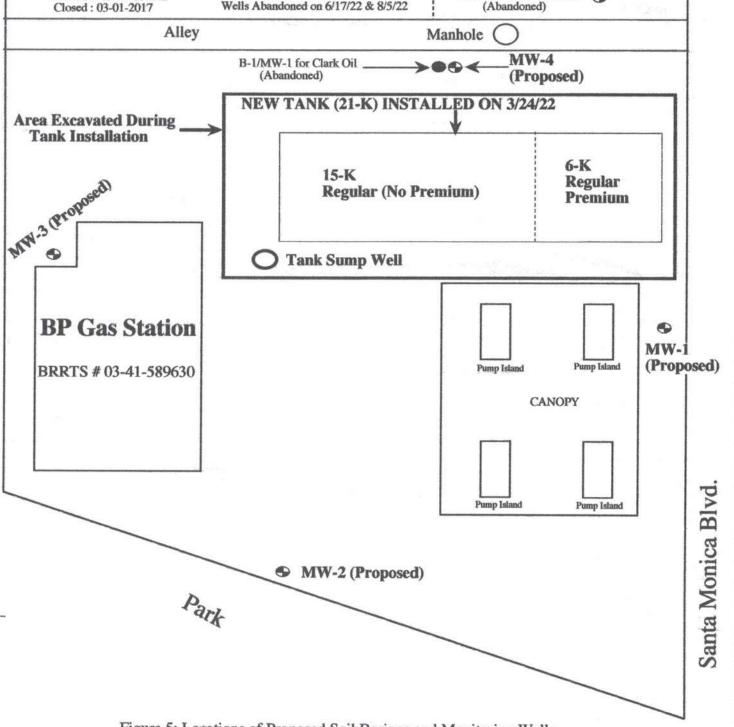


Figure 5: Locations of Proposed Soil Borings and Monitoring Wells

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	Access						10/27/2022 4:56 AM
Tank Type	Tank ID	Facility ID	Street Address	Tank Status	Tank Contents	Tank Size (Gal)	Facility Owner
County: Milwaukee County, FDID: 4020	y, FDID: 402	20					
Underground Storage Tank	57460	416189	4751 N Santa Monica Blvd	Closed/Removed	Unleaded Gasoline	6,000	Ctark 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	000'9	Clark Of Milwaukee Inc

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

Fank Details

4751 N Santa Monica Blvd Clark Of Milwaukee Inc Milwaukee WI 53211 Owner Site and Owner County & Municipality Fire Dept ID: 4020 Milwaukee County City of Milwaukee 4751 N Santa Monica Blvd Clark Of Milwaukee Inc Facility ID: 416189 Site Info Milwaukee

Dispenser Has Sumps: N

Site Anniversary Date: April 28

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

Unleaded Gasoline Not Installed Z Lining Inspected Date: Underground Piping: Overfill Protection: CAS Number Contents: Not Installed Single 6,000 Containment Sump Installed: Capacity In Gallons: Spill Protection: Date Of Lining: Wall Type: Marketer: Retail Fuel Sales Not Installed Unknown Yes Corrosion Protect Type: Federally Regulated: Overfill Prot Type: Leak Test Method: Tank Occupancy: Leak Detection: Install Date:

Coated Steel Construction Material:

ctors: Aboveground Pir	PIPING -	ed: Related Tank ID:	Piping: N Aboveground Pipe Cons:
Flex Conne		ISU	: Aboveground

Corrosion Protect Type: Construction Material:

Catastrophic Leak Detection:

Inspection Test Dates

Piping System Type:

Leak Test Method:

Pipe Wall Type:

Leak Detection:

	Test Date Test Expire Date		Inspection Type Inspection Date			Annual 11/28/2018	Annual 07/08/2020	recorrect
nspection lest Dates	Test Type	nspections	FacilityId	416189	416189	416189	416189	

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

Fank Details

4751 N Santa Monica Blvd Clark Of Milwaukee Inc Milwaukee WI 53211 Owner Site and Owner County & Municipality Milwaukee County Fire Dept ID: 4020 City of Milwaukee 4751 N Santa Monica Blvd Clark Of Milwaukee Inc Facility ID: 416189 Milwaukee Site Info

Dispenser Has Sumps: N

Site Anniversary Date: April 28

-		
1	133	
5	9	
	10	
An An and an an barrows	r	
-	5	
-	9	
C	3	
r	0	
-		
C	17	
-		
-	-	
117	•	
- 1	-	
10		
. (n	
- 1	77	
200		
-	-	
100		
- 5	D.	
82	>	
BS	-	
	J	
200		
150	12	
100	48	
ď	4	
2	-	
-	=	
	J	
199	n)	
03	7	
	Close	
	0	
1	=	
0		
1	٠	
Œ	1	
C	_	
	-	
12	z.	
130	v	
-	ď	
66	=	
8	_	
	9	
12	Ç,	
10	28	
	9	
3	402004400,	
	-	
ΒŘ	_	
	•	
-	-	
1.5	ال	
3	2	
1	2	
1	Z	
	AN	
	ZZZZ	
	ZZZZ	
	WANG DO	
	ID: 5/461.	•
	ID: 5/461.	
	ID: 5/461.	
707-1- 11 - 1- 10-1	Underground Storage Lank - ID: 5/461,	-
	Underground Storage lank - ID: 5/461,	-
	Underground Storage Lank - ID: 5/461.	
	Underground Storage Lank - ID: 5/461.	
	Underground Storage lank - ID: 5/461.	3
	Underground Storage lank - ID: 5/461.	3
	Underground Storage Lank - ID: 5/461.	1
	Underground Storage Lank - ID: 5/461.	1
	Underground Storage Lank - ID: 5/461.	1
	Underground Storage Lank - ID: 5/461.	1
	Underground Storage Lank - ID: 5/461.	1
	Underground Storage Lank - ID: 5/461.	1

Install Date:		Capacity In Gallons:	6,000	Contents:	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	Marketer:	>	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Not Installed	Overfill Protection:	Not Installed
Overfill Prot Type:	Not Installed	Containment Sump Installed:	z	Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	z
Leak Detection:	Unknown	Wall Type:	Single		

Construction Material: Coated Steel

Leak Test Method:

	C	
	à	í
	4	ä
10	C	2
133	2	2
	F	í
-8	닖	į
10	Ö	١
-		Ė

Aboveground Pipe Cons: Related Tank ID: Leak Detection: z Corrosion Protect Type: Aboveground Piping: **UST Mainfolded:** Construction Material: Flex Connectors: Type:

Catastrophic Leak Detection:

Piping System Type:

Leak Test Method:

Pipe Wall Type:

Inspection Test Dates	ites		
	Test Type	Test Date	Test Expire Date
nspections			
	Facilityld	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

Tank Details		
	Site and Owner	
Site Info	County & Municipality	Owner
Facility ID: 416189	Milwaukee County	Clark Of Milwaukee Inc
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 Ta	nk - ID: 112903, WANG ID: 4	.02005373, C	Underground Storage Tank - ID: 112903, WANG ID: 402005373, Closed/Removed as of 2022-03-21	
Install Date:	04/01/1990	Capacity In Gallons:	12,000	Contents:	Unleaded Gasolir
Tank Occupancy:	Retail Fuel Sales	Marketer:	>	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Installed	Overfill Protection:	Installed
Overfill Prot Type:	90alrm95auto	Containment Sump Installed:	z	Lining Inspected Date:	
Corrosion Protect Type:	Sacrificial Anodes	Date Of Lining:		Underground Piping:	z
Leak Detection:	Automatic Tank Gauge	Wall Type:	Single		
Leak Test Method:	Monthly Monitoring				
Construction Material:	Coated Steel				

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

Fank Details

4751 N Santa Monica Blvd Clark Of Milwaukee Inc Milwaukee WI 53211 Owner Site and Owner County & Municipality Fire Dept ID: 4020 Milwaukee County City of Milwaukee 4751 N Santa Monica Blvd Clark Of Milwaukee Inc Facility ID: 416189 Site Info Milwaukee

Site Anniversary Date: April 28

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

Dispenser Has Sumps: N

Unleaded Gasoline Installed Z Lining Inspected Date: Underground Piping: Overfill Protection: CAS Number Contents: Installed 12,000 Single Containment Sump Installed: Capacity In Gallons: Spill Protection: Date Of Lining: Wall Type: Marketer: Automatic Tank Gauge Sacrificial Anodes Retail Fuel Sales 90alrm95auto 04/01/1990 Yes Corrosion Protect Type: Federally Regulated: Overfill Prot Type: Tank Occupancy: Leak Detection: Install Date:

Coated Steel Construction Material:

Monthly Monitoring

Leak Test Method:

	Related Tank ID:	Aboveground Pipe Cons:
IPING .		z
	UST Mainfolded:	Aboveground Piping:
	Flex Connectors:	Type:

Corrosion Protect Type:

Catastrophic Leak Detection:

Construction Material:

Piping System Type:

Leak Test Method:

Pipe Wall Type:

Leak Detection:

	Test Date Test Expire Date		Inspection Type Inspection Date		Annual 07/11/2017			FCOCI POTOO
Inspection Test Dates	Test Type	spections	FacilityId	416189	416189	416189	416189	COPORT

Site Info Facility ID: 416189 Clark Of Milwaukee Inc 4751 N Santa Monica Blvd		County & Municipality		Owner Clark Of Milwankee Inc	
Facility ID: 416189 Clark Of Milwaukee Inc 4751 N Santa Monica Blvd		county a municipanty		Clark Of Milwankee Inc	
Clark Of Milwaukee Inc 4751 N Santa Monica Blvd		Milwaukee County		CIGIN OF WHIWAUNDS INC	
4751 N Santa Monica Blvd		City of Milwaukee		4751 N Santa Monica Blvd	
		Fire Dept ID: 4020		Milwaukee	
Milwaukee				WI 53211	
Site Anniversary Date: April 28		Dispenser Has Sumps: N			
	Undergr	Underground Storage Tank - ID: 238503, WANG ID: , Install Pending	3, WANG ID:,	Install Pending	
Install Date:	03/24/2022	Capacity In Gallons:	15,000	Contents:	Unleaded Gasoline
Tank Occupancy:	Retail Fuel Sales	Marketer:	>	CAS Number	
Federally Regulated:	Yes	Spill Protection:	Installed	Overfill Protection:	Installed
Overfill Prot Type:	90alrm95auto	Containment Sump Installed:	z	Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	z
Leak Detection:	Interstitial Monitor - Electronic	Wall Type:	Double		
Leak Test Method:	Monthly Monitoring				
Construction Material:	Fiberglass or Poly				
		- biping -			
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:	
Inspection Test Dates					
Te	Test Type	Test Date		Test Ex	Test Expire Date
Inspections					
Fa	FacilityId	Inspection Type	ed/	pedsul	Inspection Date
4	416189	Annual		0/90	05/09/2016
4	416189	Annual		1/10	07/11/2017
4	416189	Annual		11/2	11/28/2018
4	416189	Annual		07/0	07/08/2020
4	416189	Annual		0/80	08/04/2021

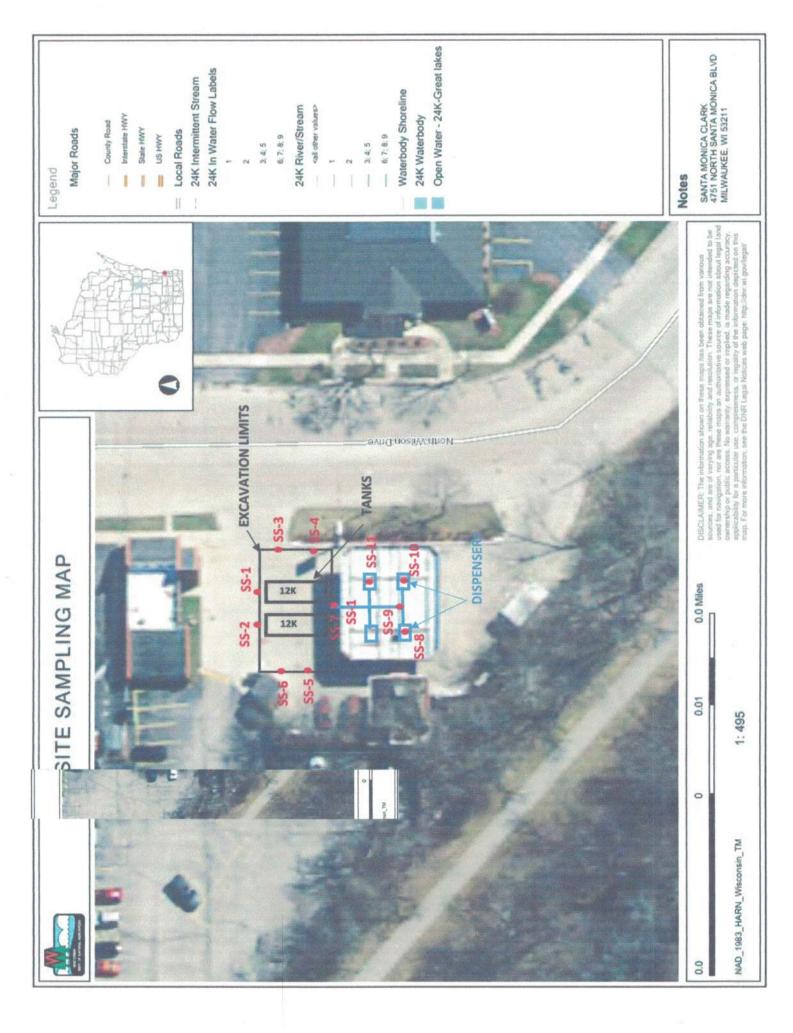
To go back to your search results please click the back arrow ⊕ in the above Toolbar

Tank Details

		Site and Owner	ner		
Site Info		County & Municipality		Owner	
Facility ID: 416189		Milwaukee County		Clark Of Milwaukee Inc	
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			
	Undergi	Underground Storage Tank - ID: 238505, WANG ID: , Install Pending	05, WANG ID: ,	Install Pending	
Install Date: 03/2	03/24/2022	Capacity In Gallons:	0000'9	Contents:	Unleaded Gasoline
Tank Occupancy: Reta	Retail Fuel Sales	Marketer:	>	CAS Number	
Federally Regulated: Yes		Spill Protection:	Installed	Overfill Protection:	Installed
Overfill Prot Type: 90al	90alrm95auto	Containment Sump Installed:	z	Lining Inspected Date:	
Corrosion Protect Type:		Date Of Lining:		Underground Piping:	z
Leak Detection: Inter	Interstitial Monitor - Electronic	Wall Type:	Double		
Leak Test Method: Mon	Monthly Monitoring				
Construction Material: Fibe	Fiberglass or Poly				
		- 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:	
Inspection Test Dates					
Test Type	Гуре	Test Date	9	Test E	Test Expire Date
Inspections					· · · · · · · · · · · · · · · · · · ·
Facilityld	tyld	Inspection Type	ype	pedsul	Inspection Date
416189	89	Annual		0/90	05/09/2016
416189	89	Annual		1/10	07/11/2017
416189	89	Annual		11/2	11/28/2018
416189	89	Annual		0/20	07/08/2020
607077	00			0/00	1000110001

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

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.





Customer Service: (800) 963-4776

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

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.

3<

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



WASTE MANAGEMENT OF WISCONSIN, INC.

PO BOX 42390 PHOENIX, AZ 85080 (800) 963-4776 TSCMIDWEST@WM.COM

Invoice Date	Invoice Number	Customer ID (Include with your payment)
04/01/2022	0064091-2286-5	8-99196-03009
Payment Terms	Total Due	Amount
Total Due by 04/30/2022	\$20,504.06	
Total Due by 04/30/2022	\$20,504.06	

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 0.00
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 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	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
/ehicle#: 72 */O#:WALTS SANTA MONICA P */Jnspecified material, bioremediated, daily cover, *VASTE WATER MANAGEMENT TON UEL SURCHARGE TON NVIRONMENTAL FEE TON *rofile # 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 Manifest#: NA Ticket Total				Measure	Altra management of the second	0.00 0.00 570.71
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	2057917	20.24 20.24 20.24 20.24	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 485.76 22.26 25.30 35.42 0.00 0.00 568.74
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	2057920	22.34 22.34 22.34 22.34	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 536.16 24.57 27.93 39.10 0.00 0.00 0.00
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 Ficket Total	03/22/22	2057971	24.37 24.37 24.37 24.37	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 584.88 26.81 30.46 42.65 0.00 0.00 0.00
Vehicle#: 72 PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover, VASTE WATER MANAGEMENT TON UEL SURCHARGE TON NVIRONMENTAL FEE TON Irofile # BIO136932WI ienerator SANTA MONICA CLARK Anifest#: na icket Total	03/22/22	2057973	19.25 19.25 19.25 19.25	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 462.00 21.18 24.06 33.69 0.00 0.00 540.93
Cehicle#: 57 O#:WALTS SANTA MONICA P Inspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON UEL SURCHARGE TON NVIRONMENTAL FEE TON rofile # BIO136932WI enerator SANTA MONICA CLARK lanifest#: na icket Total	03/22/22	2057975	21.34 21.34 21.34 21.34	TON TON TON TON	24.00 1.10 1.25 1.75	0.00 0.00 512.16 23.47 26.68 37.35 0.00 0.00 0.00 599.66

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 20.61	TON TON	24.00 1.10	494.64 22.67
FUEL SURCHARGE TON ENVIRONMENTAL FEE TON			20.61 20.61	TON	1.25 1.75	25.76 36.07
Profile # BIO136932WI Generator SANTA MONICA CLARK			20.01	TON	1.73	0.00
Manifest#: na						0.00
Ticket Total						579.14
Vehicle#: 9	03/22/22	2057980				0.00
PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover,			21.99	TON	24.00	0.00 527.76
WASTE WATER MANAGEMENT TON FUEL SURCHARGE TON			21.99	TON	1.10	24.19
ENVIRONMENTAL FEE TON			21.99 21.99	TON	1.25 1.75	27.49 38.48
Profile # BIO136932WI Generator SANTA MONICA CLARK						0.00
Manifest#: NA						0.00
Ticket Total						617.92
Vehicle#; 74 PO#:WALTS SANTA MONICA P	03/23/22	2058084				0.00
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON			20.54	TON	24.00	0.00 492.96
FUEL SURCHARGE TON			20.54	TON	1.10 1.25	22.59 25.68
ENVIRONMENTAL FEE TON Profile # BIO136932WI			20.54	TON	1.75	35.95
Generator SANTA MONICA CLARK						0.00
Manifest#: na Ticket Total						0.00 577.18
Vehicle#: 57	03/23/22	2058089				
PO#:WALTS SANTA MONICA P Unspecified material, bioremediated, daily cover,				2,500,00		0.00
WASTE WATER MANAGEMENT TON			23.32	TON	24.00	559.68 25.65
FUEL SURCHARGE TON ENVIRONMENTAL FEE TON			23.32	TON	1.25	29.15
Profile # BIO136932WI			25.32	TON	1.75	40.81 0.00
Generator SANTA MONICA CLARK Manifest#: NA						0.00
Ficket Total						655.29
/ehicle#: 59 PO#:WALTS SANTA MONICA P	03/23/22	2058092				0.00
Inspecified material, bioremediated, daily cover,			20.34	TON	24.00	0.00 488.16
VASTE WATER MANAGEMENT TON TUEL SURCHARGE TON			20.34	TON	1.10	22.37
NVIRONMENTAL FEE TON			20.34	TON	1.25 1.75	25.43 35.60
Profile # BIO136932WI Generator SANTA MONICA CLARK						0.00
Aanifest#: NA Ticket Total			1			0.00
						571.56
'ehicle#: 74 'O#:WALTS SANTA MONICA P	03/23/22	2058127			-	0.00
Inspecified material, bioremediated, daily cover, VASTE WATER MANAGEMENT TON			22.89	TON	24.00	0.00 549.36
UEL SURCHARGE TON			22.89 22.89	TON	1.10 1.25	25.18
NVIRONMENTAL FEE TON rofile # BIO136932WI			22.89	TON	1.75	28.61 40.06
enerator SANTA MONICA CLARK						0.00
Aanifest#: NA icket Total						0.00
						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	Rate	Amount
Vehicle#: 57	03/23/22	2058130	CHES AND	Measure	2-91-5240-50-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	0.00
PO#:WALTS SANTA MONICA P	0.0000000000000000000000000000000000000	The Median William				0.00
Unspecified material, bioremediated, daily cover,			22.63	TON	24.00	543.12
WASTE WATER MANAGEMENT TON			22.63	TON	1.10	24.89
FUEL SURCHARGE TON			22.63	TON	1.25	28.29
ENVIRONMENTAL FEE TON			22.63	TON	1.75	39.60
Profile # BIO136932WI						0.00
Generator SANTA MONICA CLARK Manifest#: NA						0.00
Ticket Total						0.00
Ticket Total						635.90
Vehicle#: 59	03/23/22	2058139				0.00
PO#:WALTS SANTA MONICA P	2 32					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			21.02	TON	1.25	26.28
ENVIRONMENTAL FEE TON Profile # BIO136932WI			21.02	TON	1.75	36.79
Generator SANTA MONICA CLARK						0.00
Manifest#: na						0.00
Ticket Total						0.00 590.67
Validation O						390.07
Vehicle#: 9 PO#:WALTS SANTA MONICA P	03/23/22	2058147				0.00
Unspecified material, bioremediated, daily cover,			40.00		82787832	0.00
WASTE WATER MANAGEMENT TON			19.99	TON	24.00	479.76
FUEL SURCHARGE TON			19.99 19.99	TON	1.10	21.99
ENVIRONMENTAL FEE TON			19.99	TON	1.25 1.75	24.99
Profile # BIO136932WI			13.33	1014	1.73	34.98 0.00
Generator SANTA MONICA CLARK						0.00
Manifest#: na						0.00
Ticket Total		1				561.72
Vehicle#: 74	03/23/22	2058172				0.00
PO#:WALTS SANTA MONICA P	,					0.00
Unspecified material, bioremediated, daily cover,		1	21.59	TON	24.00	518.16
WASTE WATER MANAGEMENT TON			21.59	TON	1.10	23.75
FUEL SURCHARGE TON			21.59	TON	1.25	26.99
ENVIRONMENTAL FEE TON			21.59	TON	1.75	37.78
Profile # BIO136932WI						0.00
Generator SANTA MONICA CLARK Manifest#: na						0.00
Ticket Total				1		0.00
Texter Total	1					606.68
/ehicle#: 57	03/23/22	2058175				0.00
PO#:WALTS SANTA MONICA P			10 wiles X-10 x 201	7.000acona 11		0.00
Inspecified material, bioremediated, daily cover, VASTE WATER MANAGEMENT TON			22.08	TON	24.00	529.92
UEL SURCHARGE TON			22.08	TON	1.10	24.29
NVIRONMENTAL FEE TON			22.08	TON	1.25	27.60
Profile # BIO136932WI			22.08	TON	1.75	38.64
Generator SANTA MONICA CLARK			- 1			0.00
Aanifest#: na						0.00
icket Total						0.00 620.45
/ehicle#: 68	02/22/22	2050422				020.43
O#:WALTS SANTA MONICA P	03/23/22	2058180				0.00
Inspecified material, bioremediated, daily cover.			18.69	TON	24.00	0.00 448.56

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	Rate	Amount
WASTE WATER MANAGEMENT TON	NEWS CENTRAL PROPERTY.		18.69	Measure TON	1.10	20.56
FUEL SURCHARGE TON			18.69	TON	1.25	23.36
ENVIRONMENTAL FEE TON			18.69	TON	1.75	32.71
Profile # BIO136932WI						0.00
Generator SANTA MONICA CLARK Manifest#: na						0.00
Ticket Total						0.00 525.19
Vehicle#: 9	03/23/22	2058191				
PO#:WALTS SANTA MONICA P	03/23/22	2030131				0.00
Unspecified material, bioremediated, daily cover,			19.18	TON	24.00	460.32
WASTE WATER MANAGEMENT TON	1		19.18	TON	1.10	21.10
FUEL SURCHARGE TON			19.18	TON	1.25	23.98
ENVIRONMENTAL FEE TON Profile # BIO136932WI			19.18	TON	1.75	33.57
Generator SANTA MONICA CLARK						0.00
Manifest#: na	_ 1					0.00
Ticket Total						0.00 538.97
Vehicle#: 74	03/23/22	2058221				0.00
PO#:WALTS SANTA MONICA P	111224172316335	10.000 to 0.000 to 0.				0.00
Unspecified material, bioremediated, daily cover,			14.75	TON	24.00	354.00
WASTE WATER MANAGEMENT TON			14.75	TON	1.10	16.23
FUEL SURCHARGE TON ENVIRONMENTAL FEE TON			14.75	TON	1.25	18.44
Profile # BIO136932WI		1	14.75	TON	1.75	25.81
Generator SANTA MONICA CLARK						0.00
Manifest#: NA						0.00
Ticket Total						414.48
/ehicle#: 57	03/23/22	2058231				0.00
PO#:WALTS SANTA MONICA P						0.00
Unspecified material, bioremediated, daily cover, WASTE WATER MANAGEMENT TON			20.08	TON	24.00	481.92
FUEL SURCHARGE TON			20.08	TON	1.10	22.09
ENVIRONMENTAL FEE TON			20.08	TON	1.25 1.75	25.10
Profile # BIO136932WI			20.00	TON	1,75	35.14 0.00
Generator SANTA MONICA CLARK						0.00
Manifest#: na Ficket Total						0.00
						564.25
Vehicle#: 59 PO#:WALTS SANTA MONICA P	03/23/22	2058311				0.00
Inspecified material, bioremediated, daily cover,			19.97	TON	24.00	0.00
VASTE WATER MANAGEMENT TON			19.97	TON	1.10	479.28 21.97
UEL SURCHARGE TON			19.97	TON	1.25	24.96
NVIRONMENTAL FEE TON			19.97	TON	1.75	34.95
rofile # BIO136932WI enerator SANTA MONICA CLARK						0.00
Aanifest#: NA						0.00
icket Total						0.00 561.16
ehicle#: 74	03/23/22	2058316				
O#:WALTS SANTA MONICA P	,	-12224 19				0.00
nspecified material, bioremediated, daily cover,			18.21	TON	24.00	437.04
/ASTE WATER MANAGEMENT TON JEL SURCHARGE TON			18.21	TON	1.10	20.03
VVIRONMENTAL FEE TON			18.21	TON	1.25	22.76
rofile # BIO136932WI			18.21	TON	1.75	31.87
enerator SANTA MONICA CLARK						0.00
Nanifest#: NA						0.00
icket Total						511.70
ehicle#: 57 O#:WALTS SANTA MONICA P	03/23/22	2058318				0.00
nspecified material, bioremediated, daily cover,					282200000	0.00
ASTE WATER MANAGEMENT TON			20.14	TON	24.00	483.36
The state of the s			20.14	TON	1.10	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:

Customer ID:

8-99196-03009

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

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		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

Foth & Van Dyke

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:

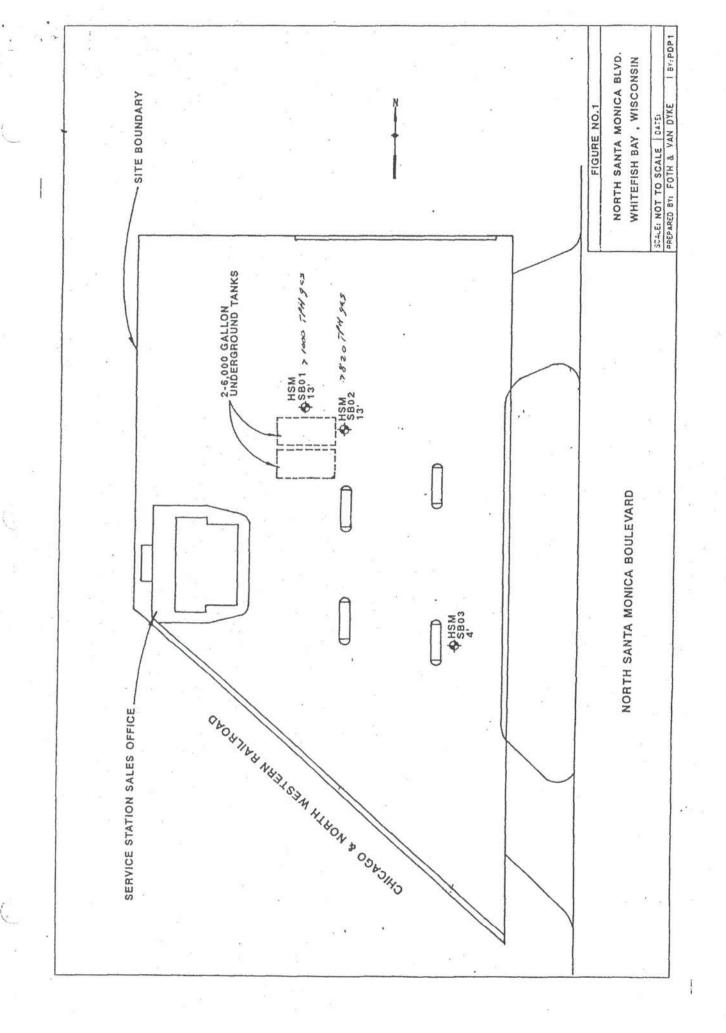
- Survey of the site using a metal detector to determine location of underground storage tanks and pipes.
- Drilling of two soil borings to a depth of 13 feet and one soil boring to a depth of 4 feet with samples collected from each boring and monitored in the field using an organic vapor detector.
- 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			
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

TPH

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

ISEP 2 8 1989

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

D.N.R. Scu nqus. 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 Rep	port - Case Tracking		
Activity Number: Activity Type:		RECEIV	Transferred to: DCOM Number	✓ DCOM	ste DATCP
Activity Name:	CLARK OIL STATION #562	MAR 1 8 2	2003		
Activity Address:		ERS DIVISIO		41574850	
Location Name:	CLARK OIL STATION #562		EPA ID:		
Location Address:	4751 N SANTA MONICA BI	LVD	Start Date: 09/28/1989	End Date: OF	FN
Municipality:	WHITEFISH BAY		Project Manager:		2.11
Priority:		Score: 38.00	LUST Trust Eligible: FEDERA	T	
Comments:		13.34.2.5	The state of the s	_	
ctivity Geo Location	n:				
Legal Desc:	None Found				
Latitude:	None Found		Longitude: None Found		
HWIMS Geo Locati	ion:			×	
Legal Desc:				**	
	None Found		Longitude: None Found		
VPLE Gen Prop	H 14	✓ Co-Contamination ✓ Tracked by DCOM	PECFA Eligible PECFA 80K	PECFA 80K	Failure
Who:	RESPONSIBLE PARTY	6	Di (724) (42 (125		
Name:			Phone: (734) 669-6155 Fax: (734) 668-9631	Ext:	
Title:			E-Mail: eric.larson@clar	kretail.com	
	CLARK RETAIL ENTERPRI ATTN ERIC LARSON 601 S MAIN ST ANN ARBOR, MI 48104	SES	×		
Contact Type:	CONSULTANT		Phone: (414) 768-7144	Ext:	
Name:			Fax: (414) 768-7158	200.51	
Title:			E-Mail:		
Address:	SIGMA ENVIRONMENTAL 220 E RYAN RD OAK CREEK, WI 53154	SERVICES INC	·		
	Watermany TTA JJIJT		50		

Impacts:

Soil Contamination

Groundwater Contamination

Free Product

Co-contamination

Risk:

Medium Risk

Assigned: 03/12/2003

Substances:

Gasoline - Leaded

Gasoline - Unleaded

Actions:

1

Notification

09/28/1989

Bureau for Remediation and Redevelopment Activity Detail Report - Case Tracking

Action	61	
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 Miscellaneous/2	09/05/1995
43	REC'D LETTER ABOUT REMEDIAL SYSTEMS OPERATION Status Report Received/3	
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	09/17/2002 9/20/02 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 DETERM	11/05/2002 IINATION
76	Activity Transferred to DCOM	03/12/2003

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

100 1 2	11574850
UID Number: 450 FID Number: 2	PMN Number:
County: 41	- Initial Contact Date: 9.28.89
Site Name: Clark Oil Station # 562	_ Date RPLetter Sent:
Address: 4751 N. Santon Manica	Date Closure Approved:
	A The Ball to the state of the
Municipality:	- Person/Firm Reporting:
Lagai Descript: 1/4 1/4 sec N R E	W)
Lat: Long:	Phone Number: ()
Priority Screening Scoring Criteria Funding S	RP
F) Free Product Removal E) RP Emergency Response R) LTF Emergency Response L) Long Term Monitoring	
Responsible Party Maureen Turman	Impacts
Company Name: Clas & Refining + Marketing,	Enter "P" for potential and "K" for known
Contact Person: 1307 Butter field Rd Suite 4	
Address: Nowhers Grove ILM	(2) Contaminated Private Well(s, #of Wells
Thomas Viumner 108 434-5300 4×6	(3) Contaminated Public Well
Phone Number: 108 . 434-5300 9×6	(4) Groundwater Contamination
CC's	
The second secon	(6) Other:
- A 855 uni	(7) Surface Water Impacts
	(9) Floating Product
Consument	Substances #Tank(s) Size
Company Name: Syma	
Conmat Name:	(1) Leaded Gas
Address:	(3) Diesei
	— (4) Fuel Oil — — — — — — — — — — — — — — — — — — —
Telephone:	(8) Other —
[Crossone:	- (12) Waste Oil -

CONKOIL #562 241574850 ERR-LUST

ID#	FID#	ACTION	ACTION DATE	ACTION COMMENTS
		27	z-h4/94	
		37	321111	
		39	8/2/95	
		40	3 12/94 8/2/95 8/29/95	
	**		=	
	· · · · · · · · · · · · · · · · · · ·			
	and Modern and Administration			a 8
				(8)
				×

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 Appvd*
23 = Referral to DOJ*	41 = RA Report Rec'd*
30 = Notice to Proceed*	42 = RA Report Appvd*
31 = Tnk Cls/SA Workplan Rec'd	43 = Status Reports*
40 m t ou in i iii i	2012년(1) (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1)

32 = Tnk Cls/SA Workplan Appvd 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	TVDE		,,	REC	DESCRIPTION OF WATERIAL		UNCONFINED	MOTOTURE	DID	DRILLING AND SAMPLING NOTE
	INTERVAL	ITPE	#	N	(1n)			STRENGTH	MO1210KE	ILID.	SAMPLING NOTE
- 0.0						REBAR CONCRETE ' 0.5"					4 A
	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						STRONG ODOR					
	5.0-6.5	SS	2	21	18	M. DENSE, TAN F. SAND W/ TR. SILT, STRONG ODOR-FILL	hf		DRY	400.	18
	7.5-9.0	ss	3	19		M. DENSE, TAN TO GRAY CLAYEY SAND	sc		SL. MOIST	750.	
10.0					24	W/ SOME SILT, V. STRONG ODOR	8				
	10.0-12.0	SS	4	10	24	STIFF TAN CLAY, SOME F. SAND	cl		SL.MOIST	849.	
	12.0-13.0	ss	5	6	12	AS ABOVE			SL. MOIST	350.	T=1520
15.0						E.O.B. 13.0'	1 1		S.D.S.FIFFICE STREET		ID NO. HSMSB01 TIP=85.0 ppm I
15.0											AUGER
27								S 5	1 15		
							1				
20.0									7		
						4					
25.0						*	. 0			İ	
						0.0		mn (154
30.0						×		19			
											3
35.0											
						× ×					
						30 0 0					
									10		
40.0											
						9.5					
		-				~					
45.0				l							
		- 2				-					
50.0						14 H					
						* * * * *					
55.0											

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:

EPTH FR	SAMP DEPTH INTERVAL	TYPE	#	N	REC (in)	DESCRIPTION OF MATERIAL	CLASS	UNCONFINED STRENGTH	MOISTURE	PID	DRILLING AND SAMPLING NOTE
- 0.0				i		REBAR CONCRETE 0.5"				i i	
	2.5-4.0	ss	1	5	18	LOOSE, M. TO C. SAND & GRAVEL FILL	hf	*	DRY	65.0	
- 5.0						BROWN, ODOR, FEW GLASS SHARDS		24			
	5.0-6.5	SS	2	21		M. DENSE, TAN F. SAND, STRONG ODOR	hf 		DRY	352.	- X
10.0	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	sm		SL.MOIST	1370	
	12.0-13.0	SS	5	9	12	CLAY, V. STRONG ODOR AS ABOVE		-	SL. MOIST	1296	T=1610 ID NO. HSMSB02
15.0						E.O.B. 13.0'					
						2.14					
20.0	W								, -		23
-	# 5										
25.0						-					
l				2.4		a 2					
30.0						n					
30.0											
						0002 41 pr					
35.0											
40.0											
45.0											
						2					
50.0						³ a					
,,,,											
55.0							İ				

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	10.12002	CLASS	UNCONFINED STRENGTH	MOISTURE	PID	DRILLING AND SAMPLING NOTES
- 0.0	0.5-2.0	SS	1 2	15		REBAR CONCRETE SOFT, BROWN CLAY SOME GLASS SHARDS M. DENSE, TAN TO GRAYEL	& C. GRAVEL, , FILL WHITE SAND &	0.5" ODOR	hf hf	0.25	DRY DRY	20.0	T=1650 ID NO. HSMSBO3-
5.0						MANAGE	E.O.B.	4.01		536	*		10 10 11313603
10.0										j	ar A		6 K
15.0	BC BC					* * * * * * * * * * * * * * * * * * *					ld.		A 2
20.0	7 2					278 278						15	
	•					200	8				-		
25.0						9 V					8.0		
30.0	8					x *1							
35.0	-1					i n							
40.0	5												
45.0					-								
50.0				, 1					8				
55.0													

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: LATER TIME/DEPTH: LATER TIME/DEPTH: CAVE-IN DEPTH:

State of Wisconsin

Department of Natural Resources (608) 266-3232

State Div. Emergency Gov't. U.S. Nat'l. Response Center Chemtrec/Pesticides/Chlorine

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

Spill ID Number 890928-06

		U.S. Nat'l. Resp Chemtrec/Pestic		(800) 424-8802	Spill ID Number			
		Chemica de la estac	ades/Cinorine	(800) 424-9300	Y Y M M D D 0-99			
Date of Incident	Day of Week	Time of Incident	□ A.M. □ P.M.	Reported By (Name)	Telephone Number			
Date Reported	Day of Week	Time Reported	gg	A				
9/28/00				Agency or Firm Reporting				
Substance Involved	Inun		P.M.	toth & Van Dy	NC 1 100 D INC			
Substance involved		Quantity	Units	Person or Firm Responsible				
Substance Involved		Quantity	Units	Clark Oil C	-omipoiny			
			Units	Contact Name	Telephone Number			
Physical Characteris	stics	580.32		Address - Street or Route				
☐ Solid	☐ Liquid	Colen		9451 N. 107	m Street			
		Color	101355	City, State, Zip Code				
L Semisolid	LI Gas	Odor		Milwankee	. WT 53202			
Cause of Incident	1.11			Action Taken By Spiller				
2-101	2051		tre livres and	No Action	No			
Exact Location Des			whitetish	☐ Taken ☐	Notification Investigate			
451 4/51		longer Ave	Beir	Containment; Type				
County Location	1/41/4, 1/4, Section	on, Town, Range		Cleanup; Method				
10-1				Amount Recovered	3 - 2 N			
Milwaukee	The state of the s	, TN	R	Monitor	88 9			
DNR Dist DNR Are				P. C.	F4 , 50 12 12 12 12 12 12 12 12 12 12 12 12 12			
DED MIL	Yes	□ No ☒ Pot		Contractor Hired; Name	TOTAL PARE			
Surface Waters Affe	A CONTRACTOR OF THE PERSON OF	Name of Surface	Water	U Other Action	2300			
☐ Yes ☐ No Date District	Potential		Company (C	Spill Location	EE 8 V			
Notified	Day of Week	Time District Not		Industrial Facility/Paper	er Mill/Chem. Co.			
9/28/89	The Research		A.M.	Gas/Service Station/Garage, Auto Dealer, Repair Shop Gas/Service Station/Garage, Auto Dealer, Repair Shop Gas/Service Station/Garage, Auto Dealer, Repair Shop Other Small Business (bank, grocery, insurance co., etc.)				
District Person Noti	fied	Tolomboon Novelle	L P.M.					
District Ferson Noti	ned	Telephone Numbe						
Date Investigated	Day of Week	Time Investigated		J	ounty, state, church, school, etc.)			
		The Investigated	☐ A.M.					
			□ P.M.					
Person Investigating	in a second second	Telephone Numbe		Private Property (home				
		()	6		k Farm, Oil Jobber/Wholesaler			
Action Taken By DN	VR				t, Fuel Supply Tank Spill			
No Action		Superv	vise/Conduct	Transportation Acciden				
L Taken	Investigat			Construction, Excavation	on, Wrecking, Quarry, Mine			
Spiller Required	To			Other				
Take Action; Typ	oe			Spilled Substance Destination	m ·			
Contractor Hired				L Air				
☐ By DNR; Name				Soil				
Amount Recover	ed			Groundwater				
29.29 Enforceme	nt		-1	☐ Surface Water				
Other Agencies on So		ENTERNATION CO	MONTH AND DESCRIPTION	Storm Sewer	La Wayaya Ha			
				Sanitary Sewer				
Local				☐ Contained/Recovered				
				Other				
State	4-17	医肾经验 医毒素		Person Filing This Report (p	rint name)			
				2 14 13	ker			
Federal		March L. Pak		Signature	Date Signed			
Additional C				Jul Do	11/17/89			
Additional Comments	A CONTRACTOR OF THE PARTY OF TH	HILL TO THE REAL PROPERTY.	The injuries it.					
9/28/8	501	borings L	vere 1	collected to e	violuate Site			
0 11 1	-1 10							
Condition.	Sygnitice	unt contain	incition	was discove	re)			

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

racimy/roject_vame	Спа Цжиноп			™ ±100-113A Weil Name	3-39	1
Clark # 562	,	ft. 🗆	М. □ 3.	B-1/M	w/~1	
Pamury License, Permit or Montaning Number			E. C.W.	WIS UNIQUE: Well You	mper : Na	vett:iv
Vice of West War 11/2			5. U.W.	- Technicity		Post-ogg
ype of Weil Water Taois Observanon Weil SIII	Section Location	2//		Late Well Installed		-
Distance Weil is From WasterSource Soundary	NE 1/2 NE	1/4 of Section	5		유 (2 등	197
35.0 4	T_7 N. R 22	- SEOW		West installed By: (Pe	rzon s Name me	d. rum;
Weil A Point of Entorcement Str. Application?	Location of West Keists Upgradient	ne to Mazitanon	rça	OSI ENUI	Ronment	Phyline.
Z.Yz C No	☐ Downgratient	☐ Not Kn		(*)		200000000000000000000000000000000000000
The state of the s	L MSL	7400	L. Cap and .o	av 3		
		=	2 Protective	() ()	82	Yas C
. Weil casing, top elevation	L MSL	10	a. Inside di	, and many from		
Luni surface elevation f	MSL		b. Longin	Mount		70.
. Surface seal, bostom AMSL or	the observation		c. Materiali		Ste	
2 USCS cinssification of soil near screen:			_	Agra		
	January	A STATE OF THE PARTY OF THE PAR		si protection?		(s [
E-SM CISC CIML CIMECO COSP	/ / %	18/	If yes, de	scriber		_
Li Secrecie	\	國 \ \3	- Surface seni		Bentoni	
S. Sieve analysis amsched? C Ys SN	, \				Concr	
Drilling method used: Rotary SL 5	o \		Mareni 'w	ween weil cosing and pro	Oth	
Hollow Stem Auger 🔲 4	1 \			week were entered and but	Bernoni	in 67
Other 🗆 🚆				, de	Annular space se	
Drilling fluid used: Water 🗆 02 Air 🗀 0	,			E.	337.5	= O
Drilling Mud 203 None 5.9	9	■ 5.	Amuiz sça		esnuiar Bensonia	
7				gai must weight Ben		
Drilling additives used?				gai mud weight	Bentonite shur	7 🗆
Committee NA	O i Oi	5.	-/-	Benne	nite-cernent grou	шП
Source of water (attach analysis):	#		How installed	_Fr ³ volume added for	my of the above	
1			10 See 50 S		Tramis pumped	-
N/A	#			0 4 1	Gravity	
		6.	Bentonita san	E Bo	entonica granules	P. 170 C. T. P.
Semionius seni. top in MSL or1	.º ft.			₩3/8 in. □1/2 in. 1		
					Cther	
the sand, top in MSL or 2		7.1	Fine sami m	Manufacturer, p	militar mama and	mesh
7	1 14 1		7	TIOO TILTER	SAND	_
iter pack, top it MSL or3	0 0		Volume acces	ft	J	
eil screen, top i MSL or	n . \ I	F -8-3		nerial: Manufacuner. p		mesin
not one order one one case one allegated the majorists of		/ .		#30 FILTER		-
I screen, bottom = MSL or 14	Construction of the last of th		Volume sadea Well casma:	- Carried Company of the Company of		-
		4	went cracia:	Finsin threated PV Finsin threated PV		
iter pack bostom ft MSL or 14	D t			PHISH WICHEST PY	Citer Citer	
		10. 5	creen maner	+ Timeo	- Cut	-
renois bourn = MSL or _ 1 4	5 fz		Creez :7pm		Factory out	DZ 1
- /			- 77		ontinuous slot	100
reinis, diameter 605 in.	Santa and and	\			Other	
2.1				Timeo		
D. well cosing _ 2 L S in.		1	lot size:			010
D. weil casing 2		1	loned length			9.5
- well cassing		`IL.B		ii (below filter pack):	None	1500
		1000	3c	LILTEE SANG	Cher	
		THE RESERVE OF THE PARTY OF THE	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	Committee Section Sect		
ecv cernify that the information on this for		ect to the be	Stof TV 4	nowiecca.		
ecv certify that the information on this for	m is tue fron torm	ect to the be	st of TV 4	nowieccs.		

1	3	>
3	۶	d
	٦	j
1	ī	ī
3	2	7
į	7	j
	ä	7
	_	٠
*	7	•

F .		19	
			12
Scale of Wisconsin Department of Natural Resources			CHITORING WELL CONSTRUCTION
56			100-113A 3-89
	no Location		Weil Name
Claric 562		A C N C S.	
Francis License, Permit or Monuncing Number			B-2/mw-2
		E CECV	Wis Dudge Men Jamos. Dyk Men Jamas
Type of West Water Table Observation West Kil See	cition Lucation		
PAP .			Care Weil installed O (2/2 5/6 7
Distance well is from wasterbource boundary	TE NEW VE	1/4 of Section _ 5	0 6/25/97
75" O . T	7 N. R ZZ	- RELW	Well installed By: (Person's Name and Firm)
is Well A Point of Entorcement Siz. Application!	mon or well derang	e to WasterSource	- OSI ENVIRONMENTAL-
	C CESTAGRAM	- Sxegmorent	
. Parameter and the second sec	☐ Downgradient	Not Known	
A. Protective pipe, top elevation n. M.	SL —	L. Cap and io	
B. Weil casing, top elevation ft. M.	SL —	2 Protective	COVER TRIDE
Victoria de la companya del companya de la companya del companya de la companya d	11-	a. Inside di	mara 19 in
C. Lind surface elevation f M	SL	b. Length	
D. Surface seal, bottom 1 MSL or		c. Material	_1.1.fz
			, see 7 0.5
In USCS classification of soil less screen:	- Land	インの記念 d Addison	ai protection?
ESM OSC CML DMEEC CCH	/ E		the same that I am
Beingin		14 / /	
		3. Surface seni	
13. Sieve analysis arrached? I Yes No	\		Concrete & 01
14. Drilling method useri: Rotary 52 50	\	W 14 14	Other 🗆 🛒
Hollow Stem Auger 2 41	\	W MEICHEL DEC	ween well casing and protective pipe:
Other 🗆	· \ 2		Bentonite 🖾 30
***************************************			Ammiar space seal
15. Drilling fluid used: Water [00 Air [01	. 🕮 🛭		Cober [7]
Drilling Muci @ 03 None Ø 99		5. Ammiar scac	
		the	gai mud weight Bendmine-sund hinny 2 35
16. Drilling additives used? Yes No		L36/	al mudweight. Benomie sing G 3 1
. ,) 23 2	<u></u>	Benonce General groun C 50
DescribeN/A			Volume acided for any of the anove
17. Source of water (attach analysis):		How installed	Tremie 🗆 0 1
/a			Trachie managed (7)
N/A	! ###	\$	Graviny 10 8
	22	6. Benronita seni	7
L Bentomite seal top ± MSL or L D	ft、 選 S	/ D1/45	Com: [1:0:]
			[4]
Fire sand top ± MSL or 2.5	AL 機 開	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Ciber 🗆 💹
		/ The same man	Manufacturer, product name and mesh size
Filter pack, top ± MSL or 3 5	BE STORY	/	# 100 FUTER SAND
		Voiums aciden	
Well screen, top ± MSL or _ 50		a. Filter pack ma	rerial: Manufactures, product come and mesh size
		/	#30 FILTER SAND
Weil screen, bottom _ = MSL or (57)		Volume added	
Well screen, bostom = MSL or _15.0		9. Weil casing:	Flush threaded PVC schedule 40 22 23
Filtran made harman & 1/47			Flush dreaded PVC schedule 30 🔲 24
Filter pack, bottom ± MSL or _150	- C	_	Cther 🗆
3		10. Screen manage	The same
Boreingie bottom i MSL or _ 17.2 f	-	Screen type:	Factory our. IS. 11
		- 17	Continuous slot 🗆 0 I
Sorenoie diameter 8.5 in	120		Other 🗆 🖹
		Manufacturer	Timoo
O.D. weil casing _2 2 5 in	😨	Slot size:	0.010in.
a sometime on a p		Slotted length	_9.6iL
LD. veil casing _2.00 n		\	
and Time a rape was state		TIL BACKIII THE	
יי ביין אינו מה מהתבייתה פת' זמת' עווייפה עספים	710 200 4		
erecy certify that the intorration on this form is		to the dest of my en	cwiedds.
Sine Klein 1	1		
ב משנות בר בייני ול בלונג חוסכ הנוחסה מחני שומיביים של	ligma	mit wire trans	
se commette and remain boin sus to this form as remained of the Wis State. failure to file this form may result in a form on 127. Wis. State. failure to file this form may result in a form	MINITE OF BOY LASS CHAP	S10, nor more com SSAA	for each day of violation In accommon
and 147, Wis. State. failure to file his form may result in	a formationed at not me	ore than \$10,000 for mon co	y of violation.

Page of the state	Service Sequences An Artification of sail one search Alger 12 Art 10 Artification of sail one search Alger 10 Artification of sail one search Alger 10 Artification of sail one search Alger 10 Artification of sail one search Alger 10 Artification of sail one search Alger 10 Artification of sail one search Alger 14 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artification of sail one search Alger 15 Artifica	\
Hacta:	And Location A. C. S. And Committee Control of the	

samily that the intermander on this form is true and prect to the best of the redwiedes.

Slot size:

Slowed length

#30

II. Backfill (below filter pack):

LILTES

0. 01-0in.

None [

Other E

9.60

al casing

CISINE

225

200 m

The complete and return plus name of this form as resulted by ons. . — — and loth wis dealed and on. . A. 41, wis some close in accordance with the States. Shalters to the this form may result in a fortening of not less than \$10, nor more than \$5,000 for each day of violation. In accordance

hereov tary that the intermation on this form is the sing correct to the cest of the consecution

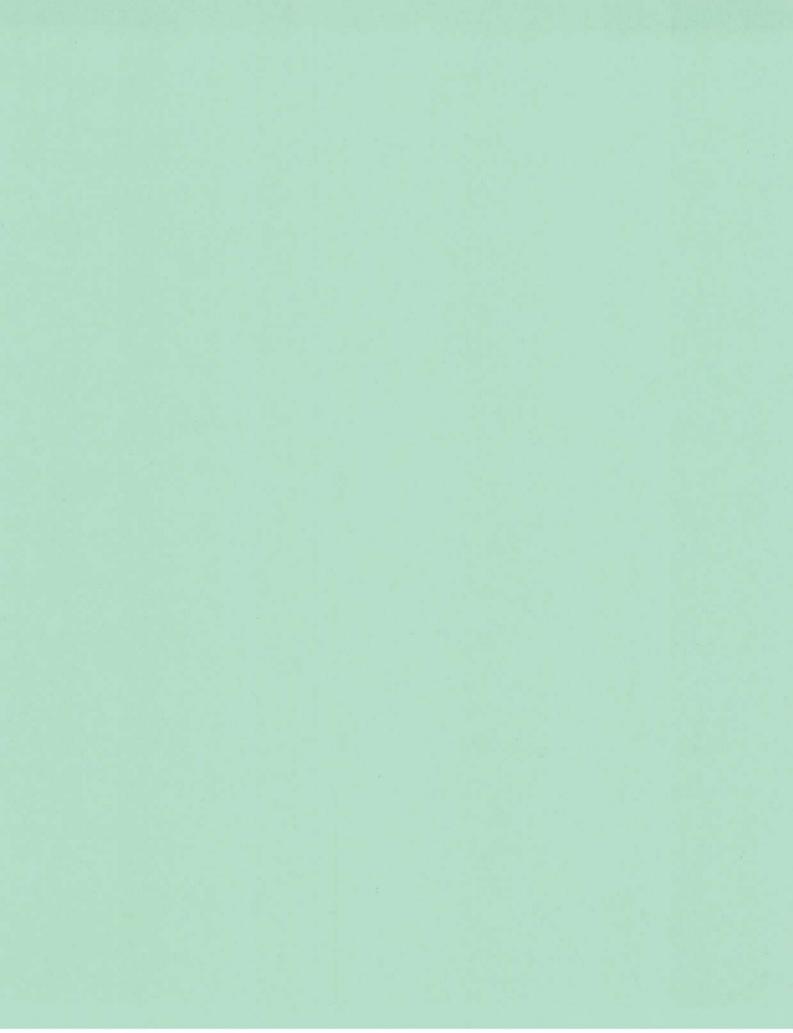
Ct- I

			, a	
Size of Wisconsin				
Resources of Natural Resources		M	CHTORDIG WELL CONSTR	. (
		7.		3-29
Clark 56 Z	na Location		Weil Name	
Semily License. Farmer of Montanay winder		ft G X G s.	3-9/ mw-6	
The state of the s	5	_ ft C a c w	MIS UMDES WELL YUMDES	UNK. ven.Numo
speot Wett Water Tame Observation Weil E 11 Se			Sphool Street	· · · · · · · · · · · · · · · · · · ·
manus.	ection Location		Late Well installed 49	2 4=
Distance were as from wastersource sourcery	VE WE WE WA	of Section _5	<u> </u>	30172
45.0	7 Y. R 22 5	WELL A.	Men resented bis (Largers V	ams mi . mi
Beven A count of enforcement Sin. Apprication!	C Upgracient	o WasterSource	OSI moreunne	ntal
Z *=				
	The second of th	☐ Not Known		
Without of the the stands	ASL —	L. Cap and in		E Ya C No
Weil casing, top elevation ft. 3	ISL -	2 Protective	cave. bibe:	Company of the Company of the Company
Lad surface elevation 5 y	1171	-	mind gapagements y	12.0 in
	1	b. Langing		-1.05
D. Surface seni, bottom ft MSL or	A	c Mar-i		See a 0-
C USCS classification of soil near sureers			Ac+	Cober E
COR CON COC CON CON CON	1. 12 1		ii protection?	C YEAR 16
CSM CSC CML CMECC CC! \	A I I	/ If yes, is		
		3. Surrisca seni:	: .	Bentonia 🖸 30
3. Sieve analysis anached? C %s 25%	\.			Concrete E 0:
A Drilling method used: Rotary 🗆 50	\	4 Maroni in	ven weil casing and protective	Cope []
Hollow Sten Auger 15-41	\			
Ctte				Bentonite C 30 pace seni C
5 D-01- 0-11 1 T			Summer 2	100
Drilling fluid used: Water [02 Air [01		5. Armuin space	- Commiss 3	Cober 🗆 💯 33
Drilling Muri 🗆 03 None 🗷 99			pi mud weight Benomis-sa	
16 Crilling additives used? I Yes IF No			pi mud weight Benomi	
		- 33	empire Benonire-cen	ene grow [] 50
Describe		-	yourns added for any of the	te ninve
7. Source of water (attach analysis):		How installed		Tramis [01
N/a			Tarris	con D because
				Conviny 2 08
		6. Benromin seni	Bentonite :	
Benomine seal top 2 MSL or 0 5	A- 2		ANS in Civil in Bentomic	
The sand top it MSL or		/-		City []
t MSL or 2/		7. Fine sand may	Mamifacture Traduct	me mri merir cira
in pacinop it MSL at 30		/ - *	100 Femr Sand	
The pack top it MSL at _ 30		Voitume societ		
Weil screen. cop in MSL or _ 45		8. File paci ==	ziai: Manufacture, product m	me animesh size
Well screen, top ± MSL or _ 45		/	A30 FLINT Sand	
Vall screen, bottom 1.45		Voiume accert		
Tell screen, bottom fr MSL or _ L 4.5		9. Weil casing:	Flush created PVC schedu	
The mark bostom ft MSL or _145		, W	Finsit directed PVC schedu	
	Name of the last o	\		Cober 🗆 🔤
Poreinie bottom = MSI or _ / 6 8	â_	10. Screen managi		
		Screen types		rycu Z 11
Oremie diamerer 83 3			Communication	
	1	Manufactura		Other [
0.0. weil cosing _2 45 in		Manufacture	Timeo	DALKI
		Sloned leage	42	0.016 in.
D. veil casing 2 -	G.	IL Baciciiii	Charines of Characterists	
7		· An	Ame I	None B
Per terminat the mornistion on this form	5 Tro 200 corpore 6	n the heat of		Other C
	III	יין עד זון ומפני שוני ש	CWIECCS.	
Lene Kleen	Signe	f2	2	
Vs State, favour to the first form as required to		715. 340KS_ 300 37 . 15	HE WIS AGE LIGHT	חואי במתכם
Vs Score. Suiters to the tax form may result a for	IZ mac em. ton to erume	O, nor more can ES.DO	for each day of violation. In so	COTUME

APPENDIX H

	id Waste ☐ Haz. Waste ☐ Wastewater ☐ & Repair ☐ Underground Tanks ☒ Other ☐	MONITORING WELL CONSTRUCTION Form 4400-113A
-acility/Project Name	Local Grid Location of Well	1607. 4-90
Clark Refining + Marketing I clark	fr. OSfr. OW	Well Name MW -8
	Grid Origin Location	Wisc Unique Well Number DNR Well Number
	Lat Long or	. 4224
Type of Well Water Table Observation Well 🖾 11	St. Plane ft. N ft. E.	Date Well Installed
Piezometer 12	Section Location of Waste/Source	RE129195
Distance Well Is From Waste/Source Boundary	1/4 of 1/4 of Sec T N. R W.	Well Installed By: (Person's Name and Firm)
ft.	Location of Well Relative to Waste/Source	ten Stuckert
Is Well A Point of Enforcement Std. Application?	u 🗆 Upgradient s 🗖 Sidegradient	RIENTI
✓ Yes □ No	d Downgradient n Not Known	Brionn Environmental
A. Protective pipe, top elevation fi	MSL 1. Cap and lock	
	MSL 2. Protective co	ver pipe:
and the state of t	a. Inside diam	eter: 8.0in.
C. Land surface elevation ft	. MSL b. Length:	_1.0ft
D. Surface seal, bottom ft. MSL or	c. Material:	Steel 🖾 04
		Other 🗆 💥
12. USCS classification of soil near screen:	d. Additional	protection?
GP GM GC GW GSW GS	P D If you does	The state of the s
SM SC ML MH CL C		Bentonite 30
	3. Surface seal:	Concrete Ø 01
		Other D
14. Drilling method used: Rotary ☐ 5	4. Material berwe	en well casing and protective pipe:
Hollow Stem Auger 4	1 🔛 🔛	Bentonite 🖾 30
Other 🗆	-	Annular space seal 🔲 🤲
15. Drilling fluid used: Water □ 02 Air □ 0		Other 🗆
15. Drilling fluid used: Water 0 2 Air 0 0 Drilling Mud 0 0 3 None 2 9	5. Annular space	
None Ed 9	bLbs/g:	al mud weight Bentonite-sand shirry 35
16. Drilling additives used? ☐ Yes ☑ No	cLbs/g:	al mud weight Bentonite slurry 3 1
20 10	d % Ben	tonite Bentonite-cement grout \ 50
Describe	e	Ft 3 volume added for any of the above
17. Source of water (attach analysis):	3. Surface seal: 4. Material berwe 5. Armular space bLbs/g: cLbs/g: d	ed: Tremie 🗆 01
		Tremie pumped 🔲 02
		Gravity 🛛 08
E. Bentonite seal, top ft. MSL or	6. Bentonite seal:	
E. Delibilitie seal, up IL MSL or	6. Bentonite seal: b. □1/4 in. c	⊠3/8 in. □ 1/2 in. Bentonite pellets ☑ 32
F. Fine sand, top ft. MSL or		Other 🗆 🚳
it MSC of		rial: Manufacturer, product name & mesh size
G. Filter pack, top ft. MSL or	ft. h Volume and	
	o. rotatic ac	
H. Screen joint, top ft. MSL or _ 5	8. Filter pack mai	erial: Manufacturer, product name and mesh size
	1 2	
I. Well bottom ft. MSL or 15	b. Volume adr	
The state of the s	(上屋)(4)	Flush threaded PVC schedule 40 23
J. Filter pack, bottom ft. MSL or _ 15	0 11_	Flush threaded PVC schedule 80 🔲 24
		Other 🗆 💆
IK. Borehole, bottom ft. MSL or _ 15	0 ft.	
	a. Screen type	
L. Borehole, diameter in.		Continuous slot 01
No.		Other 🗆
M. O.D. well casing in	b. Manufacture c. Slot size:	
	d. Slotted leng	0 in. th: 10.0 ft.
N. I.D. well casing in.	N	
	II. Backini matena	I (below filter pack): None 2 14
I hereby certify that the information on this f	orm is true and segrent to the best of	Other 🗆 🚉
Signature (1)	Fum	nowledge.
1 - Klin	5	1 —
Please complete both sides of this form and return to the	appropriate DNR office listed at the top of this form	required by the 144 147 and 160 Wie State
and ch. NR 141, Wis. Ad. Code. In accordance with ch. 55000 for each day of violation. 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
	147. Wis. Stats., failure to file this form may result in a	
	The second secon	town should be sent.

	id Waste
	cc Repair Onderground lanks Other
Facility/Project Name Clark Station #9562	Local Grid Location of Well Well Name
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43 6 11 Long. 87 54 25 or Wis Unique Well Number DNR Well Number
	St. Planeft. N,ft. E. Date Well Installed 1 0/0 9/9 5
Piezometer 12	Section 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 Well Installed By: (Person's Name and Firm) Midwest Engineering
100 ft.	Location of Well Relative to Waste/Source Midwest Engineering
Is Well A Point of Enforcement Std. Application?	u □ Upgradient s ⊠ Sidegradient
☑ Yes ☐ No	d 🗆 Downgradient n 🗆 Not Known
A. Protective pipe, top elevation ft	t. MSL 1. Cap and lock? ☑ Yes ☐ No
D Wall series to short	2 Protective cover nine:
B. Well casing, top elevation ft	a. Inside diameter: 8.0 in.
C. Land surface elevation	. MSL b. Length: 1.0 ft.
	c Material:
D. Surface seal, bottom ft. MSL or _ 1.	Other D
12. USCS classification of soil near screen:	d. Additional protection?
GP GM GC GW SW S	P M If yes, describe:
SM C SC C ML CMH CL C	3. Surface seal: Bentonite 🗆 30
Bedrock 🗆	Concrete □ 01
13. Sieve analysis attached? Yes	Aspirat Other 🗅
14. Drilling method used: Rotary ☐ 50	4. Material between well casing and protective pipe:
Hollow Stem Auger 🛛 41	Bentonite 🖾 30
Other 🗆 🧎	Annular space seal 🗆 🎆
15. Drilling fluid used: Water □02 Air □ 01	Other 🗆
15. Drilling fluid used: Water □02 Air □ 01 Drilling Mud □03 None ☑ 99	5. Annular space seal: a. Granular Bentonite 33
mile in some in system in	bLbs/gal mud weight.Bentonite-sand slurry 35
16. Drilling additives used? ☐ Yes ☑ No	c. Lbs/gal mud weight Bentonite slurry 31
	d% Bentonite Bentonite-cement grout 🗆 50
Describe	4. Material between well casing and protective pipe: Bentonite
17. Source of water (attach analysis):	f. How installed: Tremie 🗆 01
	Tremie pumped 🗆 02
	6. Bentonite seal: a. Bentonite granules 33 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 32 c. Other 5 7. Fine sand material: Manufacturer, product name & mesh size
E Posts its and the	6. Bentonite seal: a. Bentonite granules 33
E. Bentonite seal, top ft. MSL or 1.0	b. □ 1/4 in. №3/8 in. □ 1/2 in. Bentonite pellets № 32
F. Fine sand, top ft. MSL or 3.0	COther 🗆 💹
F. Fine sand, topft. MSL or3.0	- , product matte de mesm size
G. Filter pack, top ft. MSL or4.0	a. Badger, Fine Sand, #40-60
It MISL of4.0	
H. Screen joint, top ft. MSL or 5.0	8. Filter pack material: Manufacturer, product name & mesh size
it will of	
I. Well bottom ft. MSL or _ 15.0	The state of the s
12.0	Flush threaded PVC schedule 40 🕱 23 Flush threaded PVC schedule 80 🗆 24
J. Filter pack, bottom ft. MSL or 15.0	
J. Filter pack, bottomft. MSL or15.0	ft. Other D
K. Borehole, bottom ft. MSL or _ 15.0	
The state of the s	
L. Borehole, diameter _ 8.0 in.	Continuous slot □ 01 Other □
M. O.D. well casing 2.25 in.	b. Manufacturer Badger c. Slot size: 0.010 in
	c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
N. LD. well casing	11. Backfill material (below filter pack): None 🖾 14
	Other
hereby certify that the information on this	s form is true and correct to the best of my knowledge.
Signature)	
Hayo bure	Firm Sigma Environmental Services, Inc. 102 Progress Drive, Saukville, WI 53080 (414) 284-6824
ease complete both sides of this form and return to the	appropriate DNP office loted of the tor of this form of the form o
Jay of violation. NOTE: Shaded areas are for DNR use	47, 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	d Waste □Haz. Wa	aste Wastewar	ter□	MONITORIN Form 4400-113	G WELL CONSTR	RUCTION
Env. Response	& Repair 🗆 Under	ground Tanks 🏻	Other 🗆	101111 4400-113	A	Rev. 4-90
Facility/Project Name	Local Grid Location	n of Well		Well Name		
Clark Station #0562	ft	M. 17.0	ft. E	1	VE-1	
Facility License, Permit or Monitoring Number	Grid Origin Locati Lat. 43 6	on	54 25 or	Wis, Unique We	Il Number DNR We	il Numbe
Type of Well Water Toble Observation Well 7811				***************************************		
Type of Well Water Table Observation Well 211			ft. E.	Date Well Instal	lled 1 0/0 9	195
Piezometer □12	Section Location o	f Waste/Source	es 17	1	mmdd	VV
Distance Well Is From Waste/Source Boundary	NE 1/4 of NE 1/4	of Sec. 5 T 7	NR 22 HW	Well Installed B	y: (Person's Name ar	nd Firm)
5 ft,	Location of Well R	elative to Westel	Canada	Midwest I	Engineering	,
Is Well A Point of Enforcement Std. Application?	u 🗆 Upgradient	s 🗆 Side	gradient			
☑ Yes ☐ No	d Downgradie	ent n 🕅 Not	Known			
A. Protective pipe, top elevation	MSL —		1. Cap and lock	-2	POLY T	
The state of the s	. IVIOL				LAL Yes	□ No
B. Well casing, top elevation fi	MSL	1010	2. Protective co			
			a. Inside dian	neter:		18.0 in.
C. Land surface elevation	MSL _		b. Length:			1.0 ft.
D. Surface seal, bottom ft. MSL or1.	0 0	() () () ()	c. Material:		Stee	1 🖾 04
		11 13:35			Other	. 🗆 🎆
12. USCS classification of soil near screen:	Le mark	II Notes	d. Additional	protection?	☐ Yes	□ No
GP GM GC GW SW SW S			If yes, des	scribe:	555/77. 525-478 Del	
SM SC ML MH CL C			3. Surface seal:		Bentonite	□ 30
Bedrock□			3. Surface seaf:		Concrete	
13. Sieve analysis attached? Yes			Asph	alt	Other	200000
14. Drilling method used: Rotary 50	1 1	M M ,	4 Material bety	veen well casing a	and protective pipe:	
Hollow Stem Auger X 41		8 18	T. IVALUE AND OCEV	seem went custing a	Bentonite	30
Other 🗆 🗎		8 188	w:		Annular space seal	
					Other	
15. Drilling fluid used: Water □02 Air □ 01	1 8		5. Annular space	e cool:	Granular Bentonite	
Drilling Mud □03 None ☑ 99	1 8				entonite-sand slurry	
	1 8	8 188	oLos/g	at mud weightDe	mionite-sand sinity	35
16. Drilling additives used? ☐ Yes ☑ No	1 8	₩ ₩	d O/ Down	at mud weight	. Bentonite slurry	□ 31
	I 8	8 1881	d% Ben		onite-cement grout	
Describe		8 888	е	Ft³ volume add	ed for any of the abo	ve
17. Source of water (attach analysis):	-		f. How instal	led:	Tremie	□ 01
(management).	1 🔯				Tremie pumped	□ 02
	I 🐰	I 📖			Gravity	
	Æ.		6. Bentonite seal	: a. i	Bentonite granules	□ 33
E. Bentonite seal, top ft. MSL or	ft. 🔻 🔯		b. 🗆 1/4 in.	□3/8 in. □1/2 i	n. Bentonite pellets	□ 32
L			C.		Other	
F. Fine sand, top ft. MSL or3.0	ft \ \		7 Fine sand mate	erial Manufacture	er, product name & n	
	/ //		a Badger, Fir	ne Sand, #40-60	a, product name & n	desit size
G. Filter pack, top ft. MSL or 5.0	ft.	X /	b. Volume add		ft ³	
					er, product name &	ng ng n
H. Screen joint, top ft. MSL or6.0	ft. —	/			er, product name &	mesh size
		-	b. Volume add	Flint Sand #20 ded 5.8	ft³	_ ##
L. Well bottom ft. MSL or _ 9.0	e - 1		9. Well casing:		it if it is a property in PVC schedule 40 [
			on onsuig.		d PVC schedule 40 [
Filter nack bettem	- V			Trush uncaded		V045000
Filter pack, bottomft. MSL or10.0	IL.	10	0. Screen materia	l. DVG	Other I	J 🚃
K. Borehole, bottom ft. MSL or 10.0		"				822
K. Borehole, bottomft. MSL or10.0	ft.		a. Screen type:		Factory cut	
Borehole diameter 19.0					Continuous slot	77.77
Borehole, diameter18.0 in.	1400				Other [
M OD II ' COT '		. \	b. Manufacture	er Badge	er	
M. O.D. well casing6.25_ in.			c. Slot size:		0	in.
			d. Slotted leng			0.0 ft.
N. I.D. well casing 6.00 in.		- 11	. Backfill materi	al (below filter pa	ick): None 5	14
			- N		Other D	SANASA
hereby certify that the information on this	form is true a	nd correct to	the best of m	y knowledge		
ignature //		a Environmen				-
- Sayo Kure	102 Pr	narece Drive Sm	ulmilla VIII 530	90 (414) 204 (00	44	
lease complete both sides of this form and return to the						a Stota
Sch NR 141, Wis Ad Code. In accordance with ch 14 100 for each day of violation. In accordance with ch 1 2 2 of violation. NOTE: Shaded areas are for DNR use of Chasco.	4, Wis Stats, failur	to file this form	may result in a f	orfeiture of not le	ss than \$10, nor mor	e than
by of violation. NOTE: Shaded areas are for DNR use	wis Stats, failu	re to file this form	n may result in a	forfeiture of not n	nore than \$10,000 fo	r each
CT AP/A		TO TOT THOSE THOSE	actou menumg	where the comple	ned form should be	sent.

State of Wisconsin Department of Natural Resources Route to: Soli	d Waste □Haz. Wasi	te		MONITORING WEI	LL CONST	RUC	TION 7. 4-90
	& Repair 🗆 Underg		Other	10111 -100-113/1		Rev	. 4-9(
	Local Grid Location			Well Name			_
Clark Station #0562	ft.	XIN53.0	ft. 🛛 E.	VE-2			
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43 6 11	1		Wis. Unique Well Num	ber DNR W	ell Ni	umbe
Type of Well Water Table Observation Well 211				***************************************			
			ft. E.	Date Well Installed 1	0/0 9	19	5
Piezometer	Section Location of	Waste/Source	on E	n n	m d d	v -	v
Distance Well Is From Waste/Source Boundary	<u>NE</u> 1/4 of <u>NE</u> 1/4 o	of Sec. 5 . T. 7 N	J. R. 22 1 W.	Well Installed By: (Pers	son's Name a	nd Fi	rm)
5 ft.	Location of Well Rel	ative to Waste/Son	1, 22 22 111	Midwest Enginee	ring		
is wear A rount of Enforcement But. Application?	u Upgradient	s 🗆 Sidegrae	dient				TTO
Yes 🗆 No	d Downgradient						
	. MSL	1.	. Cap and lock?		⊠ Yes		No
B. Well casing, top elevation ft	. MSL		 Protective cov a. Inside diame 			10 () i-
C. Land surface elevation ft.	MSL		b. Length:	reac.		18.0	W. Street
	1		c. Material:		64-		<u>ft.</u>
D. Surface seal, bottom ft. MSL or _ 1.	o A C		o. Millionian.			el 🔯	04
12. USCS classification of soil near screen:		I V. Process	A A 34'6' 1		Othe		22
CD - CD - CD - CD - CD	P 80	I IX	d. Additional p		☐ Yes	s 🗆	No
SM SC D ML DMH DCL DC		111//	If yes, desc	nbe:			
Bedrock□		3.	Surface seal:	N 5	Bentonit		30
13. Sieve analysis attached? Yes	. 100			2 8	Concrete	: 🗆	01
	' 🕍		Aspha	lt	Other	[2]	
14. Drilling method used: Rotary 50		4.	Material between	een well casing and prot	ective pine		
Hollow Stern Auger 🖾 41	💹	***		, Pass	Bentonite	: [3]	30
Other 🗆				Annul	ar space seal		2000000
				rumma	Other		*****
15. Drilling fluid used: Water □02 Air □ 01		S 5	Annular space	cost: a Granul	ar Bentonite		33
Drilling Mud □03 None ■ 99	I III		200				
The second secon	I 📟	₩ o		l mud weight. Bentonite			35
16. Drilling additives used? Yes		. c. −	Lbs/gal	mud weight Bent	onite slurry		31
ĺ		Œ	% Bento	onite Bentonite-ce	ment grout		50
Describe		e		_Ft ³ volume added for a	my of the ab	ove	
17. Source of water (attach analysis):	- 📟	f.	How installe	;d;	Tremie		01
17. Source of water (attach analysis):		***		Trer	nie pumped		02
	I 1888	***			Gravity		08
		6 1	Bentonite seal:	a D			
E. Bentonite seal, top ft. MSL or					ite granules	П	33
S. Demonte seat, top It. MDL of	- ft.\	× / °	. U 1/4 III. []3/8 in. □1/2 in. Bent	(C)		32
P. Pi.		₩ / °	·		Other		
F. Fine sand, top ft. MSL or3.0	ft.	₩ / / 7. F	Fine sand mater	rial: Manufacturer, prod	uct name &	mesh	size
C File L	ft.	1 / a	. Badger, Fine	e Sand, #40-60		_	
G. Filter pack, top ft. MSL or5.0	A.	b.	. Volume adde				
		8. F	ilter pack mate	erial: Manufacturer, prod	duct name &	mes	h size
H. Screen joint, top ft. MSL or6.0	ft.	a		Flint Sand #20			****
12		1 b.	Volume adde	ed 5.8 ft ³		-	-
I. Well bottom ft. MSL or 9.0	ft \		Well casing:	Flush threaded PVC	schedule 40	П	23
			0.	Flush threaded PVC			24
Filter pack, bottom ft. MSL or 10.0	· _ / =					1 3	******
. Filter pack, bottomft. MSL or10.0_	it.	10.0		TWIC	Other	ш	
F D1 1-1-1		10. 5	creen material:	PVC		9	
K. Borehole, bottomft. MSL or10.0	ft.	a.	Screen type:]	Factory cut	X	11
				Cont	inuous slot		01
L. Borehole, diameter <u>18.0</u> in.		-			Other	aller Se	***
2 2	(9)	b.	Manufacturer	Badger	+1	2077 (8	-
M. O.D. well casing 6.25 in.		C.	Slot size:	Dauger		19	
		d.	Slotted length	•	0		III.
N. I.D. well casing6.00 in.				l (below filter pack):		3.0 1	
			waim marcila	((oetow titter back):	None	1.0	14
hereby certify that the information on this	form in tour	J			Other	§	882
hereby certify that the information on this	Torin is true and	u correct to the	e best of my	/ knowledge.			
- and Keen		Environmental					
ease complete both sides at this farmed at the	102 Prog	gress Drive, Saukv	rille, WI 53080	0 (414) 284-6824		*	

ease 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 100 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.

State of Wisconsin Department of Natural Resources Route to: Soli	d Waste □Haz. Waste □ Wastewater□	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-9
Env. Response	& Repair Underground Tanks 🖾 Other 🗆	- Kev. 4-9
Clark Station #0562	Local Grid Location of Well 27.0 ft. S. 10.0 ft. W.	Well Name Q-1
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. 43 6 11 Long. 87 54 25 or	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well X11		Date Well Installed
Piezometer 🔲 12	Section Location of Waste/Source	Date Well Installed 1 0/0 9/9 5
Distance Well Is From Waste/Source Boundary	NE 1/4 SNE 1/4 SS S E E	m m d d y y Well Installed By: (Person's Name and Firm)
45 ft.	NE 1/4 of NE 1/4 of Sec. 5, T. 7, N, R. 22 W.	Midwest Engineering
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to Waste/Source u 🖾 Upgradient s 🗆 Sidegradient	TANGWEST Engineering
☑ Yes ☐ No	d Downgradient n Not Known	
A. Protective pipe, top elevation fi	. MSL 1. Cap and lock?	100 110
B. Well casing, top elevation fi	MSL 2. Protective cover a. Inside diame	맞았다. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
C. Land surface elevation		_10.0_ III.
	a Material	
D. Surface seal, bottom ft. MSL or _ 1	o a	Steel M 04 Other
12. USCS classification of soil near screen:	d. Additional pr	
GP II GM II GC II GW II SW II S		rotection?
SM BO SC D ML DMH DCL BO C		
Bedrock □	3. Surface seal:	Bentonite □ 30 Concrete □ 01
13. Sieve analysis attached? ☐ Yes 💆 N	Asphal	_
14. Drilling method used: Rotary ☐ 50	4 Material between	en well casing and protective pipe:
Hollow Stem Auger XI 41	4. Material between	Bentonite 2 30
Other 🗆		Annular space seal
		Other
15. Drilling fluid used: Water □02 Air □ 01	5. Annular space s	seal: a. Granular Bentonite 33
Drilling Mud □03 None ☑ 99	b. Lbs/gal	mud weightBentonite-sand slurry 35
16 D W 189	c. Lbs/gal	mud weight Bentonite slurry 31
16. Drilling additives used? ☐ Yes ☑ No	d. % Bento	nite Bentonite-cement grout 50
5 "		
Describe	f. How installe	Ft ³ volume added for any of the above d: Tremie 01
17. Source of water (attach analysis):		
		Tremie pumped □ 02 Gravity □ 08
	6. Bentonite seal:	SALE DESCRIPTION AND ADDRESS A
E. Bentonite seal, top ft. MSL or _ 1.0	6 > b. □ 1/4 in. □	a. Bentonite granules 33 3/8 in. 11/2 in. Bentonite pellets 33
7		Other 🗆
F. Fine sand, top ft. MSL or _ 1.0		ial: Manufacturer, product name & mesh size
-2 -27	a. Badger, Fine	Sand, #40-60
IG. Filter pack, top ft. MSL or6.0	ft. b. Volume adde	
WY Comment of the comment	8. Filter pack mate	rial: Manufacturer, product name & mesh size
IH. Screen joint, top ft. MSL or7.0		lint Sand #20
I. Well bottom ft. MSL or 25.0	b. Volume adde	
I. Well bottom ft. MSL or25.0	ft. 9. Well casing:	Flush threaded PVC schedule 40 \(\simeg 23 \)
T PN - 1 1		Flush threaded PVC schedule 80 🛛 24
J. Filter pack, bottom ft. MSL or25.0	ft. 10. Screen material:	Other 🗆
K. Borehole, bottom ft. MSL or 25.0		
K. Borehole, bottom ft. MSL or _ 25.0	ft. a. Screen type:	Factory cut 🖾 11
L. Borehole, diameter18.0 in.		Continuous slot 01
L. Borehole, diameter _18.0 in.		Other 🗆 🧮
M. O.D. well casing 6.25 in.	b. Manufacturer	Badger
M. O.D. well casing <u>6.25</u> in.	c. Slot size:	0 in.
N ID well assists	d. Slotted length	
N. I.D. well casing6.00_ in.	11. Backfill material	
hereby certify that the information		Other 🗆 🧮
Simplified the information on this	form is true and correct to the best of my	knowledge.
Signature Jang Hull	Firm Sigma Environmental Services, In	
	102 Progress Drive, Saukville, WI 53080	(414) 284-6824

ease 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, failure to file this form may result in a forfeiture of not less than \$10, nor more than 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 day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

State of Wisconsin Department of Natural Resources Route to: Soli	d Waste □Haz. Waste l	□ Wastewater □	MONITORING WELL COI Form 4400-113A	NSTRUCTION
Env. Response	& Repair 🗖 Undergrou			Rev. 4-90
Facility/Project Name Clark Station #0562	Local Grid Location of	Well	Well Name	
Facility License, Permit or Monitoring Number	71.0 ft. Grid Origin Location	10.0 ft. W.	Q-2	
rability Electise, retinit of Monttoring Number	Lat. 43 6 11	Long. 87 54 25 or	Was Unique Well Number DN	R Well Number
Type of Well Water Table Observation Well 211			***************************************	
		ft. N, ft. E.	Date Well Installed 1 0 / 0	9/95
Distance Well Is From Waste/Source Boundary	Section Location of Wa	ste/Source Z E.	Well Installed By (Pare 1) N	d y y
45 ft.	NE 1/4 of NE 1/4 of S	Sec. 5, T. 7 N, R. 22 W.	Well Installed By: (Person's Na Midwest Engineering	me and Firm)
Is Well A Point of Enforcement Std. Application?	Location of Well Relati u X Upgradient	s Sidegradient	- Dagmer ing	
✓ Yes □ No	d Downgradient	n 🗆 Not Known		
A. Protective pipe, top elevation fi	MSL	1. Cap and lock	? 🛛	Yes No
	MSL	2. Protective co		
		a. Inside diam	eter:	_18.0 in.
C. Land surface elevation	. MSL	b. Length:		_ <u>1.0</u> ft.
D. Surface seal, bottom ft. MSL or _ 1	0 A \ 1	c. Material:	0 S S S S S S S S S S S S S S S S S S S	Steel 🔯 04 Other 🗖
12. USCS classification of soil near screen:		d. Additional		Yes D No
GP GM GC GW SW S	PE	If yes, des	cribe:	165 [1 110
SM SC C ML MH CL SC	H D W	3. Surface seal:		tonite 30
Bedrock ☐ 13. Sieve analysis attached? ☐ Yes N	. .	J. Butlace scal.		ncrete 🗆 01
	. I 📓	Asph:		Other 🔼 💹
14. Drilling method used: Rotary 56 Hollow Stem Auger 24	' I 📓	4. Material betw	veen well casing and protective p	pipe:
Other 🗆				tonite 🛚 30
			Annular space	
15. Drilling fluid used: Water □02 Air □ 01		5. Annular space		
Drilling Mud □03 None ☑ 99		bLbs/ga	al mud weightBentonite-sand si	
16. Drilling additives used? ☐ Yes No		cLbs/ga	d mud weight Bentonite sh	lurry 🗆 31
1		d% Bent	onite Bentonite-cement gr	
Describe	ft.	3. Surface seal: Asph: 4. Material betw 5. Annular space bLbs/gs cLbs/gs d% Bent e f. How install 6. Bentonite seal: b 1/4 in. If c	Ft3 volume added for any of th	
17. Source of water (attach analysis):		f. How install	A A W	mie 🛮 01
7			Tremie pun	aped □ 02 avity □ 08
		6. Bentonite seal:		
E. Bentonite seal, top ft. MSL or _ 1.0	ft. 🔻 🐰	/ b. □ 1/4 in. 1	□3/8 in. □1/2 in. Bentonite pe	ellets 32
		C	OI	ther 🗆
F. Fine sand, top ft. MSL or3.5			erial: Manufacturer, product nam	e & mesh size
G. Filter pack, top ft. MSL or 5.0		a. Badger, Fin	e Sand, #40-60	
G. Filter pack, top ft. MSL or5.0	. # / 1	o. Aotritte add		
H. Screen joint, top ft. MSL or6.0			terial: Manufacturer, product nar	ne & mesh size
		b. Volume add	Flint Sand #20 led 15.6 ft ³	
Well bottom ft. MSL or _ 24.0	ft \	9. Well casing:	Flush threaded PVC schedule	e 40 🛘 23
			Flush threaded PVC schedule	e 80 🔯 24
Filter pack, bottom ft. MSL or ft. MSL or ft.	ft.		Ot	ther 🗆 🌉
		10. Screen material		_ =
K. Borehole, bottom ft. MSL or25.0	ft.	a. Screen type:		
Borehole, diameter18.0 in.			Continuous	
		1 16-6		ther 🗆 📖
M. O.D. well casing 6.25 in.	8	b. Manufacture c. Slot size:	Badger	0 in
		d. Slotted lengt	dh:	15.0 ft.
N. I.D. well casing 6.00 in.		11. Backfill materia	al (below filter pack): No	ne 🔯 14
			Ot	ther 🗆 🧾
hereby certify that the information on this				
Signature Davy & Kure		nvironmental Services, I		
Please complete both sides of this form and return to the	appropriate DNR office	ss Drive, Saukville, WI 5308	SU (414) 284-6824 as required by the 144 147 6-12	0 Wie 04-4-
lease complete both sides of this form and return to the 1 ch NR 141, Wis Ad Code. In accordance with ch 14, 000 for each day of violation. In accordance with ch 14	4, Wis Stats, failure to	file this form may result in a fe	orfeiture of not less than \$10, no	or more than
2000 for each day of violation. In accordance with children of violation. NOTE: Shaded areas are for DNR use	only. See instructions f	or more information including	where the completed form shou	000 for each ld be sent.
The state of the s				

	id Waste DHaz. Wa			MONITORING WE Form 4400-113A	LL CONSTRUC	CTION ev. 4-90
Env. Response	& Repair 🗆 Under		Other		No	sv. 4-90
Facility/Project Name	Local Grid Location	n of Well	-	Well Name		
Clark Station #0562	60.0ft.	N. 22.0	ft. 🖺 🛱	Q-3		
Facility License, Permit or Monitoring Number	Grid Origin Location	on	Control Control	Was Unique Well Non	TO THE PLANT OF THE PARTY OF TH	Smile
	Lat. 43 6 1	1 Long. 87	_54 _25 or		ioni Dine ii ca	CASHARACA
Type of Well Water Table Observation Well X11	St. Plane	A N	A 12	Date Well Installed		
			п. Е.		1 0/0 9/9	
Distance Well Is From Waste/Source Boundary	Section Location of	Waste/Source	DV E.	777 11 7 4 11 1 7 7	mm dd y	У
15 ft.	NE 1/4 of NE 1/4	of Sec. 5, T. 7	N, R. 22 W.	Well Installed By: (Per	son's Name and I	Firm)
Is Well A Point of Enforcement Std. Application?	Location of Well Re	elative to Waste/S	Source	Midwest Engine	ering	_
	u 🗆 Upgradient	s 🖾 Sideg				
✓ Yes □ No	d Downgradie	nt n 🗆 Not k	Cnown			
A. Protective pipe, top elevation	. MSL		1. Cap and lock	?	⊠ Yes □	l No
D W II ' · · · · · · · · ·			2. Protective co	ver pipe:		
B. Well casing, top elevation	L MSL	THIS	a. Inside diam		18	.0 in.
C. Land surface elevation	L MSL	11 11	b. Length:			.0 ft.
		1 Page 1	c. Material:	*	Steel X	
D. Surface seal, bottom ft. MSL or _ 1	0 ft.	l V			Other 🗆	
12. USCS classification of soil near screen:	A second	11 人名金德	d. Additional	protection?	☐ Yes ☐	444
GP GM GC GW GSW GS	PM	11 13/		cribe:	LI IES L	I No
SM SC ML MH CL SC		1 TB//	1 20 30		D	1 20
Bedrock □	1	 	3. Surface seal:		Bentonite Concrete	
■ 13. Sieve analysis attached? ☐ Yes N	0		Aamh	a14	And the second s	
And the second control of the second control			Asph		Other 🔯	1 📖
14. Drilling method used: Rotary 56 Hollow Stem Auger 52 4	' №	8 8	4. Material betw	veen well casing and pro	tective pipe:	
	in 18	■ 📟	4		Bentonite 🛛	30
Other 🗆	2 8			Annu	lar space seal	
15. Drilling fluid used: Water □02 Air □ 01					Other 🗆	
	. 1		Annular space	e seal: a. Granu	lar Bentonite 🛚	33
Drilling Mud □03 None 🖾 99	1 18	M 1882	bLbs/ga	al mud weight. Bentonit	e-sand slurry	35
16. Drilling additives used? Yes		3 88	cLbs/ga	al mud weight Ber	atonite slurry	31
16. Drilling additives used? ☐ Yes No	' 😹	1 🔛		tonite Bentonite-c		
Describe			e	Ft³ volume added for		
Describe	— I ≥	l 1883	f. How install	led:	Tremie	01
17. Source of water (attach analysis):	I 💹				mie pumped 🗆	02
· ·				***	Gravity 🗆	08
	- ft.		6. Bentonite seal	· a Donto		
E. Bentonite seal, top ft. MSL or		BB / `			nite granules	33 32
Desirante seat, top It. MSL of	- 1c / 💥		0			1000000
F. Fine sand, top ft. MSL or 3.0	\		V 721		Other D	22
F. Fine sand, topft. MSL or3.0	т. / 🗯		/. Fine sand mate	erial: Manufacturer, pro	duct name & mes	sh size
G. Filter pack, top ft. MSL or 6.0	13			ne Sand, #40-60		
G. Filter pack, topft. MSL orft.	- п. / С		b. Volume add		ft ^a	
U Companioint ton		1 / °	3. Filter pack mat	terial: Manufacturer, pro	oduct name & me	sh size
H. Screen joint, top ft. MSL or 7.0	n.	- /		Flint Sand #20		
0.			b. Volume add			
I. Well bottom ft. MSL or _22.0	ft.	9). Well casing:	Flush threaded PVC		23
				Flush threaded PVC	schedule 80 🖾	24
J. Filter pack, bottom ft. MSL or _ 25.0	A.	學			Other 🛘	
		10). Screen materia	l: PVC		
K. Borehole, bottom ft. MSL or _ 25.0	ft. 🔪		a. Screen type:		Factory cut	11
			71		ntinuous slot 🏻	01
L. Borehole, diameter 18.0 in.					Other 🗆	2000
		1	b. Manufacture	or Dalan		24644
M. O.D. well casing 6.25 in.	196			er Badger		***
			c. Slot size:d. Slotted length	th.	15.0	_in. ft.
N. I.D. well casing6.00 in.				al (below filter pack):		
7.00		11	. Deckiiii iiiateiii	er (octow mier back):	None 🔯	14
hereby certify that the information on this	e form in true	nd correct to	the best of		Other 🗆	2002
hereby certify that the information on this						
Jan Stul		a Environmen				DEC 1978 TO
Please complete both sides of this form and converte the	102 Pro	ogress Drive, Sau	ikville, WI 530	80 (414) 284-6824		
Please complete both sides of this form and return to the 1 ch NR 141, Wis Ad Code. In accordance with ch 14000 for each day of violation. In accordance with ch						
3000 for each day of violation. In accordance with ch	47, Wis Stats, failu	re to file this form	n may result in a	forfeiture of not more t	han \$10,000 for e	each
of violation. NOTE: Shaded areas are for DNR use	only. See instruction	ons for more infor	mation including	where the completed for	orm should be sen	nt.

Early Project Name Carls Station #0652 Carls Station #0662 Carls		d Waste □Haz. Wa			MONITORIN Form 4400-11	NG WELL CONSTI	RUCTION Rev. 4-90
Clark Station #0562	Env. Response			Other	to form the later		101. 4-70
Second Continues Continu		Local Grid Location 73.0 ft.	N of Well	ft. X	Well Name	Q-4	
Section Sect	Facility License, Permit or Monitoring Number	Grid Origin Location	on		West British	ell Number DNR W	all Number
Section Losation of Waster/Source Section Losation of Waster/Source Section Losation of Waster/Source Mildwest Engineering Well A Foint of Enforcement Std. Application Losation of Waster/Source Mildwest Engineering Well Installed By (Person Name and Firm) Firm Waster/Source Mildwest Engineering Well Installed Westernost Name and Firm) Well A Foint of Enforcement Std. Application Losation of Waster/Source Well Installed Westernost Name and Firm) Well A Foint of Enforcement Std. Application Losation Wester West	Type of Well Water Table Observation Well 211				*****************************	alled 1 0/0 9	/ 9 5
Section Sect		Section I anotion of	Wasta/Course			m m d d	VV
Section Sect		NE 1/4 of NE 1/4	of Sec. 5, T. 7	N, R. 22 0 V	Well Installed I	By: (Person's Name as Engineering	nd Firm)
A. Protective pipe, top elevation B. Well casing, top elevation C. Land surface C. Land surface elevation C. Land surface elevation C. Land surface elevation C. Land surface elevation C. Land surface ele	7	u Upgradient	s 🖾 Sideg	gradient			
B. Well casing, top elevation ft. MSL ft. MSL ft. Land surface elevation ft. MSL ft. MSL ft. Land surface elevation ft. MSL ft. MSL ft. Land surface elevation ft. Land surface elevation ft. Lan				The second secon	ock?	⊠ Yes	□ No
D. Land surface elevation C. Land surface elevation C. Land surface elevation C. Material: Steel Material Steel Material: St	D. Well assists and describe		10 kg				
D. Surface seal, bottom					ameter:		
12. USCS classification of soil near screen: CP GM GC GW SW SP SM SC ML MH GL Ch Ch Ch Ch Ch Ch Ch C					:		<u>1</u>
Section Sect			1 1/200	d. Addition	al protection?		200,000
Bedrock 13. Sieve analysis attached? Yes No 14. Drilling method used: Rotary 50 Hollow Stem Auger 150 Ho	GP GM GC GW SW GS	PE					•
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	Bedrock D	" "		3. Surface sea	d:		
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. Moderate PVC ft. MSL or 25.0 ft. Manufacturer product name & mesh size a. Badger, Fine Sand, #40-60 b. Volume added 5.6 ft 9. Well casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC a. Screen type: Factory cut 11 Continuous slot 20 Other 25.0 ft. Moderate PVC b. Manufacturer Manufact	13. Sieve analysis attached? ☐ Yes 📉 N	•		As	phalt		
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.				4. Material be	etween well casing	and protective pipe:	- LAL 30
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.						Annular space seal	
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	T15. Drilling fluid used: Water □02 Air □ 0			5 Appular ap	one coals		
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.							
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	16. Drilling additives used? ☐ Yes ☑ No	. 📓		cLbs	/gal mud weight	Bentonite slurry	□ 31
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	T			d% B		ANTHOUGH THE CONTRACTOR OF THE CONTRACTOR	
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.		- 🐰		f. How inst	talled:	Tremie	□ 01
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	The source of wanta (district analysis).						
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	2	— ₩		6. Bentonite se	eal: a		
Filter pack, top ft. MSL or 6.0 ft. MSL or 7.0 ft. ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Borehole, diameter ft. MSL or 25.0 ft. MOD, well casing 6.25 in. MOD, well casing 6.00 in. Firm Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc. Sigma Environmental Services, Inc.	E. Bentonite seal, top ft. MSL or	_ ft. \		b. 🗆 1/4 in	1. 🗆 3/8 in. 🗀 1/2		
a. Badger, Fine Sand, #40-60 b. Volume added 5.6 ft² 8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint, Flint Sand #20 b. Volume added 15.6 ft² 9. Well casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24 Filter pack, bottom ft. MSL or 25.0 ft. Continuous slot 01 Continuous slot 01 Continuous slot 01 M. O.D. well casing 6.25 in. N. I.D. well casing 6.00 in. A Badger, Fine Sand, #40-60 b. Volume added 5.6 ft² 8. Filter pack material: Manufacturer, product name & mesh size a. Red Flint, Flint Sand #20 b. Volume added 15.6 ft² 9. Well casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24 Other 0 M. O.D. well casing 6.25 in. D. Manufacturer Badger c. Slot size: 0 in. Slot size: 0 in. 11. Backfill material (below filter pack): None 14 Other 0 Thereby certify that the information on this form is true and correct to the best of my knowledge.	.F. Fine sand, top ft. MSL or 3.0	n.		7. Fine sand m	aterial: Manufactu		
A. Screen joint, top ft. MSL or 7.0 ft. I. Well bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft. Soreen material: PVC a. Screen type: ft. MSL or 25.0 ft. Soreen material: PVC a. Screen type: Factory cut 11 Continuous slot 01 Other 01 Manufacturer Badger c. Slot size: d. Slotted length: 11. Backfill material (below filter pack): None 11. Backfill material (below filter pack): None 11. Backfill material (below filter pack): None 11. Backfill material (below filter pack): Firm Sigma Environmental Services, Inc.				a. Badger,	Fine Sand, #40-60		_ = ==
A. Screen joint, top It. MSL or 7.0 ft. a. Red Flint, Flint Sand #20 b. Volume added 15.6 ft³ 9. Well casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24 Other	Filter pack, top ft. MSL or 6.	ı u.					mach size
I. Well bottom ft. MSL or 25.0 ft. 9. Well casing: Flush threaded PVC schedule 40 23 Flush threaded PVC schedule 80 24 Flush threaded PVC schedule 80 24 Other Other In the schedule 40 25.0 ft. In threaded PVC schedule 40 25.0 ft. Other In threaded PVC schedule 40 25.0 ft. Other In threaded PVC schedule 40 25.0 ft. Other In threaded PVC schedule 40 25.0 ft. In threaded PVC schedule 40 25.0 ft. Other In threaded PVC schedule 40 25.0 ft. In threaded PVC schedule 40	The Screen joint, top ft. MSL or ft.	A.	_ /	a. Red Flin	nt, Flint Sand #20		mesn size
Filter pack, bottom ft. MSL or 25.0 ft. Filter pack, bottom ft. MSL or 25.0 ft.	[Well bottom # MSI or 254						
K. Borehole, bottom							
K. Borehole, bottom	Filter pack, bottom ft. MSL or25.0	ft.) Screen mate	rial PVC	Other	
Borehole, diameter 18.0 in. Continuous slot 01	K. Borehole, bottom ft. MSL or _ 25.0	ft.	N N			Factory cut	X 11
b. Manufacturer Badger c. Slot size: d. Slotted length: 15.0 ft. N. I.D. well casing 6.00 in. 11. Backfill material (below filter pack): None 14 Other 15 Prim Sigma Environmental Services, Inc. 102 Progress Drive Saukville WI 53080 (414) 284 6824	The state of the s			2	F		
d. Slotted length: 15.0 ft. N. I.D. well casing 6.00 in. 11. Backfill material (below filter pack): None 14 Other 15.0 ft. Other 15.0 ft. None 15.0 ft. Other 15.0 ft.	CONTACT. IN				urer Bad		
N. I.D. well casing 6.00 in. 11. Backfill material (below filter pack): None 14 Other 15 Dignature Signature Signature Saving Structure Saving Sav	Jr. C.D. weir casing _ 6.25 in.				ength:	77.2	
nereby certify that the information on this form is true and correct to the best of my knowledge. Firm Sigma Environmental Services, Inc. 102 Progress Drive Saukville WI 53080 (414) 284-6824	N. I.D. well casing 6.00 in.		11			pack): None	₩ 14
Firm Sigma Environmental Services, Inc.	hereby certify that the information on thi	s form is true a	nd correct to	the best of	my knowledge		<u> </u>
102 Progress Drive Saukville WI 53080 (414) 284 6924	ignature	THE RESIDENCE OF THE PARTY OF T	The second liverage and the second				
Fch 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 30 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 310,000 for each 32 of violation. NOTE: Shaded areas are for DNR use only 32 instructions for more information in a forfeiture of not more than \$10,000 for each 32 of violation.		102 Pr	ogress Drive, Sa	ukville, WI 5	3080 (414) 284-68	324	
J. Dee mondered in more intotally milete the completed form should be can	r ch NR 141, Wis Ad Code. In accordance with ch 1 100 for each day of violation. In accordance with ch ay of violation. NOTE: Shaded areas are for DNR use	44, Wis Stats, failur 147, Wis Stats, failur 147, Wis Stats, failu only. See instruction	e to file this form re to file this form are to file this for ons for more infor	top of this for may result in may result in mation includ	on as required by c a forfeiture of not a a forfeiture of not ing where the com-	ns 144,147 & 160, W less than \$10, nor mo more than \$10,000 p leted form should be	is Stats, re than for each

CI.0562

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

Letter Of Transmittal

Type of Submittal:

Program Assistant/BRR Program

From: Name Mary E. Clifford

Company Sigma Environmental Services, Inc.

To:

ERP (describe)

220 East Ryan Road Oak Creek, Wisconsin 53154

Phone

(414) 768-7144

Date

FOR:

9/13/02

Wisconsin Department of Natural Resources Box 12436 2300 N. Dr. Martin Luther King Jr. Dr.

Milwaukee, WI 53212

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

1	TYPE OF DOCUMENT/REPORT	FEE A	DNR (office use CODE only)
	Notification of Release	none	01
	Tank Closure/Site Assessment where release(s) have been dete	ected* none	33
	Site Investigation Workplan	\$500 if review is requested	35,135~
	Site Investigationgroundwater impacts above ESno groundwater impacts or gw impacts below ES (if petrole transferred to Department of Commerce)	\$750 if review is requested um constituents only, case will be	37, 137~, 76, 96
	Request to Transfer Case to Department of Commerce	none	76
	Off-Site Determination Request	\$500 mandatory	638~
	Remedial Action Options Plan	\$750 if review is requested	39,143~
	NR 720.19 Site Specific Clean-Up Goal Proposal	\$750 if review is requested	67,68~
	NR 718 Landspreading Request	\$500 mandatory	61~
	"Notification to Treat or Dispose" of Contaminated Soil/Water	none	99
	Injection/Infiltration Request	\$500 mandatory	63~
	Quarterly Report or Update	\$500 if review is requested	43, 43~
	O&M Form 4400-194	\$300 if review is requested	92, 192~
	Remedial Action Options Report	\$750 if review is requested	41, 41~
X	Closure Review Request	\$750 mandatory	79~
	NR700.11 Simple Site Closure Request	\$250 mandatory	183~
	"Draft Deed Affidavit" or "Restriction required for close-out"	none	99
	"Well Abandonment Forms"	none	99
	Remedial Design Report	\$750 if review is requested	147, 148~
	Construction Documentation Reports	\$250 if review is requested	151, 152~
	Long Term Monitoring Plan	\$300 if review is requested	24, 25~
	Voluntary Party Liability Exemption (VPLE) Application	\$250 mandatory	662
	VPLE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
	Tax Cancellation Agreement	\$500 mandatory	654
	Negotiated Agreement	\$1000 mandatory	630
	Lender Assessment	\$500 mandatory	686
	Negotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
	General Liability Clarification Request	\$500 mandatory	684
	Lease Letter Request - Single Property	\$500 mandatory	646
	Lease Letter Request - Multiple Properties	\$1000 mandatory	646
	Request for Other Technical Assistance	\$500 mandatory	90~
	Other (please describe)		

^{*}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
(Signature) 9-/6-0-2	- Committee of the Comm
Printed Name: Dave G. Bauer Co	ompany Name: Sigma Environmental Services, Inc.
Email address:dbauer@thesigmagroup.com	
If not site owner, relationship to site owner:environmental of	consultant
Address: 220 East Ryan Road	and the second s
Telephone Number: (414) 768-7144	FAX Number: (414) 768-7158
	170 1011001, 1414 1700-7100
Environmental Consultant (if different then above):	
Address:	
Telephone Number: ()	FAX Number: ()
. SITE LOCATION & ZONING	
VDNR Site Name: Clark Station #0562 Complete Site Address: 4751 Santa Monica Boulevard 53211	
VDNR Site Name: Clark Station #0562 Complete Site Address: 4751 Santa Monica Boulevard 53211	4 1 5 7 4 8 5 0
VDNR Site Name: Clark Station #0562 Complete Site Address:4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 FID #: 2	4 1 5 7 4 8 5 0
VDNR Site Name: Clark Station #0562 Complete Site Address: 4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 FID #: 2 ECFA Claim #: 5 3 2 1 1 - 1 0 4 3 - 5 1	41574850
VDNR Site Name: Clark Station #0562 Complete Site Address: _4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 _ 3 - 4 _ 1 - 0 _ 0 _ 0 _ 4 _ 5 _ FID #: 2 ECFA Claim #: _5 _ 3 _ 2 _ 1 _ 1 - 1 _ 0 _ 4 _ 3 - 5 _ 1 esponsible Party Name: Clark Retail Enterprises, Inc.	
VDNR Site Name: Clark Station #0562 Complete Site Address: _4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 _ 3 - 4 _ 1 - 0 _ 0 _ 0 _ 4 _ 5 _ FID #: 2 ECFA Claim #: _5 _ 3 _ 2 _ 1 _ 1 - 1 _ 0 _ 4 _ 3 - 5 _ 1 esponsible Party Name: Clark Retail Enterprises, Inc. complete Responsible Party Address: 601 South Main Street, A	Ann Arbor, Michigan 48104
VDNR Site Name: Clark Station #0562 Complete Site Address: _4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 _ 3 - 4 _ 1 - 0 _ 0 _ 0 _ 4 _ 5 _ FID #: 2 ECFA Claim #: _5 _ 3 _ 2 _ 1 _ 1 - 1 _ 0 _ 4 _ 3 - 5 _ 1 esponsible Party Name: Clark Retail Enterprises, Inc.	Ann Arbor, Michigan 48104
VDNR Site Name: Clark Station #0562 Complete Site Address: _4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 _ 3 - 4 _ 1 - 0 _ 0 _ 0 _ 4 _ 5 _ FID #: 2 ECFA Claim #: _5 _ 3 _ 2 _ 1 _ 1 - 1 _ 0 _ 4 _ 3 - 5 _ 1 esponsible Party Name: Clark Retail Enterprises, Inc. complete Responsible Party Address: 601 South Main Street, A	Ann Arbor, Michigan 48104
VDNR Site Name: Clark Station #0562 Complete Site Address: 4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0	Ann Arbor, Michigan 48104 /W) Town: Milwaukee Longitude: ° ′
Clark Station #0562 Complete Site Address: 4751 Santa Monica Boulevard 53211 VDNR BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 FID #: 2 ECFA Claim #: 5 3 2 1 1 - 1 0 4 3 - 5 1 esponsible Party Name: Clark Retail Enterprises, Inc. complete Responsible Party Address: 601 South Main Street, Active Legal Description: NE ¼, NE ¼, Sec 5, T 7 N, R 22 (E) ounty: Milwaukee Latitude: X using RR GIS Registry on screen dig	Ann Arbor, Michigan 48104 /W) Town: Milwaukee Longitude: ° ′

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 corridors, basements or sumps of nearby buildings, direct contact threat from soil, water supplies, surface waters, sediments, etc.) (For 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 contact
treat does not appear to be present onsite.
Have the remedial actions abated the potential or actual impacts to these receptors? Yes _X_ No If no, provide details in case summary. If yes, please identify the nature of the remaining risk and the receptor at risk:
3. SOIL INVESTIGATION INFORMATION Extent Defined?X_ Yes No
Soil Type(s):sand and clayey sand Depth of Contamination:6-13 feet bgs
Type of Bedrock:not encountered Depth to Bedrock:N/A
Is any contaminated soil (unsaturated or saturated) in contact with the bedrock? Yes _X _No
List all contaminants found in soil (regardless of ch. NR 720 standards/attach table if necessary) Ethylbenzene, xylenes, benzene, toluene. Refer to Subsurface reports dated August 1992, June 1993, and March 1994
4. SOIL REMEDIATION INFORMATION Remedial Action Completed? X Yes No s. NR 720.19 Analysis? Yes _X No If yes, attach supporting documentation Were Immediate or Interim Actions Conducted? Yes _X No If yes, what action was taken?
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 ³ , 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 ft ³ , (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 BRRTS CASE #: 0 3 - 4 1 - 0 0 0 4 5 0 WDNR SITE NAME: Clark Station # 0562
NR 141 Monitoring Wells Sampled: 9
Recovery Sumps Sampled: # Municipal Wells Sampled:
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
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
Brief description of remedial action taken:
of Sample Rounds: Yes No Lab Analyses? Yes No
of Sampling Points: Yes No
7. PATHWAY TO CLOSURE PROPOSED AND ASSOCIATED SITE INFORMATION:
<u>Soil</u> <u>Groundwater</u>
<s. 1="" 140.10="" 2="" 720.09="" 720.11="" and="" generic="" nr="" rcls<s.="" table="" td="" values<=""></s.>
s. NR 720.19(2) Soil Performance Standards (SPS) s. NR 140.28(2) PAL Exemption s. NR 720.19(3) Site Specific Standards (SSRCLs) s. NR 726.05(2)(b), > ES Natural Attenuation
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 - 0 0 0 4 5 0 V	WDNR SITE NAME:Clark Station # 0562
Petroleum Storage Tank Soil Options for Closure s. NR 746.07 Soil Screening Levels/Post Investigation X s. NR 746.08 Soil Screening Levels/Post Remediation	Petroleum Storage Tank Groundwater Options for Closure s. NR746.07>PAL <es investigation="" low="" nr746.07="" permeability="" post="" s.="" site="">ES, Permeable Site, Post Investigation s. NR 746.08>ES, Low Permeability Site, Post Remediation X s. NR 746.08>ES, Permeable Site, Post Remediation</es>
A. Enforcement actions closed out? Yes No	N/A Permits closed out? Yes No N/A
B. Proposed post remediation land use: Residential	Commercial Industrial Other Specify:
C. Does remedy include Soil Performance Standards (SPS)? Type: Cap Soil Building Specify:	Yes _X_ No Natural Attenuation of Groundwater Other
Will the proposed post remediation land use be consiste Why?	ent with the maintenance of the SPS? Yes No
	Yes No (Proof can either be the actual entire page of the
Maps and photos attached documenting the cap area, of	construction, and/or the integrity of the cap?YesNoN/A
A maintenance plan is attached for the performance sta YesNo	andard per ss. NR 720.19(2) and 724.13(2), Wis. Adm. Code?
D. Does remedy include SSRCLs?Yes _X_No ls post-remedial land use industrial?YesNo	
Is zoning change required or completed?YesNo If yes, have you attached verification of the zoning for	affected properties?YesNo
Complete assumptions and calculations for SSRCLs attached	with justificiation?YesNo
If using EPA Soil Screening Level Model as justification for (circle one) site specific inputs or defaults and are continuous are continuous.	closure of sites with residual contaminated soils, are the numbers used: alculations and results attached?YesNo
E. Does remedy include natural attenuation of groundwater only Mann-Kendall/Mann-Whitney U Results attached? X Y	? (i.e., there is no residual soil contamination?)YesNo /esNo (required for ch. NR 746 permeable sites)
F. Describe how the following pathways are protected: 1) Direct Contact Pathway: The majority of the site is	covered by asphalt or congrete and etteched
	ally decreasing and is excepted to continue by natural attenuation, see
attached report.	g and to occupied to continue by natural attenuation, see
Deed Notice	3. RR-606) el/ and when performance standard requires maintenance plan) nination, provide notice as required (See item (E) in the case summary
Other	No (see RR web site: http://www.dnr.state.wi.us/org/aw/rr/index.html) NR 4400-202 (rev. 11-20-01
	1411 1100-202 (160. 11-20-01

	FOR	DEPARTMENT USE ONLY			
ROJECT MANAGER:		Date Revie	ewed:		
IRST REVIEW DATE:		[] Approved	[] Denied		
Signature)	(Signature)	(Signature)		(Signature)	
ECOND REVIEW DATE	B	[] Approved	[] Denied		
Signature)	(Signature)	(Signature)		(Signature)	
OMMITTEE RECOMMI	ENDATION:				
Closure Approved					
Listing on Zoning Ver	GIS Registry ification		3		262
Deed Notic	e ic Close Out Letter				
Soil Dispos Public Noti	ce of soil performance standard re	emedy			
	emption For:				
Clause Device A N					
Closure Denied, Nec Investigation Groundwater Soil Remedia	Monitoring				
Groundwater Documentati	tion Remediation on of Soil Landspreading or Biopil ments:	e Destiny			
		Andrew Barrer			



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

Min

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."

Rand Brown Garloy A P.G. Stamp Date

"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."

DAVID

AMILWAVKEE

WI 9-16-02

Signature and title

P.G. Stamp

"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."

Many Cliff 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 yd³ 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.

GROUNDWATER QUALITY RESULTS

SUMPS

							5-5								0.0			
CONTROL WILL	0001101100	Marteriana Actionation	ATTENDED OF THE PARTY						-				The second	William Co. Committee	2-5	Section Section 2		
CONSTRUCTOR	06/10/1990	0241941950	D11/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1899	02/28/2000	05/24/2000	10/05/2000	04/62/2001	07/23/2001	10/30/2001	10/05/2000	04/02/2001	07/23/2001	53	pai
Senzene	120	36	64	1.8	32	14	6	<0.27	42	105	38	160	48	280	dan	AKN	3	1 20
Ethydbenzene	160	30	98	1/0	150	35	23	0.38	2.2	5.5	35	3.8	36	26	000	2000	0	0 3
Toluene	15	11	27	1.6	15	22	7.6	0.63	8.4	4.4	***	2000	3	3	AG .	1900	700	140
Woman to comme								200		0	O.	200	210	250	450	8500	1000	200
i Didi Ayıtının	1,200	380	099	40	058	134	20	63	38	m	144	270	221	025	1 030	0.850	******	AMONA
1,3,5-Trimethylbenzene	290	27	96	12	110	13	15	-G27	8	1	30	3)	100	36	5	COOK.	Conner.	יחחו
1,2,4-Trimelhylbenzene	1,360	200	880	25	790	280	240	so.	80	44	330	200		VC)	EEN CON	30.	nor	2
Methyl Tert Butyl Ether	<50	410	<50	8.2	3.3	<0.44	<0.64	<0.32	3.0	4,4	i i	430			8 3	3,600	400	8

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

Groundwater recovery system started on October 21, 1996

Shaded = Exceeds WDNR Enforcement Standard

= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard

= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit

= Sumps located within the tank basin. Installed with tank installation

= Groundwater extraction wells 5

= Not Tested H

■ No Establish Standard

= Free Product in well 1 2

								CASO MONATES CLASSING SESSES CLASS SESSES CLASS SESSES SESSES SESSES SESSES SESSES SESSES	CLARCE STANDS BONE										
																	n.		
									Sampling Date	Date						i e			
COMPOUND	10/11/1996	02/21/1997	05/21/1997	7 08/28/196	71 02/18/19	98 05/19/19	98 07/23/198	11/24/19	198 03/24/19	1005,000 (1005,000) (1	39 10/11/198	9 02/28/200	06/24/2000	10/05/2001	100//20/190	1000226720	1002/22/01	ů	š
	<1.0	<1.0	<1.0	<1.0	Not	41.0	IN	¥	<0.26	M	<0.27	ĮN.	FN.	TN	<0.29	<0.45	<0 de	e u	200
Ethytoenzane	<1.0	<1.0	<1.0	<1.0	Sampled	d <1.0	F	IN	<0.24	k	<0.32	TN	TN	FN.	<0.57	<0.82	08.00	7007	980
Toluene	<1.0	<1.0	<1.0	<1.0		<1.0	TN.	IN	<0.21	Þ	<0.27	TN	M	FN	<0.13	<0.68	40.68	1000	200
Total Xylenes	61.0	0.10	41.0	41.0		<3.0	TN	IN	<0.97	TN	<0.43	TN	I.N	TN	<0.63	52.47	42.47	10000	1000
1,3,5-Trimethylbenzene	41.0	<1.0	<1.0	<1.0		<1.0	IM	TN	<0.54	FN	<0.27	TN	₽N.	IN	<0.29	<0.94	<0.94	,	+
1,2,4-Trimethylbenzane	c4,0	4,0	<t.0< td=""><td>4.0</td><td></td><td>41.0</td><td>IN</td><td>TN</td><td><0.86</td><td>TN</td><td><0.27</td><td>IN .</td><td>TM</td><td>FN</td><td><0.34</td><td><0.92</td><td>26.00</td><td>1</td><td>1</td></t.0<>	4.0		41.0	IN	TN	<0.86	TN	<0.27	IN .	TM	FN	<0.34	<0.92	26.00	1	1
Trimethyberizene	2.0	45.0	<2.0	<2.0		<2.0	IN	TN	<1.40	IN	<0.54	IN	M	M	<0.63	<1.86	4.86	480	96
Methyl Text Budyl Ether	<10.0	<10.0	<10.0	<10.0		×10	¥	Ħ	<0.22	IN	<0.32	TN	IN	NT	<0.20	<0.43	<0.43	99	12
Gasoline Range Organics	<0.1	NT	IN	N		TN.	IN	Į.	Į.	F	K	F.	F	M	M	M	k	1	1
Lead - Solutile	41.5	TN	IN	IN		IN	Ā	TN	TN	¥	FM	IN	TN	IN	-N	TN	Į.	15	4.8
Key:	All results in Broundwater	All results in micrograms per itter (ug/l), except GRO that is Groundwater recovers sween started on October 24, and	per liter (ug/	fil. except G	RO that is	in milligrams	All results in micrograms per iller (ug/l), except GRO that is in miligrams per liter (mg/l). Grounthualet retronve seletan danted on Carlana 24 anna	0											3
	Remediation	system shat	down Spring	3 of 2000 (b	efore 5/24/2	Remediation system stratown Spring of 2000 (before \$724/2000 sampling)	13												
	Shaded = E	= Expeeds V	Sobeds WDNR Enforcement Standard	rosment St.	andard														
	ES	= Wisconsin	Administrati	ive Code, C.	hapter NR 1	40 Enforcem	■ Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard												
	PAL	= Wisconsin	Administration	We Code, C	hapter NR 1	40 Preventiv	Sconsin Administrative Code, Chapter NR 140 Preventive Action Limit	-											
	M	= Not Tested	73																
	1	# No Establish Standard	ish Standard																
n el	œ.	= Free Product in well	uct in well																
	BOLD	= Concentrations above NR 140 ES	ions above !	NR 140 ES															

	1		Apren St.																			
1										Sampling Date	9											
COMPOUND	07/18/1995	07/18/1965 08/30/1995 10/11/1996 02/21/1997 05/21/1997	10/11/1998	02/21/1997	05/21/1997	08/28/1997	02/18/1998	05/19/1998	07/23/1998	11/24/1998	O5/19/1998 07/23/1998 11/24/1966 03/24/1999	07/20/1999 10/11/1989	10/11/1989	05/28/2000	02/28/2000 05/24/2000	supciedra othersuch	odinarana s	1000000000	A CONTRACTOR	6	······································	
Benzera	2,260	1,190	2,100	444	331	127	72	29	-50	18	995	ct3	<6.8	<0.27	<13	<8.8 8.8 8.8 8.8 8.8 9.8 <b< td=""><td>c12</td><td>233</td><td>744</td><td>2</td><td>200</td><td></td></b<>	c12	233	744	2	200	
Ethylbenzene	2,130	1,350	3,280	1,660	2,350	2,380	200	2,100	2,000	1,700	1,400	1,500	2,100	88	470	1 900	1 500	2 600	4.700	2000	200	
Tokkene	3,340	3,720	16,700	1,710	1,610	87.6	7.0	280	1,200	390	930	490	476	N	13	750	49	276	440	4 000	300	
Total Xylenes	10,340	5,780	17,600	8,110	8,200	6,480	4,800	8,700	11,006	5,600	908'9	8.700	9,900	147	2,250	10,250	9.200	11,600	7,900	to one	1,000	
1.3.5-Trimethylbusizene	349	189	189	211	563	203	420	330	460	270	260	\$20	330	9	110	450	750	980	350	1		
1.2.4-Trimethyfbenzene	1,650	840	2,470	9116	1,500	2,550	1,500	980	1,800	1,200	1,200	2,100	1,900	202	390	2,000	3,300	4,000	2,000	1	T	
Total Trimethylbergene	1,999	1,039	3,151	1,127	2,063	3,182	1,920	1,310	2,060	1,470	1,460	2,620	2,230	76	900	2,450	4.050	4.890	2350	480	30	
Methyl Tert Sutyl Ether		95>	¢10	<10	72	<125	<50	<250	<\$00	<5.5	45.5	493	48.0	<0.32	54.1	0.65	999	-03	1115	Sen Sen	2	
Gasolne Range Organics	43,600	NT	MT	LN	NT	NT	IN	TN	IN	N	N	LN	TN	NT	TM	T/N	Į,	LN	12	+		
Lead - Soluble	*	IN	<15	TM	NT	NT	NT	M	TN	TN	TN	NT	MT	TN	LN.	MT	5	Mr	5	146	:	1
Key	All results in a Proundwater	All results in mismograms per ales (sign), except GRO that is in milligrams per liter (mg/l) Groundwater recovery system started on October 21, 1996.	r Ber (ugil), ew m started on (cept GRO In. October 21, 11	of is its million	ams per Rer ((lyđu														3	
. **	Remediation	Ramediation system shuddown Spring of 2000 (before 5/24/2000 sampling)	wn Spring of 2	000 (before 5	5/24/2090 sa	(Oujdu																
	Shaded	= Exceeds WDNR Enforcement Standard	DNR Enforces	nent Standart	77										-						unnika 	
	ES	= Wiscolusin Administrative Code, Chapter NR 140 Enforcement Standard	dministrative C	ode, Chapte	r NR 140 En	forcement Sta	ndard														1	
	PAL	= Wacconsin Administrative Code, Chapter NR 140 Pre	dministrative C	ode, Chapte	INR 140 Pre	ivertive Action Limit	Limit														Marco II.	
	NT	= Not Tested									1	2										
	1	= No Establish Standard	1. Standard																		nd char	
	4	= Free Product in well	1 in well																			
	BOLD	BOLD = Convenience shows NO 110 Ec	or shown MD	93,01																		

									GROUNDY COCK	FABLE (CORP) GROUNDWATER OUNTY ARESULE COARPEATON PORT BOOKED ON ALL BAYE.	onth interesty. by admin											THE POPULA
										Sampling Date	g Date											-
COMPOUND	04/28/1993	04/28/1993 06/29/1994 10/31/1994 10/11/1998 02/21/1987	10/31/1994	10/11/1996	02/21/1987	7881/1290	05/21/1997 08/28/1997	02/16/1998	05/19/1998	07/23/1998	1724/1998	3724/1989 0	120/1998	011/1909	an announce	W 0000760	Out out of	02/6/1938 05/19/1999 07/23/1999 15/24/1999 05/24/1999 07/27/1999 15/24/1999 1				
Benzene	QN	16	e.0.e	5.6	10.5	2.8	2.7	41.0	3.1	41.0	<0.26	<0.26	<0.26	20.02	20 02	20.30	Se of	מיטיים חוואסטיים	2	1	PAL	-
Ethylbenzene	ON	<1.0	<1,0	41.0	<1.0	<1.0	c1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24	<0.32	<0.32	+	+	CO 67 CO 829	40.80	0 0	60	_
Tolsene	QV.	<1.0	<1.0	<1.0	41.0	<1,0	6.10	<1,0	41.0	0.10	<0.21	0.2	40.21	<0.27	<0.27	+	+	+	+	400	200	7
Total Xylenes	QN	<3.0	<1.0	<3.0	0.6	<3.0	<3.0	<3.0	<3.0	43.0	<0.97	76.0⊳	76.0>	<0,43	<0.43	-	+	+	+	10.000	1 000	_
1,3,5-Trimethylberzene	Q	<1.0	<1.0	<1.0	41.0	<1.0	c1.0	41.0	c1.0	<1.0	<0.54	<0.54	<0.54	<0.27	<0.27	+	+	+	+	1	-	_
1.2.4-Trimethylbercene	9	4.0	<1.0	0,0	<1.0	حر.0	<1.0	<1.0	<1.0	<1.0	<0.86	<0.86	<0.86	<0.22	40.22	<0.86	0.37 <0	+	+	480	98	
Total Trimethylberzene	Q	0.2	<2.0	42.0	<2.0	42.0	<2.0	42.0	<2.0	42.0	<1.40	<1.40	<1,40	<0.49	<0.49	<1.40	+	c0.63 <1.86	-	480	8	-
Methyl Tert Budyl Ether	Q	250	130	50.5	11.4	112	29.5	05>	<10	15,0	11.0	14.0	4.7	5.4	3.8	+	+	+	+	8	45	-
Gasoline Range Organics	<0.1	0.16	20.0	TN	IN	TN.	TN	TN	M	F.	Į.	F	ΝΥ	Į.	IN	ħ	+	+	1	3		nespeo
Lead - Soluble	<5.0	<3.0	<2.0	TN	NT.	¥	TN	TN	M	TN	IN	TN	TN	FN	TN.	TN	-	+	5	44	4.5	owyou.
Key:	All results in	All results in micrograms per liter (ug/l), except GRO	per liter (ug/l).	except GR(that is in milligrams per liter (mg/l)	liter (mg/l)										+	+		2	3	-
	Groundwate	Groundwater recovery system started on October 21, 1996	stem started o	on October 2	1, 1996																	-
	Remediation	Remediation system shuldown Spring of 2000 (before 5/24/2000 sampling)	down Spring o	of 2000 (bef	ore 5/24/200	(Sulldures (TOTAL SECTION AND SECTION ASSESSMENT
	Shaded	Shaded = Exceeds WDNR Enforcement Standard	VDNR Enforce	ement Stan	Jand																	
	ES	= Wisconsin	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	Code, Chal	pter NR 140	Enforcement	Standard															_
	PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	Administrative	Code, Cha	pler NR 140	Preventive A	ction Limit															
	N	= Not Tested																				_
	1	= No Establish Standard	sh Standard																		********	*****
	FP	= Free Product in well	act in well																			-
	BOLD	BOLD = Concentrations exceed NR 140 ES	N peacose suo	IR 140 ES																		

										8	TABL XINDWATE CLARK 3 AKONITORI	TABLE 1 (Cont.) GROUNDWATER QUALITY RESULTS CLARK STATION MOGIZ MONTORING WELL MINE	TESULTS W2 M46								N CONTROL			
		1									Sila	Sampling Date												
COMPOUND	07/16/199	26 04/26	07/16/1992 04/26/1993 06/28/1994 10/31/1994 10/11/1986 02/21/1997 05/21/1997	994 10/31/1	1011	71996 0272	780 78617		Dar28/1097 02	02/18/1998 05/18/1908	919/1998	8001/E0/20	11/24/1008	FUZAROBA MANAGOTA GOSTAGOSA MANAGOTA	- Torvidge	OLOSOPH O	- Contraction	CONTRACTOR NEW CONTRACTOR					j	
Bergene	10,000		9,900 16,000	10,000		12,000 7,1	7,896 2	2,480	1729	1,100	380	430	2,300	3.800	630	1,600	1 300	4 300	440	440 0123/2001		10/22/2001	Sa.	PAL
Ethyteraene	300	6	90 930	1,200		2,340 4	474	340	398	35	23	81	58	23	130	180	146	110	07	8 89	230	000	200	9
Tolueno	250		160 310	320	7.1.7		80.8	123	62.9	010	n	<10	6.2	19	100	13	10	27	22	35	NA A	100	2000	300
Total Ayenes	1,580	3	370 4,400	4,610		8,500 1.0	1,320	431	276	000	1100	29	12	24	141	3	5.4	cali	18.8	326	281	10.1	40,000	Ann a
1,3,5-Trimethybergene	<250	Z	ND 300	380		1,000	265	141	69	2.8	210	3	412	etta	80	-6.4	427	<27	0.4	3.1	610	24.7	10,1000	1, SAND
1.2,4-Trimethybetzere	<250	Z	ND 1,200	1,400	3,410		822	365	1,140	23	490	280	28	42	136	38	19	543	19	=	400	130		
Total Trimethy Sergene	<500	QN	1,500	1,785		4,410 1,0	1,087	200	1,203	47	780	344	28	95>	138	38	18	470	6)	- 43	907	130	180	1 8
Methyl Text Butyl Ether	<250	Į.	340	150	410		27.1	34	<125	990	95	<100	36	15	2.1	8.8	6.9	ctt	0.69	<0.20	co Mil	100	5	2
Gappine Range Organics	10	18	82 59	33	M		NT	NT	TH	IN	TIN	TN	TN	5	NT	NT.	TN	r.	- NT	120	No.	174		2
Lead - Souther	0.45	<5.0	0 <0.0	0.25	INT NT		M	M	IN.	TN	M	tv.	MT	P.N.	TN	NT	PA PA	PN.	TA.	100	15	T		1
Yes.	All torsults in	в тестория	All tosults in micrograms per filer (up/IL except GRO that is in militarisms per ther (mg/ls)	TL except GR	O that is in	т. Врезтв ре	r liter (mg/l)					-										T IN	2	2
	Groundwate	er recover	Groundwater rocovery system started on October 21, 1956	I on October	21, 1056		100000000000000000000000000000000000000												-					
	Remediato	an system	Remediation system shadown Spring of 2000 (before 5/24/2000 sampling)	g of 2000 (bet	fore 5/24/20	(gramping)																		
	Straded		= Exceeds WDKR Enforcement Standard	proemers Sta	ridad																			
	ES	a Wiso	# Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	tive Code, Ch	Tapter NR 14	10 Enforcemen	art Standard	عروا																
	PAL	* Wisc	* Wiscondh Admiristrative Code, Chapter NR 140 Preventive Action Limit	the Code, Ch	Lapter NR 14	10 Preventive	Action Limit					1												
	N.	* Not Tested	ested																					
	į	= No E	= No Establish Standard	p																				
	d	# Free	= Free Product at well																					
	BOLD	* Como	= Concentrations Arresed NR 140	d'NR 146															10					

E FE I

2 1, 9

				ŀ					// <u>*</u>	GEARK	GROUNDHATER CHALITY RESULTS CLARK STATION RUSES MONTORNO WELL KINS	0ESUL.75 62 14-5									132		
											Sampling Bale										3		
COMPOUND	5571611952	04/26/1993	06/25/1594	10/21/1994	1011/1996	02/21/1097	05/21/2897	7881185790	8081/81/20	dS/15/19/8	67.23/1958	11/24/1948	000341190h	077201080	In teriode	opinion of	Na Assessed	-			7	3	
Benzens	6,900	2,600	3,600	5,400	4,430	4.350	68.7	3,340	4.800	3,806	756	-	-	-	-	-	-		Decognosis of	07/23/2301	1000000	53	d d
Ettr/barcers	2,209	630	1,200	1,800	2,660	1,650	1,660	1,629	2,100	1,900	430	1,000	1.500	1 600	1.400	1 400	446	2000	nia a	000	0/9	0	200
Tolagoe	1,800	5,700	3,290	3,400	1,110	SH	999	839	905	1,000	95	210	430	216	410	900	90,1	100	2000	100	1,300	700	000
Total Assertes	12,700	3,700	6,600	8,100	8,040	6,230	5,700	6,530	7,600	7,100	820	2870	5,040	3.510	4 560	4 760	2 600	4 200	2000	9	000	000	900
1.3.5-TrimeByBonzers	1,300	340	200	300	366	288	305	433	929	400	18	240	310	216	240	350	989	280	230	360	270	10,000	1,000
1,2,4-Trimufflyfiblinderse	2,500	410	75	1,000	1,320	196	1,160	1,600	1,700	1,300	250	900	1,100	7007	980	OHB	989	990	099	1000	1 800	1	
Titles (remoltry@securations)	3,400	750	930	1,300	1,686	1,232	1,465	2,053	2,250	1,790	37.1	1,040	1,410	910	1,200	1,540	710	1.170	1,160	1000		No. of	2
Mechyl Terr Budyl Eshae	1	M	<100	120	910	clo	202	4250	<500	995>	<100	6.8	22	46.5	0.00	481	42	7	4.5	100		1 5	1
Gardine Ranga Ospances	iX.	31	20	36	NL	MT	NT	PM.	MT	NT	MT	MT	E	N.	MC	MT	154	100	1 5	1		1	,
Lond - Sol. trie	4	980	3.4	4.2	NO	MT	18E	NI	121	N.T.	LN	170	MIT	373	150	1	300	1	1		1	1	
į	All results in micrograms per ider (ugh); except GRO that is Connections	All models in micrograms per Her (ugh), except (SRO, that is in militarins per Ner (mgs)	der (ugh), except	4 580 Ball is	in miligrams po	the (mot)											ŧ		ž	ž	NI NI	9	2
. 1	Remediation sys	Pathwelaton system shadown Spring of 2000 (betwee 5,24,2000 samping)	Spring of 2000	Coefore 5.24.2	300 sampling)																		
	Shaded	* Escents WDNR Entroperant Blandard	NA Enforcemen	d Shandard																			
	ES .	* Wisconsh Administrative Code, Chapter NR 140 Enforcement Standard	minstrative Co.	te. Chapitar NP	140 Enforcement	mi Standard																	
	pat	= Wascanga Admenistrative Code, Chapter NR 140 Preventore Action Lines	mentitratus Co.	Se. Chapter NR	1 (40 Presembles	Action Limit																	
	NT =	a filed Testled																					
	1	# No Establish Standard	Standard																				
	4	# Free Plocket as well	No. teepff.																				
	8010	Concentrations	2.3 Carc Ref begons exchanged RER 540 E.S.	0.63																			

										TABLE 1 (CONT.) GROUNDWATER OLALITY RESULTS CLARK STATION #8862 MONTORING WELL MW-2.	TABLE 1 (CONL) MDWATER OLALITY RESI CLARK STATION #5362 MONITORING WELL MW-2	ESULTS											
				lſ						S	Sampling Date												
COMPOUND	07/16/1992	04/26/1993	QT/18/1982 GAZEE/1993 GBZBH1994 (DST1159A 10/11/1996) GZ/27/1997 GBZ2H1997 (BBZ2B/1997	10/31/1984	10/11/1896	02/21/1997	7861/15/50	D8/28/1997	02/18/1998	06/01/1998	7723/1998	3/24/1906 0	05/07/1988 (7723/1988 11/24/1938 (1727/17) (see 1777/1938 1777/193	20011000	0.0001.1100	o portuciono	- Constant				Y		
Benzene	29,000	15,000	15,600	FP	9	NS	g.	892	Nex	190	69	1.400	120	150	126	1 400	s Ann	340	Deruzzoun unzarzoun rozzozon	TIZS/ZOUT	CVZZZGO1	ES	PAL
Ethytbenzene	1,500	1.400	1,200		(0.04;)			808	Sampled	170	4.8	480	126	160	960	330	000	Open Open	17	17	787	0	9.5
Toluene	35,000	34,090	28,000		i i			7,400	Could not	2.500	740	1.400	929	820	940	Sen	7007	240	150	011	8	200	140
Total Xylenes	8.000	14,006	23,000					22,100	locate	5.700	1,500	0.100	& ROM	and ex	2000	000	Work when	240	700	2	120	000	982
1,3,5-Trisnethylbertzene	<1.0	1,300	900					1 820	chasto.	1 500	280	vide.	2 4400	anning of	201100	200	2000	0000	4.200	3,800	4,400	10,000	1,000
1.2.4-Trimethy/Deruzene	8	1,500	3,500	-			I	6780	Brichie	3 600	200	our c	0.000	1000	000	2000	1,000	1.200	1,300	1,300	1.600	1	1
Total Trimethy/benzene	10	2.600	4 300					D dech		200	2	2,400	4,900	3,700	4 100	3,100	2,506	3,000	3,100	2,500	3,400	1	1
Marked Took Dated Patrice	1							0000's		2000'6	1,010	3,250	4,100	4,900	5,300	4,200	3,500	4,200	4,400	3,800	5,000	480	96
menay ten buly cure	1	2	002>	1				<500		4250	×100	8.5	elt	<5.5	\$15	46.4	275	16.0	6,40	16.0	stta	09	12
Gasoine Range Organics	_	19	106					IN		IN	TN	NT	NT	ž	N.T	NT.	NT	TN	ž	NT	LN.		T
Lead - Soluble	Į.	36	<3.0				*	IN		NT	1×	NT	MT	TN	TN	IN	NT	TN.	N.Y.	128	TAX.	#	T,
Key	Al results in Groundwater	microprams r	ATresults in microprams per tiller (upil), except GRO, that is in milli Groundwater recovery system stanted on October 21, 1996	except GRC in October 2	O that is in in 21, 1996	niligrams per	grams per iter (mg/i)															2	2
	Remediation	system shut	Remediation system shuldown Spring of 2000 (before 5/24/2000 sampling	4 2000 (befo	ore 5/24/200	(sampling)																	inqueria
	Shaded	= Exceeds W	= Exceeds WDNR Enforcement Standard	entent Stan	dard																		mundo
	83	= Wisconsin a	 Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard 	Code, Char	pter NR 140	Enforcement	Slandard																Made
	PAL	= Wisconsin A	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	Code, Chap	pter NR 140	Preventive A	ction Linst																
	IN	= No! Tested																					
	1	= No Establish Standard	sh Standard																				
38 ²	4	= Free Product in wei	act in weil																				
	BOLD	⇒ Concentrate	BOLD > Concentrations exceed NR 140 ES	R 140 ES																			

1000

									1							1					AC.		
				_	-	-					dampling Date						-						
COMPOUND	07/16/1992	04/26/1993	07/16/1992 04/26/1993 06/29/1994	10/31/1894		10/11/1896 02/21/1997	05/21/1997	08/28/1997	02/12/1998	05/19/1998		07/23/1998 11/24/1998 03/24/1999	03/24/1999	07/20/1999	10/11/1999	02/28/2000	005/24/2000	PODCECOLDO COLOSCOLOS		100000000000000000000000000000000000000	100000001	6	
Benzene	800	QN	350	210	2.9	1,0	c1,0	<1,0	Not	<1.0	IN	TN	1.4	TN	<0.27	TN.		TW		100715000	10070701	CH .	PAL
Ethylbenzene	750	QN	510	170	0.6	0.15	61.0	41.0	Sampled	3,3	K	TN	<0.24	TN	4033	TN	- LN	T L	2300	0.60	i i	0	0.5
Toluene	€00	QN	34	13	<1.0	41.0	<1.0	<1.0		41.0	FN	TN	<0.21	LN.	<0.27	100	1 12	2 2	10.00	20,052	Z I	90/	140
Total Xylenes	3,200	7	1,100	245.4	<1.0	43.0	<3.0	<3.0		43.0	TN	TN	40.97	-N	<0.43	IN	Þ	5 5	CO 63	800	2 1	1,000	200
1,3,5-Trimethylberzene	09>	ND	65.0	<1.0	41.0	c1.0	41.0	<1.0		41.0	Į.	TN	<0.54	N	<0.27	TN	15	14	00.00	100	1	000'01	1,000
1,2,4-Trimethylbenzene	-\$6	QN	8	2.5	<1.0	<1.0	<1.0	0.15		4.3	TN	TN.	<0.86	TN.	40.77	FN	TN	The same	20.00	200	2 4	1	
Total Trimethylbenzenes	<100	QN	80	2.5	<2.0	42.0	<2.0	42.0		4.3	TN	TN	04.0	M	28.00	5	TA	1	200	70.00	2 1	1 00	1 3
Methyl Tert Butyl Ether	<50	QN	0.5	8.8	c10	410	<10	oto		<10	TN	NT	16	Į.	00.30	5	F 14	NIT NIT	20.00	87 5	ž	480	98
Gasoline Range Organics	7	<0.1	3.5	1.1	2	TN	IN	IN		TN	TN.	TN	Į.	M	451	1	1	2 4	60:0	2 1	2	3	12
Lead - Soluble	0.40	9.65	<3.0	42.0	QN	IN	ħ	TW		- NA	Lin.					1	IN!	Z.	Z Z	N.	N.		,
Xey	All results in m	ic morame o	ar Bar (soll)	Average GRO	that is in milli-	All results in micrograms care then fundily except CRO that is in millionne near than formal	The same					IN	INI	N.	N	N	NI	NI	M	Į.	Z.	15	1.5
	Groundwater recovery system started on October 21, 1996	se covery sys	tem started o	in October 21,	1996	grams per mer	()diu)																
	Remediation system shutdown Spring of 2000 (before 5/24/2000 sampling)	system shutch	Yown Spring o	7f 2000 (before	8 5/24/2000 s	(Building)																	
	Shaded	= Exceeds 1	WDNR Enfor	 Exceeds WDNR Enforcement Standard 	pie																		
	ES "	= Wisconsin.	Administrativ	e Code, Chap	ter NR 140 E	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	ndard																
	PAL =	= Wisconsin.	Administrativ	e Code, Chap	ter NR 140 P.	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	n Limit																
	II II	= Not Tested	77																				
	1	= No Establish Standard	sh Standard																				
	e de	= Free Product in well	uct in well																				
	BOLD	Concentrate	Concentrations exceed NR 140 ES	NR 140 ES																			

					200000																		
										20	Sampling Date												
	07/16/1992	04/25/1993	06/29/1994	10/31/1994	07/16/1992 04/26/1993 08/29/1994 10/31/1994 10/11/1996 02/21/1997 05/21/	02/21/1997	05/21/1897	08/28/1997	02/18/1998	05/19/1999	07/23/1996 11/24/1998	11/24/1998	03/24/1999 07/20/1990		20/11/1999	nonciecion	0000000000	00000000	- Common of	-			
Bertzene	<1.0	QN	-	<0.6	41.0	<1.0	41.0	<1.0	Not	010	IN	M	20.00	_	_			a consequent	_	00/23/2001	10/22/2001	ES	PAL
Ethylberzene	<1.0	QN	<1.0	41.0	<1.0	<1.0	410	0.75	Commoded	1			07.0	NI NI	40.27	IN	5	The last	<0.29	<0.45	<0.45	2	0.5
Toluene	<1.0	GN		677	2.0			2	радинее	0.12	N	IN	<0.24	N	<0.32	M	TN.	N.	<0.57	<0.82	<0.82	200	140
Total Yolenee		2		277	7.7	41.0	c1.0	4.0		4.0	IN	N.	<0.21	ħ	<0.27	TN	TN.	TN.	<0.13	<0.68	<0.68	1000	200
Spiritally series	0,12	QN	28	41.0	7.3	<3.0	<3.0	0.0		<3.0	TN	F.	<0.97	¥	<0.43	TM	F	Į.	<0.63	0.47	29.62	40000	1
1,3,5-1 rimethylbenzene	41.0	Q	2.8	<4.0	1.5	<1.0	<1.0	<1.0		<1.0	TN	TN	<0.54	M	2000	NT.	NA.	414	2000	1	,	20001	1000
1.2,4-Trimethylbenzene	<1.0	Q	10	<1.0	4.3	<1.0	<1.0	<1.0		910	TW.	and a	900	1	-	1			40.23	40.94	<0.94	1	1
Total Trimethylbertzene	42.0	N	13	<2.0	5.8	200	200	000	1			100	40.00	Z	40.27	NT.	TM	NT	<0.34	<0.92	<0.92	ı	1
Methyl Tert Butyl Elber	3	CN CN	40	0,50	40		7	3	1	62.0	N.	P.	414	M	<0.54	M	TN.	M	<0.63	<1.86	<1.86	480	96
Gacoline Bases Omeran	,	2	21.0	0'15	OLS	<10	410	410		×10	TN	NT	40.22	TN	<0.32	NT	Ā	M	<0.20	<0.43	<0.43	99	43
Carolina Carolina	0	40.1	0.11	≪20	TN	ż	ķ	TN		TN	TN	I.V	TN	NT.	L'2	MT	ALT.	1				3	
Lead - Solubie	04.0	9.0	0.6>	<2.0	TN	M	-N	TN		IN.	5	15	A.V.	-	-	-			N.	N	Į.	ı	1
Key: A	All results in m	icrograms pe-	r Ber (ug/l), ea	xcept GRO th	All results in micrograms per Ber (up/l), except GRO that is in miligrams per liter (mg/l)	ms per liter (n.	100/1							2	N	N.	TN.	NT	M	TN	TN.	15	1.5
3	Groundwater recovery system started on October 21, 1995	acovery syste	im started on	October 21, 1	986																		
Œ	Remediation s	ystem shutdo.	wn Spring of	2000 (before	Remediation system shutdown Spring of 2000 (before 5/24/2000 sampling)	(Bujdi																	
	Shaded =	W speeds W	DNR Enforce	= Expeeds WDNR Enforcement Standard	פר																		
	ES	Wisconsin A.	dministrative	Code, Chapte	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	roement Stan	dard																
	PAL =	Wisconsin A	dministrative (Code, Chapte	= Wisconsin Administrative Code, Chapter NR 140 Prevertive Action Limit	Britine Action	Limit																
	MT =	= Not Tested																					
	1	= No Establish Standard) Standard																				
	E G	= Free Product in well	X in well																				Def SECULO
	BOLD	Concentrations exceed NR 140 ES	ns exceed NR	3 140 ES																			
NAME AND ADDRESS OF THE OWNER, OF TAXABLE PARTY AND ADDRESS OF TAXABLE PAR	-			The second secon																			•

											0.0000 P. T.											
										POUNDINA CLAR MONTO	MOWATER QUALITY RES CLARK STATION #0562 MOMITORING WELL MV:	GROUNDWATER QUALITY RESULTS CLARK STATION #0562 MONITORIKG WELL AWA:								1		
											Sanspling Date	3										
COMPOUND	07/16/1992	04/26/1993	06/23/1994	10/31/199	8 10H1/H9	196 02/21/A	997 06/21/16	97 00/26/199	7 02/18/199	05/19/1098	07/23/1908	11/22/1908	o o o o o o o o o o o o o o o o o o o	0.000	No. of Contrast of					07/16/1992 (04/26/1995) (05/21/1994) (05/21/1997) (05/21/1997) (05/21/1998) (05/91/1998) (17/21/1698) (17/21/		
Benzere	8,100	2,500	FF	Œ.	4	FP.	FP	417	240	<200	2360	94	100000	6961909	0 0000000000000000000000000000000000000	5/28/2000 0	5/24/2080 16	105/2000 04/1	02/2001 07/2	3/2001 10/22/	2001 ES	PAL
Ethylbenzene	3,100	1,160			(0.257)	(0.59)	9	2.000	2.100	1 400	4.100	200	200	90	2 1	70	2	-	+	<56 <22	+	0.5
Toksene	10,000	20,000						13 100	4.500	24 Gen	44 600	4 000	070	200	630	140	230	-	-	1,000 740	002	140
Total Ayenes	16,950	9,000				-	-	17.800	24 000	24 000	22 0.00	005.00	000'5	0,700	11,000	066	3,200	-	-	9,500 6,000	1 000	0 200
1,3,5-Trimethylbenzene	<100	1,000				-		1,720	1 300	2000	2000	14,100	11,800	13,500	15,500	4,660	6.900	10,900	9,500 14	14,460 12,800	10,000	1,000
1.2,4-Trimethyberizone	1,380	1,000			-	1		2 200	17.00	1,300	1,600	1.100	1.500	1,500	1,300	1.800	1,300	1,600	1,600 1,	1,900 1,600	- 0	
Total Trimethylbenzenes	1.380	2.000					-	0,430	3,360	2,00,0	4,900	2,700	3,700	3,700	3,706	2,800	1.700	2,500 2	2.606 1.	1,400 2,900	0	1
Methol Tart Sund Filhor		150			1	1		6,820	7,000	6.500	6,760	3,800	5,200	5,200	2,000	4.606	3,000	4,100	4,200 5,	5,300 4,500	0 480	8
Chapter Denne Duning								<\$00	4250	<2000	×100	cll.	16	<22	<32	-80	+ 77	10	× 0.5×	<54 <22	99	23
Charles nange Organies		8				-		NT	FN.	MT	EN.	IN	TN.	MT	N.	TM	TN	MT	TN	TA TA	-	-
Lead - Southle	63	10 02		A COLUMN				IN	TN	INT	MT	NT	NT	170	100	MT	100	+	+	+	-	
Ser.	All results in Groundwater	All moutes in microgramm per film (right), except GRO that is in milligrems per liker (mylt). Groundwater recovery system stated on October 21, 1998.	er Hur (ug/l), tem started o	except Of	RO that is 21, 1996	in miligrams	s per iller (mg	0									ě	£ .	2	N N	2	1.5
4	Remediation	Remediation system stratown Spiring of 2000 (before 5/24/2000 sam	Over Spring	of 2000 (be	More 5/24/2	PDOD Sample	(0)															
	Shaded	Shaded = Exceeds WDNR Enforcement Standard	DNR Enforc	ement Sta	ndard																888	
	ES	# Wesconsin Administrative Code, Chapter NR 140 Enforcement Standard	dministrative	Code, Ch	apter NR 1	40 Enforcer	Went Standar	79														
	PAL	a Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	dministrative	Code, Ch	apter NR 1	40 Preventh	ve Action Lim	() (No														
	N.	= Not Tested																				
	1	= No Establish Standard	h Standard																			
	FP.	# Free Product in well	ct in well																			

							0	TELET CONTO	Tella I (cont) CROUNDWATER DUALITY RESU GEATH STATION #1552: SUMPS	\$ 10 m								
									Sample	Sample Location and Date	nd Date							
		S-3								84							T	T
COMPOUND	10/05/2000	04/	07	02/18/1998	3 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	PAI
Benzene	48	220	1100	67	55	30	1.2	21	2.8	1.5	1.1	2	16.0	5,5	140	30	S un	0.5
Ethylbenzene	2.7	53	4400	18	1.6	42	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 Xylanes	38	200	21200	5.3	43.0	8.3	<0.97	11	<0.97	<0.97	<0.43	0.37	92'0>	<1.20	113	240	10000	1000
1,3,5-Trimethylbenzene	6.2	4	1000	<1.0	<1.0	<1.0	<.054	<0.54	<0.54	<0.54	<0.27	<0.54	<0.37	<0.29	23	7.5	480	96
1,2,4-Trimethylbenzene	7.7	66	4100	3.2	2.3	<1.0	<0.86	ю	<0.86	<0.86	<0.22	<0.86	<0.37	0.54	42.3	30	480	8
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	09	12
Key.				All results in	All results in micrograms per ilter (ug/l), except GRO that is in milligrams per ilter (mg/l)	liter (ug/l), exc.	apt GRO that	is in milligrams	per liter (mg/l)									
				Groundwater	Groundwater recovery system started on October 21, 1996	n started on Oc	dober 21, 199	90										
				Shaded	= Exceeds WDNR Enforcement Standard	DNR Enforcem	ent Standard											
				ES	= Wisconsin A.	dministrative C	ode, Chapter	NR 140 Enforc	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard									
-				PAL	= Wisconsin A.	dministrative C.	ode, Chapter	NR 140 Preven	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	-								
				۶ ۰	= Sumps locate	ad within the ta	nk basin, Inst	= Sumpt located within the tank basin. Installed with tank installation	Installation									
				-9	= Groundwater	= Groundwater extraction wells	S											
				IN	= Not Tested									к:				
				ŀ	= No Establish Standard	Standard												atam-utiliz
				Ŧ	= Free Product in well	t in well												NAME OF THE OWNER, OWNER, OWNE

			8	SLARKET SLARKET RECOVE	GROWDWATER GLATY RESULTS GLARK STATION FORE RECOVER WELLS	Series 1				
			, w	ample Loca	Sample Location and Date	2				
				0	0-1					
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	SB	PAL
Benzene	\$25	35	84	<0.26	110	80	TN	4.5	10	0.5
Ethylbenzene	32	22	61	<0.24	170	11	Ā	100	700	140
Toluene	170	18	7.6	<0.21	120	1.6	TN	151	1000	200
Total Xylenes	6,500	98	181	<0.97	3,100	117	Ā	592	10000	1000
1,3,5-Trimethylbenzene	1,200	17	20	<0.54	909	23	TN	72	480	98
1,2,4-Trimethylbenzene	1,800	27	30	<0.86	1,600	98	TN	1,000	480	96
Methyl Tert Butyl Ether	<130	78	22	<0.22	80	100	FN.	64.3	99	12
Key.	All results in m Groundwater	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	iter (ug/l), exco	apt GRO that	s in milligrams	per liter (mg/l)				
	Shaded	= Exceeds WDNR Enforcement Standard	ONR Enforcem	ent Standard						
	ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	dministrative C	ode, Chapter I	VR 140 Enforce	ment Standan	9			
	PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	Iministrative C	ode, Chapter ?	VR 140 Preven	live Action Lim	=			
	\$-1	= Sumps located within the tank basin. Installed with tank installation	ed within the ta	nk basin. Inst	alled with tank	installation				
	÷	= Groundwater extraction wells	extraction well	si si						
	Ŋ	= Not Tested								
	1	= No Establish Standard	Standard							
	8	= Free Product in well	in well							

					ROUNDWY	Tabledycom SPONIDWATER GLALITY RESULTS GLARKSTATION POSS REGOVER WELLS	TY RESULT	O Senter					
				Samp	Sample Location and Date	and Date							
				0-2				-		Ó	63		
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	969	230	20	5	0.5
Ethylbenzene	13	41	640	490	350	260	720	220	140	42	16	700	140
Toluene	54	270	<100	669	38	54	150	8	6.9	45	4	1000	200
Total Xylenes	360	3,500	1,300	921	537	376	1,491	12	<12.4	396	243	10000	1000
1.3,5-Trimelhylbenzane	11	530	<100	<14	427	<6.4	9.4	429	54.7	6.1	16	480	8
1,2,4-Trimethylbenzene	140	1,100	440	85	57	48	72	13	6	180	140	480	96
Methyl Tert Butyl Ether	91	<100	<1000	34	16	22	87	<2.0	1.2	5,3	<0.43	09	52
Key:	All results in n	All results in micrograms per liter (ug/l), except GRO that is in milligrams per liter (mg/l)	ller (ug/l), exce	ept GRO that i	s in millgrams	per liter (mg/l)							
	Groundwater	Groundwater recovery system slarted on October 21, 1996	slarted on Oc	dober 21, 1996									WALLE
	Shaded	= Exceeds WDNR Enforcement Standard	NR Enforcem	ent Standard									
	ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	Iministrative C	ode, Chapter N	IR 140 Enforce	ement Standard							Para Control
	PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	Iministrative C	ode, Chapter N	IR 140 Preven	tive Action Limi	-						
	5.5	= Sumps located within the tank basin. Installed with tank installation	d within the ta	nk basin. Insta	slled with tank	installation							
	9	= Groundwater extraction wells	extraction wel	49									
	¥	= Not Tested											
	ı	= No Establish Standard	Standard										
	£	= Free Product in well	liew uj										

				CLARK STATION #2662 RECOVERY WELLS	Wood Wood	CLARK STATION #0662				
			Ö	Sample Location and Date	tion and Da	te				
				σ	40					
Compound	02/18/1998	07/23/1998	11/24/1998	03/24/1999	07/20/1999	10/11/1899	04/02/2001	07/23/2001	ES	PAL
Benzene	3.9	1,500	880	360	290	740	180	120	w	0.5
Ethylbenzene	81	270	530	320	670	300	210	340	700	140
Toluene		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	98
1,2,4-Trimethylbenzene	8.3	<25	390	250	1,400	190	720	940	480	98
Methyl Tert Butyl Ether	29	<250	8	44	22	10	C4.0	<4.3	09	12
Key.	All results in m Groundwater r	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	iter (ug/l), exce	pt GRO that is tober 21, 1996	in milligrams	per liter (mg/l)				
	bold	= Exceeds WDNR Enforcement Standard	NR Enforcem	ent Standard						
	ES	= Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard	Iministrative C	ode, Chapter N	R 140 Enforce	ament Standar	D	•		
	PAL	= Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit	ministrative C	ode, Chapter N	R 140 Preven	live Action Lim	=			
	-ç-	= Sumps located within the tank basin. Installed with tank installation	d within the ta	nk basin. Insta	lled with tank	Installation				
	ç	= Groundwater extraction wells	extraction well	50						
	Ā	= Not Tested								
	1	= No Establish Standard	Slandard							
	FP.	= Free Product in well	in well							

	fop of well casing surface surveyed to a USGS benchmar	1603E 5 300 """V		
.=	Top of well casing			
	700/10/110	66.93	9.34	69'06
1	2661/21/01	56.99	11.01	Z8.68
1		56.66	47.6	61.06
	05/06/1993	59.69	47.9	93.19
	04/02/1993		80.6	88.06
	\$661/6Z/90	56.66	10.68	32.68
	4661/15/01	66.69	68.6	832.78
	9661/11/01	19.249	82.01	632.33
	7661/12/20	16.248	17.5%	44.883
	7661/12/20	19.248	21.6	78.469
	7661/10/70	19.248	47.7	
	7991/82/80	19.249	10.6	09.889
	8661/81/20	642.61	S9.6	60.888
	8661/61/90	16.248	12.8	634.40
	8661/62/70	19.248	12.01	632.40
	11/24/1988	642.61	90.01	632.55
0-4	03/54/1999	642.61	08.9	15.553
£-W		19.549	\$0.8	73.453
	661/02/20	19.248	89'6	633.03
	6661/11/01		-	
	02/28/2000	642.61	74.8	634.14
	09/24/2000	16.248		60.469
	10/05/2000	19.249	29.8	
	04/02/2001	19,248	84.8	61,468
4	07/23/2001	19.548	89.8	69.569
1	10/22/2001	19.549	99'6	90.669
1	Z661/91/20	96,001	\$4,0t	90.52
	10/12/1992	96,001	95.11	73.68
	681/30/20	96,001	84.01	84.06
1	04/02/1993	96.001	86.9	86.66
1	\$61/6Z/VO	96.001	10.67	65.06
	10/31/1894	96,001	12.08	88.88
1		89.649	11.33	632,32
	9661/11/01	39.549	1 -	
	02/21/1997			
1	7661/12/20	39.549	18.7	48.868
1	7661/10/70	643.65		93.559
1	7661/82/80	59.549	60.01	TN
	861/81/20	TM	TN	577.07/
	8661/61/90	99.649	34.8	635.20
1	8661/23/10	843.65	34.01	02.559
1	11/24/1998	643.65	70.11	83.58
Z-W	03/24/1666	59.549	99.6	01.468
10000000	05/20/4666	643.65	06.6	35.458
1	6661/11/01	89.849	10.96	63,559
1	02/28/2000	89.649	98.11	67,159
1	02/54/5000	99.549	10.6	39.459
1	10/05/2000	59.549	13.6	634,14
1	04/02/2001	59.649	28.8	68.468
1	07/23/2001	39.849	88.6	77.889
1	10/22/2001	643.65	56.01	632.72
1	Z661/91/10 02/25/01	100.45	96'6	67.06
1		34.001	87.01	79.68
	10/12/1992	24.00f	15.01	\$1.09
1	05/02/1693		88.7	78.29
1	04/05/1893	34.001	50.01	04.09
1	\$61/6Z/90	24,001	00.01	34.08
1	10/31/1994	24.00f		632.28
	9661/11/01	£1.E48	58.01	09.169
1	02/21/1997	643,13	53.11	631 60
	1661/12/90	643,13	_	
	4661/10/40	643.13	85.8	634.75
	4661/82/80	643.13	99.6	83.558
E	8681/81/20	643.13	10.56	73.553
1	8661/61/50	643,13	51.6	10.468
1		E1.E48	98.6	633.27
1	8661/52/20	101110000000	10.67	632.56
II year	3961/42/11	61.548		633.13
1-WA	03/24/1999	643.13	01	S4.458
	6661/02/70	643,13	17.8	
1	6661/11/01	643.13	SS.01	632.91
	02/28/2000	643.13	76,11	97.169
	06/24/2000	643.13	£1.9	634.00
	10/02/2000	643.13	1.6	634.03
		643.13	2.6	693.93
	04/02/2001		14.6	633.72
	1002/23/2001	643.13	7 (1122) (12	632.89
	10/22/2001	643.13	42.01	Elevation (ft)
пшрек		Elevation	(DOT mora)	
	Date	OOT	Static water Level	Water Table

TABLE 2

FLEVATION SUBVEY DATA

CLARK STATION SUBVEYARD

CLARK STATION SUBVEYARD

MIJMBUREE, WI

= sew sti2	surveyed to a USGS benchman	7997 ,8 ylut no		
	op of well casing			
T	Z66L/9L/L0	99'66		
	10/12/1992	99'66	10.20	24 P.R
1	05/02/1993	99'66	9:32	16.08
	04/05/1993	99'66	6.45	₽3.2 4
1	₱66L/6Z/90	99'66	74.8	61.49
1	\$661/1E/OL	99'66	49.01	20.68
	9661/11/01	642.36	66'6	75,558
1	02/21/1997	642.36	31.01	632.21
		642.36	59.8	67.659
	7661/15/30	95.249	81.6	81.253
1	2661/10/20	642.36	90.6	16.888
1	7861/82/80	86.248	64.6	632.93
1	8661/81/20		28.7	43.459
	8661/61/30	95.248	to the state of th	40.659
	07/23/1998	98.249	25.6	632.48
	11/24/1998	642.36	88.6	1500 ST 75 T S
9-N	03/54/1999	642,36	9.26	11,659
197.07	07/20/1999	642.36	03.8	88.558
	6661/11/01	98.248	88.6	632.53
	02/28/2000	642.36	10.66	08.169
	02/24/2000	642.36	02.8	91.469
		642.36	02.8	91,458
	10/06/2000	642.36	82.8	11,458
	04/02/2001		66.8	48.889
	07/23/2001	98.249		632.54
	10/22/2001	642.36	Z8'6	
	2661/91/70	94.001	00:01	99.68
1	10/12/1992	34.00f	06.01	09.98
1	02/06/1993	34.00f	99.01	92.03
1	04/05/1993	94,001	£4.8	
	\$661/6Z/90	94.001	91,01	75.06
	\$661/15/01	94.001	04,11	90.68
1	9661/11/01	60.543	03.01	63.559
	05/21/1997	60.543	40.11	632.05
1	7981/12/30	60.548	10.53	95.SE9
	4661/10/40	643.09	86.8	11,458
1	7691/182/80	643.09	94.6	46.853
	08/18/180	60.548	19.01	84.258
		60.548	99'6	633.63
	8661/61/90	66.548	78.6	634.12
1	8651/52/10		58.01	85.258
1000000	11/24/1998	66.548	11.01	88.653
9-W	03/24/1999	66.548	70.6	634.92
	07/20/1999	66.548		08.658
1	6661/11/01	66,548	61.01	632.79
1	02/28/2000	66.549	11.20	634.35
1	09/24/2000	66.549	19.6	
1	10/05/2000	66.648	04.6	69.458
1	04/02/2001	66.548	65.6	634.60
1	07/23/2001	66.549	9.42	73.459
1	10/22/2001	66.548	S1,01	78.889
1	2661/91/20	£8.00f	86.6	99'06
1	261/21/01	100.53	96.01	78.68
1	02/05/1993	100.53	27.6	18.09
1	04/02/1993	100.63	64.8	₽ 7.₽6
1	\$661/6Z/90	55.001	10.04	64.06
1	1091/15/01	53.001	11.30	£S.68
1		643.25	79.01	83.568
	9661/11/01		88.01	49.259
	7991/1997	SZ.2549		88.458
	7661/12/30	643.25	75.8	98.368 99.528
	2661/10/20	643.25	68.7	ST.853
	7661/82/80	643.25	£5.6	
1	8661/81/20	843.25	10.43	832.82
	8661/61/30	643.25	3f.3	01.869
	8661/52/10	92.25	91.7	60,858
	8661/52/11	643.25	10.55	07,259
4-004	03/54/1999	643.25	89.6	27.559
1-WA		643.25	58.8	04.469
	05/20/1999	643.25	8.01	632,75
id d	6661/11/01		-	
1	02/28/2000	93.25	12520000	635.26
	06/24/2000	643.25	66.7	155000000000
	10/05/2000	643.25	26.8	05.458
	04/02/2001	643.25	15.8	p6'pE9
1	07/23/2001	643.25	73.6	83,653
	10/22/2001	643.26	10.57	832.68
100000	1000,000	Elevation	(From TOC)	(fl) notievel3
naber	Name (ID)	2 (57)	Static water Level	Water Table
Mell	əjsQ	201	Levia Landour nitet2	7.1.00

ATAO YAWAN WARAN AMBASA CLARK STATION 10160-ATAI WALAN AMBASA MATAIN 1270-MILWAUKEE WI

CLEVATION SURVEY DATA ELEVATION SURVEY DATA OLARK STATION 40505 ATST WORLD SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SAULT SURVEY SURVEY SURVEY SURVEY SU

s sew elic :	entreyed to a USGS benchme	4 on July 3, 1997		
	op of well casing			
				077700
1	9661/11/01	75,148	41.6	632,23
- 1	7661/12/20	75.148	80.6	63.229
- 1	7661/15/30	75.148	00.8	₹6.868
1	2661/10/20	76.148	81.9	61.359
- 1	08/28/1997	75.148	8.15	S3.22
1	8661/81/20	75.148	08.8	73,259
1	8661/61/30	75.148	60.T	634.28
1	07/23/1998	75.148	9.34	632.03
1	8661/24/11	75.148	96.8	632.42
6-M	03/24/1999	75.148	66.8	86.258
1 0 111	05/20/1999	75.148	79.7	07.668
1	6661/11/01	75.148	00.6	75.259
1	02/28/2000	75.148	99'6	57.159
i	02/24/2000	75.148	80.7	634.29
	10/05/2000	75.148	17.7	99.559
	04/02/2001	641.37	9Z.7	11.469
	07/23/2001	78.148	66°L	86.668
	10/22/2001	641.37	≯ 6.8	632,43
-	9661/06/80	88,148	27.8	96'289
1	9661/11/01	89,148	98.6	632.33
1	05/21/1997	89.149	75.6	16.258
1	2001/12/20	89.148	SF.8	633.653
1	2661/10/20	88.148	6.21	74.868
	7991/180/70	89.148	75.8	15.559
1	8681/81/20	88.148	90.6	£8.S£8
		89.149	12.7	74.458
	8661/61/90	89.148	49.8	40.888
	8661/23/10	88,148	02.6	632.48
00/1000	861/42/11		34.8	633.23
8-W/	03/24/1999	89.148	18.7	78.558
	661/02/70	89.148	12.6	47.259
1	6661/11/01	89.148	68.6	67.168
4	02/28/2000	89.148	10.0000000	94.46
1	05/24/2000	89.148	SZ.7	18.553
1	10/05/2000	88.148	78.7	63.429
	04/02/2001	89.149	9E.T	14.658
1	07/23/2001	89.149	72.8	13.259
	10/22/2001	89.148	71.6	
	2661/91/70	14.66	_	***
	10/12/1992	14.66	- <u>-</u>	-
	05/09/1883	14.66	1	92.79
1	04/02/1993	14.66	29'9	90.06
	199/1994	14.66	98.9	76.88
	10/31/1894	14.66	44.01	16.SE8 79.88
	9661/11/01	642.12	18.6	
1	02/21/1997	Sr.248	16.6	12.258
	7991/15/50	542.12	09.8	S3.528
	2661/10/20	642.12	4Z.7	88,458
	7991/82/80	542,12	96.8	71,559
	8961/81/20	51.548	78.6	632.55
	8661/61/90	542.12	66.7	61.468
8	9661/23/10	542.12	91.6	96'759
1	11/24/1998	642.12	£7.6	65.269
7-WM	03/24/1999	642.12	71.6	96.269
	02/20/1888	642.12	94.8	99.659
	6661/11/01	642.12	27.6	632.40
	02/28/2000	642.12	44.01	88.168
	08/24/2000	642.12	r.8	50.468
	10/06/2000	642.12	55.8	73,658
		642.12	≱ 2.8	88.668
1	04/02/2001	51.248	78.8	633.25
1	07/23/2001	A1500 0 TO 0 TO	69'6	632.43
	10/22/2001	642.12	(From TOC)	Elevation (ft)
19dmul		Elevation		
Mett	Date	201	Static water Level	Water Table

Mq II:T

		7991 E VIII.	surveyed to a USGS benchmark on	te: Site was
			= feet below ground surface	
			= Top of well casing	0
88.258	p7.6	642.62	10/22/2001	:X
07.888	26.8	642.62	07/23/2001	
37.883	78.8	642.62	04/05/2004	
TN	IN	642.62	40/06/2000	
TN	TN	29.242	08/24/2000	
18.058	18.11	642.62	02/28/2000	
18.258	18.6	642.62	6661/11/01	
71.458	S4.8	642.62	0001/100	
632.90	27.6	642.62	03/54/1999	
85.258	10.24	642.62	8661/42/11	
72.128	21.35	642.62	07/23/1998	
TN	TN	642.62	8661/61/90	
Sp. 623.42	19.20	642.62	02/18/1998	1-0
TN	TN	643.04	10/22/2001	
97.889	82.6	40.649	07/23/2001	
634.12	26.8	643.04	04/05/2001	
TN	TN	40.649	10/02/2000	
TN	TM	40.649	06/24/2000	
TN	TN	643.04	02/28/2000	
TN	TN ·	40.649	6661/02/20	
TN	TN	40.548	03/54/1999	
TN	TN	643.04	11/24/1998	
61.888	98.6	643.04	02/23/1998	
TM	IN	40.649	8661/61/90	
TN		\$0.6\$9	8661/81/20	G-3
69.259	18.6	642.40	10/22/2001	0.0
14.658	66.8	642.40	07/23/2001	
40.458	££.8	642.40	04/02/2001	
TN	TN	642.40	10/05/2000	
TM	TN	642.40	08/24/2000	
44.159	96.01	642.40	02/28/2000	
632.53	78.6	642.40	6661/11/01	
78.669	£5.8	642.40	000/17/00	
51.559	82.6	642.40	03/54/1999	
632.45	96'6	642.40	11/24/1998	
64.1E9	16.01	642.40	07/23/1998	
79.859	67.9	642.40	8661/61/50	
48.158	10.86	642.40	02/18/1998	Q-2
IN	TN	642.30	10/22/2001	- 00
60.25.09	12.7	642.30	07/23/2001	
TN	I IN	642.30	04/02/2001	
TN	TN	642.30	10/02/2000	
TN	IN	642.30	02/24/2000	
64.053	18.11	642.30	02/28/2000	
532.52	87.6	642.30	6661/11/01	
634.13	71.8	642.30	6661/07/40	
69.559	16.8	642.30	03/54/1999	
632.46	\$8.6	642.30	9661/72/11	
87.428	\$3.71	642.30	8661/22/10	
TN	TN	642.30	8661/61/90	
60.428	18.21	642.3	02/18/1998	1.20
(fi) noitevala	(DOT mora)	Elevation	03/18/1008	Number Q-1
Water Table	Static water Level	OOT	Date	Mumbor

Tadia 2. (cond.)

ELEVATION SURVEY BATA
CLARK SILATION #0865
4754 NORTH SANTA MONICE NI

03/24/1999	TN	TN	2.0 91.0	TN	IN	TN	17.8	
	TN	TN	5.0	TN	TN	TN	10.22	
6661/11/01		IN	81.0	TN	TN	TN	7E.11	
02/28/2000	TN	TN	72.0	TN	TN	TN	61.6	
02\24\2000	TN	TN	71.0	TN	TN	TN	1.6	1
10/02/2000	TN	TN	91.0	TN	TN	TN	8.2	
04/05/5004	TN	TN	bS.0	8.67-	TN	TM	r4.6	
02/53/5004		8.2	91.0	9.171-	7	TN	10.24	
10/22/2001	TN.2	TN	TN	TN	TN	TN	EE.TT	Z-WM
10/21/1995	TN	TN	TN	TM	TN	TM	TM	
05/21/1997		TN	IN	TN	TN	TM	TN	
Z661/12/90	TN	TN	74.0	TN	60.7	2100	60.01	
7661/82/80	13.2 TM	IN	10:0	d due to snow cover				
021/01/30		2	19.0	8.Tp+	1.7	2310	8.45	
9661/61/50	3.61	1000000	14.0	436.4	7	2320	10.45	
07/23/1998	9.41	2.5	81.0	6.28-	1.7	2880	70.11	1
11/24/1998	12.2	2.5	61.0	TN	TN	TN	99.6	
03/24/1999	IN	TN	1000000	IN	TN	TN	€.6	1
07/20/1999	TN	TN	81.0	-76-51	1	TN	96.01	
6661/11/01	TN	TN	61.0	TN	TN		98.11	
02/28/2000	TN	TN	61.0	IN	TN	TN	N 2222	
06/24/2000	IN	TN	96.0	TN	TN	TN	10.6	
10/05/2000	IN	TN	81.0	TN	IN	1N	13.6	
04/02/2001	TN	TN	61.0	TN	TN	TN	Z8.8	1
07/23/2001	IN	TN	12.0	9.88-	IN	TN	88.6	
10/22/2001	1.01	9.S	2.0	1.48-	_ L	TN	10.93	
10/21/1996	13.0	TN	1.2	TN	9.7	TN	68.6	E-WM
7661/15/20	TM	TN	1.33	TN	6.8	TN	8S.01	1
7661/15/20	6.6	TN	3.92	7.55-	8	3160	71.6	
7661\82\80	13.5	TM	2.95	TN	127	1896	10.6	
8961/81/20	TN	TM	TM	TN	IN	TN	29'6	1
8661/61/30	10.3	0	2.36	8.1SZ+	8.8	4310	12.8	
8661/62/70	3.41	0	98.1	4.881+	2.7	3880	10.21	1
8661/45/11	TN	TN	TN	TN	TN	TN	10.06	
03/24/1999	TN	IN	6.0	TN	TN	TN	6.6	
6661/02/70	TM	TM	88.0	TN	TN	TN	40.8	
6661/11/01	TN	TN	\$.0	TN	TN	TN	86.8	1
02/28/2000	TN	TM	TN	TN	TN	TN	TN	
06/24/2000	TN	TN	3.94	TN	TN	TN	74.8	1
10/02/2000	TM	TM	96.0	TN	TM	TN	ZG.8	
04/02/2001	TN	TN	\$2.0	TN	TN	TN	84.8	
L007/20/60	TM	TN	0.43	8.12	TN	TM	89.8	1
1005/23/2001				TN	TN	TN	99'6	

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

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

Measured								
	Deg. C	(Ngm) novi	ı/ðu	Vm		Su	TalsW	Number
10/21/1996	11.5	TN	6.5	TN	1.7	TN	78.01	WW-4
02/21/1997	9.8	TN	2.3	TN	7.8	TN	88.01	
1997/1997	€.8	TN	80.3	5.5-	L'L	9€70	YE.8	
7661/82/80	12.2	IN	1.34	1N	1.7	1400	£8.9	
02/18/1998	TN	TN	IN	TN	TN	TN	54.01	
8661/61/30	6.11	g.f	12.1	6.27+	p.7	3910	61.8	
07/23/1998	1.4.	7	26.0	1.67+	6.9	2430	91.7	
11/24/1998	TN	TN	TN	TN	TN	TN	10.55	
03/24/1999	TN	TN	SZ.0	IN	TN	TN	£8.6	
07/20/1999	TN	TN	99'0	IN	TM	IN	28.8	
3661/11/01	TN	IN	190	TN	J.N	TN	8.01	
02/28/2000	TN	TN	TN	TN	TN	TN	IN	
02/24/2000	TM	TN	27.2	TN	TN	TN	66.7	
10/05/2000	TN	TN	8.0	TN	TN	TN	8.95	
04/02/2001	TN	TN	74.0	TN	TN	TN	16.8	
07/23/2001	TM	TN	64.0	6'96	TN	TN	78.6	
10/22/2001	16.3	9.1	82.0	39.1	1	TN	10.57	
10/21/1998	13.5	TN	0	TN	0.7	TN	10.50	9-MW
02/21/1997	2.11	TN	6.0	TN	8.7	- TN	11.04	
7661/12/20	11.0	TN	86.0	-24.3	8.7	1691	10.53	1 1
7661/82/80	1.41	TN	36.0	IN	1	5480	97.6	
02/18/1998	1.6	3	0.25	7.25-	1.7	2400	10.01	
8661/61/90	12.1	9	36.0	5.48-	4	2900	99'6	
07/23/1998	15.2	6.8	0.22	7.17-	6.9	3440	¥8.6	
11/24/1998	T.ff	8.f	61.0	6.801-	6.9	1838	10.63	
03/24/1888	TN	TN	61.0	TN	IN	TN	11.01	
07/20/1999	IN	TN	52.0	TM	IN	TN	70.6	
6661/11/01	TM	TM	SZ.0	TN	TN	TN	91.01	
02/28/2000	TM	TN	12.0	TN	TN	TN	2.11	
05/24/2000	TN	TN	b2.0	TM	TM	TN	19.6	
10/05/2000	TN	TN	71.0	TM	TN	TN	4.6	
04/02/2001	TM	TN	8S.0	IN	TN	TN	66.6	
1002/23/2001	TM	TN	71.0	E.47-	TN	TN	9.4Z	
10/22/2001	4.81	D.E.	0.22	4.82r-	1	TN	10.12	
9661/12/01	14.2	TN	0	TN	S.T	TN	66'6	a-wm
02/21/1997	9.6	TN	€.0	TN	7.9	TN	81.01	
Z681/1Z/90	10.3	TN	92.0	T.E\$+	£.7	2170	€8.8	
7861/82/80	9.51	TN	6.0	TM	66.9	0977	80.6	
7661/81/20	TN	, t	£4.0	7.61+	€.7	0699	5,43	
8661/61/20	12.4	2	S≱.0	1.46-	S.T	6320	28.7	
8661/82/100	9.61	2 7	92.0	1.62-	p.T	0869	SE.6	1
11/24/1998	7.11	Z	12.0	- 100	1	4100	88.6	1
03/24/1999	TN	TN	2.0	TN	TN	TN	SZ.9	
6661/11/01	TN	TN	8.0 87.0	TN	TN	TN	5.8 58.6	
02/28/2000	TN	TN	6.0	TN	TN	TN	10.56	1
02/24/2000	TN	TM	62.0	TN	IN	IN	2.8	1
10/05/2000	IN	IN	85.0	TN	TN	TN	63.8 82.8	1
04/05/5004	TM	TN	\$€.0 87.0	TN 6.86-	TN	TN	66.8	1
07/23/2001	144	Z	G1.0	7.871-	1	TN	28.6	

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

Measured	Deg. C	(I\Qm) non!	ľgm	Vm	-	Su	Water	Number 7-WM
10/21/1896	T.4.7	TN	1.2	TN	7.2	TN	18.6	/=AAIAI
02/21/1897	8.8	IN	7.0	TN	6.8	1N	16.6	
Z661/12/90	4.01	TN	3.39	9.68+	7.2	1870	8.8 89.8	
7661/82/80	15.5	TN	SE.0	TN	88.8	4140	78.6	
02/18/1998	IN	ı	88.0	9.62+	F.7	\$29 \$29	66.7	
8661/61/90	9.11	1	SÞ.0	1.35+	8.8		91.6	
07/23/1998	15.6	6.1	81.0	1.05+	9.7	1210	£7.6	
11/24/1998	TM	0	6.1	8.74+ TM	1 LN	TN	71.6	
03/24/1888	TN	TN	8.0	TN	TN	TM	94.8	1
07/20/1999	TN	TN	26.0	TN	TN	TM	9.72	1
10/11/1888	TN	TN	88.0	TN	IN	TM	14.01	
02/28/2000	IN	TN	\$6.0	TN	TN	TN	1.8	1
02/24/2000	IN	TN	62.0	TN	IN	TN	55.8	
10/02/2000	IN	TN	4.0	IN	TN	TN	\$2.8	
04/02/2001	TN	TN	£\$.0	7N	TN	TN	78.8	
07/23/2001	TN	TN	95.0	8.71	1	TN	69'6	
10/22/2001	15.8	2.2	62.0	Z4.6	8.7	TN	98.6	8-WM
9661/12/01	£.E1	TN	4.0	TN	8.9	TN	75.6	Quantition.
02/21/1997	5.8	TN	1000000	7.511+	1.8	3450	år.8	
Z661/12/90	7.8	TN	84.0	TN	72.7	1734	TE.8	1
7691/82/80	12.7	TN	E.O 9E.0	+23.8	6.9	TN	60.6	
8981/81/20	9.9	3	95.0 82.0	5.72+	2.7	4350	15.7	
8661/61/20	12.4	1	0.29	+20.1	9.7	4210	1/9'8	
07/23/1998	1.21	,	81.0	8.601-	1.7	2110	9.2	1
11/24/1998	9.11 TM	TN	SZ.0	TN	TN	TM	84.8	
03/24/1999	TN	TN	\$9.0	TN	IN	TN	18.7	
9991/11/01	TN	TN	9.0	TN	TN	TN	15.6	
005/28/2000	IN	TN	99.0	TN	TN	TN	66.6	1
	TN	TN	0.33	1N	IN	TM	SS.T	
02/54/5000	1N	TN	ÞÞ.0	TN	TM	TN	78.T	
10/05/2000	Sec. 10		0.22	TN	TN	TN	9£.7	
04/02/2001	TN	TN	0.29	1,13-	TN	TN	YZ.8	
07/23/2001	TN	10 10000	72200	7,891-	7	TN	71.6	
10/22/2001	15.4	2.6 TM	91.0 4.1	TN	p.T	TN	9.14	6-WM
9661/12/01	13.2	9,09,03	8.0	1N	8.8	TN	80.6	
7901/12/20 7021/1997	9.7	TN	77.9	7.701+	00.8	80.€	00.8	
7991/15/30	8.8	TN	3.97	TN	7.63	9691	21.8	
7991/82/80	8.41	0.000	TN.	TN	TN	TN	8.8	
8681/81/20	TN	TN	12.0	7.66+	S.T	9380	60.7	1
8661/61/90	12.4	8.0	24.0	9.76+	L .	4620	p.S.9	
11/23/1998	9.41 TM	TN	TN	IN	TN	TN	36.8	
11/24/1998	TM	TN	71.0	TN	TN	TN	65.8	
6661/02/20	TN	TN	16.0	TN	TN	TN	Y9.7	1
	TN	IN	82.0	TN	TN	TN	6	1
6661/11/01	TN	TM	96.0	TN	TM	TM	59.6	1
05/24/2000	TN	TM	89.S	TN	TN	TN	80.7	
10/05/2000	TN	TM	1	IN	TN	TN	17.7	1
10/05/2001	TN	TM	16.0	TN	TN	TM	7.26	
LOCALTONIO	TM	TM	96.0	5.8	IN	TM	66.7	1
07/23/2001	144		\$6.0	8.84	1	TN	\$6.8	

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

			0	vieso liev	edit to oot adt m		= Not Tested = Not Tested = milivolts te - Depth of ground
10070770							= milligrams per litte
10/22/2001	TN	75.0	TN	TN	TN	₽T.9	
07/23/2001	TN	82.0	1.66-	TM	TN	Z6.8	
04/02/2001	IN	er.0	TN	TN	TN	78.8	
10/06/2000	TN	SZ.0	TN	TN	TN	8.8	
02/28/2000	TN	5.0	TN	TM	TN	18.11	
10/11/1899	TN	S.0	TN	TN	TN	18.6	
03/24/1999	IN	61.0	TN	TN	TN	84.8	
11/24/1998	TN	61.0	TN	TN	TN	9.72	
8661/23/10	0	81.0	S.101-	1.7	2970	\$5.0f	
8661/61/20		84.0	15.2t	1 1.7	4250	21.35	
02/18/1998		1 0000			men of eldenu bet	1	1000
10/22/2001	-	99'0	8.55-	8.8	792	19.2	6-4
07/23/2001	IN	SS.0	-35.6 ster, could not be mor	TN set		0770	
04/02/2001	IN	0.24	7N 9.75	TN	TN	82.6	
10/06/2000	IN	81.0	TN	TN	TN	Se.8	
02/28/2000	IN	TN	TN	TN	100000000000000000000000000000000000000	1.6	
6661/11/01	IN	IN	TN	TN	TN	TN	
02/20/1888	TN	IN	TN	TN	TN	TN	
03/54/1888	IN	IN	TN	TN	TN	TN	
11/24/1998	IN	IN	TN	TN	TN	TN	
07/23/1998	0	84.0	4.88+	7.2	3410	28.6 TN	
8661/61/90					men of eldenu bet		
02/18/1998		pa	ter, could not be mov	ar oumps	rad upable to see	past fold	c.p
10/22/2001	IN	81.0	IN	TN	TN before fold	18.6	<u>0-3</u>
07/23/2001	IN	15.0	7.82-	TN	TN	69.8	
04/05/2004	TN	0.22	IN	TN	TN	8.33	
10/06/2000	TN	82.0	IN	IN	TN	89.8	
02/28/2000	IN	85.0	IN	TN	TN	38.01 93.9	
6661/11/01	IN	75.0	TN	TN	TN	78.6	
07/20/1999	IN	4.0	IN	IN	IN	56.8	
03/24/1888	IN	0.21	IN	IN	IN	82.6	
11/24/1998	6.5	92.0	S.88-	7.2	1880	36.6	
8661\ES\1998	0	99.0	+120.1	6.9	1210	16.01	
06/19/1998	2	64.0	1.04-	£.7	4310	67.9	
02/18/1996	g	0.25	S.TT-	2.7	3310	88.01	O-2
10/22/2001	TN	91.0	TN	TN	TN	69.6	
100Z/EZ/70	TN	0.25	T.91-	TN	TN	12.7	
04/02/200	TM	TN	TN	TN	TN	IN	
10/05/2000	TM	D.24	TN	TN	TN	€.8	
02/28/2000	TM	0.34	TN	TN	TN	18.11	
861/11/01	TN	54.0	TN	TM	TN	87.6	
9861/02/1998 07/20/1998	TN	64.0	TN	TN	TN	71.8	
GTSERVERS AND A	TN	SZ.0	TN	TM	TN	16.8	
3661/EZ/T0	2 0	62.0	T.9T-	7	3500	≱8.6	
061/61/20	U	SE.0	+131.2	2.7	S640	ZG.71	
02/18/189	8.0	0.00			eted unable to ren		
Measured	(Ngm) noni	87.0	0.011+	1.8	1920	18.81	1-0
əlsO	suomen (floor), god	Dissolved Oxygen		ud	Vm	Yater	Митре г
	order transfer		onica Boulevard, Mi Redox Potential	M string	Conductivity	Depth to	II9W
			ygen, pH and Redox rk Station #0562	Cla		92	

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. 107th St. Milwaukee, WI 53224 MAY 2 1 2010
PECFA SITE REVIEW
MILMALIKEE 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 Fill	and Seal	Drinking Water Waste Manager	ment [Watershed/V	Vastewater	Remed	diation/Redevelopment
1. Well Location Information	i		2. Facili	ty / Owner in	formation		
	ique Well # of ved Well	Hicap #	Facility Na			#56	2
Lattitude / Longitude (Degrees an	d Minutes) Metho	od Code (see instruction	(s) 2 4	-1574	850		
	'N		License/Pe	ermit/Monitoring	g#		
• ·	'w			mw.	-/		
XIX NE X NE	Section To	wnship Range	Original W		0 1/		
or Gov't Lot #	105 0	17 N 22 1		look (25(
Well Street Address		/ / / / / / / / / / / / / / / / / / / /	Present W	ell Owner			
4751 N. Sau	to Monic	a Rival.	1411	in Shi	mane		
Well City, Village or Town		Well ZIP Code 532//		dress of Presen	nt Owner	Ave.	56e #3
Milwaukee Subdivision Name		Lot #	City of Pre	sent Owner		State	ZIP Code
Subdivision (4ams		Lot #	-	/wanke	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUM	WI	53233
Reason For Removal From Service	e WI Unique We	II # of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Se	aling Mate	rial
Site Closed			Pump ar	nd piping remov	ved?		Yes No No NA
3. Well / Drillhole / Borehole	Information		Liner(s)	removed?			Yes No W N/A
Monitoring Well	Original Construct	ion Date (mm/dd/yyyy)	Screen r	emoved?			Yes No DNA
Water Well	UNKU		Casing le	eft in place?		-	Yes ONO ONIA
Borehole / Drillhole	If a Well Construct please attach.	tion Report is available,	Was cas	ing cut off belo	w surface?		Yes No No
Construction Type:	production.			ng material rise		X	Yes No NA
Linnal Laura	Sandpoint)	Dug	The second second	rial settle after			Yes No NA
Other (specify):	anopoint,	Dug		s, was hole reto te chips were u		اسا drated ا	Yes No N/A
					ised, were they hy safe source?		Yes UNO MINIA
Formation Type: Unconsolidated Formation				ethod of Placing ictor Pipe-Grav	g Sealing Material	r Pipe-Pump	and .
Total Well Depth From Ground Sui	Frace (#) Cosing		Scree	ned & Poured	Other (Ex		
14.5	race (ii.) Casing	nameter (in.)	Sealing Mat	onite Chips)	. 45 Other (EX)	piairi).	
Lower Drilthole Diameter (in.)	Casing	Depth (ft.)		Cement Grout	Г	Clay-Sano	Slurry (11 lb./gal. wt.)
nakuour	U	rknown	Sand-	Cement (Concre	ete) Grout		Sand Slurry " "
Was well annular space grouted?	Yes	X No ☐ Unknown	Conor			Bentonite	
If yes, to what depth (feet)?	Depth to Wate		_For Monitori		fonitoring Well Boi	reholes Only.	
in you, to must dopin (look).	8.		Printed	nite Chips		onite - Ceme	
		76		ar Bentonite	No Verde Sack	onite - Sand	
5. Material Used To Fill Well / Dr	47		From (ft.)	To (ft.)	No. Yards, Sack or Volume (cir		Mix Ratio or Mud Weight
3/8" Bentonite	Chips		Surface	145	0.32 +	23	
			-				
6. Comments							
o. Commona							
7. Supervision of Work						DNR Use (Only
Name of Person or Firm Doing Filling	ng & Sealing Lice	nse # Date of F	illing & Sealing	(mm/dd/yyyy)		-	od By
Sentine Env. Servi			02/09	3		1.50	1
P.O. Box 865			elephone Num		Comments	-	
	State	ZIP Code		Person Doing	Work	Date	Signed
Goafton	WI		Lave	8 4	um		/16/10

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Verification Only of Fill a	ind Seal	Drinking Water Waste Manage	ment [Watershed/	Wastewater	Reme	diation/Redevelopment
1. Well Location Information			2. Facil	ty / Owner I	nformation		
County WI Uniqu	ue Well # of	Hicap #	Facility Na		mormadon		
Milwau Kee Removed			i domy rec	Forme	1 Clark	#50	2
	Minutes) Maste	Code for a land	Facility ID	(FID or PWS)			
Lattitude / Longitude (Degrees and		Code (see instruction	1s) 24	1574	-850		
	'N		License/P	ermit/Monitori	ng#		
	w			$m\omega$ -	2		
XIX NE X NE	Section Tow	nship Range	Original W	ell,Owner	011		
or Gov't Lot #	05 0	h 100	^/		0:1		
Well Street Address		/	Present W	ell Owner			
4751 N. Saurt	2 Monico	R/m.	140	um 5h	imanc		
Well City, Village or Town	110111	Well ZIP Code	Mailing Ad	dress of Prese		1	11 47
Milwaukee		53211	700	$\omega \omega \omega$	15consin	AND REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLU	50e 17-3
Subdivision Name		Lot#		sent Owner	• -	State	ZIP Code
****				work	The state of the s	WI	53233
Reason For Removal From Service	WI Unique Well	# of Replacement Wel	4. Pump	Liner, Scre	en, Casing & Se	paling Mate	
Site Closed			Pump a	nd piping rema	oved?		Yes No No NA
3. Well / Drillhole / Borehole Inf			Liner(s)	removed?			Yes No No NA
Monitoring Well		n Date (mm/dd/yyyy)	Screen	emoved?			Yes Mo No NA
Myster Well		wu	Casing I	eft in place?		LXI	Yes ONO ON/A
F		on Report is available,	Was cas	ing cut off bel	ow surface?		Yes No No N/A
	ease attach.		Did seal	ng material ris	se to surface?	X	Yes ONO ONA
Construction Type:		_	200000000000000000000000000000000000000	rial settle afte			Yes No NA
Drilled Driven (San	dpoint) [Dug		s, was hole re			Yes No No N/A
Other (specify):			with water	ite chips were or from a know	used, were they hy n safe source?	ydrated	Yes DNo NA
Formation Type:			Required M	ethod of Placir	ng Sealing Materia	1	110 /
X Unconsolidated Formation	Bedroo	k		uctor Pipe-Gra		or Pipe-Pump	
Total Well Depth From Ground Surface	ce (ft.) Casing D	ameter (in.)		ned & Poured onite Chips)	Other (Ex	plain): Gr	auit.
		2	Sealing Mat				
Lower Drillhole Diameter (in.)	Casing De		☐ Neat (Cement Grout		Clay-Sand	Slurry (11 lb./gal. wt.)
unknown	u	Known	Sand-	Cement (Conc	rete) Grout		-Sand Slurry " "
Was well annular space grouted?	Yes D	No Unknown	Concr			Bentonite	
If yes, to what depth (feet)?	Depth to Water		For Monitori		Monitoring Well Bo	reholes Only	
	8.4	1/-		nite Chips		tonite - Ceme	
		10	Granu	ar Bentonite	Charles and the Control of the Contr	tonite - Sand	
5. Material Used To Fill Well / Drillh			From (ft.)	To (ft.)	No. Yards, Saci or Volume (cir	rcle one)	Mix Ratio or Mud Weight
3/8" Beutonite C	1103		Surface	16	0.351	C+ 3	
	1						
				7	1000		
6. Comments							
7. Supervision of Work	8 C II 1					DNR Use (Only
Name of Person or Firm Doing Filling &			illing & Sealing	(mm/dd/yyyy	Date Received	Note	ed By
Street or Route	S, WC 79	the company of the co	02/09	har	Comments		
P.O. Box 865			262 305		Comments		
City	State	ZIP Code		Person Deing	Work	Data	Signed
Grafton	WI	53024	This		non		Signed /16/10
	A CONTRACTOR OF THE PARTY OF TH				CH. M. A. S.	100	110/10

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

Verification Only of Fi		Route to: Drinking Water Waste Manage		Watershed/	Wastewater [½ Remed	iation/Redevelopment
1. Well Location Information			2. Faci	lity / Owner I	nformation		***************************************
	nique Well # of ved Well	Hicap #	Facility N	Forme	1 Clark ;	#56	2
Lattitude / Longitude (Degrees ar	nd Minutes) Metho	d Code (see instructio	ns) 2.	FID or PWS)	-850		
•	w		_	ermit/Monitorir	¹⁹ *3		
or Gov't Lot #	Section Tov	vnship Range N	A C		0:1		
Well Street Address 475/ N. Sau	to Monia	a Blod.	A	Vell Owner MIN Rh	imani		
Well City, Village or Town Milwauke	2	Well ZIP Code 532//	70		isconsin A	ve., 5	be#3
Subdivision Name		Lot#	m	Warke	THE RESERVE THE PARTY OF THE PA	WI	ZIP Code 5323 3
Reason For Removal From Service	ce WI Unique Well	# of Replacement We	4. Pump	, Liner, Scree	en, Casing & Seali	ng Materi	
Site Closed			Pump a	and piping remo	oved?	Lly	es No No NA
3. Well / Drillhole / Borehole				removed?		HY	es No NA
Monitoring Well	1.	on Date (mm/dd/yyyy)	170.750.750.750	removed?			es No NA
Water Well		own		left in place?		₩ _Y	es UNO UNA
Borehole / Drillhole	please attach.	ion Report is available,	Was ca	sing cut off belo	ow surface?	Zγ	
Construction Type:			Did sea	ling material ris	e to surface?	X Y	INC. Com
	Sandpoint)	Dug		erial settle after		HY	es No UNA
Other (specify):	anapoint)			s, was hole ret		tod LY	es UNo MN/A
					used, were they hydra n safe source?	Lly.	es No NA
Formation Type:			land .		g Sealing Material		
Unconsolidated Formation	Bedro			uctor Pipe-Gravened & Poured	[77]		
Total Well Depth From Ground Su	rface (ft.) Casing D	Diameter (in.)		onite Chips)	Other (Explain	n): 1318	Not-1
Lower Drillhole Diameter (in.)	Casina	<u>a_</u>	Sealing Ma				1
unknown	1 TO 1	Pepth (ft.)		Cement Grout			Slurry (11 ib./gai. wt.)
		Hager		Cement (Concr			and Slurry " "
Was well annular space grouted?	∐ Yes ↓	XI No Unknow	Conci		E L	Bentonite C	hips
If yes, to what depth (feet)?	Depth to Wate		Bento	nite Chine			
	7	. 86	Lymny 1	lar Bentonite		e - Cemeni e - Sand Si	
5. Material Used To Fill Well / Dr			From (ft.)	To (ft.)	No. Yards, Sacks S	ealant	Mix Ratio or
3/8 " Bentonite			Surface		or Volume (circle		Mud Weight
- TO DEN CONTRE	JAIP 5		Surface	14	0.31 ft	3	
				1			
6. Comments							
7. Supervision of Work					I DN	R Use Or	nh.
Name of Person or Firm Doing Filling	g & Sealing Licer	nse # Date of F	illing & Sealin	g (mm/dd/yyyy		Noted	The state of the s
Sentine Env. Servi	ces, uc 94	0910 06/		9			7.
P.O. Box 865			262 37		Comments	- transition	
Grafton	State	ZIP Code	Signature of	Person Doing		Date S	igned
- 107 707 C	WI	53024	Laur	Leu	non	021	16/10

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

Page 1 of 2

Verification Only of Fil	l and Seal	Drinking Water Waste Managel	ment [Watershed/	Wastewater	Reme	diation/Redevelopment
1. Well Location Information	1		2. Facil	ity / Owner I	nformation		
County WI Un	ique Well # of	Hicap #	Facility Na	ame			*****
Milwau Kee Remor	ved Well			Forme	1 Clark	#51	2
Lattitude / Longitude (Degrees an	of Minutes Man	- I	Facility ID	(FID or PWS)			
cattitude / congitude (Degrees an		hod Code (see instruction	15) 24	11574	-850		
	'N		License/P	ermit/Monitorir	ng #		
	'w -		-	mw-	4		
XIX NE X NE	Section T	ownship Range TX	Original W	ell Owner	0 11		The state of the s
or Gov't Lot #	05	07 N 22 17 V	N - C		0:(
Well Street Address			Present	/ell Owner			
475/ N. Sau	to Moni	a Blod.	Mailing Ad	dress of Prese	iman (
Well City, Village or Town		Well ZIP Code	TA A		15consin h	we.	c1. #2
Milwaukee	2	53211	City of Pre	sept Owner	15conson n	State	ZIP Code
Subdivision Name		Lot#	. A	Warke	00	WI	53233
	- MAR 11-1-1-14	(-W. # - (D -)	4 0		en, Casing & Seal		
Reason For Removal From Service	e Ivvi Unique vi	lell # of Replacement Well		Section 2			[] P[2
3. Well / Drillhole / Borehole	Information			nd piping remo	oved?		
		ction Date (mm/dd/yyyy)	-	removed?			Yes No NA Yes No NA
Monitoring Well		LOCUPL (HILLIAM YYYYY)	-				
Water Well		iction Report is available,		eft in place?			
Borehole / Dritthole	please attach.	icitori report is available,		sing cut off belo			
Construction Type:				ing material ris erial settle afte			
Drilled Driven (S	andpoint)	Dug	The same of the sa	s, was hole ret			
Other (specify):					used, were they hydr n safe source?	ated -	Yes No NA
Formation Type:					n safe source? ng Sealing Material		Yes UNO N/A
Unconsolidated Formation		rock		uctor Pipe-Grav	Proposed	Dina Dumn	and
Total Well Depth From Ground Sur	the state of the s		→ ☐ Scree	ned & Poured	Other (Expla	-	
/STATE OF CHARLES OF	race (it.) Casing	2	and an included a second district the second	onite Chips)	Onler (Expla	nn):	
Lower Drillhole Diameter (in.)	Casino	Depth (ft.)	Sealing Mat	enais Cement Grout	П	Clay Cone	I Character to the total and the
nuknoun	Vanta-	Kuoun		Cement (Conc	rete) Grout		Slurry (11 lb./gal. wt.) Sand Slurry " "
Mas well convict and a created			Concr			Bentonite	
Was well annular space grouted?	L Yes				Monitoring Well Borel		
f yes, to what depth (feet)?	Depth to Wa		M Benton	nite Chips		ite - Ceme	
Control of the Contro	8	.25	Granu	lar Bentonite	☐ Benton	ite - Sand	Slurry
5. Material Used To Fill Well / Dri	illhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circle	Sealant	Mix Ratio or
3/8" Bentonite	Chios		Surface	15	0.33ft		Mud Weight
•	ı						
6. Comments							
						· · · · · · · · · · · · · · · · · · ·	
7. Supervision of Work Name of Person or Firm Doing Fillin	o e Coolie - L		W C C		D	NR Use (
Sentine Env. Sorvi	ces, uc 9	40910 Date of Fi		g (mm/dd/yyyy) Date Received	Note	d By
P.O. Box 865			262 305		Comments		
Grafton	State	ZIP Code		Person Doing	Work	Date	Signed
Gratton	W	53024		Leu		02	116/10

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	ì	Watershed/Other:	Wastewater	Reme	diation/Redevelopment
1. Well Location Information	n		*	2. Faci	lity / Owner la	nformation		
	ique Well	# of	Hicap #	Facility N	ama		-,	
Milwau Kee Remo	ved Well				Forme	1 Clark	#56	2
				Facility ID	(FID or PWS)			20
Lattitude / Longitude (Degrees ar	93		Code (see instruction	ons) 2	41574	-850		
. — — — — — — — —	'	N		License/F	ermit/Monitorin	ng#		
	'\	<u> </u>			MW-	5		3
XIX NE X NE	Section	Tow	nship Range	E Original V	Vell Owner	0 11		
or Gov't Lot #	705	5 0	7 N 22	101		011		
Well Street Address		4	, ,	1	Vell Owner			
4751 N. Sau	to 1	lonia	- Blvd.	Name and Publishers and Publishers	dress of Prese	Man (
Well City, Village or Town			Well ZIP Code	71		Sconsin A	2,10	c1.#2
Milwauke	<i>P</i>		532/1	City of Pre	esent Owner	Scores or	State	ZIP Code
Subdivision Name			Lot#	1	wanke	e	WI	53233
Reason For Removal From Service	ce Wi Un	ique Well	# of Replacement Wi	4. Pump	, Liner, Scree	en, Casing & Sea		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAM
Site Closed				al Participation	ind piping remo	oved?		Yes No No NA
3. Well / Drillhole / Borehole	Informat	ion		Liner(s)	removed?			Yes No No N/A
Monitoring Well	Original C	onstructio	n Date (mm/dd/yyyy	Screen	removed?			Yes No NA
	u	nkue	rure	Casing	left in place?		34	Yes ONO ON/A
Water Well			on Report is available	. Was ca	sing cut off belo	ow surface?	X	Yes DNo DN/A
Borehole / Drillhole	please at	tach.		Did sea	ling material ris	e to surface?		Yes ONO ON/A
Construction Type:			_	Did mat	erial settle afte	r 24 hours?		Yes No DNA
	Sandpoint)	L	Dug		s, was hole ret			Yes ONO NO
Other (specify):				 If bentor with wat 	nite chips were o er from a known	used, were they hyd n safe source?	rated	Yes DNo NA
Formation Type:				Required N	lethod of Placin	g Sealing Material	-	110 7-11/1
X Unconsolidated Formation	[Bedroc		- promise	uctor Pipe-Grav		Pipe-Pump	ed
Total Well Depth From Ground Su	rface (ft.)	Casing Di	ameter (in.)		ened & Poured onite Chips)	Other (Expl	ain): 5 1	auit,
15			2	Sealing Ma				
Lower Drillhole Diameter (in.)		Casing De		Neat	Cement Grout		Clay-Sand	Slurry (11 lb./gal. wt.)
unterown		un	Knows		Cement (Conci	rete) Grout		Sand Slurry " "
Was well annular space grouted?		Yes 2	No Unknow	Conci			Bentonite	
If yes, to what depth (feet)?	Depth	to Water		Bento	nite Chine	Monitoring Well Bore		
		8.6	5		lar Bentonite		nite - Ceme nite - Sand	
5. Material Used To Fill Well / Dr	illhole	PARILLE P		From (ft.)	To (ft.)	No. Yards, Sacks	Sealant	Mix Ratio or
3/8 " Bentonite				Surface	1	or Volume (circl		Mud Weight
- IB ZEW TOWNE	DA P			Surface	15	0.33 f	- 3	
6. Comments								
G.								The state of the s
7. Supervision of Work						T 6	NR Use (Only Only
Name of Person or Firm Doing Fillin	ng & Seali	ng Licens	se# Date of	Filling & Sealin	g (mm/dd/yyyy) Date Received		od By
Sentine Env. Soru	bes. 4	c 94		10210	9		1000	
P.O. Box 865			Difference of the latest of th	Clephone Nur		Comments		
City		State	ZIP Code		Person Deing	Work	Date	Signed
Grafton		WI	53024		Leu		02	116/10

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Verification Only of Fill and Seal	Route to: Drinking Water Waste Manageme	ent [Watershed/	Vastewater	Remed	diation/Redevelopment
1. Well Location Information		2. Facili	ty / Owner in	formation		
Mi Waw Kee WI Unique Well # of Removed Well	Hicap #	Facility Na	Forme	-1 1	#56	2
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions	Facility ID	(FID or PWS)	-850		
w			nw - (g # O		
or Gov't Lot # Section Town	nship Range RE		clarke	0:1		
Well Street Address 475/ N. Sauda Monica	- / /	Present W	in Bhi	iman i		
Well City, Village or Town Milwaukee	Well ZIP Code 532//	700		isconsin h	THE RESERVE OF THE PERSON NAMED IN	ste#3
Subdivision Name	Lot#	Mi	Sept Owner	The second secon	State	ZIP Code 53233
	# of Replacement Well	4. Pump,	Liner, Scree	en, Casing & Sea	ling Mater	
Site Closed		Pump ar	nd piping remo	ved?	님	Yes No NA
3. Well / Drillhole / Borehole Information			removed?			Yes No NA
Nonitoring Well	n Date (mm/dd/yyyy)	1	emoved?			Yes No NA
	n Report is available.		eft in place?		20	
Borehole / Drillhole please attach.	n Report is available.		ing cut off belo			personal sections
Construction Type:		200000000000000000000000000000000000000	ng material ris		X	
Driven (Sandpoint)	Dug		rial settle after	경도 (1) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	님	Yes No NA
Other (specify):	7009		te chips were t	opped? used, were they hyden n safe source?	rated —	res UNo MN/A
Formation Type:				g Sealing Material		res Uno MN/A
			ctor Pipe-Grav		Di D	
Total Well Depth From Ground Surface (ft.) Casing Dia		Screen	ned & Poured			
Lasing Dia	ameter (m.)		nite Chips)	Other (Expla	ain):	wir-j
Lower Drillhole Diameter (in.) Casing De	epth (ft)	Sealing Mat	enais Cement Grout		Class Canad	St (44 lb. 4
	Known	Lund	Cement (Concr	rete) Grout		Slurry (11 lb./gal. wt.) Sand Slurry " "
	2	Concre		Cic) Gioda	Bentonite (
		For Monitoria	ng Wells and M	Nonitoring Well Bore		
if yes, to what depth (feet)? Depth to Water		M Bentor	ite Chips		nite - Cemer	
8	.10	Granul	ar Bentonite	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	nite - Sand S	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circle	Sealant e one)	Mix Ratio or Mud Weight
3/8" Beutonite Chips		Surface	14	0,31 ft		mad vedgin
6. Comments					7-1-1-1-1-1-1	
7. Supervision of Work				7		
Name of Person or Firm Doing Filling & Sealing Licens	e# Date of Fill	ing & Seating	(mm/dd/yyyy		NR Use C	
Sentine Env. Services, LLC 94	0910 06/0	02/09	7		Note	и ву
P.O. Box 865	\(Z	ephone Num	-8110	Comments		
Graffon State WI	53024	Signature of	Person Doing	Work		Signed //6 / /10

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Verification Only of Fil	l and Se	al	Drinking Wate			Watershed/M	Vastewater	Rem	ediation/Redevelopment
1. Well Location Information	1			2. Fa	cilit	y / Owner In	formation		
	ique Well i	# of	licap #	Facility	_	ne		.,	
	ved Well					Former	1 Clark	#5	62
//II was kee				Facility	ID (FID or PWS)			
Lattitude / Longitude (Degrees an	d Minutes) Method	Code (see instructi	ons) 2	4	1574	850		
	'\	1		License	e/Per	mit/Monitoring	#		
	'v	v			/	nu)-	7		
XIX NE X NE	Section	Town	ship Range ro	Origina	l We	II,Owner			
or Gov't Lot #	06		Ship Range	I I	0	lark C	201		
Well Street Address	10,	10	Naa	W Presen	t We	Il Owner			
475/ N Com	La M	1000	Dlud	/	7m	m Bhi	mani		
Well City, Village or Town	XDL [1]	ONICO	Well ZIP Code	Mailing	Add	ress of Preser		Α	/~
Milwaukee	9		53211	7	OC	ω . ω_1	Sconsin	Ave.	56c#3
Subdivision Name			Lot#	1	4 1	ent Owner		State	ZIP Code
			F-0. "	-	-	wanke	No.	WI	And the state of t
Reason For Removal From Service	e M Uni	que Well #	of Replacement W	ell 4. Pur	np, i	Liner, Scree	n, Casing & Se	aling Mat	erial
Site Closed		Commence of the Commence of th			p and	d piping remov	red?		Yes No No NA
3. Well / Drillhole / Borehole	Informati	on		-		emoved?			Yes No NA
			Date (mm/dd/yyyy			emoved?		Г	Yes W No ONA
Monitoring Well	141	1.	we			ft in place?		13	Yes ONO ON/A
Water Well	If a Well C		n Report is available		-				
Borehole / Drillhole	please att		Treport is available			ng cut off below			
Construction Type:				222000		ng material rise		4	
Drilled Driven (S	andpoint)	Γ	Dug	1000000		rial settle after		-	Yes No NA
Other (specify):		-				, was hole reto e chips were u		drated —	Yes No No NA
							sed, were they hy safe source?		Yes LINO NA
Formation Type:	_	_		- Innoved			Sealing Material		
Unconsolidated Formation		Bedrock		- Annearon -		ctor Pipe-Gravi	Land.		
Total Well Depth From Ground Sui	face (ft.)	Casing Dia	ameter (in.)			ed & Poured nite Chips)	Other (Ex	plain): 💪	aunty
				Sealing	Mate	rials		_	
Lower Drillhole Diameter (in.)	1	Casing De	1	☐ Ne	at Co	ement Grout			nd Slurry (11 lb./gal. wt.)
Unknown		un	Lucia			Cement (Concre	ete) Grout	Bentonite	e-Sand Slurry " "
Was well annular space grouted?		Yes 2	No Unknow	Vn I	ncre		L	Bentonite	
If yes, to what depth (feet)?	Depth	to Water	(feet)				onitoring Well Boi	reholes Onl	y:
			84			ite Chips	Luncy	onite - Cem	
		6 -	0 1	L Gr	anula	ar Bentonite	No. Yards, Sack	onite - Sand	
5. Material Used To Fill Well / Dr				From (t.)	To (ft.)	or Volume (cir		Mix Ratio or Mud Weight
3/8" Bentonite	Chips	>		Surfac	æ	13		23	
	,								
6. Comments		oki Iliyaasi Syxayalisi							
		ZEIRER VONN DE STORME	1						
7. Supervision of Work								DNR Use	Only
Name of Person or Firm Doing Fillin	ng & Sealir	ig Licens	- 4 - 1 -		aling	(mm/dd/yyyy)	Date Received	No	ed By
Sentine Env. Servi	ces, LL	C 1997	0910 06	f	29				
Street or Route	45			Telephone N			Comments		
P.O. BOX 865		1-				-8110			
Grafton		State	ZIP Code	Signature	of F	Person Doing V			e Signed
U 0.7 70/		WI	53024	Va	X	Leus	non	00	2/16/10

c

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

	Route to:					
Verification Only of Fill and Seal	Drinking Water	Γ	Watershed/V	Vastewater	1/ Reme	ediation/Redevelopment
_	Waste Managen	nent [Other:		4	
Well Location Information		2 Facili	ity / Owner In	formation		
County WI Unique Well # of	ticap #	Facility Na	me			
Milwau Kee Removed Well			Forme	1 Clark	#56	67
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instruction	s) acility ID	(FID or PWS)	950		
° 'N		License/P	ermit/Monitorine	0#		***
• · · w		Liociliacii	M(1) -	°Ż		
1/4 NE 1/4 NE Section Town	nship Range run =	Original W	ell Owner	<u> </u>		
or Gov't Lot # 05 0	> 00		clark (200		
Well Street Address	1 Ndd N	Present W	ell Owner		****************	
4751 N. Sauda Monica		-	dress of Preser	Man C	-	
Well City, Village or Town Milwackee	Well ZIP Code 532//	700	DW.W	isconsin ,		56e#3
Subdivision Name	Lot#	City of Pre	sent Owner		State	ZIP Code
		1111	wanke		WI	53233
Reason For Removal From Service WI Unique Well	of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Se	aling Mate	
Site Closed		Pump ar	nd piping remo	ved?	<u></u>	Yes No NA
3. Well / Drillhole / Borehole Information		Liner(s)	removed?			Yes No NA
Monitoring Well Original Construction	n Date (mm/dd/yyyy)	Screen	removed?		F	Yes No NA
Mater Well an Kun	wa	Casing le	eft in place?			Yes No NA
Borehole / Drillhole If a Well Construction	n Report is available,	Was cas	ing cut off belo	w surface?		Yes No No
Construction Type:		Did seali	ing material rise	e to surface?	1X	Yes No NA
Drilled Driven (Sandpoint)	Dug	4	erial settle after		닏	Yes No NA
			s, was hole reto		drated	Yes No No NA
Other (specify):				used, were they hy safe source?	urated	Yes No No NA
Formation Type:		- browned		g Sealing Material		
Unconsolidated Formation Bedrock			ictor Pipe-Gravi ned & Poured		Pipe-Pump	
Total Well Depth From Ground Surface (ft.) Casing Dia	ameter (in.)		nite Chips)	Other (Exp	olain): 178	aunty
Lower Drillhole Diameter (in.) Casing De	-4h /(A.)	Sealing Mate	e		7	
Lower Drillhole Diameter (in.) Casing De	pin (rt.)	-	Cement Grout			d Slurry (11 lb./gal. wt.)
	7 D		Cement (Concre	ete) Grout	7	-Sand Slurry " "
Was well annular space grouted?	No L Unknown	For Monitoria		اسا Ionitoring Well Bori	Bentonite	
If yes, to what depth (feet)? Depth to Water	(feet)	Bentor	nite Chips		nite - Ceme	
6.	63		ar Bentonite	Command of the last of the las	nite - Sand	
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 " Beutonite Chips		Surface	15.5	0.34 f		
į.						
6. Comments						
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
7. Supervision of Work Name of Person or Firm Doing Filling & Sealing Licens		i 6 0		<u> </u>	DNR Use	
Sentine Env. Services, LLC 94	0910 Date of Fil	DA /09	(mm/dd/yyyy)	Date Received	Note	ed By
Street or Route P.O. Box 865		lephone Num	The state of the s	Comments		
City			Person Deing \	Work	Date	Signed
Grafton WI	53024	Thur		won		116/10
			Character of the Party of the P		The state of the s	The state of the s

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

Verification Only of Fill and Seal	Drinking Water Waste Managem	ent [Watershed/V	Vastewater	Reme	diation/Redevelopmen
Well Location Information		2. Facili	ty / Owner In	formation		
County WI Unique Well # of Removed Well # of	Hicap#	Facility Na	me	1 Clark	#56	52
Lattitude / Longitude (Degrees and Minutes)	Method Code (see instructions	24	(FID or PWS)	850		
w		1	W - 9	g # 		
or Gov't Lot # 05	Township Range X E		lark);(
	ria Blod.	An	-/	Man (nt Owner		
Well City, Village or Town Milwaukee	Well ZIP Code 532//	City of Pres	DW. W sept Owner	5consin 1	fue.	56e #3
Subdivision Name	Lot #	Mi	wanke	No.	WI	53233
	Well # of Replacement Well	4. Pump,	Liner, Scree	n, Casing & Sea	iling Mate	
Site Closed -		Pump ar	d piping remo	ved?	닏	Yes No NA
3. Well / Drillhole / Borehole Information			removed?		님	Yes No DANIA
I AJ Monitoring Well	truction Date (mm/dd/yyyy)		emoved?			Yes No NA
Water Well	Luour		oft in place?		<u>UX</u>	Yes No NA
Borehole / Drillhole If a Well Cons	struction Report is available.	Was cas	ing cut off belo	w surface?		Yes No NA
Construction Type:		1 200	ng material rise			Yes No NA
Drilled Driven (Sandpoint)	Dug		rial settle after		[Yes No NA
Other (specify):	Dag		, was hole reto		rated —	Yes No No N/A
				sed, were they hyd safe source?		Yes No NA
Formation Type:		factoring .		Sealing Material		(6)
	Bedrock		ctor Pipe-Grav	[2]	Pipe-Pump	4.7
Total Well Depth From Ground Surface (ft.) Cas	sing Diameter (in.)	(Bento	nite Chips)	Other (Exp	lain): 51	aurt !
Lower Drillhole Diameter (in.) Cas	sing Depth (ft.)	Sealing Mate	erials Sement Grout	Г	1 0 0	
nakuoun	unknown	[]	Cement (Concre	eta) Grout		d Slurry (11 lb./gal. wt.) -Sand Slurry " "
Man well analysis and the Dis		Concre	11	Cite) Grout	Bentonite	and the state of t
Was well annular space grouted?		() () () () () () () () () ()		onitoring Well Bore		
If yes, to what depth (feet)? Depth to	Water (feet)		ite Chips	[]	nite - Ceme	
	6.92	Granul	ar Bentonite		nite - Sand	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	le one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips		Surface	12	0.26 +	F3	
6. Comments	****					
7. Supervision of Work				T ,	NR Head	Det:
	License # Date of Fill	ing & Sealing	(mm/dd/yyyy)	Date Received	Note	od By
Sentine Env. Services, LLC	A A	02/09)		1000	
Street or Route P.O. Box 865	Tel	ephone Num		Comments		
City Sta	ate ZIP Code	AND THE REAL PROPERTY AND ADDRESS OF THE PARTY	Person Doing \	Nork	Date	Signed
	II 53024	Dave		non	02	/16/10



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

	D					
Verification Only of Fill and Seal	Route to: Drinking Water	Г] Watershed∧	Mastewater [7	Pomodia	tion/Redevelopment
verification only of Fill and Seal	Waste Managem	ent F	Other:	v vasicwater /	Z Remedia	norvædevelopment
Well Location Information			ty / Owner Ir	nformation		
	liaan #		-	inormation		
Milway Kee Removed Well	licap #	Facility Na	Forme	1 Clark 7	456	7
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions	Facility ID	(FID or PWS)	-850		
N		License/Pe	ermit/Monitorin	ng#		
ww		51		w. of ma	1-3)	01
1/4 NE 1/4 NE Section Town	ship Range ZE	Original W	ell,Owner_	- 11		
or Gov't Lot # 05 0	クN220w	Present W		oil		
Well Street Address	7//	1	***** /	imani		
Well City, Village or Town	Well ZIP Code	Mailing Ad	dress of Prese	ent Owner		/ >
Milwaukee	53211			isconsin A	Je., 52	ke#3
Subdivision Name	Lot#		ent Owner		Control of the Contro	F Code 5323
	<u>L</u>	-	-	en, Casing & Sealing	The state of the s	The same of the sa
Reason For Removal From Service M Unique Well #	of Replacement Well		nd piping remo		□ _{Ye}	
3. Well / Drillhole / Borehole Information		-	removed?	oved r	□ _{Ye}	
Original Construction	Date (mm/dd/yyyy)	-	emoved?		□Yes	6.0
Monitoring Well WA Kup	wa	Casing le	eft in place?		Ye:	s DNO DNA
If a Well Constructio		Was cas	ing cut off belo	ow surface?	XYes	s No NA
Borehole / Drillhole please attach.		Did seali	ng material ris	e to surface?	XYes	
Driven (Sandpoint)	Dug		rial settle after	The second secon	Yes	
Other (specify):	_1 bug		i, was hole ret		LIYes	No No
		THE RESERVE AND PARTY AND PERSONS ASSESSED.	And in contrast of the Party of	used, were they hydrain safe source?	Lyes	No MIN/A
Formation Type: Suppose the suppose that the suppose the suppose that the suppose that the suppose that the suppose the suppose that the suppose the suppose the suppose that the suppose the suppose the suppose that the suppose the supp			ethod of Placin ctor Pipe-Grav	g Sealing Material vity Conductor Pi	oo Oumood	
Total Well Depth From Ground Surface (ft.) Casing Dia		Screen	ned & Poured	Other (Explain		126
9,5	nineter (iii.)	(Bento Sealing Mate	nite Chips)	Oulei (Explair)	
Lower Driffhole Diameter (in.) Casing De	pth (ft.)		ement Grout		lay-Sand Si	urry (11 lb./gal. wt.)
unknown un	Kuown	Sand-0	Cement (Concr	(manual)		nd Slurry " "
Was well annular space grouted?	No Unknown	Concre			entonite Chi	ips
If yes, to what depth (feet)? Depth to Water	(feet)	For Monitorii	<i>ng Wells and N</i> iite Chips	Monitoring Well Boreho		_
7.	48		ar Bentonite		e - Cement (e - Sand Slu	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks S	ealant	Mix Ratio or
3/8" Bentonite Chips		Surface	9.5	or Volume (circle		Mud Weight
The second control of the second control of		Surido	763	10 7 4 5		
5. Comments	4					
7. Supervision of Work	19.119			DN	R Use Onl	lv
Name of Person or Firm Doing Filling & Sealing Licens	e# Date of Filli	ing & Sealing	(mm/dd/yyyy		Noted B	
Sentine Env. Services, LLC 940	0910 06/6	02/09	9			
P.O. Box 865		62 375		Comments		
CityState	ZIP Code	Signature of	Person Deing		Date Sig	gned ,
Grafton WI	53024	LAUN	Lou	MODE	02/	16/10

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

Verification Only of Fil	and Se	eal	Drinking Wat		n [Watershed/	Wastewater	Rer	mediation/Redevelopment
1. Well Location Information	1				2. Facili	ty / Owner I	nformation		
County WI Un	que Well	# of	licap #		Facility Na	The second secon	300.01	.,	
Milwau Kee Remove	ved Well					Forme (FID or PWS)	1 Clark	#5	62
Lattitude / Longitude (Degrees an	d Minutes) Method	Code (see instruct	ions)	2 4	1<12	950		
	'I	N			License/Pe	emit/Monitorin	0.50		
	'\	wl		_ [51	ECA	ween mi	W- 6	2)
XIX NE X NE	Section	Town	nship Range	E	Original W	ell Owner	0.1		
or Gov't Lot #	705	5 0	7 N 22F	IW -			0:(
Well Street Address 475/ N. Sur	hM	lonia	R/w.		Present We	in Bh	imani		
Well City, Village or Town	1	ONTO	Well ZIP Code		Mailing Add	dress of Prese		1	11 42
Milwaukee	9		5321	1	.100		Sconsin	Contraction of the last of the	56e 17-5
Subdivision Name			Lot#			Sept Owner	-	State	ZIP Code
				1	THE RESERVE AND PARTY AND PERSONS NAMED IN		The same of the sa	w	The second second
Reason For Removal From Service	e Wi Un	ique Well	# of Replacement V	Veli -	i. Pump,	Liner, Scree	en, Casing & S	ealing Ma	
Site Closed					a second leaves	nd piping remo	oved?	l	Yes No NA
3. Weil / Drillhole / Borehole	*****					removed?		ı	Yes No NA
Monitoring Well	Original C		n Date (mm/dd/yyy	y)	20 141 1	emoved?		L	Yes No NA
Water Well	4		wa			eft in place?			Yes No No NA
Borehole / Drillhole	please at		n Report is available	e,		ing cut off bek			Yes No No
Construction Type:				\neg		ng material ris		ļ	Yes No No
	andpoint)	Г	Dug			rial settle after		L	Yes No NA
Other (specify):		_				i, was hole ret te chips were i		vdrated c	Yes No No NA
				-			used, were they has a safe source?		Lyes LINO N/A
Formation Type:	г	7-		1			g Sealing Materia		8
Unconsolidated Formation	L	Bedroc		_	prontong .	ctor Pipe-Grav ned & Poured	-		
Total Well Depth From Ground Sur	tace (ft.)	Casing Di	ameter (in.)		(Bento	nite Chips)	Other (E	cplain):	Taury.
Lower Drillhole Diameter (in.)		Casing De	onth (ft \	S	ealing Mate		- 1	٦	
nukuoum			Known		Comment of the last Cement Grout Cement (Conci	roto) Court [and Slurry (11 lb./gal. wt.)	
		-		-1	Concre		rete) Grout		ite-Sand Slurry " " ite Chips
Was well annular space grouted?			No Unkno	wn F			L Monitoring Well Bo		
If yes, to what depth (feet)?	Depth	to Water			X Benton	ite Chips	Lumany		ment Grout
		8	.(2		Granul	ar Bentonite	Located	tonite - Sar	
5. Material Used To Fill Well / Dr	illhole			F	From (ft.)	To (ft.)	No. Yards, Sac or Volume (ci	ks Sealant	
3/8 " Bentonite 1	Chip	3			Surface	9.5		3	Mud Weight
						1			
6. Comments						gazagneza nina a rasii anga z			
		1317-337-34111111							
7. Supervision of Work							I	DNR Us	e Only
Name of Person or Firm Doing Filling	g & Seali	ng Licens				(mm/dd/yyyy) Date Received	-	oted By
Sentine Env. Sorvi	oes, H	c 94	0910 06	-		,			10.7
Street or Route			2 8		hone Num		Comments		
P.O. BOX 865		1-				-8/10			
Grafton		State	ZIP Code	Sig	mature of	Person Doing		Da	ate Signed
0007 707		WI	53024	K	aux	den	non	0	2/16/10

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

	Route to:					
Verification Only of Fill and Seal	Drinking Water Waste Manager	ment [Watershed/	Wastewater	Reme	diation/Redevelopmen
Well Location Information		2 Encil	ity / Owner I	afa-matia-		
County WI Unique Well # of	Lines #			mormation		
Milwau Kee Removed Well	Hicap #	Facility Na	Forme	1 Clark	#56	2
Lattitude / Longitude (Degrees and Minutes) Metho	od Code (see instruction	racility ID	(FID or PWS)	950		
· N		Linama /D	7/2/7	-030		
		S V	ermit/Monitorin	ear mu	-6)	
14 NE 14 NE Section To	wnship Range		ell Owner			
or Gov't Lot#	7 N 22 11 V	v		011		
Well Street Address 475/ N. Sauda Manie	- / /	Present V	non Bh	imani	H K	
Well City, Village or Town Milwaukee	Well ZIP Code 532//		dress of Prese ろ し . し	ont Owner	fue.	56e #3
Subdivision Name	Lot #	City of Pre	sept Owner		State	ZIP Code
out of the state o	Lot #	MI	/wanke	e	WI	53233
Reason For Removal From Service MI Unique We	# of Replacement Well	4. Pump	Liner, Scree	en, Casing & Sea	aling Mate	rial
Site Closed		Pump a	nd piping remo	ved?	Ø	Yes No No
3. Well / Drillhole / Borehole Information		Liner(s)	removed?			Yes No No NA
Original Construct	ion Date (mm/dd/yyyy)	_	removed?			Yes No DNA
Monitoring vveil UNKA	own	Casing	eft in place?		and the same of th	Yes DNo DN/A
Water Well If a Well Construc	tion Report is available,	Was cas	ing cut off belo	ow surface?		Yes ONO ON/A
Borehole / Drillhole please attach.			ing material ris		X	
Construction Type:			rial settle after			Yes No DNA
Drilled Driven (Sandpoint)	Dug		s, was hole ret			res DNo N/A
Other (specify):		If benton	ite chips were	used, were they hyd a safe source?	trated -	T 458
Formation Type:	-			g Sealing Material		res LINO MINIA
☑ Unconsolidated Formation ☐ Bedro	ock	- Innerestal	ictor Pipe-Grav	Section 2012	Pipe-Pump	ed
Total Well Depth From Ground Surface (ft.) Casing I			ned & Poured	Other (Exp		
22	6	Sealing Mat	onite Chips)			
Lower Drillhole Diameter (in.) Casing [Depth (ft.)	may bear a	Cement Grout		Clay-Sand	Slurry (11 lb./gal. wt.)
un Karren us	Known	femend	Cement (Concr	rete) Grout		Sand Slurry " "
Was well annular space grouted?	No Unknown	Concr			Bentonite (
		For Monitori	ng Wells and M	Monitoring Well Bore		
		Benton	nite Chips	☐ Bento	nite - Cemer	nt Grout
	78	☐ Granu	ar Bentonite	Bento	nite - Sand S	
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 " Beutonite Chips		Surface	22	4.3 F	3	wing aveiding
. Comments						
ж э						
. Supervision of Work				T	ONR Use C	Only
Sentino Env. SONICOALLY 94		ling & Sealing	(mm/dd/yyyy	Date Received	Note	
P.O. Box 865	and the second name of the second	lephone Num	ber	Comments		
K.O. 50X 865		262 395	-8/10			
ity_ State	ZIP Code		Person Doing	Work	Date	Signed
Grafton WI	53024	Lave	Len	non		116/10

Well / Drillhole / Borehole Filling & Sealing

☐ Verification Only of Fill and Seal	Drinking Water Waste Managem	est [\neg	d/Wastewater	Reme	diation/Redevelopmen
4 Molt Location Information	T VVaste Managem		Other:			
1. Well Location Information County WI Unique Well # of	Uisas #	_		Information		
Milway Kee Removed Well	Hicap #	Facility N	Forma	er Clark	#56	2
Lattitude / Longitude (Degrees and Minutes) Method	Code (see instructions	Facility ID	FID or PWS	1850		
		License/P	ermit/Monitor	ing# Lea MW -	5)	
or Gov't Lot # Section Tow	nship Range X E	1	look	0:1		
Well Street Address	NAAUW	Present y	lell Owner			
4751 N. Sauda Monia			Idress of Pres	sent Owner		
Well City, Village or Town Milwaukee	Well ZIP Code 532//	70	OW.U	Disconsin ,	the same of the same of	ste#3
Subdivision Name	Lot#		sent Owner	00	State	ZIP Code 53233
Reason For Removal From Service WI Unique Well	# of Replacement Weii			en, Casing & Sea		
Site Closed		Pump a	nd piping rem	loved?	V	Yes No No N/A
3. Well / Drillhole / Borehole Information			removed?		17	Yes No No N/A
Original Construction	n Date (mm/dd/yyyy)	-	removed?			Yes No DN/A
Monitoring Well	rure	Casing	eft in place?		and the same of	Yes No NA
Water Well If a Well Construction	on Report is available.			low surface?	Ø	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON
Borehole / Drillhole please attach.		1		ise to surface?		res ONO ONA
Construction Type:			erial settle aft			res No DNA
Drilled Driven (Sandpoint)	Dug	If ye	s, was hole re	etopped?		res No No NA
Other (specify):		If benton	ite chips were	used, were they hyd vn safe source?	trated	
Formation Type:		Required M	ethod of Placi	ng Sealing Material	<u></u>	es UNo MIN/A
Unconsolidated Formation Bedroo	k		uctor Pipe-Gra	Personal	Pipe-Pump	ed
Total Well Depth From Ground Surface (ft.) Casing D	iameter (in.)		ned & Poured onite Chips)	Processor.	lain): Gr	
Lower Drillhole Diameter (in.) Casing D	epth (ft.)	d beread	Cement Grout		Clay-Sand	Slurry (11 lb./gal. wt.)
//	Kuowa		Cement (Con	and the same of th		Sand Slurry " "
		Concr			Bentonite	
		For Moniton	ng Wells and	Monitoring Well Bore		
If yes, to what depth (feet)? Depth to Water	(feet)	16.71	nite Chips	Contracted in contract of the	nite - Ceme	
		L Granu	lar Bentonite		nite - Sand S	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	25		23	mud eveligit
6. Comments						
7. Supervision of Work					ONR Use C	only
Name of Person or Firm Doing Filling & Sealing Licens Sentine Env. Services, LLC 94	0910 06/0	2/09	g (mm/dd/yyy	y) Date Received	Note	d By
P.O. Box 865		ephone Num	nber 5-8//0	Comments		
City_ State	ZIP Code	Signature of	Person Deing	Work	Date	Signed
Grafton WI	53024	Thur		non		116/10

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

Page 1 of 2

The Control of the Co	Route to:						
Verification Only of Fill and Seal	Drinking Water	Г	Watershed/	Mastaumter	[M] D	Remediation/Redevelopment	
vernication only of Fill and Sear	Pro	F	=	vvastewater	Reme	diation/Redevelopment	
	Waste Manager	ment L	Other:				
1. Well Location Information		2. Facil	2. Facility / Owner Information				
	licap #	Facility Na	ame	-1 .	1/		
Milwau Kee Removed Well				1 Clark	#56	2	
Lattitude / Longitude (Degrees and Minutes) Method Code (see instructions		Facility ID	Facility ID (FID or PWS)				
° · 'N			A415-14-850				
		License/P	ermit/Monitorin		,	/ \	
			SVE (near Storage shed)				
1/4 NE 1/4 NE Section Township Range X			Original Well Owner				
or Gov't Lot#	7 N 22 11 V	v		011			
Well Street Address	1	Present W	lell Owner				
4751 N. Sauda Monica Blad.			HMM Shimanc				
Well City, Village or Town Well ZIP Code			Mailing Address of Present Owner 700 W. Wisconsin Ave. Ste #3				
Milwaukee	53211			15consin 1	-	56e 17-5	
Subdivision Name	Lot#		sent Owner	2001	State	ZIP Code	
		THE STATE OF THE STREET STATE OF THE STATE O	worke		WI	53233	
Reason For Removal From Service WI Unique Well # of Replacement Well			4. Pump, Liner, Screen, Casing & Sealing Material				
Site Closed			Pump and piping removed?				
3. Well / Drillhole / Borehole Information			Liner(s) removed?				
Original Construction Date (mm/dd/yyyy)			Screen removed?				
Monitoring Well What Kurwa			Casing left in place?				
Water Well If a Well Construction Report is available.							
Borehole / Drillhole please attach.							
Construction Type:							
Drilled Driven (Sandpoint) Dug							
Other (specify):							
			If bentonite chips were used, were they hydrated with water from a known safe source?				
Formation Type:			Required Method of Placing Sealing Material				
∠ Unconsolidated Formation			Conductor Pipe-Gravity Conductor Pipe-Pumped				
Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)			Screened & Poured (Bentonite Chips) Other (Explain):				
24 6			Sealing Materials				
Lower Drillhole Diameter (in.) Casing De	pth (ft.)	☐ Neat (Cement Grout		Clay-Sand	Slurry (11 lb./gal. wt.)	
hakubeum unkubeum			Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "				
Was well annular space grouted?	No Unknown	L Concre			Bentonite	Chips	
f yes, to what depth (feet)? Depth to Water (For Monitori	ng Wells and M	fonitoring Well Bon	eholes Only:		
		Bentor	nite Chips	☐ Bento	nite - Ceme	nt Grout	
8.1	5	☐ Granu	ar Bentonite	☐ Bento	nite - Sand	Slurry	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks or Volume (circ	Sealant	Mix Ratio or	
3/8 " Bentonite Chips		Surface	24	4.7 ft		Mud Weight	
		-	05-	70/7	-		
5. Comments							
. Supervision of Work						ONR Use Only	
lame of Person or Firm Doing Filling & Sealing License # Date of Filling			ng & Sealing (mm/dd/yyyy) Date Received		the same of the same of	Noted By	
Sentine Env. Services, LLC 941	2910 06/	02/09	3	, Land , woodings	1406		
street or Route	the same of the sa	elephone Num	ber	Comments			
P.O. Box 865	1/2	262,395	-8/10				
City State	ZIP Code		Person Deing	Work	Date	Signed	
Grafton WI	53024	This		non		116/10	
				W. bell, all and a second	100	110/10	