KSingh | Engineers Scientists Consultants

LETTER OF TRANSMITTAL

DATE	:	July 20, 2022
TO	:	Ms. Jennifer Dorman Wisconsin Department of Natural Resources Remediation and Redevelopment / Waste and Materials Management 1027 W. St. Paul Ave. Milwaukee, WI 53233
FROM	:	Daniel K. Pelczar, CPG, P.G. | Senior Geologist
SUBJECT	:	Development at Historic Fill Site or Licensed Landfill Exemption Application, Form 4400-226 (R 05/16) Community Within the Corridor Limited Partnership - East Block 2748 N. 32nd Street, Milwaukee, WI 53210 BRRTS #: 02-41-263675; FID #: 241025400
COPY TO	:	File (40441); Mr. Shane LaFave / Roers Companies, LLC; and Mr. Que El-Amin / Scott Crawford, Inc.

We are:

☐ Attaching ☒ Submitting ☐ As Requested

Copies	Date	Description
1	7/20/2022	Development at Historic Fill Site or Licensed Landfill Exemption Application (submitted electronically)
1	7/11/2022	$700.00 Check WDNR Review Fee (FedEx Mail)

Transmitted For Your:

☐ Information/Records ☒ Review ☒ Approval
☐ Action (Signature/Date) ☐ Revision/Resubmittal ☐ Distribution

Remarks:

Should you have any questions regarding this submittal or require any additional information, please feel free to contact me via email at dpelczar@ksinghengineering.com or telephone at (262) 821-1171, ext. 112. We look forward to working with you on this project!

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Development at Historic Fill Site or Licensed Landfill Exemption Application

Form 4400-226 (R 05/16)

Notice: Use of this form is required by the DNR for any application to develop at a historic fill site or licensed landfill pursuant to secs. NR 506.085 and NR 500.08(4), Wis. Adm. Code. The Department will not consider your application unless you provide complete information requested. Personally identifiable information collected will be used to process your application and will also be accessible by request under Wisconsin's Open Records law [ss.19.31 - 19.39, Wis. Stats.]

Instructions: See *Development at Historic Fill Sites and Licensed Landfills: What you need to know* (PUB-RR-683, November 2013) for detailed instructions.

- All Exemption Application materials should be sent to the region where the site is located, as listed on page 6.
- Include $700 fee payment with this application. If the site is a licensed landfill and the Waste and Materials Management program is doing the review, submit no fee now. You will be sent an invoice upon receipt of this application.
- Determine the appropriate exemption type for the site and check appropriate box below.
- Provide complete information requested for each type of exemption. Include the following attachments:
  Required: Summary of Existing and Potential Impacts described in Section V as an attachment, under the seal of a professional engineer or geologist registered to practice in Wisconsin.

  Optional: Site Visit Summary Comments (Section IX) including any photos, sketches or site visit notes.

Exemption Type

☒ **Remediation and Redevelopment Program NR 700 Rule Series Process Exemption:** Site with remedial actions conducted in accordance with NR 700 series
Required: Sections I - VI ***Optional:*** Sections VII - X

☐ **Case-by-Case Evaluation:** Sites with anticipated environmental impacts or wastes of special concerns
Required: Sections I - VI ***Optional:*** Sections VII - X

☐ **Expedited Exemption:** Site with no expected environmental impact
Required: Sections I - VI **and** Form 4400-226A Expedited Exemption Application ***Optional:*** Sections VII - X

I. Applicant Information

Owner - Last Name	First	MI	Phone Number (include area code)
n/a	n/a		

Contact Name (if different)
Community Within the Corridor Limited Partnership

Street Address	City	State	ZIP Code
2748 N. 32nd St.	Milwaukee	WI	53210

Developer - Last Name	First	MI	Phone Number (include area code)
LaFave	Shane		(763) 285-8795

Street Address	City	State	ZIP Code
110 Cheshire Lane, Suite 120	Minnetonka	MN	55305

II. Site Name and Location

Site Name	Location / Address
Community Within the Corridor - East Block	2748 N. 32nd St.

Is the site known by another name(s)? ○ Yes ○ No ○ Unknown
If yes, provide name:

◉ City ○ Town ○ Village of Milwaukee

Does the site have a license number? ○ Yes ◉ No ○ Unknown
If yes, License Number:

State	ZIP Code	County
WI	53210	Milwaukee

A. Attach a map with site location and limits of fill/waste disposal area.

B. Global Positioning System Coordinates

Describe method for collecting GPS Coordinates: DNR Website.

Latitude DEG	MIN	SEC	Longitude DEG	MIN	SEC
43	04	08.4500 N	87	57	13.0170 W

Program Lead, Fee Status and Regulatory ID Numbers ***(This area for DNR use only)***

○ **Waste Management Bureau**
○ **Remediation and Redevelopment Bureau - Exemption is part of remedy under NR 700 program**
○ Fee already paid for review of remedial design report.
○ Review of remedial design report not requested and payment is attached.

☐ Payment Attached
Amount: $

Hazardous Waste Facility License ID # (5 digits)	DNR FID # (9 digits)	USEPA ID # (used for both RCRA & CERCLIS #s) (WI+Alpha+9 digits)

Region	Project Manager	Telephone Number

III. Site Ownership History

Previous Owner - Last Name	First	MI	Telephone Number
Briggs and Stratton (manufacturing facility)	n/a		

Street Address	City	State	ZIP Code
2748 N. 32nd St.	Milwaukee	WI	53210

Responsible Municipal / Private Operator - Last Name (if applicable)	First	MI	Telephone Number
n/a	n/a		

Street Address	City	State	ZIP Code
n/a	n/a		

IV. Evaluation of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

A. Analytical data for the following media have been collected and/or examined before completing this application:

1. Groundwater: ◉ Yes ○ No
2. Soil: ◉ Yes ○ No
3. Surface water / sediment: ○ Yes ◉ No
4. Air: ◉ Yes ○ No
5. Methane or other explosive gases: ○ Yes ◉ No

B. Based on known or suspected sources and wastes, their physical characteristics, containment and geologic environment, do you suspect a release of pollutants to the environment?

◉ Yes ☒ Groundwater ☒ Soil ☐ Surface Water / Sediment ☐ Methane or Other Explosive Gases
○ No

C. If there is NOT a likelihood of a release of pollutants or evidence of a release, would the impact of the proposed development be likely to cause a release to the environment?

○ Yes **If yes, be sure to summarize actions to be taken to prevent adverse environmental impacts in V. Part C below.**
◉ No

V. Summary of Existing and Potential Impacts. See Development at Historic Fill Sites and Licensed Landfill: Guidance for Investigation and Development at Historic Fill Sites and Licensed Landfill: Potential Problems and Considerations.

Describe the following in an attached narrative under the signature of a qualified professional. Organize, label and package as listed below.

A. Existing Site Conditions

1. existing site conditions including waste types,
2. potential for impacts, and
3. evaluation of existing impacts.

B. Proposed Development Summary. Include explanation for overall site decision.

C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse environmental impacts and potential threats to human health and welfare, including worker safety.

VI. Certification of Application Information

I certify that information in this application and all its attachments is true and correct and in conformity with applicable Wis. statutes.

Print / Type Name of Applicant

Mr. Shane LaFave / Community Within the Corridor Limited Partnership

Applicant Signature _____ Date Signed _____

Sections VII - IX are optional for all Applicants.

VII. Current and Historic Type of Waste Disposal Site (Check all that apply)

- ☐ Licensed Landfill
- ☐ Non-approved {See s.289.01(3)}, Wis Stats.
- ☐ Approved
- ☐ One-time Disposal
- ☐ Construction / Demolition
- ☒ Historic Fill Site

Liner
- ☒ Unlined
- ☐ Clay Liner
- ☐ Lined
- ☐ Unengineered
- ☐ Composite Liner
- ☐ Other Liner (Describe):

Total Landfill Volume
- ◉ < 50,000 yd³
- ○ 50,000-500,000 yd
- ○ > 500,000 yd³

Does the landfill have a closure plan? ○ Yes ◉ No ○ Unknown
Does the landfill have a groundwater monitoring plan? ○ Yes ◉ No ○ Unknown
Have groundwater monitoring wells been installed? ◉ Yes ○ No ○ Unknown

Was a cover installed? ○ Yes: ◉ No **If no, go to Past Land Uses.**
- ☐ Composite cap
- ☐ Layered soil cap with clay barrier
- ☐ Clay cap
- ☐ Soil cap - not recompacted clay
- ☐ Other cover
- ☐ Unknown

What is the thickness of the cover? ○ < 6 in ○ 6-12 in ○ 12-24 in ○ > 24 in ○ Unknown

Past Land Uses. (Check all that apply)
- ☐ Agricultural co-op
- ☐ Brush pile
- ☐ Bulk plant
- ☐ Coal gas manufacturer
- ☐ Deer pit
- ☐ Dry cleaner
- ☐ Electroplater
- ☐ Lagoon
- ☒ Manufacturing Type: Briggs and Stratton
- ☐ Old burn pit
- ☐ Pipeline
- ☐ RCRA generator
- ☐ Salvage yard
- ☐ Service Station
- ☐ Tannery
- ☐ Unknown
- ☐ Other:

Date(s) of Site Operation
From 01/01/1906 To 01/01/1980 No. of Years 74 ☐ Unknown

VIII. Waste Information & Geologic Environment. See Development at Historic Fill Sites and Licensed Landfills: Guidance for Investigation

A. Known or Suspected Sources/Wastes (Check all that apply)
- ☐ Abandoned containers
- ☐ Above ground pipeline or tank
- ☐ Animal carcasses
- ☐ Buried drums
- ☐ Burning of materials
- ☐ Foundry sand
- ☐ Industrial accident
- ☐ Known or suspected hazardous materials
- ☐ Municipal waste
- ☐ Paper mill sludge
- ☐ Transformer
- ☐ Trees/brush
- ☒ Surface spills
- ☐ Fly ash
- ☐ Demolition/construction waste
- ☐ Surface impoundment/lagoons
- ☒ Underground pipeline or tank
- ☐ Exempted fill [NR 500.08(1) and (2)]
- ☐ Unknown
- ☐ Other:

B. Physical Characteristics of Sources/Wastes
○ Liquid ◉ Solid ○ Liquid & Solid ○ Unknown

VIII. Waste Information & Geologic Environment *(continued)*

C. Waste Containment ◯ Liner ◯ Unknown ◉ Not applicable

☒ Engineered cover
◉ Maintained ◯ Not maintained

☐ Functioning leachate collection & removal system
☐ Functioning & maintained run-off management system
☐ Functioning groundwater monitoring system

D. Soil Type: Estimate distances or determinations based on regional or site specific information.

◯ Regional ◉ Site specific

Clay, silt or other fine grained soils present? (lacustrine, tills, etc.) ◉ Yes ◯ No

At surface? ◉ Yes ◯ No At depth? ◉ Yes ◯ No 28.5 feet

Sand & gravel, coarse grained soils present? ◉ Yes ☒ No

At surface? ◯ Yes ◉ No At depth? ◉ Yes ◯ No Variable feet Sand & Silt Seams

E. Depth to Groundwater

◯ Regional ◉ Site specific 24 feet

F. Direction of Groundwater Flow

◯ Regional ◉ Site specific SW direction

G. Depth to Bedrock

◯ Regional ◉ Site specific 28.5 direction

H. Bedrock Type

◉ Regional ◯ Site specific ☐ Sandstone ☒ Limestone/Dolomite ☐ Metamorphic/Igneous

IX. Site Visit

Conduct a site visit to complete site screening and determine general site conditions, on-site activities and adjacent land use encroachment issues. As appropriate to document the site, take photos, sketch the site and prepare a Site Visit Report.

On-site visit conducted? ◉ Yes ◯ No

General site conditions: Document any observed releases and note whether or not you were able to walk the site. Examples of things to be aware of include the following:

- leachate seeps or evidence of seeps such as stained soil/vegetation
- stressed vegetation as a sign of gas migration to the surface or of leachate seeps;
- quality and coverage of vegetation on the cap;
- odors which may indicate gas migration to the atmosphere;
- erosion of the cap;
- maintenance of positive drainage over the capped area;
- visual desiccation cracks in the cap.

Attach the following to your application:

☐ Photographs, regular or digital ☒ Site sketch ☐ Site Visit Report

Name(s) of Person(s) Conducting Site Visit	Date of Site Visit
Robert T. Reineke, P.E. & Daniel K. Pelczar, CPG, P.G.	01/01/2022

IX. Site Visit *(continued)*

A. Adjacent Land Uses. Indicate all directions. (Check all that apply)

	N	S	E	W	NE	NW	SE	SW
☐ Agricultural	☐	☐	☐	☐	☐	☐	☐	☐
☒ Industrial	☒	☒	☐	☒	☐	☐	☒	☒
☐ Recreational	☐	☐	☐	☐	☐	☐	☐	☐
☒ Residential	☐	☐	☐	☐	☐	☒	☐	☐
☐ Undeveloped	☐	☐	☐	☐	☐	☐	☐	☐
☒ Commercial	☐	☐	☐	☐	☒	☐	☐	☐
☒ Other: Railroad	☐	☐	☒	☐	☐	☐	☐	☐

B. Potential Groundwater Receptors. Estimate distances. (1 mile = 5,280 ft) See attached map & logs.

Distance to and direction of nearest municipal well: _____ feet ☐ > ½ mile from the waste _____ direction

Distance to and direction of nearest other-than-municipal well: _____ feet ☐ > ½ mile from the waste _____ direction

Distance to and direction of nearest non-community well: _____ feet ☐ > ½ mile from the waste _____ direction

Distance to and direction of nearest private well: _____ feet ☐ > ½ mile from the waste _____ direction

Distance to and direction of nearest private well: _____ feet ☐ > ½ mile from the waste _____ direction

C. Potential For Gas Migration

3 No. of homes within 300 feet of waste (gas migration potential)

262 No. of homes between 300 & 1,000 ft to waste (gas migration potential)

Distance to and direction of nearest building: 0 feet ☐ > ½ mile from the waste _____ direction

Type of building: ☒ On-site building ☐ Municipal ☐ Residential ☐ Commercial ☐ Industrial ☐ Unknown

D. Potential Surface Water Receptors. Estimate distances

○ Creek	_____ feet	○ Drainage ditch	_____ feet	○ Intermittent stream	_____ feet
◉ River	12870 feet	○ Lake	_____ feet	○ Wetland	_____ feet

E. Based on the site visit, did you visually observe...

1. a release to a surface water body?	○ Yes	◉ No	○ Unknown
2. a leachate seep?	○ Yes	◉ No	○ Unknown
3. a release to soils?	○ Yes	◉ No	○ Unknown

X. Comments: Use this section to provide comments on any aspect of the site visit. Attach any information or explanations labeled with the appropriate section number to which the material applies.

Please see the Site investigation Report (KSingh, November 2, 2021) for further information (BRRTS #: 02-41-263675).

Region Map

NORTHERN REGION
Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501
(715) 365-8976
OR
Regional Waste Program Manager
Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501
(715) 365-8946

NORTHEAST REGION
Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727
(920) 662-5160
OR
Regional Waste Program Manager
Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727
(920) 662-5120

SOUTHEAST REGION
Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212
(414) 263-8561 or (414) 263-8714
OR
Regional Waste Program Manager
Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212
(414) 263-8694 or (414) 263-8697

WEST CENTRAL REGION
Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 839-3710
OR
Regional Waste Program Manager
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701
(715) 839-3708

SOUTH CENTRAL REGION
Remediation & Redevelopment
Team Supervisor
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 275-3241

OR Regional Waste Program Manager
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711
(608) 275-3466

V. Summary of Existing and Potential Impacts.

A. Existing Site Conditions

1. Existing site conditions including waste types,

- *Within the soils both petroleum and chlorinated VOCs were detected along with PAHs, PCBs, arsenic and lead above Residual Contaminant Levels (RCLs) for the protection to groundwater and/or non-industrial direct contact exposure pathways. Soils analyzed for PFAS were either below the laboratory's method detection limit or were below the non-industrial direct contact exposure pathway. All other soil samples were below respective groundwater protection RCLs for pesticides and herbicides. Groundwater had detections of petroleum and chlorinated VOCs, naphthalene, arsenic, cadmium, chromium, and lead above state standards.*

2. Potential for impacts, and

- There are impacts to the soil, groundwater and sub-slab vapor which are documented in the Site Investigation Report (KSingh, November 2, 2021).

3. Evaluation of existing impacts.

- *Soil contamination is present at the site for CVOCs, PVOCs, PAHs, and Metals (arsenic, lead and selenium). The additional PFAS soil testing revealed that there are no concerns with PFAS. The majority of the CVOC impacts were defined to within the footprint of the buildings to an approximate depth of 5-feet.*

- *Groundwater contamination is at the site for CVOCs, PVOCs, and PAHs within the northern courtyard area. From the newer wells installed and sampled during this SI there were no CVOCs nor PVOCs detected on the southern half of the site suggesting that there has not been an expansion of the known contaminated groundwater from the northern courtyard southward (03-41-000793 Jonas Construction – Closed LUST). In addition, it appears that CVOCs in soil have not impacted groundwater on the southern portion of the site. Local groundwater flow on the East Block appears to be to the southwest and on the West Block to the southeast with an overall regional flow to the southeast.*

- *The majority of the buildings and additions had sub-slab vapor concentrations that were exceeding residential Vapor Risk Screening Levels (VRSLs), six areas exceeding small commercial VRSLs and three areas exceeding large commercial/industrial VRSLs.*

- *Residential Indoor Air Vapor Action Limits (VALs) were exceeded for chloroform and TCE in all three of the exterior sanitary manholes along the easter side of N. 32nd St., and benzene exceeded Residential Indoor VALs in the tunnel.*

B. Proposed Development Summary. Include explanation for overall site decision.

- *The Community Within the Corridor Limited Partnership is proposing to redevelop the property (both the East and West Blocks) into a mix of affordable housing, commercial spaces, and other amenities. The proposed development includes the following: The Corridor Lofts (64 Units), Creme City Lofts (36 Units) & 30 Square Townhomes (6 Units) and the Briggs Apartment Homes (91 Units) and a Community Service Facility which will include early childhood education, Science, Technology, Engineering, Art & Math after school programming, a health club (Basketball, Volleyball & Futsal, Skatepark), laundromat and a petite grocery store. The property has been rezoned Industrial Mix to facilitate development of the project.*

- *No demolition of existing buildings is planned. The building interiors will be renovated and reconfigured. A ramp will be constructed to utilize the basement as a parking garage. Paved areas will be milled and paved or have pavement removed, be regraded, and then restored with asphalt.*

C. Summary of actions to be taken and engineering controls that will prevent or minimize adverse impacts and potential treats to human health and welfare, including worker safety.

- *CVOCs hot spot removals are completed at the site which have reduced the mass of CVOCs within the buildings footprint as planned.*

- *Groundwater contamination has not migrated off-site and has been delineated and no further monitoring wells are necessary.*

- *Due to the shallow soil and vapor contamination of CVOCs within the buildings a vapor mitigation system is being installed as of the writing of this report.*

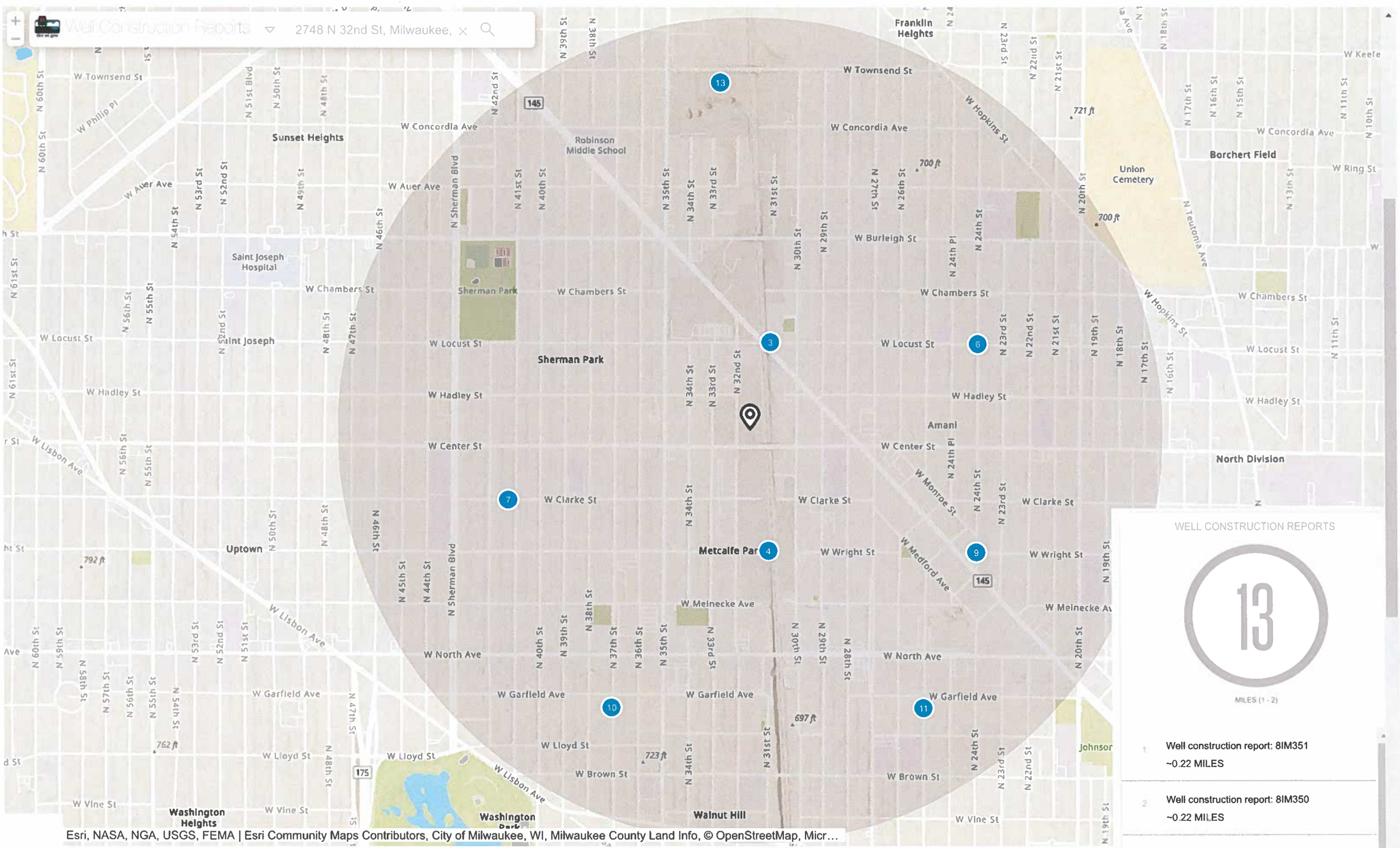
- *The tunnel has since been abandoned (filled in with concrete) and the manholes will be abandoned, and new laterals /manholes will be installed during the redevelopment thus, mitigating the risk of vapor intrusion into the building.*

- *Overall, this site will be closed with continuing obligations consisting of a barrier (buildings, asphalt parking lots, and landscaped areas) to prevent direct contact exposure to the impacted soil; and a large vapor mitigation system is being installed to decrease the risk of vapor intrusion into the building.*

IX. Site Visit.

B. Potential Groundwater Receptors.

See attached maps and well logs. Groundwater is assumed to be flowing regionally to the southeast towards the Milwaukee River and Lake Michigan.



WELL CONSTRUCTION REPORTS

13

MILES (1 - 2)

1 Well construction report: 8IM351
~0.22 MILES

2 Well construction report: 8IM350
~0.22 MILES

3 Well construction report: 8IM349
~0.22 MILES

3

TEST BORING RECORD received from well driller (no WCR was ever filed with DNR).

County: MILWAUKEE ___¼, ___¼, NE ¼, sec. 13, T 7 N, R 21 E

As of _____, street address is believed to be _____

309-03-BL-1926

KNAACK & SON CO., SUCCESSORS TO
15 WATRY-KNAACK & CO.
TEST BORING RECORD

HOLE NO 6 DATE 2/11/26

FIRM City

LOCATION 27th & Hadley

FORMATION	THICKNESS	DEPTH
Red Sandy Clay	5	5
Blue Stony Clay	3	8
Sand Clay	3	11
Blue Stony Clay	7	18
Hard Pan	19	37
Bored to 22', completed with #35A		
309-03-BL-1926		

ML14506

This form was prepared in 1993 by WG&NHS staff.

WGNHS ORIGINAL

4

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

AUG 14 1946

1. County Milwaukee { Town / Village / City } Milwaukee,

2. Location 1/2 block North of North Avenue in alley on 31st St.

3. Owner or Agent ~~S.K.Williams Co.~~ S½, S½, SE, Sec 13 T 7N R 21E

4. Address 2330 North 31st St.

5. From well to nearest: Building____ft; sewer____ft; drain____ft; septic tank____ft; dry well or filter bed____ft; abandoned well____ft.

6. Well is intended to supply water for: washing and plating

7. DRILLHOLE OR EXCAVATION:

Dia. (in.)	From (ft.)	To (ft.)
16"	0	40'
12"	40'	495'6"

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
12"	steel	0	86'6"

9. GROUT:

Kind	From (ft.)	To (ft.)
cement	0	40'

10. FORMATIONS:

Kind	Thickness (ft.)	Total Depth (ft.)
hard pan and boulders	67'	67'
coarse gravel	5	72
broken limestone	10	82'
limestone	~~409'6"~~	495'6"
MILWAUKEE CO. IND #23		
PERM. ABANDONED		

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 125 GPM.

Depth from surface to water: 80' ft.

Water-level when pumping: 94' ft.

dd = 14 spec cap = 8.9 gpm/ft

Water sample sent to laboratory at see remarks on ____ 19____

Construction of the well was completed on January, 1946 19____

The well is terminated 12" inches (above) ~~(below)~~ the permanent grade.

Was the well disinfected upon completion? Yes ~~see remarks~~

Was the well sealed watertight upon completion? Yes yes No____

Signature Layne Northwest Co. 709 North 11th St., Milwaukee, 3, Wisconsin

Registered Well Driller — Complete Mail Address

~~Permit~~ #29

Fred M. Galloway

SEE OTHER SIDE

INSTRUCTIONS

ALL INFORMATION INDICATED ON THE FACE OF THIS FORM MUST BE GIVEN

PLEASE BE GUIDED BY THE FOLLOWING:

Numbers below correspond to numbers of items of the form on the opposite side.

1. Name of the County and the name of the Town, Village or City. Indicate which is given.
2. If Rural: Number and the ¼ of the Section, the number of the Town North, and the number of the Range East or West.
   If Urban: Name of the Street and the number of the Premise.
3. Name of the Owner. If the name of the owner cannot be given, give instead the name of the Agent. Indicate which is given.
4. Name of the Street and the number of the Premise or the number of the Mail Route, the name of the Post Office and the name of the State.
5. Distance, in feet, from the well to the nearest building and to each source of pollution shown.
6. Indicate: Home, farm, school, tavern, creamery, community, industry, etc.
7. Show the diameter and depth of the initial drillhole or excavation and each reduction in size to bottom. If well was reconstructed, show diameter and depth of original well on first line.
8. Show diameter and kind of casing pipe, liner pipe or curbing and actual position in the well, measured from the surface.
9. Show kind of material (mud or cement) used in sealing the annular space, from and to what depths from the surface. If neither was used indicate "none".
10. Show thickness of each formation and the total depth at the base thereof.
11. Provide the data indicated.

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, connecting pits, etc., may be given here:

When permanent pump is installed during the month of August 1946, the well will be disinfectad, water samples taken and submitted to the laboratory for analysis.

ML 14505-2

If more space is needed another sheet may be attached.

OTHER SIDE

6

TEST BORING RECORD received from well driller (no WCR was ever filed with DNR).

County: MILWAUKEE ____¼, ____¼, NW¼, sec. 18, T 7 N, R 22 E

As of _____, street address is believed to be _____

310-19-BL-1926

KNAACK & SON CO., SUCCESSORS TO
14 WATRY-KNAACK & CO.

TEST BORING RECORD

HOLE NO 9 DATE 2/23/26

FIRM City

LOCATION 24$h & Hadley

FORMATION	THICKNESS	DEPTH
Red Clay	9	9
Stony Blue Clay	17	26
Hard Pan	2	28
Bored 12', finished with #35A		
310-19-BL-1926		

ML17749

WGNHS ORIGINAL

This form was prepared in 1993 by WG&NHS staff.

Wel. 6 7

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side WAUWATOSA

1. County Milwaukee — Town ☒ Village ☐ City ☐ Check one — Granville

2. Location 2519 No. 39th St. SE, NW, SW, Sec. 13 T7N R21E
Name of street and number of premise or Section, Town and Range numbers

RECEIVED NOV 15 1955 ENVIRONMENTAL SANITATION

3. Owner ☒ or Agent ☐ Paul Mray
Name of individual, partnership or firm

4. Mail Address 2519 No. 39th St. Milwaukee Wis.
Complete address required

5. From well to nearest: Building 22 ft; sewer 26 ft; drain 22 ft; septic tank ...... ft; ......
dry well or filter bed ...... ft; abandoned well ...... ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	20			
6	20	73			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel	0	47

9. GROUT:

Kind	From (ft.)	To (ft.)
Mud	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay Stoney	0	18
Hard Pan	18	47
Limestone	47	73

Construction of the well was completed on:
Oct 11 1955

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?
Yes ✓ No ......

Was the well sealed watertight upon completion?
Yes ✓ No ......

11. MISCELLANEOUS DATA:

Yield test: 3 Hrs. at 30 GPM.

Depth from surface to water-level: 51 ft.

Water-level when pumping: 53 ft.

Water sample was sent to the state laboratory at:
Madison on Oct. 11 1955
City

Signature Leclair Sons Inc. By Arthur Leclair — Rt. Box 91 R2 Thiensville Wis.
Registered Well Driller — Complete Mail Address

Please do not write in space below

Rec'd ...... No. ......

Ans'd ......

Interpretation ......

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ......

plot 253

9

TEST BORING RECORD received from well driller (no WCR was ever filed with DNR).

County: MILWAUKEE ____¼, ____¼, SW¼, sec. 18, T 7 N, R 22 E

As of _____, street address is believed to be _____

KNAACK & SON CO., SUCCESSORS TO
WATRY-KNAACK & CO.

14 TEST BORING RECORD

HOLE NO 2/3/26 DATE 4

FIRM City

LOCATION 26th & Wright

FORMATION	THICKNESS	DEPTH
Sandy Red Clay	5	5
Sandy Blue Clay	5	10
Wet Sand	3	13
Blue Stony Clay	18	31
Sandy Clay	9	40
Hard Pan	10-5	50-5
Bored		
325-34-BL-1926		

WGNHS ORIGINAL

This form was prepared in 1993 by WG&NHS staff.

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WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Milwaukee ✓ — Town ☐ Village ☐ City ☒ Wauwatosa (Check one and give name)

2. Location 2137 N. 37th St. SW, NE NW, Sec 24, T7N, R21E
Name of street and number or premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Edwin Thierman
Name of individual, partnership or firm

4. Mail Address 4452 N. Sherman Blvd. Milwaukee 10 Wisc.
Complete address required

5. From well to nearest: Building 15 ft; sewer xx ft; drain 15ft; septic tank 69 ft; dry well or filter bed 50 ft; abandoned well xx ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia (in.)	From (ft)	To (ft)	Dia. (in.)	From (ft)	To (ft)
10	0	20			
6	0	214			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in)	Kind	From (ft)	To (ft.)
6	blk.Wd 19.45	0	79

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill mud	0	20

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
clay		49
hardpan	20	69
gravel	10	79
limestone white	121	200
limestone WB	13	213

11. MISCELLANEOUS DATA:

Yield test: 9 Hrs. at 8 GPM.

Depth from surface to water-level: 60 ft.

Water-level when pumping: 117 ft.

Water sample was sent to the state laboratory at: Madison City on 6/2 19 55

Construction of the well was completed on: June 2 19 55

The well is terminated 8 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon-completion? Yes X No

Signature Garber & Son B. J. Garber Registered Well Driller

5807 W. Hampton rd Milwaukee 16
Complete Mail Address

Please do not write in space below

Rec'd June 4 1955 No. 14923

Ans'd

Interpretation

SAFE

ML 15597

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

O/S Examiner

County Milwaukee Twp. Milw city Sec. .....
(Office Record—Do not fill in)
NW, NW, Sec. 19 T. 7 N. R. 22 E. P.O. mailing address

11

TO THE WISCONSIN STATE BOARD OF HEALTH, WELL DRILLING DIVISION, MADISON, WIS.

WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board
(TO BE USED FOR THAT PURPOSE ONLY)

Owner A Baker
(If a joint ownership give name of responsible official. Also name of each individual holding an interest. Use a separate sheet and attach hereto.)
Address 2036 No. 25th St (City, village, township, county) Milwaukee Wisc.

Driller L L May
Address R-1 Cudahy Wis
Date of Report May 7 1937
Registration No. 392

Give below the location of the property on which well is drilled.

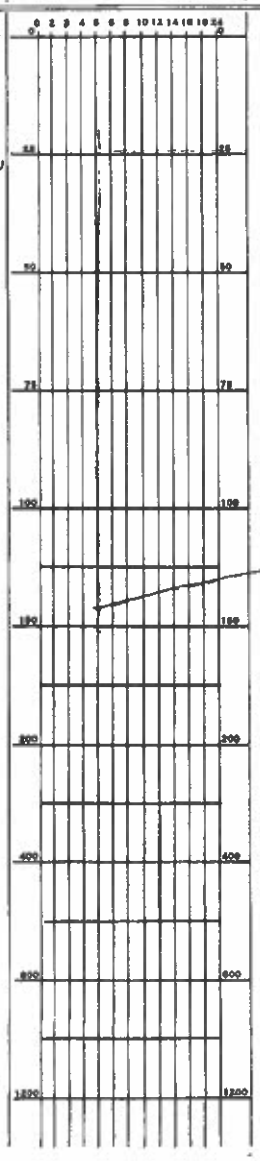
If incorporated village or city: ..... Name ..... Lot ..... Blk. ..... Street and No. .....
If unincorporated hamlet ..... Name ..... County ..... Twp. ..... Highway .....
If Lake Shore Plat ..... Name of Plat ..... Lake ..... Lot ..... Blk. ..... Street .....
If Farm ..... County ..... Twp. ..... Sec. ..... Highway .....
If School ..... County ..... Twp. ..... Sec. ..... District .....
If other public building ..... Kind ..... County ..... Twp. ..... Sec. .....
Miscellaneous Private. Kind Sec 19 T-7N County Twp. R 22E Sec.

WELL LOG and REPORT

Kind of casing and liner in feet. Kind of shoe. Indicate grout, screen, seal, etc.

5" Well Casing
Forged Steel
Drive Shoe

WELL DIAGRAM
Vertical Lines = in. Dia.
Horizontal Lines = ft. Depth



Give depth of formations in feet. State if dry or water bearing.

Record of FINAL Pumping Test

Duration of test.
Hours 5 hrs

Pumping Rate.
G. P. M. 11

Depth of pump in well.
Ft. 72

Standing water-level (from surface.)
Ft. 68

Water level when pumping
Ft. 60

Water, End of test. Check:
Clear X
Cloudy .....
Turbid .....

Was well sterilized before test?
Yes X No .....
Date .....

To which Laboratory was sample sent?
Madison
Date .....

Was the well sealed on completion?
Yes X No .....

How high did you leave casing above grade?
1½"

Well was completed
May 7 1937

Well Driller:
L May
Signature.

(Be sure to complete the report on the reverse side)
Back is Blank

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Well Construction Report
WISCONSIN UNIQUE WELL NUMBER UH492

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707
Form 3300-077A

Property Owner: UNITED MILWAUKEE SCRAP | Phone #: (414)444-7480

Mailing Address: 3295 W TOWNSEND DR

City: MILWAUKEE | State: WI | Zip Code: 53216

County	Co. Permit #	Notification #	Completed
Milwaukee		29921784	07-03-2008

Well Constructor (Business Name): MICHAEL G HARTMAN | Lic. #: 436 | Facility ID # (Public Wells):

Well Plan Approval #:

Address: MICHAEL HARTMAN WELL DRLG & PUMP I
NORTH LAKE WI 53064-0218

Approval Date (mm-dd-yyyy):

Hicap Permanent Well #: | Common Well #: | Specific Capacity: 0.4

3. Well serves 1 # of BUILDING
Private,potable
Heat Exchange____# of drillholes

Hicap Well ? No
Hicap Property ? No
Hicap Potable ?

1. Well Location
City of MILWAUKEE

Fire # (if avail.):

Street Address or Road Name and Number: 3295 W TOWNSEND DR

Subdivision Name: | Lot #: | Block #:

Latitude / Longitude in Decimal Degree (DD): °N °W | Method Code:

NW or Govt Lot #	SE	Section	Township	Range
		12	7 N	21 E

2. Well Type New Well
of previous unique well # constructed in

Reason for replaced or reconstructed well ?
NEW CONSTRUCTION

Construction Type Drilled

4. Potential Contamination Sources - ON REVERSE SIDE

5. Drillhole Dimensions and Construction Method

Dia. (in.)	From (ft.)	To (ft.)
6	Surface	205

Upper Enlarged Drillhole — Lower Open Bedrock

- Rotary - Mud Circulation .....
- Yes — Rotary - Air ..... — No
- Rotary - Air & Foam .....
- Drill-Through Casing Hammer
- Reverse Rotary
- Cable-tool Bit ____in. dia...
- Dual Rotary .....
- Temp. Outer Casing ____in. dia
  Removed? ____depth ft. (If NO explain on back side)

8. Geology

Geology Codes				8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	From (ft.)	To (ft.)
-	-	C	-	CLAY	Surface	20
-	-	P	-	HARDPAN	20	80
-	-	L	-	LIMESTONE	80	205

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6	0.280 A 53 GRB WHEATLAND STEEL WELDED	Surface	81
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)

7. Grout or Other Sealing Material
Method MOUNDED

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
CRUMBLES	Surface		

9. Static Water Level
60 ft. below ground surface

10. Pump Test
Pumping level 100 ft. below surface
Pumping at 15 GP M for 4 Hrs.
Pumping Method ?

11. Well Is
18 in. above grade
Developed ? Yes
Disinfected ? Yes
Capped ? Yes

12. Notified Owner of need to fill & seal ?

Filled & Sealed Well(s) as needed? No
NO WELL

13. Constructor / Supervisory Driller	Lic #	Date Signed
MH		07-07-2008
Drill Rig Operator	**Lic or Reg #**	**Date Signed**
MA		

4a. Potential Contamination Sources Is the well located in floodplain ? No

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 08-05-2008 Created by: WELL CONST LOAD Updated On: 08-05-2008 Updated by: WELL PROCESS