

GIS REGISTRY
Cover Sheet

July 2008

Source Property Information

BRRTS #:	03-41-553268	Closure Date:	November 24, 2009
ACTIVITY NAME:	Saint Gregory Apartments	FID#:	341171710
PROPERTY ADDRESS:	6412 West Lakefield Drive	DATCP#:	
MUNICIPALITY:	Milwaukee	COMM#:	53202-4161-12-A
PARCEL ID#:	529-9983-110-9		

***WTM Coordinates:**

X: Y:

**Coordinates are in WTM83, NAD83
(1991)*

WTM Coordinates Represent:

- Approximate Center of Contaminant Source
- Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- | | |
|--|--|
| <input type="checkbox"/> <u>Groundwater</u> Contamination > ES (236) | <input checked="" type="checkbox"/> <u>Soil</u> Contamination > *RCLs or **SSRCL (232) |
| <input type="checkbox"/> Groundwater Contamination in ROW | <input type="checkbox"/> Soil Contamination in ROW |
| <input type="checkbox"/> Off-Source Contamination | <input type="checkbox"/> Off-Source Contamination |

(note: for list of impacted off-source properties see attached list of "Impacted Off-Source Property")

(note: for list of impacted off-source properties see attached list of "Impacted Off-Source Property")

Land Use Controls:

- | | |
|---|---|
| <input type="checkbox"/> Soil: maintain industrial zoning (220) | <input type="checkbox"/> Cover or Barrier (222) |
| <input type="checkbox"/> Structural Impediment (224) | <input type="checkbox"/> Vapor Mitigation (226) |
| <input type="checkbox"/> Site-Specific Condition (228) | <input type="checkbox"/> Maintain Liability Exemption (230) |

(note: soil contaminant concentrations between residential and industrial levels)

(note: maintenance plan for groundwater or direct contact)

(note: local government or economic development corporation)

Monitoring wells properly abandoned? (234)

- Yes No N/A

*Residual Contaminant Level
**Site Specific Residual Contaminant Level

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 03-41-553268

PARCEL ID #: 529-9983-110-9

ACTIVITY NAME: Metropolitan Associates

WTM COORDINATES: X: 683681 Y: 281365

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Conditional Closure Letter**
- Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1 **Title: Site Location Map**
- Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 2 and 3 **Title: Overall Site Plan / Site Plan**
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 4 **Title: Soil Analytical Results and**

BRRTS #: 03-41-553268

ACTIVITY NAME: Metropolitan Associates

MAPS (continued)

Geologic Cross-Section Map: A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: Title:

Figure #: Title:

Groundwater Isoconcentration Map: For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: This is intended to show the total area of contaminated groundwater.

Figure #: 5 Title: Groundwater Analytical Results

Groundwater Flow Direction Map: A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: Title:

Figure #: Title:

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

Soil Analytical Table: A table showing remaining soil contamination with analytical results and collection dates.

Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 1 and 2 Title: Soil Analytical Results (DRO and PVOCS) Soil Analytical Results (PAHS)

Groundwater Analytical Table: Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 4 and 5 Title: Groundwater Analytical Results

Water Level Elevations: Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: Title:

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

Not Applicable

Site Location Map: A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: Title:

Well Construction Report: Form 4440-113A for the applicable monitoring wells.

Deed: The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

Notification Letter: Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-41-553268

ACTIVITY NAME: Metropolitan Associates

NOTIFICATIONS

Source Property

- Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

Number of "Off-Source" Letters:

- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TTY: Contact Through Relay
Fax: (414) 357-4700
Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

November 24, 2009

Mr. Jerry Cook
Metropolitan Associates, Inc.
1123 North Astor Street
Milwaukee, WI 53202

RE: **Final Closure**

Commerce # 53202-4161-12-A DNR BRRTS # 03-41-553268
Saint Gregory Apartments, 6412 West Lakefield Drive, Milwaukee

Dear Mr. Cook:

The Wisconsin Department of Commerce (Commerce) has received the monitoring well abandonment form for MW-1 that was required as a condition for closure of the site referenced above. This site is now listed as "closed" on the Commerce database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil contamination. To review all sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must have the soil sampled and analyzed to determine if residual contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable State and Federal regulations.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If this case is reopened, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility. It is in your best interest to keep all documentation related to environmental activities at your site.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

A handwritten signature in black ink that reads "Monica L. Weis". The signature is written in a cursive, flowing style.

Monica L. Weis
Senior Hydrogeologist
Site Review Section

cc: Mr. Steven Thuemling, Giles Engineering Associates, Inc.



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
9316 North 107th Street
Milwaukee, Wisconsin 53224-1121
TTY: Contact Through Relay
Fax: (414) 357-4700
Jim Doyle, Governor
Richard J. Leinenkugel, Secretary

November 3, 2009

Mr. Jerry Cook
Metropolitan Associates, Inc.
1123 North Astor Street
Milwaukee, WI 53202

RE: **Conditional Case Closure**

Commerce # 53202-4161-12-A DNR BRRTS # 03-41-553268
Saint Gregory Apartments, 6412 West Lakefield Drive, Milwaukee

Dear Mr. Cook:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Giles Engineering Associates, Inc., for the site referenced above. It is understood that residual soil contamination remains on site. Commerce has determined that this site does not pose a significant threat to human health and the environment. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- Groundwater monitoring well MW-1 must be properly abandoned within 60 days and the appropriate documentation forwarded to Commerce at the letterhead address within 120 days of the date of this letter. Noncompliance with the abandonment requirement and deadline can result in enforcement action and financial penalties.

Information submitted with your closure request will be included on the Department of Natural Resources (DNR) GIS Registry of Closed Remediation Sites. All sites on the Registry can be viewed via the Remediation and Redevelopment (RR) Sites Map at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. Because residual contamination remains at the time of case closure, if you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Special precautions may be needed to prevent inhalation, ingestion or dermal contact with the residual contamination when it is removed. If soil is excavated, the property owner at the time of excavation must have the soil sampled and analyzed to determine if residual contamination remains. If sampling confirms that contamination is present, the property owner at the time of excavation must determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable State regulations. Costs for sampling and excavation activities conducted after the date of this letter are not eligible for PECFA reimbursement.

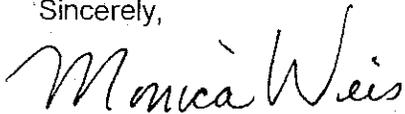
Depending on site-specific conditions, construction over contaminated materials may result in vapor migration into enclosed structures or along newly placed underground utility lines. The potential for vapor

inhalation and mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days from the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 357-4705.

Sincerely,

A handwritten signature in cursive script that reads "Monica Weis".

Monica L. Weis
Senior Hydrogeologist
Site Review Section

cc: Mr. Thomas Bauman, Giles Engineering Associates, Inc.

DOCUMENT NO.

REC 470 MAR 11 1967

QUIT CLAIM DEED
STATE OF WISCONSIN, FORM 18
THIS SPACE RESERVED FOR SUBSTITUTION DATA

4452823

REGISTER'S OFFICE
Milwaukee County, Wis.
RECORDED AT 3:26 PM

on MAR 26 1969 in
Rec'd 470 Image 1127-1188

Melan Patten
Register of Deeds

4452823 IF CHECK

This Indenture, Made this 14th day of March
A. D. 1967 between Recht-Goldin-Siegel Construction,
INC. a Corporation duly organized and existing under and by
virtue of the laws of the State of Wisconsin, located at Milwaukee
Wisconsin, party of the first part, and Metropolitan Holding
CO. a CO-partnership

part of the second part.
Witnesseth, That the said party of the first part, for and in consideration of the sum
of one dollar and other good and valuable considera-
tion to be paid by the said party of the second part, the receipt whereof is hereby confessed and
acknowledged, has given, granted, bargained, sold, aliened, released, and quit-claimed, and by
these presents does give, grant, bargain, sell, remise, release and quit-claim unto the said
party of the second part, and to its heirs and assigns forever the following described real estate, situated in the
County of Milwaukee State of Wisconsin, to-wit:

That part of the North East One-quarter (1/4) of Section Fifteen (15), in
Township Six (6) North, Range Twenty-one (21) East, and that part of the
East One-half (1/2) of Lot Eleven (11), in G. Stalloh's Subdivision of the
North One-half (1/2) of the Northwest One-quarter (1/4) of the Northeast
One-quarter (1/4) of Section Fifteen (15), in Township Six (6) North,
Range Twenty-one (21) East, in the City of Milwaukee, which is bounded and
described as follows: Commencing at the Northeast corner of said 1/4
Section; thence West along the North line of said 1/4 Section 767.92 feet
to a point; thence South and parallel to the East line of said 1/4 Section
210.00 feet to the point of beginning of the land herein to be described;
thence West and parallel to the North line of said 1/4 Section 150.18 feet
to a point; thence South and parallel to the East line of said 1/4 Section
10.00 feet to a point; thence West and parallel to the North line of said
1/4 Section 195.20 feet to a point; thence North and parallel to the East
line of said 1/4 Section 10.00 feet to a point; thence West and parallel
to the North line of said 1/4 Section 280.00 feet to a point; thence South
307.60 feet to a point; thence East 63.09 feet to a point; thence North
18.00 feet to a point which is 499.70 feet South of the North line of
said 1/4 Section; thence East 563.18 feet to a point; thence North and
parallel to the East line of said 1/4 Section 291.02 feet to the point of
beginning, excepting that part of Lot Eleven (11), in G. Stalloh's
Subdivision, a recorded subdivision in the Northeast One-quarter (1/4) of
Section Fifteen (15), in Township Six (6) North, Range Twenty-one (21)
East, and lands in said One-quarter (1/4) Section more particularly des-
cribed as follows: (Over)

(IF NECESSARY, CONTINUE DESCRIPTION ON REVERSE SIDE)

To Have and to Hold the same, together with all and singular the appurtenances and privileges thereto belonging or in any way
thereunto appertaining, and all the estate, right, title, interest and claim whatsoever of the said party of the first part, either in law or equity,
either in possession or expectancy of, to the only proper use, benefit and behoof of the said party of the second part, its
heirs and assigns FOREVER.

In Witness Whereof, the said Recht-Goldin-Siegel Construction, Inc.
party of the first part, has caused these presents to be signed by Jack Recht
its President, and countersigned by Melvin Goldin
at Milwaukee Wisconsin, and its corporate seal to be hereunto affixed, this
14th day of March A. D. 1967.

SIGNED AND SEALED IN PRESENCE OF

Recht-Goldin-Siegel Construction, Inc.

Eileen Waller
Eileen Waller
Lucille Rake

Jack Recht
Melvin Goldin
Melvin Goldin

STATE OF WISCONSIN
Milwaukee County

Personally came before me this 14th day of March A. D. 1967
Jack Recht President, and Melvin Goldin Secretary

of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such
President and Secretary of said Corporation, and they declared that they executed the foregoing instrument as such officers of the said
said Corporation, by its authority.

THIS INSTRUMENT WAS DRAFTED BY

Melvin Goldin

Eileen Waller
Eileen Waller
Milwaukee County Wis.
Commissioner (expired) (M) June 9, 1968



470-1158

Map of the State of Michigan
and North of the
Lakes, 1890

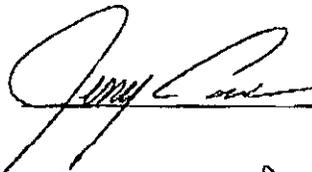
CHAS. G. CLARK
Surveyor
General

Commencing in the Northwest corner of Lot 23 of Section 16, Township 36 North, Range 18 West, 1st Meridian, Michigan, a recorded subdivision in said 1/4 Section, Section 16, Township 36 North, Range 18 West, 1st Meridian, Michigan, 175 feet along the extension of the West line of Lot 23, Township 36 North, Range 18 West, 1st Meridian, Michigan, to a point in a line bearing North 89° 15' 00" West, a distance of 175 feet, and thence North 89° 15' 00" West, a distance of 175 feet, to the point of commencement.

This is a deed of conveyance. No revenue stamp necessary.

Metropolitan Associates, as the party responsible for the impacts originating at 6412 West Lakefield Drive, in the City of Milwaukee, Milwaukee County, Wisconsin (BRRS No. 03-41-553268), believes that the current legal description has been attached for the property that is within the contaminated site boundary. That legal description is of 6412 West Lakefield Drive, and is part of the legal deed included in this packet.

By:

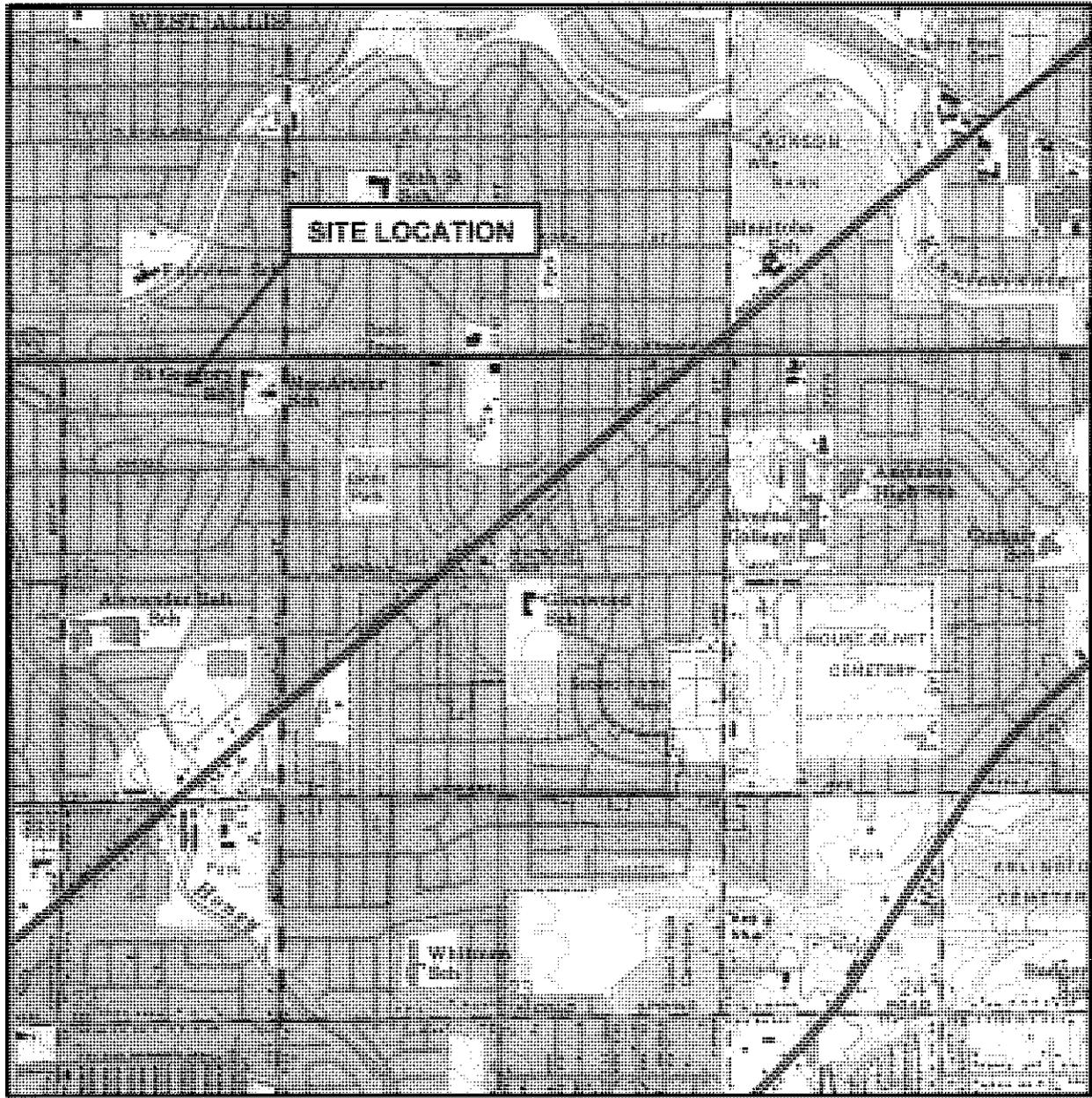


Title:

SENIOR VICE PRESIDENT

Date:

10-23-09



Source: USGS *Greendale, Wisconsin* 7.5-Minute Series (topographic) Quadrangle Map (1958; photorevised in 1971 and 1976)

Scale: 1:24,000
 Contour Interval: 10 Feet

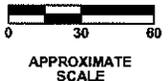
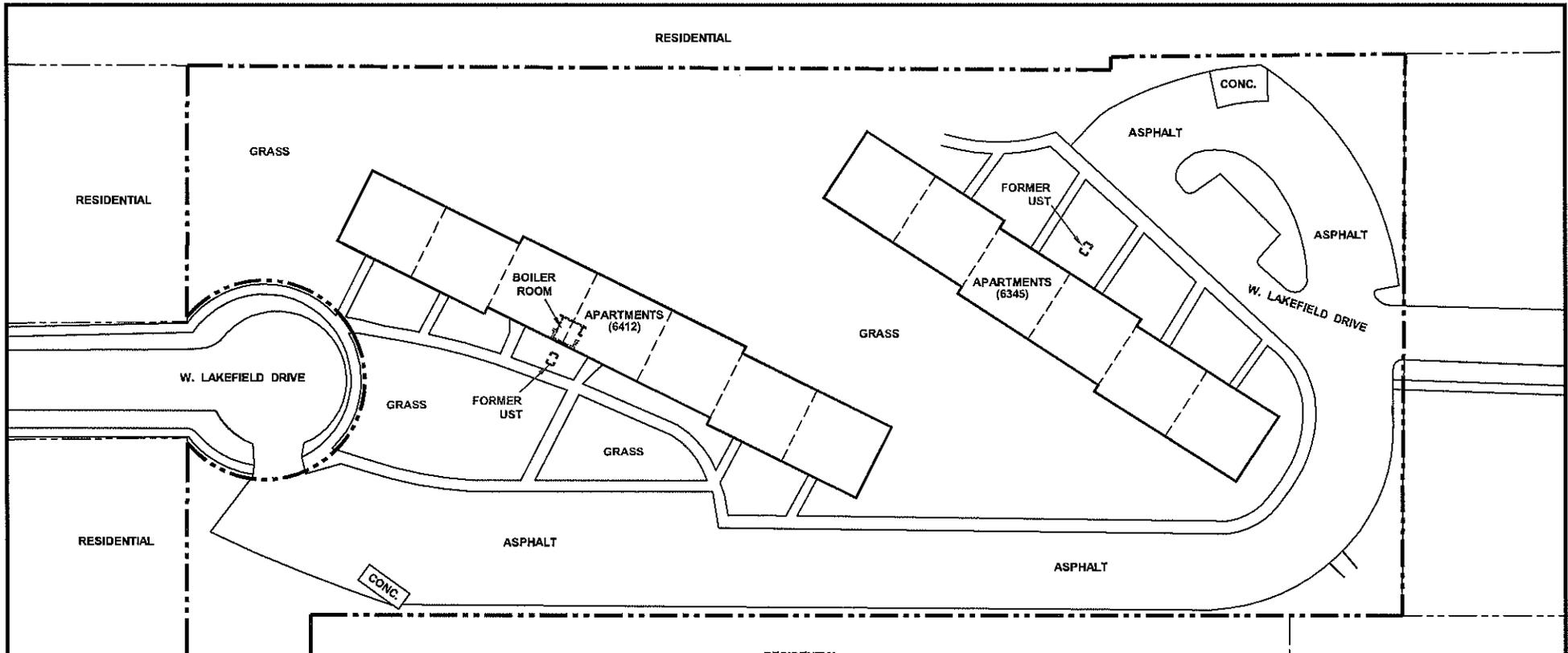
FIGURE 1
SITE LOCATION MAP



St. Gregory's Apartments
6412 West Lakefield Drive
Milwaukee, Wisconsin
Project No. 1E-0902009



GILES
 ENGINEERING ASSOCIATES, INC.

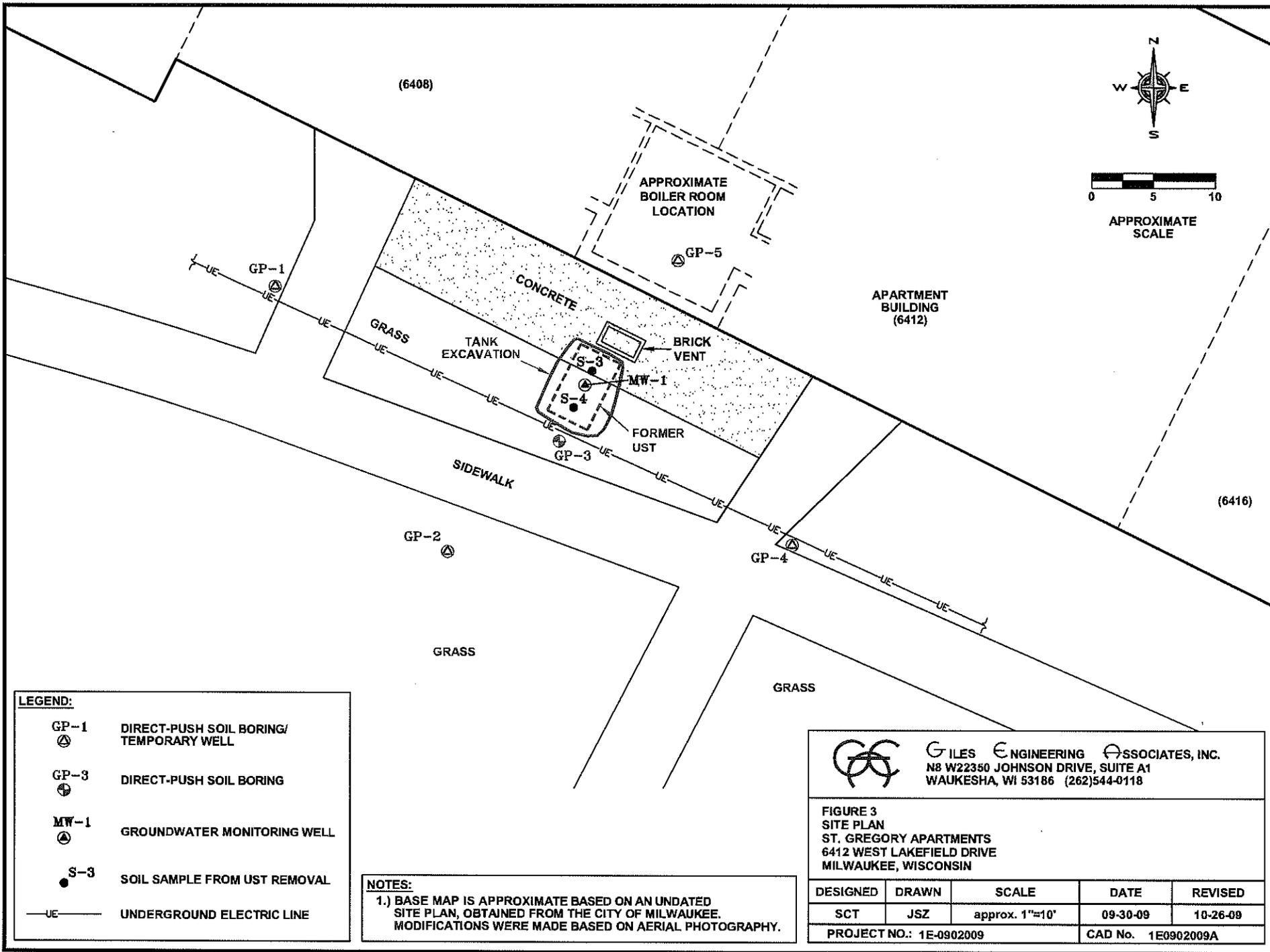


NOTES:
 1.) BASE MAP IS APPROXIMATE BASED ON AN UNDATED SITE PLAN, OBTAINED FROM THE CITY OF MILWAUKEE. MODIFICATIONS WERE MADE BASED ON AERIAL PHOTOGRAPHY.

GA GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 2
 OVERALL SITE PLAN
 ST. GREGORY APARTMENTS
 8412 WEST LAKEFIELD DRIVE
 MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	approx. 1"=60'	10-26-09	--
PROJECT NO.: 1E-0902009			CAD No. 1E0902009D	

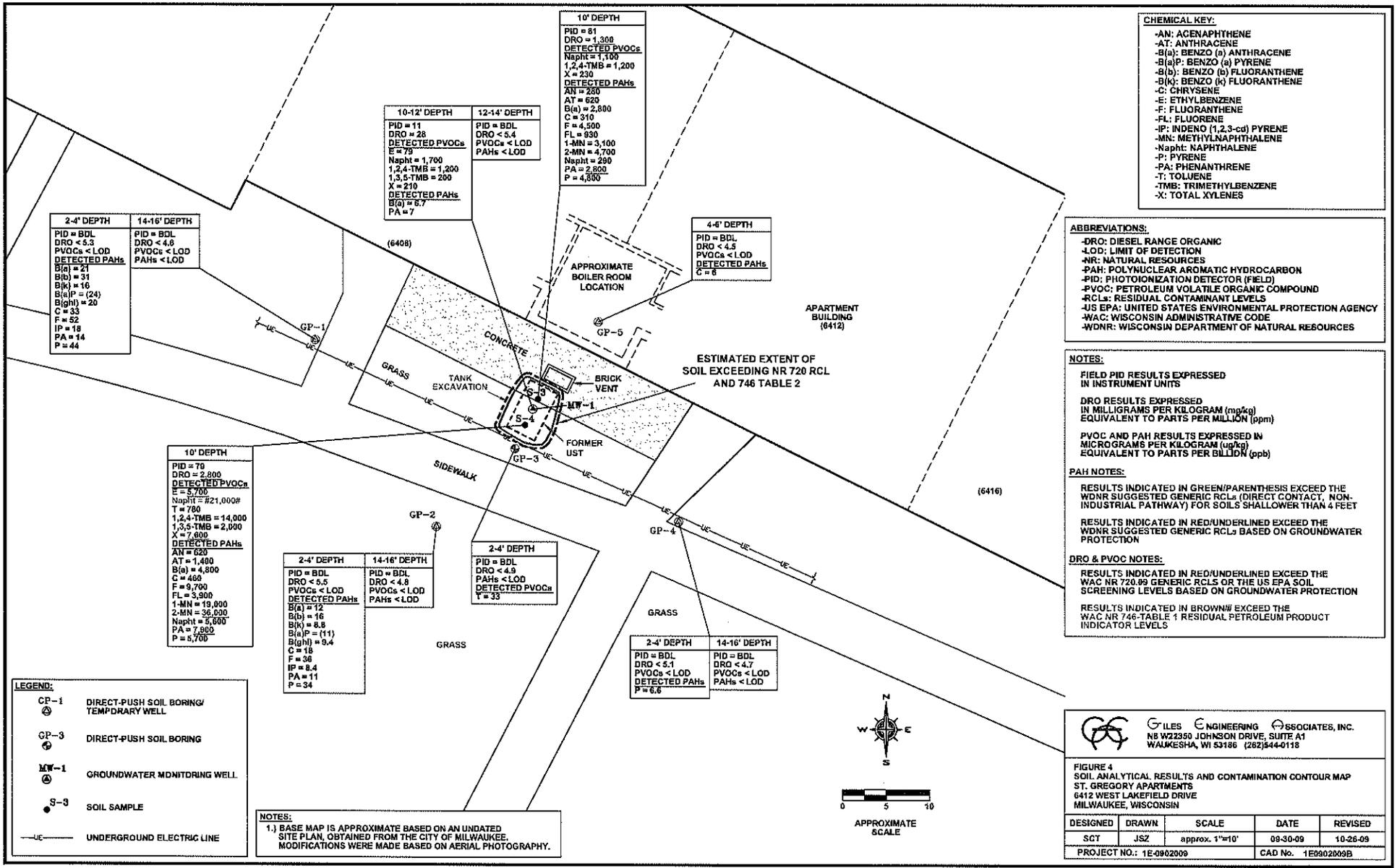


LEGEND:

GP-1	DIRECT-PUSH SOIL BORING/ TEMPORARY WELL
GP-3	DIRECT-PUSH SOIL BORING
MW-1	GROUNDWATER MONITORING WELL
S-3	SOIL SAMPLE FROM UST REMOVAL
—UE—	UNDERGROUND ELECTRIC LINE

NOTES:
 1.) BASE MAP IS APPROXIMATE BASED ON AN UNDATED SITE PLAN, OBTAINED FROM THE CITY OF MILWAUKEE. MODIFICATIONS WERE MADE BASED ON AERIAL PHOTOGRAPHY.

 GILES ENGINEERING ASSOCIATES, INC. N8 W22350 JOHNSON DRIVE, SUITE A1 WAUKESHA, WI 53186 (262)544-0118				
FIGURE 3 SITE PLAN ST. GREGORY APARTMENTS 6412 WEST LAKEFIELD DRIVE MILWAUKEE, WISCONSIN				
DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	approx. 1"=10'	09-30-09	10-26-09
PROJECT NO.: 1E-0902009			CAD No. 1E0902009A	



CHEMICAL KEY:

- AN: ACENAPHTHENE
- AT: ANTHRACENE
- B(a): BENZO (a) ANTHRACENE
- B(a)P: BENZO (a) PYRENE
- B(b): BENZO (b) FLUORANTHENE
- B(k): BENZO (k) FLUORANTHENE
- C: CHRYSENE
- E: ETHYLBENZENE
- F: FLUORANTHENE
- FL: FLUORENE
- I(P): INDERNO (1,2,3-cd) PYRENE
- MN: METHYLNAPHTHALENE
- Naph: NAPHTHALENE
- P: PYRENE
- PA: PHENANTHRENE
- T: TOLUENE
- TMB: TRIMETHYLBENZENE
- X: TOTAL XYLENES

ABBREVIATIONS:

- DRO: DIESEL RANGE ORGANIC
- LOD: LIMIT OF DETECTION
- NR: NATURAL RESOURCES
- PAH: POLYNUCLEAR AROMATIC HYDROCARBON
- PID: PHOTOCHEMIZATION DETECTOR (FIELD)
- PVOC: PETROLEUM VOLATILE ORGANIC COMPOUND
- RCL: RESIDUAL CONTAMINANT LEVELS
- US EPA: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
- WAC: WISCONSIN ADMINISTRATIVE CODE
- WDNR: WISCONSIN DEPARTMENT OF NATURAL RESOURCES

NOTES:

FIELD PID RESULTS EXPRESSED IN INSTRUMENT UNITS

DRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg) EQUIVALENT TO PARTS PER MILLION (ppm)

PVOC AND PAH RESULTS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg) EQUIVALENT TO PARTS PER BILLION (ppb)

PAH NOTES:

RESULTS INDICATED IN GREEN/PARENTHESIS EXCEED THE WDNR SUGGESTED GENERIC RCLs (DIRECT CONTACT, NON-INDUSTRIAL PATHWAY) FOR SOILS SHALLOWER THAN 4 FEET

RESULTS INDICATED IN RED/UNDERLINED EXCEED THE WDNR SUGGESTED GENERIC RCLs BASED ON GROUNDWATER PROTECTION

DRO & PVOC NOTES:

RESULTS INDICATED IN RED/UNDERLINED EXCEED THE WAC NR 720.09 GENERIC RCLs OR THE US EPA SOIL SCREENING LEVELS BASED ON GROUNDWATER PROTECTION

RESULTS INDICATED IN BROWN// EXCEED THE WAC NR 746-TABLE 1 RESIDUAL PETROLEUM PRODUCT INDICATOR LEVELS

LEGEND:

- CP-1 DIRECT-PUSH SOIL BORING/ TEMPORARY WELL
- GP-3 DIRECT-PUSH SOIL BORING
- MW-1 GROUNDWATER MONITORING WELL
- S-3 SOIL SAMPLE
- UC— UNDERGROUND ELECTRIC LINE

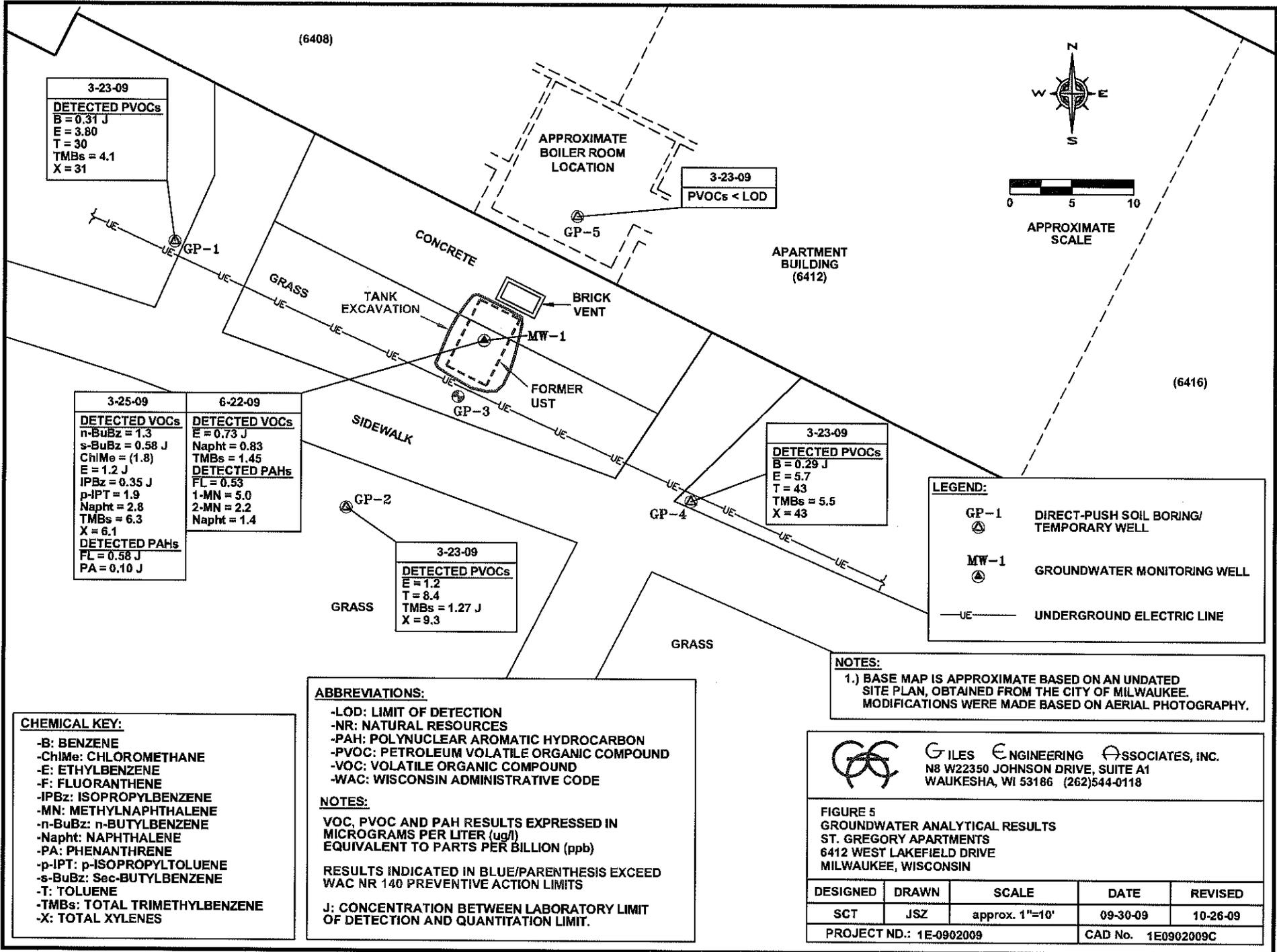
NOTES:

1.) BASE MAP IS APPROXIMATE BASED ON AN UNDATED SITE PLAN, OBTAINED FROM THE CITY OF MILWAUKEE. MODIFICATIONS WERE MADE BASED ON AERIAL PHOTOGRAPHY.

GILES ENGINEERING ASSOCIATES, INC.
 NB W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 4
 SOIL ANALYTICAL RESULTS AND CONTAMINATION CONTOUR MAP
 ST. GREGORY APARTMENTS
 6412 WEST LAKEFIELD DRIVE
 MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SGT	JSZ	approx. 1"=10'	09-30-09	10-26-09
PROJECT NO.: 1E-0902099			CAD No. 1E0902099E	



3-23-09
DETECTED PVOCs
 B = 0.31 J
 E = 3.80
 T = 30
 TMBs = 4.1
 X = 31

3-23-09
 PVOCs < LOD

3-25-09
DETECTED VOCs
 n-BuBz = 1.3
 s-BuBz = 0.58 J
 ChiMe = (1.8)
 E = 1.2 J
 IPBz = 0.35 J
 p-IPT = 1.9
 Napht = 2.8
 TMBs = 6.3
 X = 6.1
DETECTED PAHs
 FL = 0.58 J
 PA = 0.10 J

6-22-09
DETECTED VOCs
 E = 0.73 J
 Napht = 0.83
 TMBs = 1.45
DETECTED PAHs
 FL = 0.53
 1-MN = 5.0
 2-MN = 2.2
 Napht = 1.4

3-23-09
DETECTED PVOCs
 E = 1.2
 T = 8.4
 TMBs = 1.27 J
 X = 9.3

3-23-09
DETECTED PVOCs
 B = 0.29 J
 E = 5.7
 T = 43
 TMBs = 5.5
 X = 43

LEGEND:

- GP-1 DIRECT-PUSH SOIL BORING/ TEMPORARY WELL
- MW-1 GROUNDWATER MONITORING WELL
- UE— UNDERGROUND ELECTRIC LINE

NOTES:
 1.) BASE MAP IS APPROXIMATE BASED ON AN UNDATED SITE PLAN, OBTAINED FROM THE CITY OF MILWAUKEE. MODIFICATIONS WERE MADE BASED ON AERIAL PHOTOGRAPHY.

CHEMICAL KEY:

- B: BENZENE
- ChiMe: CHLOROMETHANE
- E: ETHYLBENZENE
- F: FLUORANTHENE
- IPBz: ISOPROPYLBENZENE
- MN: METHYLNAPHTHALENE
- n-BuBz: n-BUTYLBENZENE
- Napht: NAPHTHALENE
- PA: PHENANTHRENE
- p-IPT: p-ISOPROPYLTOLUENE
- s-BuBz: Sec-BUTYLBENZENE
- T: TOLUENE
- TMBs: TOTAL TRIMETHYLBENZENE
- X: TOTAL XYLENES

ABBREVIATIONS:

- LOD: LIMIT OF DETECTION
- NR: NATURAL RESOURCES
- PAH: POLYNUCLEAR AROMATIC HYDROCARBON
- PVOC: PETROLEUM VOLATILE ORGANIC COMPOUND
- VOC: VOLATILE ORGANIC COMPOUND
- WAC: WISCONSIN ADMINISTRATIVE CODE

NOTES:

VOC, PVOC AND PAH RESULTS EXPRESSED IN MICROGRAMS PER LITER (ug/l) EQUIVALENT TO PARTS PER BILLION (ppb)

RESULTS INDICATED IN BLUE/PARENTHESIS EXCEED WAC NR 140 PREVENTIVE ACTION LIMITS

J: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

GILES ENGINEERING ASSOCIATES, INC.
 N8 W22350 JOHNSON DRIVE, SUITE A1
 WAUKESHA, WI 53186 (262)544-0118

FIGURE 5
 GROUNDWATER ANALYTICAL RESULTS
 ST. GREGORY APARTMENTS
 6412 WEST LAKEFIELD DRIVE
 MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	SCALE	DATE	REVISED
SCT	JSZ	approx. 1"=10'	09-30-09	10-26-09
PROJECT ND.: 1E-0902009			CAD No. 1E0902009C	

**TABLE 1
SOIL ANALYTICAL RESULTS
(DRO and PVOCs)**

St. Gregory Apartments
6412 West Lakefield Drive
Milwaukee, Wisconsin
Project No. 1E-0902009

Analyte	Sample Location										WAC NR 720.09 RCLs	NR 746.06 Table 1 (Product Indicator)	NR 746.06 Table 2 (Direct Contact)
	MW-1		GP-1		GP-2		GP-3	GP-4		GP-5			
Sample Depth (feet)	10-12	12-14	2-4	14-16	2-4	14-16	2-4	2-4	14-16	4-6			
Sample Date	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09			
PID (Instrument Units)	11	BDL											
DRO (mg/kg)	28	<5.4	<5.3	<4.6	<5.5	<4.8	<4.9	<5.1	<4.7	<4.5	250	NS	NS
Detected PVOCs (ug/kg)													
Ethylbenzene	79	<29	<30	<29	<30	<29	<29	<29	<28	<28	2,900	4,600	NS
Naphthalene	1,700	<58	<61	<57	<59	<59	<58	<59	<56	<56	NS	2,700	NS
Toluene	<29	<29	<30	<29	<30	<29	33	<29	<28	<28	1,500	38,000	NS
1,2,4-Trimethylbenzene	1,200	<29	<30	<29	<30	<29	<29	<29	<28	<28	NS	83,000	NS
1,3,5-Trimethylbenzene	200	<29	<30	<29	<30	<29	<29	<29	<28	<28	NS	11,000	NS
Xylenes	210	<87	<91	<86	<89	<88	<87	<88	<84	<84	4,100	42,000	NS

NOTES:

PID: Photoionization Detector

BDL: Below Detection Limit

DRO: Diesel Range Organics

PVOCs: Petroleum Volatile Organic Compounds

mg/kg: Milligrams per kilogram; equivalent to parts per million (ppm)

ug/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)

WAC: Wisconsin Administrative Code

NR: Natural Resources Chapter

RCLs: Residual Contaminant Levels

NS: No Established Standard

**TABLE 2
SOIL ANALYTICAL RESULTS (PAHs)**

St. Gregory Apartments
6412 West Lakefield Drive
Milwaukee, Wisconsin
Project No. 1E-0902009

Analyte	Sample Location										Suggested Generic RCLs	
	MW-1		GP-1		GP-2		GP-3	GP-4		GP-5	Groundwater Pathway	Direct Contact, Non-Industrial Pathway (0 to 4 feet)
Sample Depth (feet)	10-12	12-14	2-4	14-16	2-4	14-16	2-4	2-4	14-16	4-6		
Sample Date	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09	3/19/09		
PID (Instrument Units)	11	BDL										
PAHs (ug/kg)												
Acenaphthene	<58	<58	<61	<57	<59	<59	<58	<59	<56	<56	38,000	900,000
Acenaphthylene	<99	<98	<100	<98	<100	<100	<99	<100	<95	<95	700	18,000
Anthracene	<5.8	<5.8	<6.1	<5.7	<5.9	<5.9	<5.8	<5.9	<5.6	<5.6	3,000,000	5,000,000
Benzo (a) anthracene	6.7	<5.8	21	<5.7	12	<5.9	<5.8	<5.9	<5.6	<5.6	17,000	88
Benzo (b) fluoranthene	<5.8	<5.8	31	<5.7	16	<5.9	<5.8	<5.9	<5.6	<5.6	360,000	88
Benzo (k) fluoranthene	<5.8	<5.8	16	<5.7	8.8	<5.9	<5.8	<5.9	<5.6	<5.6	870,000	880
Benzo (a) pyrene	<5.8	<5.8	(24)	<5.7	(11)	<5.9	<5.8	<5.9	<5.6	<5.6	48,000	8.8
Benzo (g,h,i) perylene	<5.8	<5.8	20	<5.7	9.4	<5.9	<5.8	<5.9	<5.6	<5.6	6,800,000	1,800
Chrysene	<5.8	<5.8	33	<5.7	18	<5.9	<5.8	<5.9	<5.6	6	37,000	8,800
Dibenz (a,h) anthracene	<8.8	<8.7	<9.1	<8.6	<8.9	<8.8	<8.7	<8.8	<8.4	<8.4	38,000	8.8
Fluoranthene	<12	<12	52	<11	36	<12	<12	<12	<11	<11	500,000	600,000
Fluorene	<12	<12	<12	<11	<12	<12	<12	<12	<11	<11	100,000	600,000
Indeno (1,2,3-cd) pyrene	<5.8	<5.8	18	<5.7	8.4	<5.9	<5.8	<5.9	<5.6	<5.6	680,000	88
1-Methylnaphthalene	<35	<35	<36	<34	<36	<35	<35	<35	<33	<34	23,000	1,100,000
2-Methylnaphthalene	<29	<29	<30	<29	<30	<29	<29	<29	<28	<28	20,000	600,000
Naphthalene	<35	<35	<36	<34	<36	<35	<35	<35	<33	<34	400	20,000
Phenanthrene	7	<5.8	14	<5.7	11	<5.9	<5.8	<5.9	<5.6	<5.6	1,800	18,000
Pyrene	<5.8	<5.8	44	<5.7	34	<5.9	<5.8	6.6	<5.6	<5.6	8,700,000	500,000

NOTES:

PID: Photoionization Detector

PAHs: Polynuclear Aromatic Hydrocarbons

ug/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)

Results indicated in green/parenthesis exceed the WDNR suggested generic RCLs (Direct Contact, Non Industrial Pathway) for soil shallower than 4 feet

WDNR: Wisconsin Department of Natural Resources

BDL: Below Detection Limit

RCLs: Residual Contaminant Levels

**Table 4
Groundwater Analytical Results (Detected VOCs)**

St. Gregory Apartments
6412 West Lakefield Drive
Milwaukee, Wisconsin
Project No. 1E-0902009

SAMPLE LOCATION	DATE	Detected Volatile Organic Compounds (VOCs) (ug/L)								
		n-BuBz	s-BuBz	ChlMe	E	IPBz	p-IPT	Napht	TMBs	X
MW-1	3/25/2009	1.3	0.58j	(1.8)	1.2j	0.35j	1.9	2.8	6.3	6.1
	6/22/2009	<0.20	<0.25	<0.30	0.73j	<0.20	<0.20	0.83	1.45	<0.50
NR 140 PAL		NS	NS	0.3	140	NS	NS	10	96	1,000
NR 140 ES		NS	NS	3	700	NS	NS	100	480	10,000

NOTES:

NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)

NS: No Established Standard

ug/L: Micrograms per liter; equivalent to parts per billion (ppb)

j: Concentration measured between the laboratory detection limit and the quantitation limit

PAL: NR 140 Preventive Action Limit

ES: NR 140 Enforcement Standard

Results indicated in blue/parenthesis exceed the WAC NR 140 PAL

n-BuBz: n-Butylbenzene

s-BuBz: sec-Butylbenzene

ChlMe: Chloromethane

E: Ethylbenzene

IPBz: Isopropylbenzene

p-IPT: p-Isopropyltoluene

Napht: Naphthalene

TMBs: 1,2,4 and 1,3,5-Trimethylbenzene

X: Total Xylenes

**Table 5
Groundwater Analytical Results (Detected PAHs)**

**St. Gregory Apartments
6412 West Lakefield Drive
Milwaukee, Wisconsin
Project No. 1E-0902009**

SAMPLE LOCATION	DATE	Detected Polynuclear Aromatic Hydrocarbons (PAHs) (ug/L)				
		Fluorene	1-MN	2-MN	Naphthalene	PA
MW-1	3/25/2009	0.58j	<0.33	<0.32	<0.41	0.10j
	6/22/2009	0.53	5.0	2.2	1.4	<0.033
NR 140 PAL		80	NS	NS	10	NS
NR 140 ES		400	NS	NS	100	NS

NOTES:

NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)

NS: No Established Standard

ug/L: Micrograms per liter; equivalent to parts per billion (ppb)

j: Concentration measured between the laboratory detection limit and the quantitation limit

PAL: NR 140 Preventive Action Limit

ES: NR 140 Enforcement Standard

MN: Methylnaphthalene

PA: Phenanthrene