State of Wisconsin
Department of Natural Resources
P.O. Box 7921, Madison, WI 53707-7921

GIS REGISTRY (Cover Sheet)
Form 4400-280 (R 6/13)

Source Property Information

CLOSURE DATE: 10/08/2013

BRRTS #: **02-52-552978**

FID #: 252006370

ACTIVITY NAME: SC J INC FMR WAXDALE LANDFILL (NONE OP AREA)

DATCP #:

PROPERTY ADDRESS: 2512 Willow Rd

PECFA#:

MUNICIPALITY: Mt Pleasant

PARCEL ID #: 151032222033000

***WTM COORDINATES:**

X: **692957** Y: **250098**

** 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)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

☒ Groundwater Contamination > ES *(236)*

- ☐ Contamination in ROW
- ☐ Off-Source Contamination

*(**note:** for list of off-source properties see "Impacted Off-Source Property Information, Form 4400-246")*

☒ Soil Contamination > *RCL or **SSRCL *(232)*

- ☐ Contamination in ROW
- ☐ Off-Source Contamination

*(**note:** for list of off-source properties see "Impacted Off-Source Property Information, Form 4400-246")*

Site Specific Obligations:

☒ Soil: maintain industrial zoning *(220)*

*(**note:** soil contamination concentrations between non-industrial and industrial levels)*

☐ Structural Impediment *(224)*

☐ Site Specific Condition *(228)*

☒ Cover or Barrier *(222)*

- ☒ Direct Contact
- ☒ Soil to GW Pathway

☐ Vapor Mitigation *(226)*

☐ Maintain Liability Exemption *(230)*

*(**note:** local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

MW Transfer:
MW3SR, MW4DR, MW5S

Are all monitoring wells properly abandoned per NR 141? *(234)*

(●) Yes ( ) No ( ) N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

PLEASE ASSEMBLE IN THIS ORDER

GIS Registry Checklist

Form 4400-245 (R 8/11)

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 #: 02-52-552978 *(No Dashes)* PARCEL ID #: 15103222203300

ACTIVITY NAME: SC J INC FMR WAXDALE LANDFILL (NONE OP AREA) WTM COORDINATES: X: 692957 Y: 250098

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

- [x] **Closure Letter**
- [x] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [ ] **Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- [x] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- [x] **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:**
- [x] **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 11 x 17 inches unless the map is submitted electronically.

- [x] **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 #: 1-1 **Title: Waxdale Facility Site Location Map**
- [x] **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 #: 1-2 **Title: Waxdale Facility Site Layout**
- [x] **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 #: 2 **Title: Former Waxdale Landfill Area Limit of RCL Exceedances**

BRRTS #: 02-52-552978 ACTIVITY NAME: SC J INC FMR WAXDALE LANDFILL (NONE OP AREA)

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 #: 2-2 **Title: Former Waxdale Landfill Area Lithologic Cross Section A-A'**

Figure #: 2-3 **Title: Former Waxdale Landfill Area Lithologic Cross Section B-B'**

☒ **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 #: 2-4 **Title: PAL and ES Exceedance In Groundwater**

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

Figure #: 2-4 **Title: Water Table Contour Map September 2010 (Shallow Wells)**

Figure #: 2-4 **Title: Water Table Contour Map September 2011 (Shallow Wells)**

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

Tables must be no larger than 11 x 17 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, 2 **Title: Analytical Detections in Excavation Wall Samples, Floor Samples (Saturated Media)**

☒ **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 #: 3 **Title: FWLF 2010-11 Detected VOCs, SVOC, Metals & Pesticides in Shallow & Deep Wells**

☒ **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 #: 4 **Title: Summary of Groundwater Elevation Data**

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 #: 02-52-552978 ACTIVITY NAME: SC J INC FMR WAXDALE LANDFILL (NONE OP AREA)

NOTIFICATIONS

Source Property

☒ **Not Applicable**

☐ **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.

☒ **Not Applicable**

☐ **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.*

☐ **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:**

☐ **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:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 8, 2013

Ms. Noelle Brigham
S.C. Johnson & Son, Inc.
1525 Howe Street MS 221
Racine, WI 53403-2236

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

Subject: Final Case Closure with Continuing Obligations
S.C. Johnson & Son, Inc., Former Waxdale Landfill,
8311 16th Street. Sturtevant, WI
BRRTS# 02-52-552978; FID# 252006370

Dear Ms. Brigham:

The Department of Natural Resources (DNR) considers Former Waxdale Landfill site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attached maintenance plan to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wisconsin Administrative Code. The Southeast Region DNR reviewed the request for closure on June 6, 2013. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on June 7, 2013, and documentation that the conditions in that letter were met was received on September 10, 2013.

The site is an approximate 1/2 –acre parcel located at the southwest corner of the S.C. Johnson & Son, Inc. Waxdale facility. The site was used for disposal and burning of facility waste which resulted in volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), pesticide and metals contaminating soil and groundwater. The U.S. Environmental Protection Agency (USEPA) and State of Wisconsin DNR enforcement actions resulted in corrective action, remediation and long-term monitoring. The site has been cleaned up to regulatory standards for soil and groundwater. The conditions of closure and continuing obligations required were based on the property being used for industrial purposes or remaining vacant.

In addition, monitoring wells MW3SR, MW4DR and MW5S are being transferred for continued monitoring as part of the S.C. Johnson & Son, Inc. 2512 Willow Road – Facility Wide (non-operating area) site, BRRTS# 02-52-038750. Do NOT fill and seal these wells at this time. Well filling and sealing will be required of the S.C. Johnson & Son, Inc. 2512 Willow Road – Facility Wide (non-operating area) site, upon conclusion of the cleanup of that site. These wells are identified on the attached **Figure 2-1 Former Waxdale Landfill Area map**.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- One or more monitoring wells were approved to be kept for further monitoring on an adjacent site with the same owner. Annual inspections are required and the wells must be properly filled and sealed when monitoring has been completed.
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the DNR must approve any changes to this barrier.
- Before the land use may be changed from industrial to non-industrial, additional environmental work must be completed.
- Exemptions for public health and welfare concerns.

The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry, to provide notice of residual contamination and of any continuing obligations. DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://dnr.wi.gov/topic/wells/documents/3300254.pdf or at the web address listed below for the GIS Registry.

All site information is also on file at the Southeast Region WDNR office, at 2300 North Martin Luther King, Jr. Drive in Milwaukee, Wisconsin. This letter and information that was submitted with your closure request application, including the maintenance plan, will be included on the GIS Registry in a PDF attachment. To review the site on the GIS Registry web page, visit the RR Sites Map page at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where the soil and vegetative cover is required, as shown on the attached **Exhibit A Limit of Residual Soil Impacts and Area Subject to Barrier Maintenance Plan Former Waxdale Landfill Area map**. In this case, DNR has provided prior written approval for some maintenance activities, as outlined in the Barrier Maintenance Plan. Otherwise, the prohibited activities are:

- removal of the existing barrier;
- replacement with another barrier;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings;

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you, and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plans are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to Environmental Program Assistant, Southeast Region DNR, 2300 North Martin Luther King, Jr. Drive, Milwaukee, Wisconsin.

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached **Figure 2-4 Former Waxdale Landfill Area PAL and ES Exceedance in Groundwater Map**. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains at various locations across the site, as indicated on **the attached Former Waxdale Landfill Area Summary of Post-Excavation VOC Concentrations Wall - Samples map**. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and right-of-way holders need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of 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.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats.)
The soil and vegetative cover that exists in the specific location shown on the attached **Exhibit A Limit of Residual Soil Impacts and Area Subject to Barrier Maintenance Plan Former Waxdale Landfill Area map** shall be maintained in compliance with the attached **Barrier Maintenance Plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. Before using the property for such purposes, you must notify the DNR to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation.

The attached **Barrier Maintenance Plan and Example Barrier Inspection Log** are to be kept up-to-date and on-site. Submit the inspection log to the DNR only upon request.

Industrial Soil Standards (s. NR 726.05 (8) (b) 1., Wis. Adm. Code)
Soil contamination remains at wall samples W-5A and W-6A, as shown on the attached **Figure 2 Former Waxdale Landfill Area Limit of RCL Exceedances map.** Samples contained arsenic in concentrations which exceeded non-industrial (residential) soil standards.

This property may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless prior written approval has been obtained from the DNR. An investigation and remedial action to meet applicable soil cleanup standards may be required at that time.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

Chapter NR 140, Wis. Adm. Code Exemption

Recent groundwater monitoring data at this site indicates that for Health substance barium at MW35S and vanadium at MW36S and MW35S, contaminant levels exceed the NR 140 preventive action limit (PAL) but are below the enforcement standard (ES). The DNR may grant an exemption to a PAL for a substance of public health concern, other than nitrate, pursuant to s. NR 140.28 (2) (b), Wis. Adm. Code, if all of the following criteria are met:

1. The measured or anticipated increase in the concentration of the substance will be minimized to the extent technically and economically feasible.
2. Compliance with the PAL is either not technically or economically feasible.
3. The enforcement standard for the substance will not be attained or exceeded at the point of standards application. [Note: at this site the point of standards application is all points where groundwater is monitored.]
4. Any existing or projected increase in the concentration of the substance above the background concentration does not present a threat to public health or welfare.

Based on the information you provided, the DNR believes that the criteria for an exemption have been or will be met because the bulk of the waste material was previously removed and properly disposed. Therefore, pursuant to s. NR 140.28, Wis. Adm. Code, exemptions to the preventive action limit are granted for barium at MW35S, vanadium at MW36S and MW35S and for iron at MW4DR. Please keep this letter, because it serves as your exemption.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Jim Kasdorf 414-263-8366 or Eric Amadi at 414-263-8639.

Sincerely,

Pamela A. Mylotta, Team Supervisor
Southeast Remediation & Redevelopment Program

Attachments:

- June 7, 2013, WDNR Conditional Closure Letter
- Figure 2-1 Former Waxdale Landfill Area Map
- RR-819
- Exhibit A Limit of Residual Soil Impacts and Area Subject to Barrier Maintenance Plan Former Waxdale Landfill Area Map
- Figure 2-4 Former Waxdale Landfill Area PAL and ES Exceedance in Groundwater Map
- Former Waxdale Landfill Area Summary of Post-Excavation VOC Concentrations Wall - Samples Map
- Barrier Maintenance Plan and Example Barrier Inspection Log
- Figure 2 Former Waxdale Landfill Area Limit of RCL Exceedances Map
-

Cc: Paul J. Sklar, PG, URS Corporation, 342 N. Water Street, 7th Floor, Milwaukee, WI 53202
Bill Phelps, DG/5, William.Phelps@Wisconsin.gov, 608-267-7619
SER File

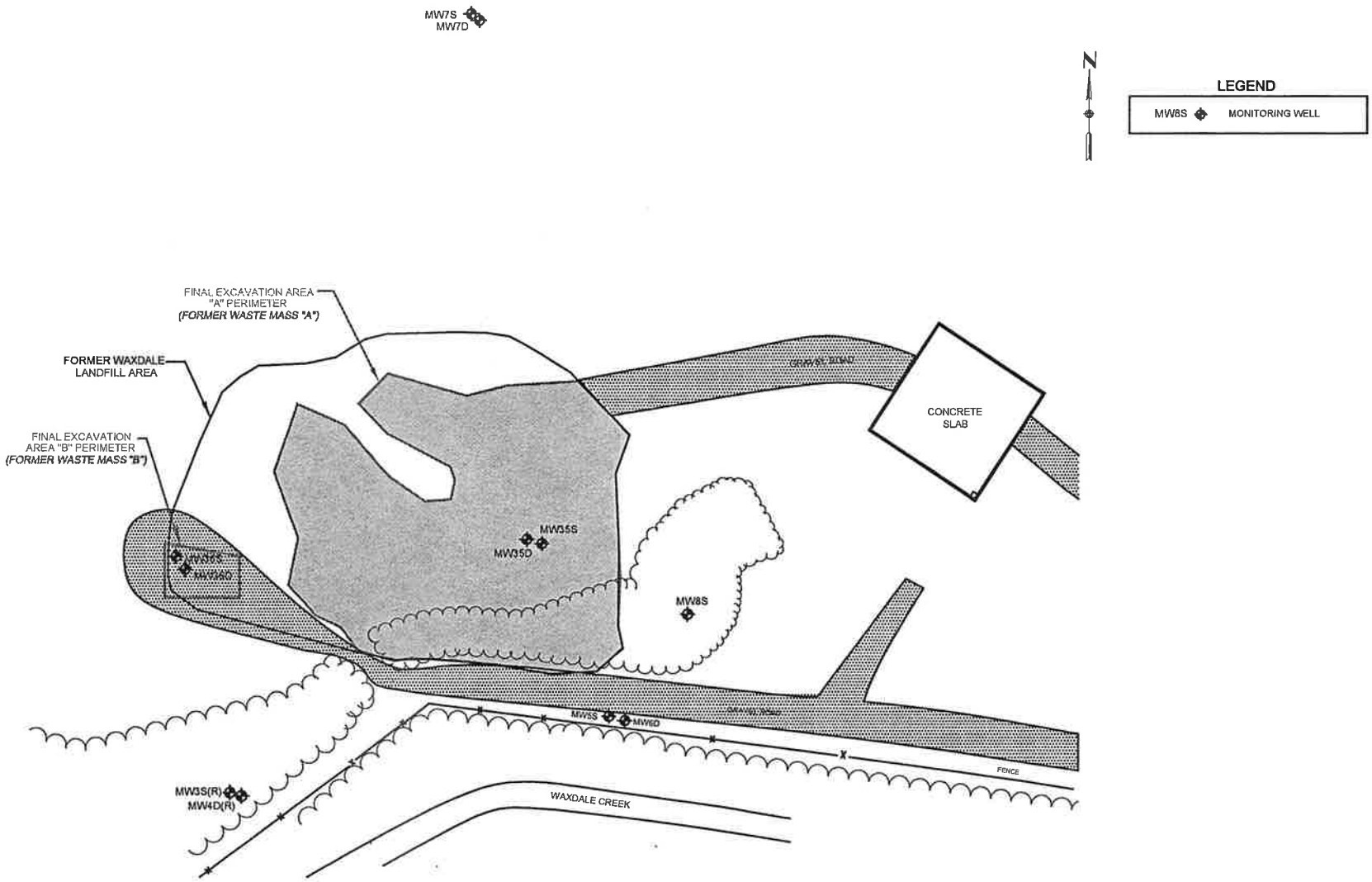


FIGURE 2-1

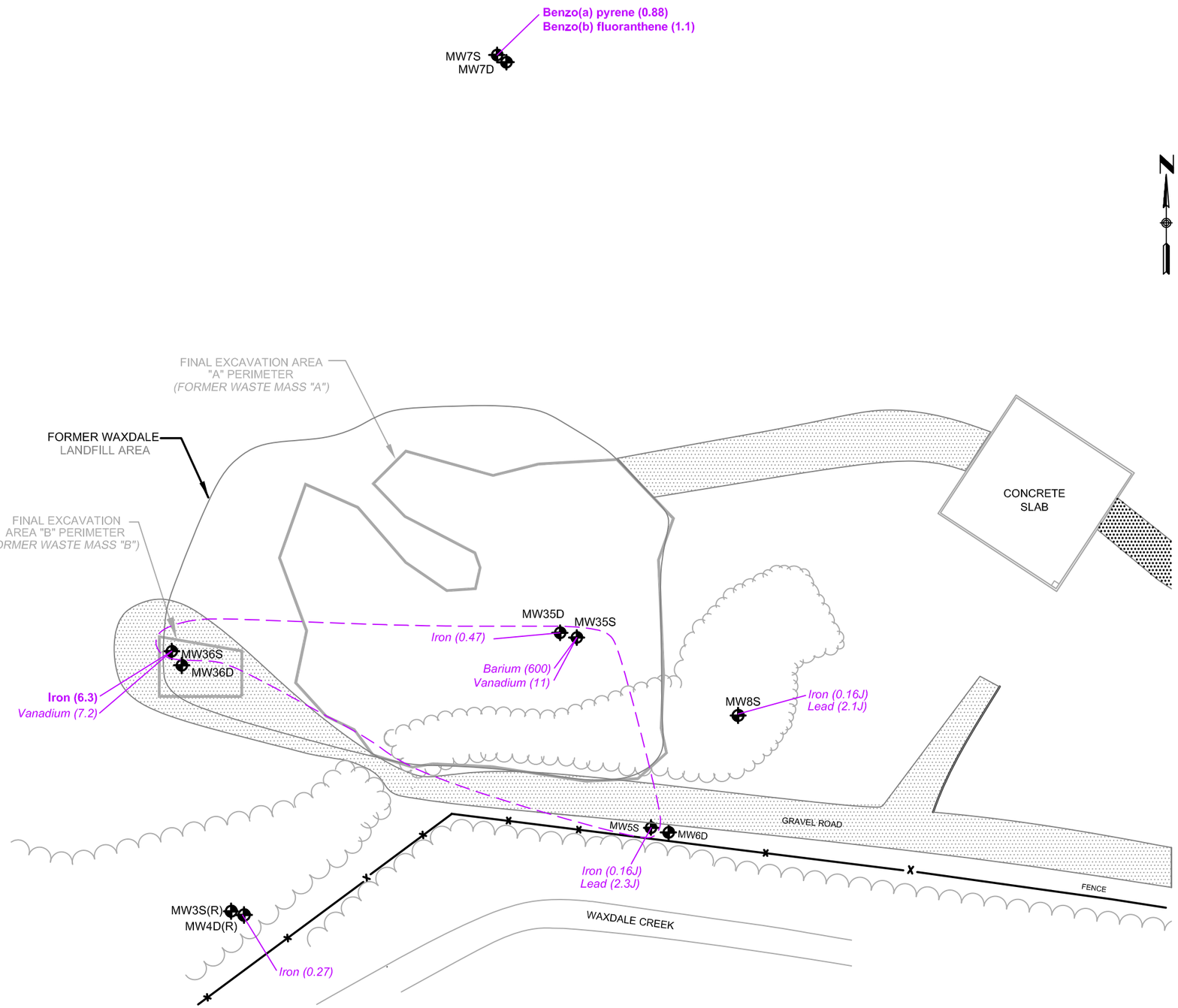
0 40
SCALE IN FEET

PREPARED FOR
SC Johnson
A FAMILY COMPANY

CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF
URS
MILWAUKEE, WISCONSIN

SCALE: AS SHOWN		DRAWING TITLE: FORMER WAXDALE LANDFILL AREA
DRAWN BY: DM	DATE: 5/17/11	
APPROVED BY: PJS	DATE: 5/18/11	CONTRACT NO: 25688424

P:\CSD\Active\ACAD\SC\REPORT\ANNUAL\2010 NONOP\Fig 2-01 FWLF XSECT.dwg User:renes_flink May 17, 2011 - 9:26am



LEGEND

MW8S	MONITORING WELL
Barium (700)	*Italic* - Data exceeds NR140 Preventive Action Limit (PAL)
(2.1J)	*J - estimated concentration*
Iron (10)	**BOLD** - Data exceeds NR140 Enforcement Standard (ES)
	Limit of NR140 PAL or ES Exceedances

NOTE:

1. MOST RECENT DATA IS FROM SEPTEMBER 2012.

0 40
SCALE IN FEET

FIGURE 2-4

PREPARED FOR SC Johnson A FAMILY COMPANY	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS MILWAUKEE, WISCONSIN	SCALE AS SHOWN	DRAWING TITLE FORMER WAXDALE LANDFILL AREA PAL AND ES EXCEEDANCE IN GROUNDWATER
		DRAWN BY RF / DATE 6/5/13	
		APPROVED BY PJS / DATE 6/5/13	CONTRACT NO. 25688424

P:\CSD\Active\ACAD\SCJ\Waxdale_Landfill\Closure Report\Figure 2-4 2013 PAL and ES Exceedance in GW.dwg User:renee_flink Jun 05, 2013 – 1:31pm

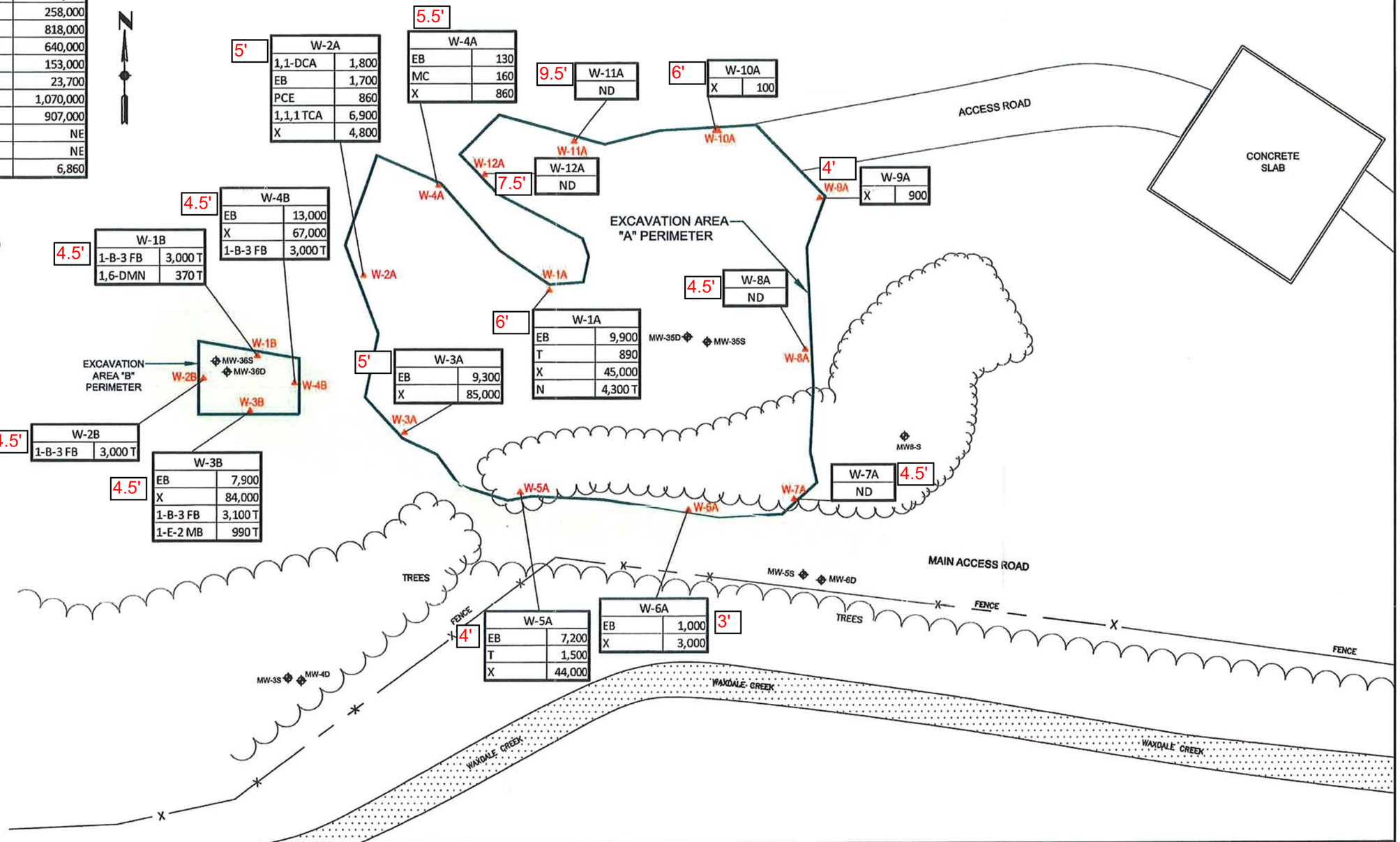
LEGEND

VOC	DC RCL(IND)
EB =Ethylbenzene	37,000
X =Xylene (total)	258,000
T =Toluene	818,000
1,1,1-TCA =1,1,1-Trichlorethane	640,000
PCE =Tetrachloroethene	153,000
1,1-DCA =1,1 Dichlorethane	23,700
MC =Methylene chloride	1,070,000
1-B-3 FB =1-Bromo-3-fluorobenzene	907,000
1-E 2 MB =1-Ethyl-2-methylbenzene	NE
1,6-DMN =1,6 Dimethylnaphthalene	NE
N =Nonane	6,860

All results in ug/kg.

NE =None Established
ND =None Detected
T =Tentatively identified compound (TIC)

MW8-S MONITORING WELL
W-3A WALL SAMPLE



PREPARED FOR
SC Johnson
A FAMILY COMPANY

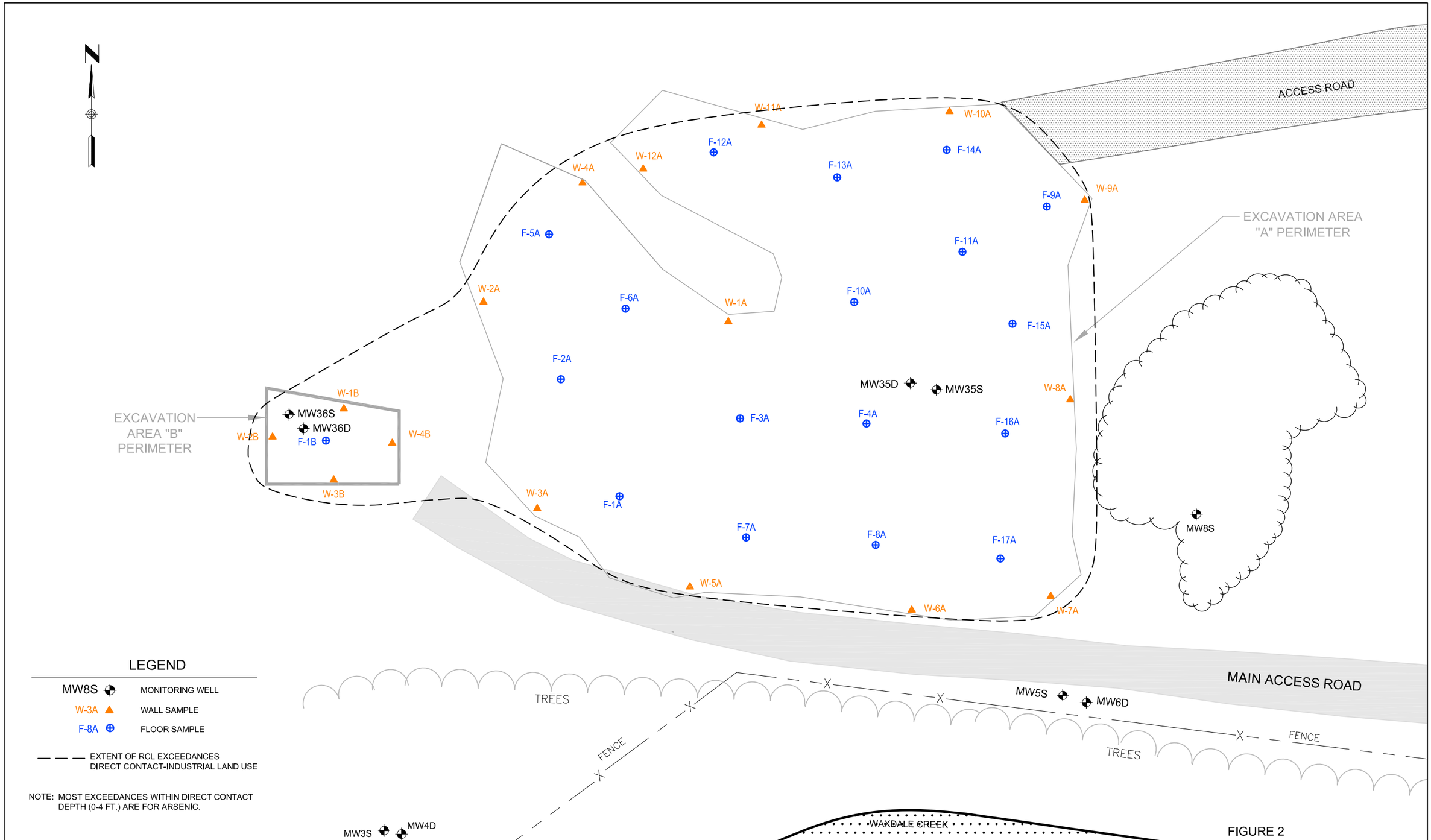
URS
MILWAUKEE, WISCONSIN

SCALE	
AS SHOWN	
DRAWN BY RF	DATE 3/18/2013
APPROVED BY PJS	DATE 3/20/2013

DRAWING TITLE
FORMER WAXDALE LANDFILL AREA
SUMMARY OF POST-EXCAVATION
VOC CONCENTRATIONS - WALL SAMPLES

CONTRACT NO
25688521

P:\CSD\Active\ACAD\SCJ\WAXDALE\2013\Fig 1 Summary of Post-Excavation VOC.dwg User:renee_flink Mar 19, 2013 - 10:22am



LEGEND

MW8S	MONITORING WELL
W-3A	WALL SAMPLE
F-8A	FLOOR SAMPLE
— — —	EXTENT OF RCL EXCEEDANCES DIRECT CONTACT-INDUSTRIAL LAND USE

NOTE: MOST EXCEEDANCES WITHIN DIRECT CONTACT DEPTH (0-4 FT.) ARE FOR ARSENIC.

FIGURE 2

PREPARED FOR	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF	SCALE		DRAWING TITLE
SC Johnson A FAMILY COMPANY	URS MILWAUKEE, WISCONSIN	AS SHOWN		FORMER WAXDALE LANDFILL AREA LIMIT OF RCL EXCEEDANCES
		DRAWN BY RF	DATE 2/21/12	
		CHECKED BY PJS	DATE 2/22/12	CONTRACT NO. 25688467

P:\CSD\Active\SC Johnson\CLOSURE Former Waxdale Landfill\Figure 1 Limit of RCL Exceedances.dwg User:renee_flink Mar 20, 2012 – 11:42am

BARRIER MAINTENANCE PLAN

September 9, 2013

Property Located at:
8311 16th Street, Sturtevant/ Racine County
(Former Waxdale Landfill)

FID # 252006370, WDNR BRRTS/Activity 02-52-552978

That part of the Northeast 1/4 of the Southwest
1/4 of Section 22, Township 3 North, Range 22 East,
In the Town of Mt. Pleasant, Racine County, Wisconsin, bounded:

Begin on the North and South 1/4 Section line of said Section at a point that is located South 174.03 feet from the center of said Section; thence South 472.89 feet from along said 1/4 Section line; thence North 86° 22' 49" West 1058.61 feet along the center line of a drainage canal; thence West 265.00 feet; thence North 406.05 feet; thence East 1321.6 feet to the point if beginning, containing 13.13 acres.

Containing 4.13 acres of wooded untillable land and 9.00 acres of tillable land.

Introduction

This document is the Maintenance Plan for a soil barrier located at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing soil and vegetative cover (the "barrier") occupying the area over the former Waxdale Landfill (FWLF). All waste materials were removed from the FWLF during a corrective action in 1999 and the FWLF was backfilled with clean fill materials. Poplar and willow trees were planted along the southeastern perimeter of the FWLF to reduce groundwater contaminant levels via phytoremediation. Samples were collected from the bottom and walls of the FWLF excavation following removal of the waste materials from depths between 3 feet and 10 feet below ground surface (bgs).

More site-specific information about this property may be found in:

- The case file in the DNR Southeast regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): http://dnr.wi.gov/botw/SetUpBasicSearchForm.do
- GIS Registry PDF file for further information on the nature and extent of

contamination: http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2; and
- The DNR project manager for Racine County.

Description of Contamination

Samples collected from within the direct contact zone (0-4 ft bgs) included the following compounds at concentrations exceeding direct contact residual contaminant levels (RCL) for industrial land usage:

benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(k)fluoranthene
indeno(1,2,3-cd)pyrene
arsenic
dieldrin

The extent of the soil contamination and location of the barrier to be maintained in accordance with this Maintenance Plan is identified in the attached map (Exhibit A).

Description of the Barrier to be Maintained

Between 5 and 11 feet of compacted clay backfill and 6-inches of topsoil serve as a barrier to prevent direct human contact with residual contamination that might otherwise pose a threat to human health. Backfill and topsoil was placed in and over the excavated areas, respectfully, following completion of the remedial action at the site. The barrier limits are shown on Exhibit A. Trees along the southeastern portion of the FWLF, and vegetative cover over the remainder of the site, mitigate surface erosion and provide an impediment to physical disruption of the soil cover. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The soil cover constituting the barrier overlying the FWLF as depicted in Exhibit A will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks, erosion and other potential problems that can allow exposure to underlying soils. The inspections will be performed by the property owner or their designated representatives to evaluate damage due to settling, exposure to the weather, increasing age, and other factors. Any area where subsurface soils have become or are likely to become exposed will be documented.

A log of the inspections and any repairs will be maintained by the property owner. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be

documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or they can include larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the soil barrier overlying the contaminated soil is removed or replaced, the replacement barrier must be equally effective. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor. The property owner, in order to maintain the integrity of the soil barrier, will maintain a copy of this Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

Notification Waiver

S.C. Johnson & Son, Inc. previously requested, and WDNR approved, a waiver from the notification requirement for certain activities that will not disturb or affect the barrier from functioning as intended. Examples of the WDNR-approved exempt activities could include landscaping, seeding, tree replacement (along southeastern perimeter), or paving (resulting in an equally effective or superior barrier). It is understood that any other significant modifications would still require WDNR notification and approval.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

The following activities are prohibited on any portion of the property where soil cover is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information
September 2013

Site Owner and Operator:	S.C. Johnson & Son, Inc.
Address:	1525 Howe Street MS 221 Racine, WI 53403-2236
Phone#:	262-260-6431

Signature:

L Noelle Brigham

Consultant:	URS Corporation
Address:	342 N. Water Street Milwaukee, WI 53202
Phone #:	414-831-4100

WDNR:	Eric Amadi 2300 N. Martin Luther King Drive Milwaukee, WI 53312
Phone #:	414-263-8500

EXHIBIT A

AREA SUBJECT TO BARRIER MAINTENANCE PLAN

N

0 25 50 75 Feet

1 inch = 75 feet

Exhibit A
Limit of Residual Soil Impacts and Area Subject to Barrier Maintenance Plan
Former Waxdale Landfill Area

URS

Drawn by: JMK

Date: 06/10/2013

SC Johnson
A Family Company

P:\CSD\Active\SC Johnson\FWLF Closure and 2012 Sampling\Barrier Maintenance Plan\WLF_Barrier Maintenance_Ex A.pdf

Exhibit B
Example Barrier Inspection Log

Inspection Date	Inspector	Condition of Barrier	Recommendations	Have Recommendations from Previous Inspection Been Implemented?

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

June 7, 2013

Ms. Noelle Brigham
S.C. Johnson & Son, Inc.
1525 Howe Street MS 221
Racine, WI 53403-2236

Subject: Conditional Closure Decision With Requirements for Final Closure
S.C. Johnson & Son, Inc., Former Waxdale Landfill,
8311 16th Street. Sturtevant, WI
BRRTS# 02-52-552978; FID# 252006370

Dear Ms. Brigham:

On June 6, 2013, the Southeast Region Wisconsin Department of Natural Resources (WDNR) reviewed your request for closure for the Subject case. The WDNR reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the WDNR has determined that the volatile organic compounds (VOC), polynuclear aromatic hydrocarbons (PAH) and metals contamination on the site from the former landfill activity appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to WDNR standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

Revised Barrier Maintenance Plan
Please revise and resubmit the Former Waxdale Landfill Barrier Maintenance Plan to include a section called *Notification Waiver* that follows the section called *Maintenance Activities*. WDNR requests that the *Notification Waiver* section be modified to contain the following language in accordance with your request. The preferred language is:

> "S. C. Johnson & Son, Inc. previously requested, and WDNR approved, a waiver from the notification requirement for certain activities that will not disturb or affect the barrier from functioning as intended. Examples of the WDNR-approved exempt activities could include landscaping, seeding, tree replacement (along the southeastern perimeter), or paving (resulting in an equally protective or superior barrier). It is understood that any other significant barrier modifications would still require WDNR notification and approval."

Additionally, the Barrier Maintenance Plan also requires that you include stakeholder signatures on the signature page. WDNR's Maintenance Plan Example Template signature page can be found on page 4 of the following link: http://dnr.wi.gov/topic/brownfields/documents/maintenance-plan.pdf. Please have all appropriate parties sign this document and provide a signed version to WDNR.

Monitoring Well Abandonment
The monitoring wells MW6D, MW7S, MW7D, MW8S, MW35S, MW35D, MW36S and MW36D must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Ms. Vicky Stovall, R&R Program Assistant on Form 3300-005, which is found at http://dnr.wi.gov/topic/DrinkingWater/documents/forms/3300005.pdf or as provided by the Department of Natural Resources.

Monitoring Well Transfer of Responsibility

The responsibility for monitoring wells MW3SR, MW4DR and MW5S is being transferred to the S.C. Johnson & Son, Inc. 2512 Willow Road – Facility Wide (non OP Area) site, BRRTS# 02-52-038750. The Willow Road site is also owned by S. C. Johnson & Son, Inc., and it is adjacent to the Former Waxdale Landfill site. Therefore, the Responsible Party (RP) for these wells will remain the same and RP has accepted the responsibility for monitoring wells MW3SR, MW4DR and MW5S as part of the Willow Road site monitoring program.

Monitoring wells MW3SR, MW4DR and MW5S and all of the remaining monitoring wells associated with the Willow Road site will be filled and sealed according to ch. NR 141, Wis. Adm. Code when the 2512 Willow Road – Facility Wide site is closed and the cleanup of this site is complete.

Purge Water, Waste and Soil Pile Removal

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

When the conditions above have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR's Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

Continuing Obligations and Responsibilities

As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations: Manage residual contaminated soil and groundwater, manage the protective barrier and maintain industrial zoning. In the final closure approval, you will also be required to conduct annual inspections. Documentation of the inspection will be required to be kept on site.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 414-263-8366.

Sincerely,

James H. Kasdorf

Jim Kasdorf,
Hydrogeologist
Remediation & Redevelopment Program

Enclosure

Cc: Paul J. Sklar, PG, URS Corporation, 342 N. Water Street, 7th Floor, Milwaukee, WI 53202

WARRANTY DEED. STATE OF WISCONSIN FORM No.

VOL 729 PAGE 516

Sec. 235.16, Wisconsin Statutes

This Indenture, Made this 15th day of January ------- A. D. ~~19xx~~ 1960, between Charles M. Creuziger and Iva H. Creuziger, his wife, of the Village of Sturtevant, Racine County, Wisconsin ---------- parties of the first part, and S. C. Johnson & Son, Inc., a Wisconsin Corporation, with its principal office in Racine, Wisconsin ---------- party of the second part.

Witnesseth, That the said parties of the first part, for and in consideration of the sum of One ($1.00) Dollar and other good and valuable consideration to them in hand paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, have given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said party of the second part, its successors ~~heirs~~ and assigns forever, the following described real estate, situated in the County of Racine and State of Wisconsin, to-wit:

That part of the Northeast 1/4 of the Southwest 1/4 of Section 22, Township 3 North, Range 22 East, in the Town of Mt. Pleasant, Racine County, Wisconsin, bounded:

Begin on the North and South 1/4 Section line of said Section at a point that is located South 174.03 feet from the center of said Section; thence South 472.89 feet along said 1/4 Section line; thence North 86° 22' 49" West 1058.61 feet along the center line of a drainage canal; thence West 265.00 feet; thence North 406.05 feet; thence East 1321.6 feet to the point of beginning, containing 13.13 acres.

Containing 4.13 acres of wooded untillable land and 9.00 acres of tillable land.

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said parties of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and to Hold the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and to its successors ~~heirs~~ and assigns FOREVER.

And the said Charles M. Creuziger and Iva H. Creuziger, his wife, for themselves, their heirs, executors and administrators, do covenant, grant, bargain, and agree to and with the said party of the second part, its successors ~~heirs~~ and assigns, that at the time of the ensealing and delivery of these presents they are well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, its successors ~~heirs~~ and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, they will forever WARRANT AND DEFEND.

In Witness Whereof, the said parties of the first part have hereunto set their hands and seals this 15th day of January -------- A. D. ~~19xx~~ 1960.

THIS INSTRUMENT WAS DRAFTED BY
Gilbert E. Brach, Attorney

SIGNED AND SEALED IN PRESENCE OF
Gilbert E. Brach
Edith E. Jensen

Charles M. Creuziger (SEAL)
Charles M. Creuziger

Iva H. Creuziger (SEAL)
Iva H. Creuziger

(SEAL)

(SEAL)

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary).

3-253

No. 731782

Charles M. Creuziger and Iva H. Creuziger, his wife,

TO

S. C. Johnson & Son, Inc., a Wisconsin Corporation

Premises Part of Northeast 1/4 of Southwest 1/4 Sec. 22-3-22 East, Town of Mt. Pleasant

Warranty Deed

This Instrument should be immediately placed upon record to avoid future trouble and litigation.

REGISTER'S OFFICE,
State of Wisconsin,
Racine County.

Received for Record this 29th day of January A. D., 19 62 at 8:30 o'clock A. M., and recorded in Vol 229 of ~~Deeds~~ Records on page 516-517.

Stanley F. Bielecki
Register of Deeds.

Deputy.

R. M. Carpenter
c/o Johnson Wax

1.50

Drafted by Gilbert E. Brach, Attorney, 744 Main St., Racine, Wisconsin

VOL 729 PAGE 517

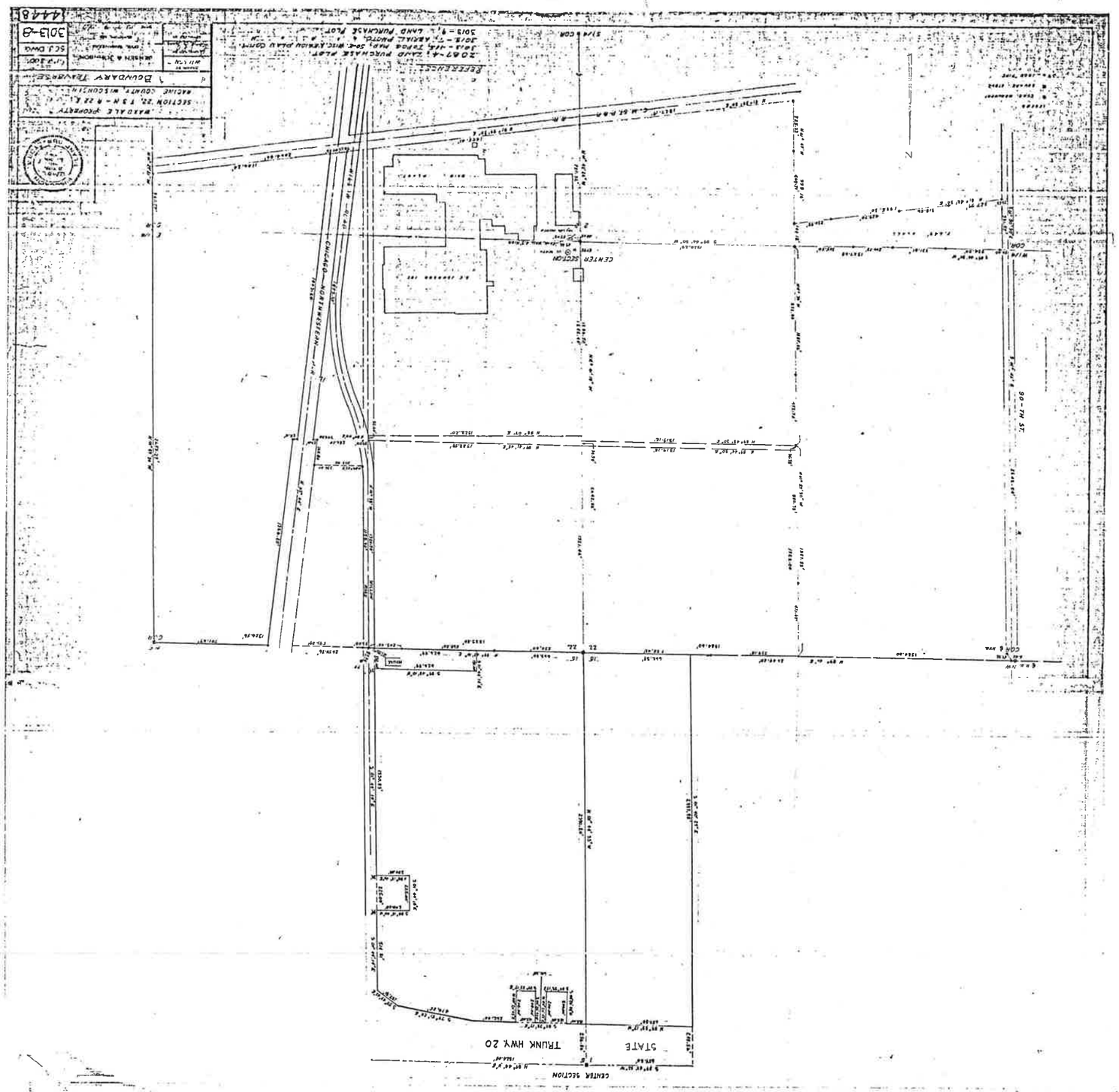
State of Wisconsin,
RACINE County

Personally came before me, this 15th day of January A. D., 1962, the above named Charles M. Creuziger and Iva H. Creuziger, his wife,

to me known to be the persons who executed the foregoing instrument and acknowledged the same.

Notary Public
Racine County, Wis.
My commission expires

Gilbert E. Brach
Racine
Notary Public
Racine County, Wis.
My commission expires at pleasure


STATE
TRUNK HWY. 20
CENTER SECTION
CHICAGO - NORTHWESTERN
CENTER SECTION
N
BOUNDARY TRAVERSE
RACINE COUNTY, WISCONSIN
30B-8

Statement of Legal Property Description Accuracy

FOR

S.C. Johnson & Son, Inc. – Former Waxdale Landfill
8311 16th Street
Sturtevant, WI
BRRTS No.02-52-552978

This statement is to verify that the following legal description of the above referenced property, obtained from the Racine County Register of Deeds Office, for the purpose of listing this site in the GIS Registry of Closed Remediation Sites, is complete and accurate to the best of my knowledge.

The property deed obtained from the Register of Deeds provided the following legal description of the above-mentioned property:

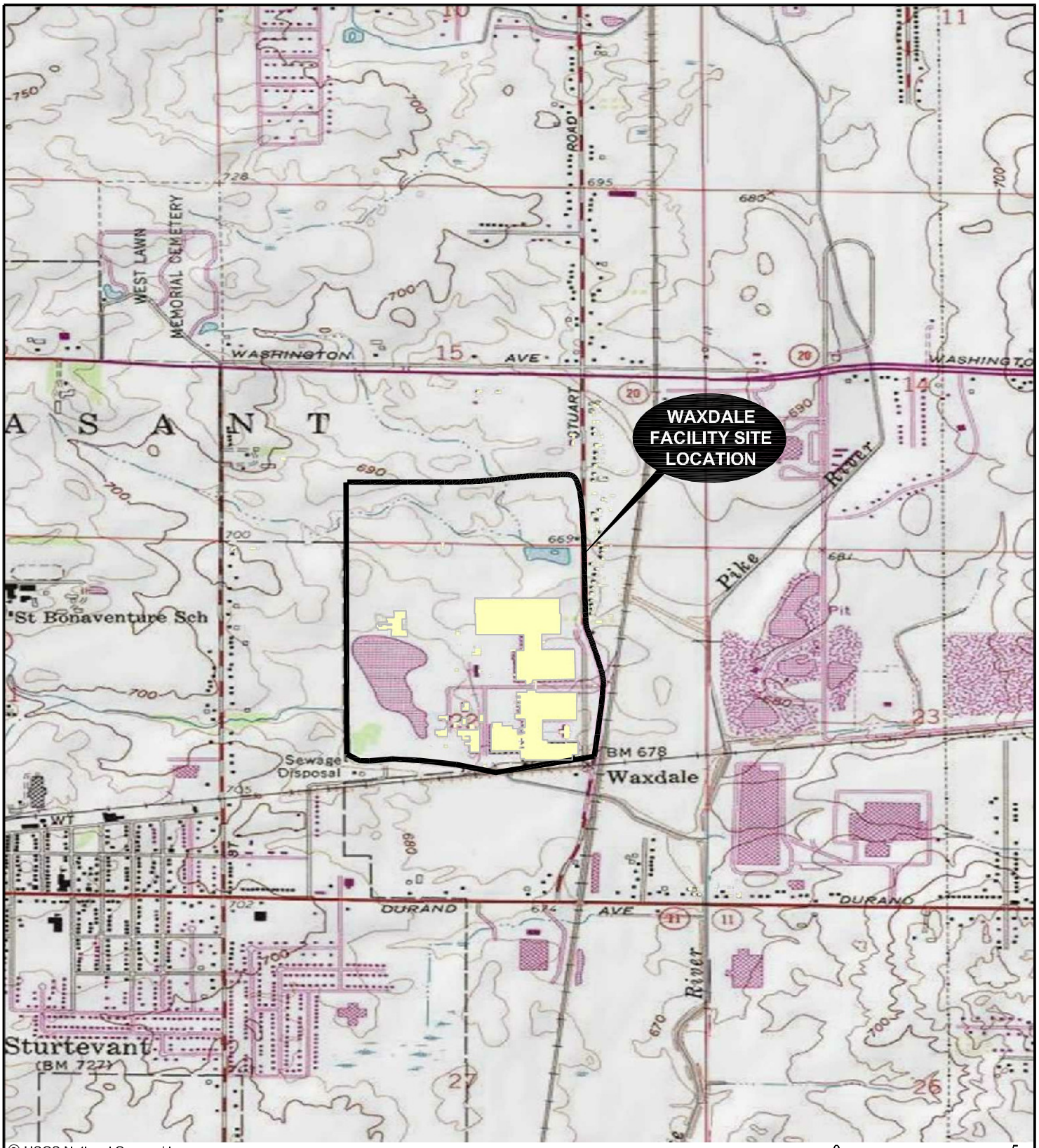
That part of the Northeast 1/4 of the Southwest
1/4 of Section 22, Township 3 North, Range 22 East,
In the Town of Mt. Pleasant, Racine County, Wisconsin, bounded:

Begin on the North and South 1/4 Section line of said Section at a point that is located **South 174.03 feet** from the center of said Section; thence **South 472.89** feet from along said 1/4 Section line; thence **North 86° 22' 49" West 1058.61 feet** along the center line of a drainage canal; thence **West 265.00 feet**; thence **North 406.05 feet**; thence **East 1321.6 feet** to the point if beginning, containing 13.13 acres.
Containing 4.13 acres of wooded untillable land and 9.00 acres of tillable land.

L Noelle Brigham
Signature

5/26/2011
Date

L. Noelle Brigham / Environmental Engineer
Printed / Typed Name and Title



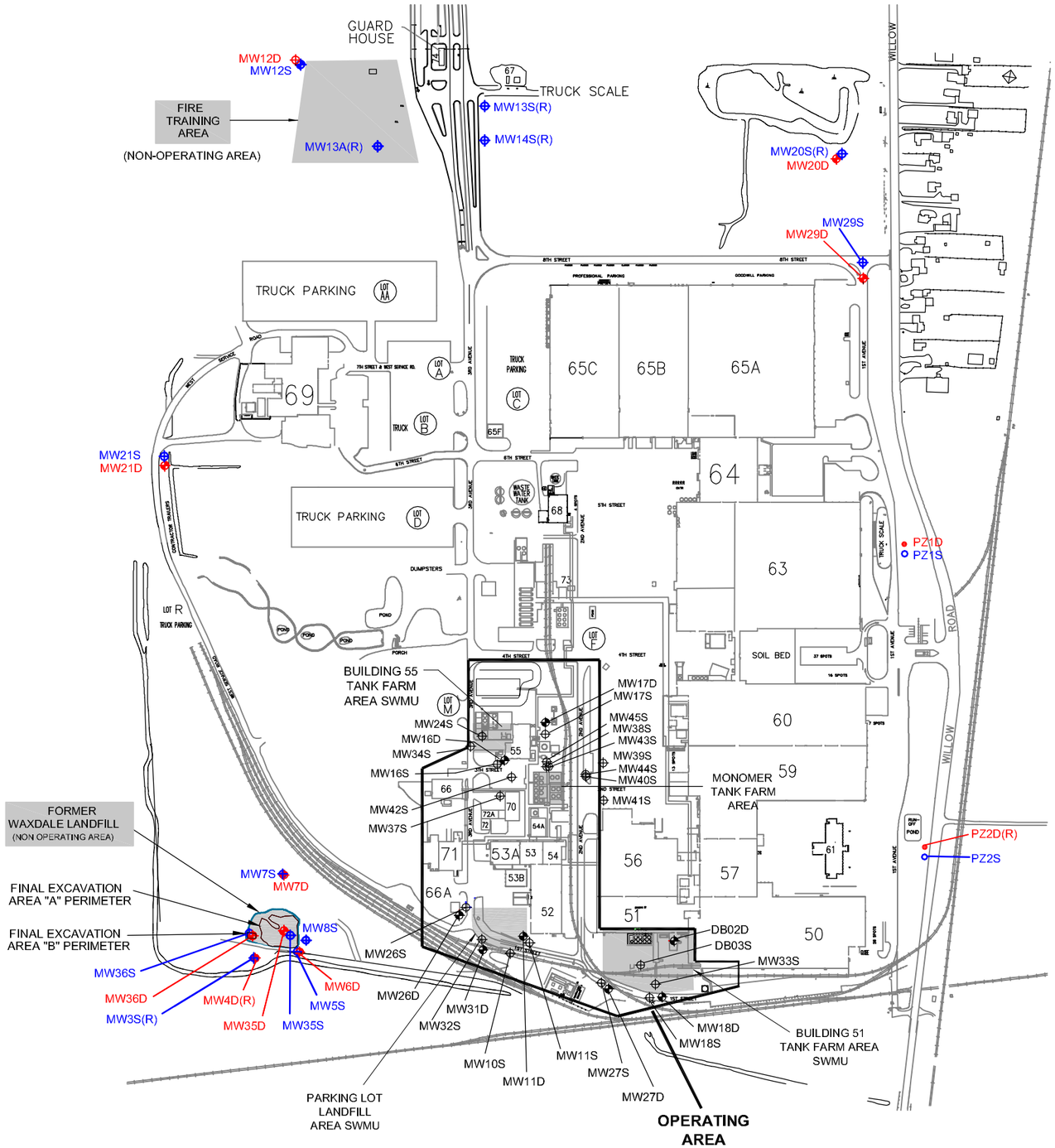
© USGS National Geographic

0 .5 MILE

FIGURE 1-1

PREPARED FOR	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF	SCALE	DRAWING TITLE
SC Johnson A FAMILY COMPANY	URS MILWAUKEE, WISCONSIN	AS SHOWN	WAXDALE FACILITY SITE LOCATION MAP
		DRAWN BY: RF — DATE: 10/22/10	
		APPROVED BY: PJS — DATE: 12/02/10	CONTRACT NO. 25688424

P:\CSD\Active\ACAD\SCJ\REPORT\ANNUAL\2010 NONOP\Fig 1-1 Site Location Map.dwg User:renee_flink Feb 04, 2011 - 9:35am



LEGEND

MW7D	DEEP WELL
MW7S	SHALLOW WELL
	MONITORING WELLS NOT SAMPLED THIS EVENT OR UNDER SEPARATE COVER
PZ22D	DEEP PIEZOMETER
PZ22S	SHALLOW PIEZOMETER
PZ22D(R)	(R) REPLACEMENT

0 — 440
SCALE IN FEET

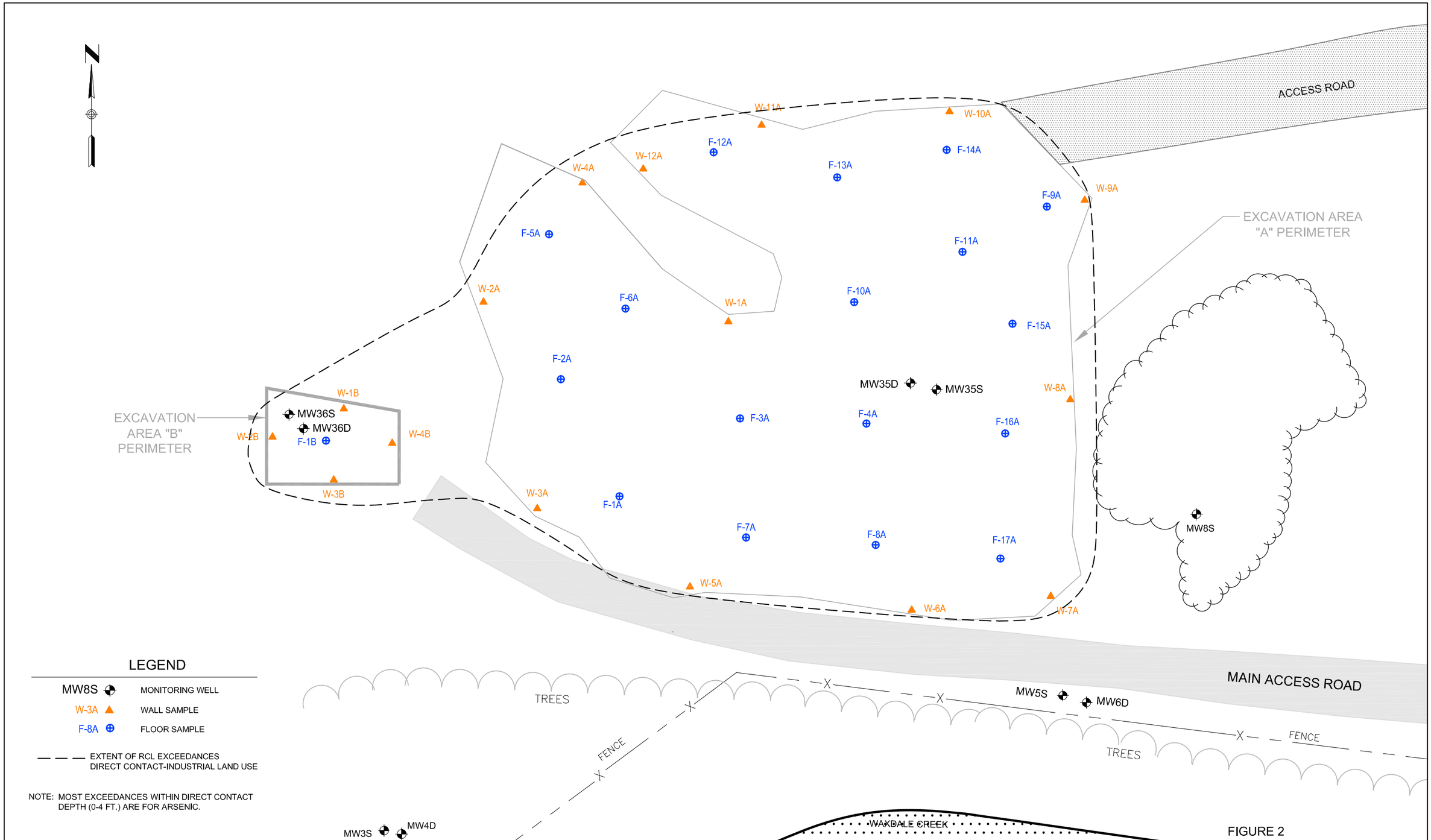
FIGURE 1-2

PREPARED FOR
SC Johnson
A FAMILY COMPANY

CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF
URS
MILWAUKEE, WISCONSIN

SCALE	AS SHOWN	DRAWING TITLE	WAXDALE FACILITY SITE LAYOUT
DRAWN BY	–	DATE	10/12/08
APPROVED BY	PJS	DATE	10/12/08
CONTRACT NO.	25688357		

P:\CSD\Active\ACAD\SCJ\REPORT\ANNUAL\2008 NONOP\Fig 1-2 WAXDALE FACILITY SITE LAYOUT.dwg User:renee_flink Jan 30, 2009 – 11:47am



LEGEND

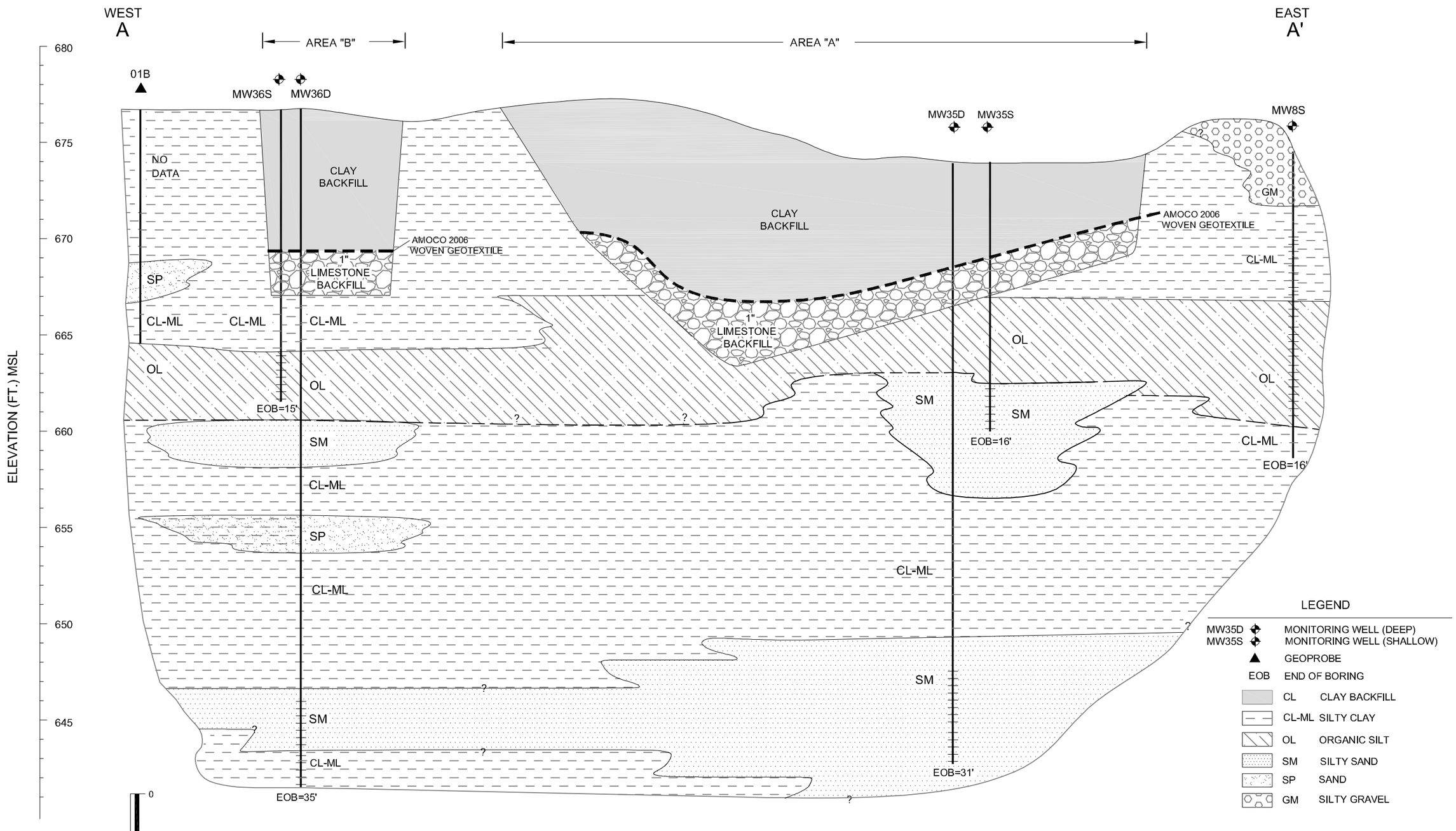
MW8S	MONITORING WELL
W-3A	WALL SAMPLE
F-8A	FLOOR SAMPLE
— — —	EXTENT OF RCL EXCEEDANCES DIRECT CONTACT-INDUSTRIAL LAND USE

NOTE: MOST EXCEEDANCES WITHIN DIRECT CONTACT DEPTH (0-4 FT.) ARE FOR ARSENIC.

FIGURE 2

PREPARED FOR	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF	SCALE		DRAWING TITLE
SC Johnson A FAMILY COMPANY	URS MILWAUKEE, WISCONSIN	AS SHOWN		FORMER WAXDALE LANDFILL AREA LIMIT OF RCL EXCEEDANCES
		DRAWN BY RF	DATE 2/21/12	
		CHECKED BY PJS	DATE 2/22/12	CONTRACT NO. 25688467

P:\CSD\Active\SC Johnson\CLOSURE Former Waxdale Landfill\Figure 1 Limit of RCL Exceedances.dwg User:renee_flink Mar 20, 2012 – 11:42am



REFER TO FIGURE 2-1 FOR SPECIFIC LOCATIONS.

FIGURE 2-2

PREPARED FOR	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF	SCALE: AS SHOWN	DRAWING TITLE: FORMER WAXDALE LANDFILL AREA LITHOLOGIC CROSS SECTION A-A'
SC Johnson A FAMILY COMPANY	URS MILWAUKEE, WISCONSIN	DRAWN BY: RF / DATE: 10/22/10	
		APPROVED BY: PJS / DATE: 12/02/10	CONTRACT NO. 25688424

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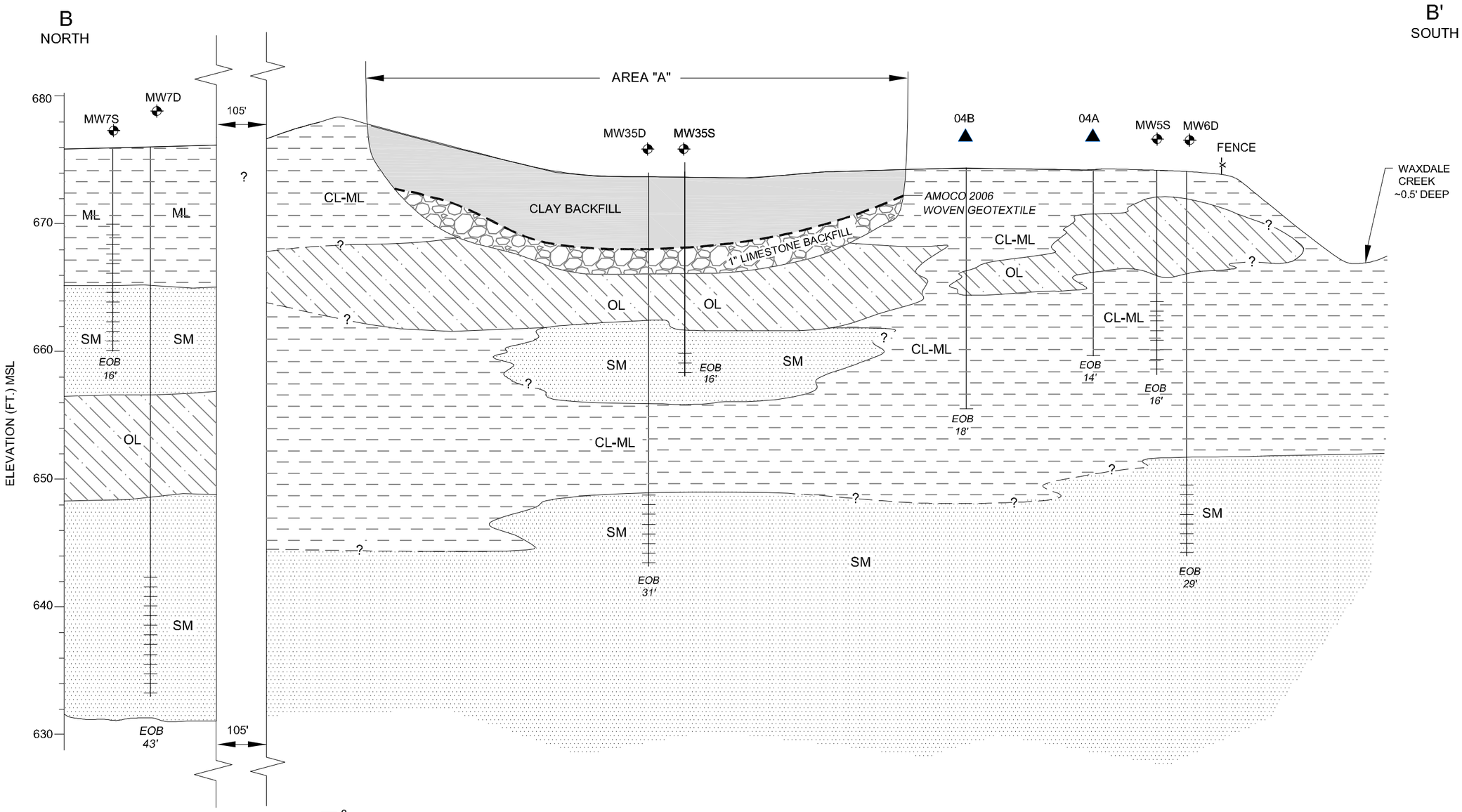


LEGEND

MW35D	MONITORING WELL (DEEP)
MW35S	MONITORING WELL (SHALLOW)
▲	GEOPROBE
EOB	END OF BORING
CL	CLAY BACKFILL
CL-ML	SILTY CLAY
OL	ORGANIC SILT
SM	SILTY SAND
SP	SAND

VERTICAL SCALE 8 FEET 0

SCALE 0 20 FEET

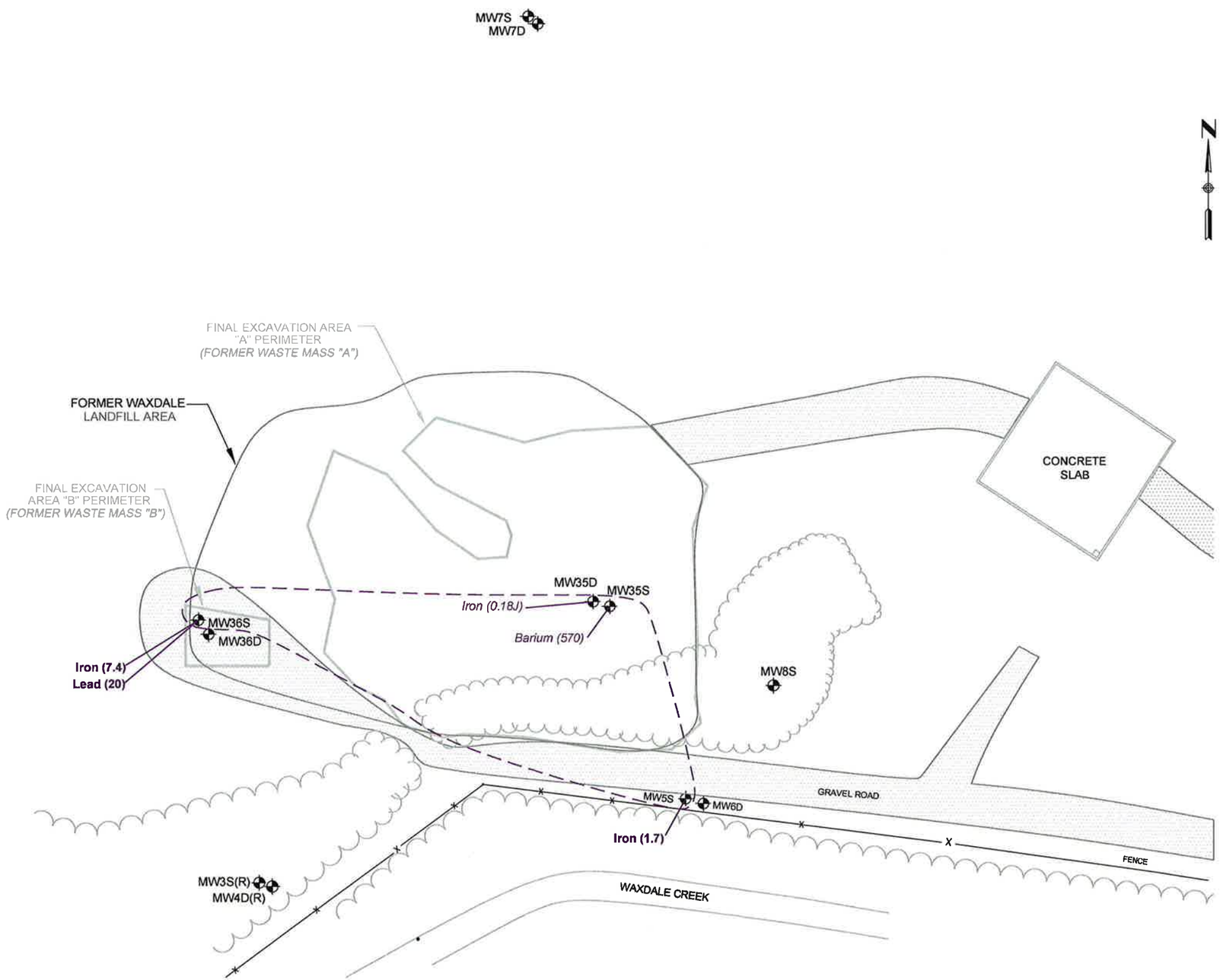
VERTICAL EXAGGERATION = 2.5X

REFER TO FIGURE 2-1 FOR PLAN VIEW.

FIGURE 2-3

PREPARED FOR SC Johnson A FAMILY COMPANY	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS MILWAUKEE, WISCONSIN	SCALE AS SHOWN	DRAWING TITLE FORMER WAXDALE LANDFILL AREA LITHOLOGIC CROSS SECTION B-B'
		DRAWN BY RF / DATE 10/22/10	
		APPROVED BY PJS / DATE 12/02/10	CONTRACT NO. 25688424

P:\CSD\Active\ACAD\SCJ\REPORT\ANNUAL\2010 NONOP\Fig 2-03 FWLA XSECT B-B.DWG User: renee_flink Feb 04, 2011 – 9:38am



LEGEND

MW8S	MONITORING WELL
Barium (700)	*Italic* - Data exceeds NR140 Preventive Action Limit (PAL)
Iron (10)	**BOLD** - Data exceeds NR140 Enforcement Standard (ES)
	Limit of NR140 PAL or ES Exceedances

	NR140 PAL	NR140 ES
Barium	400 ug/L	200 ug/L
Iron	0.15 mg/L	0.3 mg/L
Lead	1.5 ug/L	15 ug/L

NOTE:

1. MOST RECENT DATA IS FROM 2011 CAMP SAMPLING.

0 40
SCALE IN FEET

PREPARED FOR
SC Johnson
A FAMILY COMPANY

CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF
URS
MILWAUKEE, WISCONSIN

SCALE	AS SHOWN	
DRAWN BY	DM	DATE 5/17/11
APPROVED BY	PJS	DATE 5/18/11

DRAWING TITLE
FIGURE 2-4
FORMER WAXDALE LANDFILL AREA
PAL AND ES EXCEEDANCE IN GROUNDWATER

CONTRACT NO.
25688424

P:\CSD\Active\ACAD\SCJ\Waxdale_Landfill\Closure Report\Figure 2-4 PAL and ES Exceedance in GW 2012.dwg User:renee_flink Feb 20, 2012 - 1:25pm

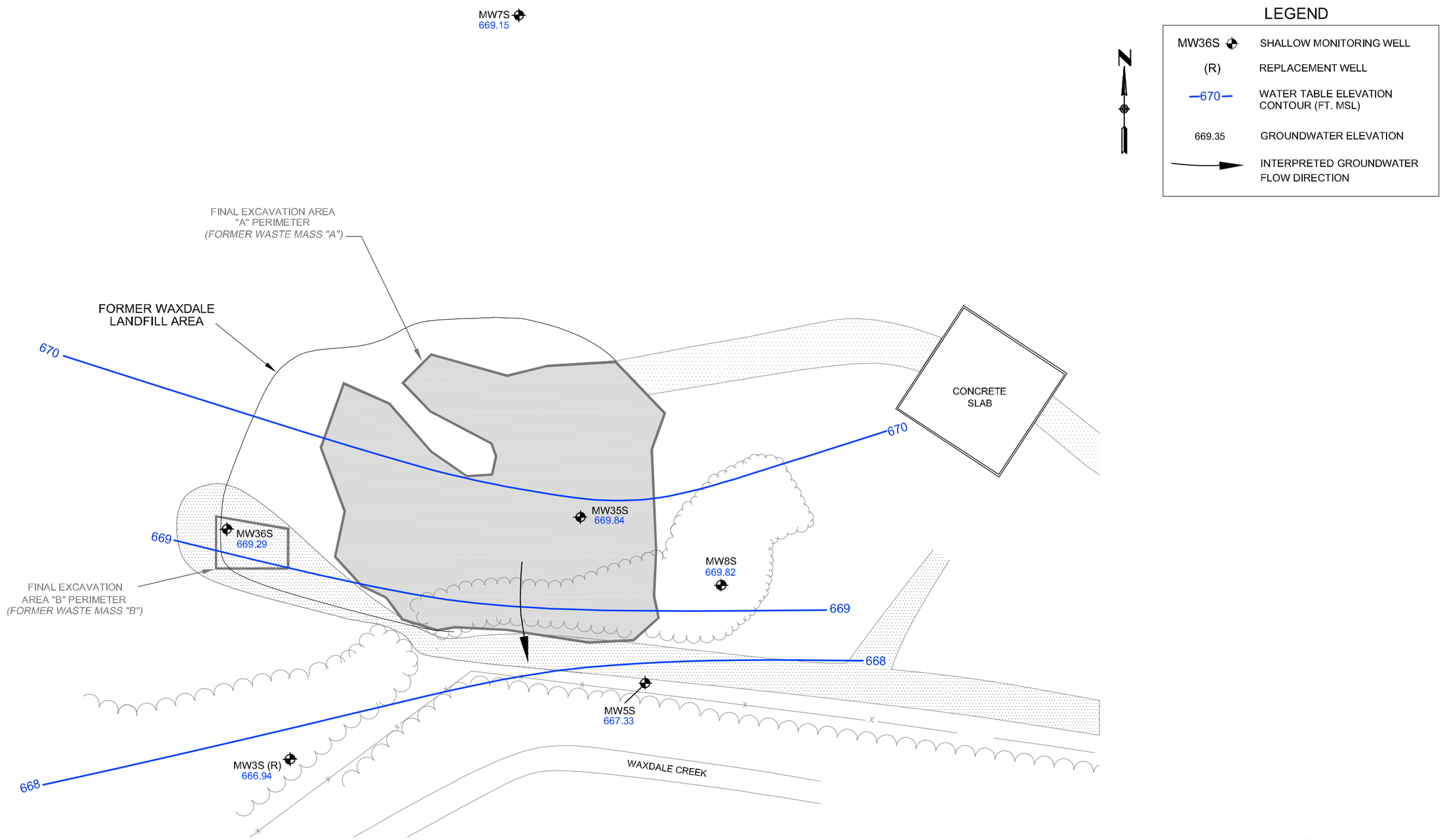


FIGURE 2-4

PREPARED FOR SC Johnson A FAMILY COMPANY	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS MILWAUKEE, WISCONSIN	SCALE AS SHOWN	FORMER WAXDALE LANDFILL AREA WATER TABLE CONTOUR MAP SEPTEMBER 2010 (SHALLOW WELLS)
		DRAWN BY DM / DATE 10/22/10	
		APPROVED BY PJS / DATE 1/28/11	CONTRACT NO. 25688424

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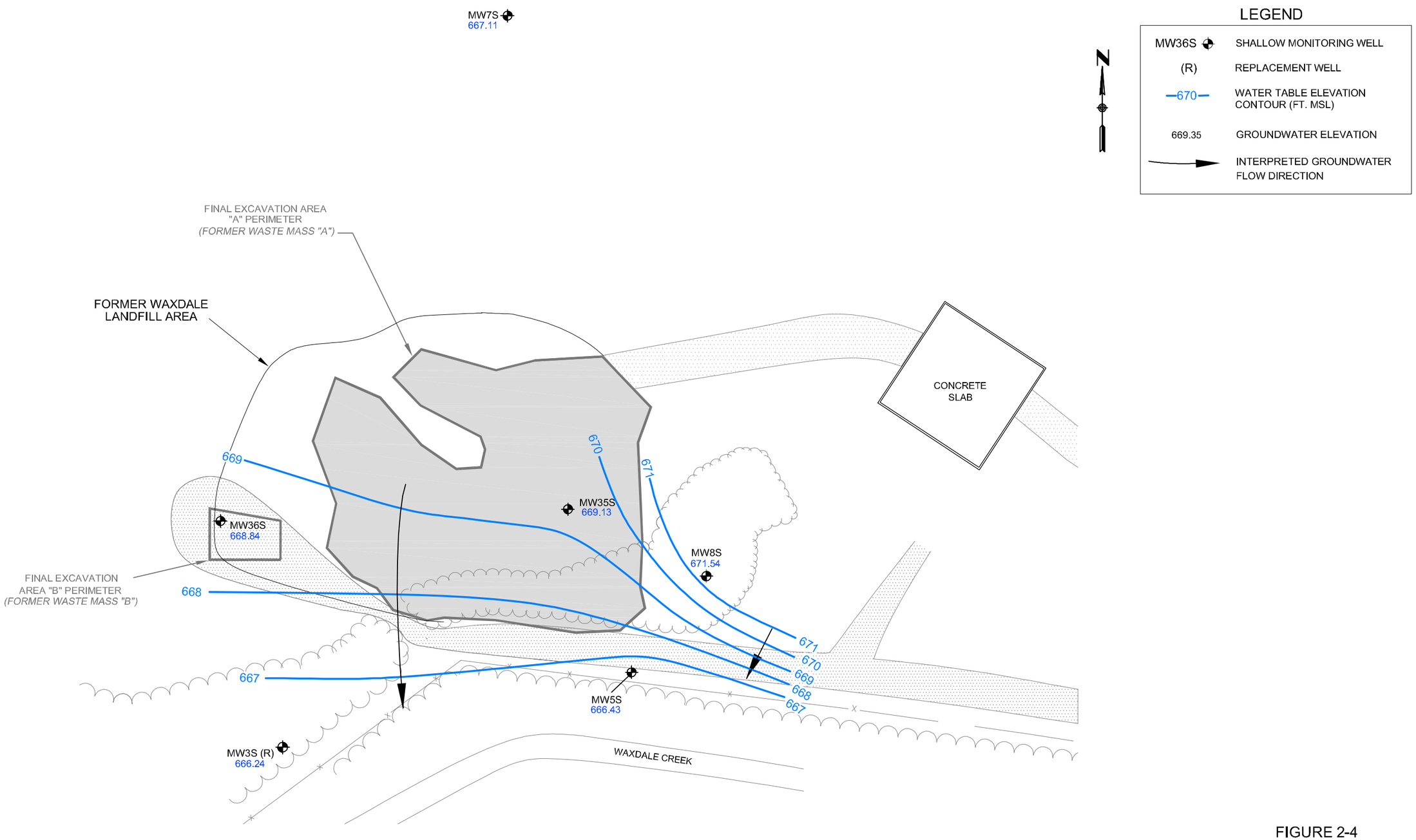

FIGURE 2-4

PREPARED FOR SC Johnson A FAMILY COMPANY	CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS MILWAUKEE, WISCONSIN	SCALE AS SHOWN	FORMER WAXDALE LANDFILL AREA WATER TABLE CONTOUR MAP SEPTEMBER 2011 (SHALLOW WELLS)
		DRAWN BY DM / DATE 10/01/11	
		APPROVED BY PJS / DATE 12/02/11	CONTRACT NO. 25688467

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Table 1
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections in Excavation Wall Soil Samples
Within Direct Contact Depth (0-4 feet)

	Sample Location	Sample Depth (ft-bgs)	Sample Date	VOCs		SVOCs																				
				Ethylbenzene	Total Xylenes	2,4-Dichlorophenol	2,4-Dimethylphenol	2-Methylphenol	4-Methylphenol/3-Methylphenol	Acenaphthene	Acetophenone	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)flouranthene	Benzo(g,h,i)perylene	Benzo(k)flouranthene	Bis(2-Ethylexyl)phthalate	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Flouranthene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Excavation Area B	W-1B	4.5	7/15/1999	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.358	U	U	U	U	U	U	U	U
	W-2B	4.5	7/15/1999	U	U	U	U	U	U	5.96	U	11.6	**32.3**	**31.7**	**53.2F**	23.3	**53.2F**	U	34.8	**5.98**	1.69	88.1	**19.9**	U	30.9	62.4
	W-3B	4.5	7/15/1999	7900	84000	U	0.281	U	U	U	0.281	U	0.0675	U	<0.122F	U	0.0917F	5.58	U	U	U	0.151	U	U	0.144	0.104
	W-4B	4.5	7/15/1999	13000	67000	U	0.383	U	U	U	0.0691	U	U	U	U	U	U	1.65	U	U	U	U	U	U	U	U
Excavation Area A	W-5A	4	7/27/1999	7200	44000	0.446	0.51	0.0587	0.278F	U	0.0993	U	U	U	U	U	U	0.581	U	U	U	U	U	0.0386	U	U
	W-6A	3	7/27/1999	1000	3000	U	U	U	U	U	U	U	U	U	U	U	U	1.3	U	U	U	U	U	U	U	U
	W-7A	4.5	8/4/1999	U	U	U	U	U	U	U	U	U	0.0185	<0.021	0.0281F	U	0.0281F	0.0213	0.021	U	U	0.041	U	U	0.0292	0.0312
	W-8A	4.5	8/5/1999	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	W-9A	4.5	8/5/1999	U	900	U	0.0512	U	U	U	U	U	U	U	U	U	U	0.171	0.0258	U	U	U	U	0.0179	U	0.0146
			Units	ug/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Direct Contact RCL - Industrial			37000	3.60E+06	1850	1.20E+04	--	--	--	1.00E+05	3.30E+04	2.1	0.21	2.11	--	21.1	123	211	0.21	171	2.20E+04	2.11	26	115	1.60E+04

ft-bgs = feet below ground surface
RCLs obtained from WDNR RCL Calculator 2011-2012; " -- " = no RCL listed
Values in **BOLD** exceed RCL
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
Flags and Qualifiers:
U = Analyte was not detected at or above the reporting limit.
B = Analyte detected in method blank at concentration greater than the reporting limit.
J = Result is less than stated detection limit but greater than or equal to the specified reporting limit.
F = Interference or coelution suspected.
P = Analyte not confirmed. Results from primary and secondary GC columns differ by greater than a factor of 3.
<DL = Result is less than stated detection limit and greater than or equal to zero

Table 1
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections in Excavation Wall Soil Samples
Within Direct Contact Depth (0-4 feet)

				Metals																	Pesticides									
	Sample Location	Sample Depth (ft-bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Sliver	Thallium	Tin	Vanadium	Zinc	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	Chlordane	α-Chlordane	γ-Chlordane	Dieldrin	Endrin	Methoxychlor
Excavation Area B	W-1B	4.5	7/15/1999	U	**6.89B**	35.9B	0.281	0.686B	9.89B	6.1	14.2B	13.3B	0.0114	14.4B	U	U	U	0.208	23.1	42.9	10.9	14.4	6.81	U	U	U	U	7.34	U	U
	W-2B	4.5	7/15/1999	U	**5.52B**	19.4B	0.214	0.485B	7.38B	3.49	18.8B	25.4	0.0267	10.2B	0.236B	0.0396B	U	0.337	12.9	37.1	319	247	157	U	U	U	U	U	<DL	221
	W-3B	4.5	7/15/1999	0.0158BJ	**4.12B**	61.8B	0.39	0.657B	19.5B	8.32	12.4B	10.3B	0.0164	19.4B	U	U	U	0.683	29.3	47.4	19.1	18.2	7.77	187P	U	5.8	7.09	211	10	U
	W-4B	4.5	7/15/1999	0.226BJ	**5.43B**	176B	0.682	0.934B	30.8B	10.1	24.7B	9.36B	0.00996	27.0B	U	U	U	1.28	37.5	44.2	U	0.551	U	0.333	U	U	U	<DL	U	U
Excavation Area A	W-5A	4	7/27/1999	0.149BJ	**4.45**	66.8B	0.607B	0.353B	22.3	8.31	20.7	9.63B	0.0364	21.7B	U	0.02BJ	U	0.592	26.8B	36.5	5.51F	7.36	3.89BF	9.04F	32.3	5.39BF	3.07F	11.7	U	U
	W-6A	3	7/27/1999	0.314B	**4.13**	66.5B	0.578B	0.297B	20.4B	7.68	16.4	9.29B	0.0161	23.0B	U	0.0649B	U	0.461J	30.1B	51.9	U	3.18	UF	U	242	50.9BF	37.1F	U	U	U
	W-7A	4.5	8/4/1999	U	**7.33**	69.8B	0.698B	0.0763B	22.7B	9.5	24.8B	12.9	0.0141	23.6B	U	U	0.592B	0.7B	33.8B	62.0B	249	160	1600B	U	U	13.8	U	17.8	U	U
	W-8A	4.5	8/5/1999	0.0306J	**11.7**	42.1B	0.605B	0.0858B	20.5B	9.27	19.5B	10.4	0.00181	21.8B	U	U	0.0468BJ	0.875B	25.2B	55.6B	0.77	1.26	U	U	0.461	U	0.77	3.41	U	U
	W-9A	4.5	8/5/1999	0.385	**5.08**	73.3B	0.558B	0.176B	21.0B	7.61	20.4B	11.9	0.00372	19.9B	U	0.0305BJ	0.215BJ	1.11BJ	28.2B	74.7B	53.7F	U	U	U	688	146F	70.9F	**1740**	U	U
			Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
	Direct Contact RCL - Industrial			409	1.59	1.00E+05	2010	803	1.00E+05	304	4.00E+04	800	3.13	4.70E+04	5110	5110	10.2	1.00E+05	5150	1.00E+05	7180	5070	7030	101	6470	6470	6470	108	1.80E+05	3.10E+06

RCLs obtained from WDNR RCL Calculator 2011-2012; " -- " = no RCL listed
Values in **BOLD** exceed RCL
ug/kg = micrograms per kilogram
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Flags and Qualifiers:
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F = Interference or coelution suspected.
P = Analyte not confirmed. Results from primary and secondary GC columns differ by greater than a factor of 3.
<DL = Result is less than stated detection limit and greater than or equal to zero

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 1A	Floor 1A	Floor 1B	Floor 2A	Floor 3A	Floor 4A	Floor 5A	Floor 6A	Floor 7A	Floor 8A
		Field Sampling Location:	F-1A	F-1A	F-1B	F-2A	F-3A	F-4A	F-5A	F-6A	F-7A	F-8A
		Sample Collection Date:	7/22/1999	8/5/1999	7/15/1999	7/22/1999	7/22/1999	7/22/1999	7/26/1999	7/27/1999	7/27/1999	7/27/1999
Dissolved Metals	**Units**	**RCL**	9-9.5	9-9.5	9.5	10-10.5	12-13	9-9.5	9-9.5	11-12	8-9	7-8
Antimony	ug/kg	542	0.17 J	0.399 J	U	0.887	0.591	0.157 J	0.15 J	0.259 J	0.243 J	U
Arsenic	ug/kg	584	2.64	2.95	4.34	2.28	5.7	1.48 J	2.37	2.12	1.63	13
Barium	ug/kg	164,800	72.9	NA	56.4	111	96.6	107	101	109	104	100
Beryllium	ug/kg	6,320	0.00926	NA	0.323	0.292	0.0889	0.235	0.352	0.242	0.16	0.148
Cadmium	ug/kg	752	0.312	NA	0.649	0.397	0.327	0.18	0.355	0.213	0.228	0.192
Chromium	ug/kg	3.60E+08	6.77	NA	14.4	10.9	6.87	5.72	11.6	7.98	5.07	4.64
Cobalt	ug/kg	3,600	3.11	NA	6.52	3.68	3.23	2.15	3.74	3.03	2.45	1.56
Copper	ug/kg	91,600	11.7	NA	17.3	18.1	18.2	12.1	12.5	13.4	14	9.77
Lead	ug/kg	27,000	6.33	NA	7.96	6.04	3.45	1.91	3.92	2.83	1.79	1.44
Mercury	ug/kg	208	0.00666	NA	0.00189 J	0.00357 J	U	U	0.0103	0.0113	0.0122	0.00341 J
Nickel	ug/kg	13,041	9.66	NA	17	13.8	12	8.57	13	11.6	9.23	7.56
Selenium	ug/kg	520	U	NA	U	0.564	U	0.563	0.49	1.19	0.804	0.58
Silver	ug/kg	847	0.0456	NA	U	U	U	0.126	0.045 J	0.0403 J	0.177	0.032 J
Thallium	ug/kg	284	0.205 J	NA	U	U	U	U	U	U	U	U
Tin	ug/kg	--	0.748	NA	0.61	0.583	0.281	0.0128 J	0.176 J	0.223 J	U	0 J
Vanadium	ug/kg	--	10.2	NA	19.4	17.5	10.7	10.3	15.1	11.3	9.38	7.01
Zinc	ug/kg	--	20.6	NA	40.7	33.5	20.6	17.1	34.7	25.3	17.3	15.4

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 9A	Floor 10A	Floor 10A	Floor 11A	Floor 12A	Floor 13A	Floor 14A	Floor 15A	Floor 16A	Floor 17A
		Field Sampling Location:	F-9A	F-10A	F-10A	F-11A	F-12A	F-13A	F-14A	F-15A	F-16A	F-17A
		Sample Collection Date:	8/3/1999	8/2/1999	8/3/1999	8/3/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999
Dissolved Metals	**Units**	**RCL**	10	11-12	11-12	10-11	15	15	11	8	8	8-9
Antimony	ug/kg	542	U	0.195 J	NR	0.0268 J	0.0363 J	U	0.0268 J	U	U	NR
Arsenic	ug/kg	584	4.74	4.1	NR	1.97	1.9	17.7	5.56	1.43	5.36	NR
Barium	ug/kg	164,800	109	NA	35.9	111	114	110	62.1	113	60.5	23.7
Beryllium	ug/kg	6,320	0.335	NA	0.361	0.148	0.246	0.115	0.525	0.168	0.383	0.341
Cadmium	ug/kg	752	0.169	NA	0.28	0.156	0.145	0.0189 J	0.0348	0.108	0.123	0.0733
Chromium	ug/kg	3.60E+08	9.22	NA	12.5	4.57	7.24	3.72	18.5	5.29	13.8	12.7
Cobalt	ug/kg	3,600	3.72	NA	6.95	2.93	2.78	1.2	7.59	2.68	6.59	6.61
Copper	ug/kg	91,600	13.9	NA	28.9	11.4	13.8	10.4	12.7	13.5	21.9	19.9
Lead	ug/kg	27,000	3.75	NA	6.35	1.75	2.19	1.41	7.11	1.74	9.18	7.52
Mercury	ug/kg	208	U	NA	U	U	U	U	0.00397	U	0.00713	0.00102 J
Nickel	ug/kg	13,041	12.4	NA	20.5	9.15	10.3	6.36	20	9.18	18.6	18.6
Selenium	ug/kg	520	1.15	NA	1.94	0.858	0.911	0.741	U	0.433 J	0.431	0.0366 J
Silver	ug/kg	847	0.0665 J	NA	0.04 J	U	0.0462 J	0.0504 J	U	0.0548 J	0.0441 J	0.0137 J
Thallium	ug/kg	284	U	NA	0.194 J	0.243 J	0.315 J	U	U	0.555 J	U	U
Tin	ug/kg	--	0.632 J	NA	0.518 J	0.24 J	0.309 J	0.58 J	0.77	0.358 J	1.15	0.467 J
Vanadium	ug/kg	--	17.7	NA	17.9	7.12	11.6	5.75	21.7	8.61	18.2	18.7
Zinc	ug/kg	--	28	NA	50.6	19.6	23.8	14.2	37.1	16.8	43.6	32.8

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 1A	Floor 1B	Floor 2A	Floor 3A	Floor 4A	Floor 5A	Floor 6A	Floor 7A	Floor 8A	Floor 9A
		Field Sampling Location:	F-1A	F-1B	F-2A	F-3A	F-4A	F-5A	F-6A	F-7A	F-8A	F-9A
		Sample Collection Date:	7/22/1999	7/15/1999	7/22/1999	7/22/1999	7/23/1999	7/26/1999	7/27/1999	7/27/1999	7/27/1999	8/3/1999
Pesticide	**Units**	**RCL**	9-9.5	9.5	10-10.5	12-13	9-9.5	11-12	11-12	8-9	7-8	10
4,4-DDD	ug/kg	--	U	2.67	U	U	U	46.8	U	U	U	U
4,4-DDE	ug/kg	--	U	2.02	U	U	U	20.5	U	U	U	U
4,4-DDT	ug/kg	--	U	2.28	U	U	U	5.4	U	U	U	U
Aldrin	ug/kg	--	U	NR	U	U	U	U	U	U	U	U
Alpha-BHC	ug/kg	--	U	U	U	U	U	7.03	U	U	U	U
Alpha-chlordane	ug/kg	--	6.5	U	7.22	6.46	U	3.38	3.15	U	U	2.85
Beta-BHC	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Chlordane	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Delta-BHC	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Dieldrin	ug/kg	--	U	U	135	U	U	13.4	U	U	15.3	U
Endosulfan I	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Endosulfan II	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Endosulfan Sulfate	ug/kg	--	U	U	U	U	U	U	U	U	U	8.1
Endrin Aldehyde	ug/kg	--	U	U	U	U	U	U	U	U	U	U
Gamma-chlordane	ug/kg	--	U	U	4.09	U	U	U	U	U	U	U
Heptachlor	ug/kg	66	U	U	U	U	U	U	U	U	U	U
Heptachlor epoxide	ug/kg	8.2	1.02	U	U	U	U	U	U	U	U	U
Isodrin	ug/kg	--	10.1	U	U	U	U	U	U	U	U	15.8

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 10A	Floor 11A	Floor 12A	Floor 13A	Floor 14A	Floor 15A	Floor 16A	Floor 17A
		Field Sampling Location:	F-10A	F-11A	F-12A	F-13A	F-14A	F-15A	F-16A	F-17A
		Sample Collection Date:	8/3/1999	8/3/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999
Pesticide	**Units**	**RCL**	11-12	10-11	15	15	11	8	8	8-9
4,4-DDD	ug/kg	--	U	U	4.06	U	24.1	U	U	U
4,4-DDE	ug/kg	--	U	U	U	U	U	U	U	U
4,4-DDT	ug/kg	--	U	U	U	U	10.3	U	U	U
Aldrin	ug/kg	--	U	U	U	U	16.3	U	U	U
Alpha-BHC	ug/kg	--	U	U	U	U	U	U	U	U
Alpha-chlordane	ug/kg	--	10.5	U	U	U	6.77	163	9,310	2.98
Beta-BHC	ug/kg	--	U	U	U	U	U	U	U	U
Chlordane	ug/kg	--	U	U	U	U	U	807	43,900	U
Delta-BHC	ug/kg	--	U	U	15.6	U	U	U	U	U
Dieldrin	ug/kg	--	U	4.6	U	13.1	173	45.6	1,510	1.25
Endosulfan I	ug/kg	--	U	U	U	U	12	U	U	U
Endosulfan II	ug/kg	--	U	U	U	U	8.25	U	U	3.94
Endosulfan Sulfate	ug/kg	--	U	U	U	U	U	U	U	U
Endrin Aldehyde	ug/kg	--	U	U	U	U	U	U	U	2.99
Gamma-chlordane	ug/kg	--	U	U	U	U	4.04	115	6,020	1
Heptachlor	ug/kg	66	U	U	U	19.2	U	U	**74.4**	U
Heptachlor epoxide	ug/kg	8.2	U	U	U	U	U	U	U	0.656
Isodrin	ug/kg	--	U	U	U	U	U	U	U	U

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 1A	Floor 1B	Floor 2A	Floor 3A	Floor 4A	Floor 4A	Floor 5A	Floor 6A
		Field Sampling Location:	F-1A	F-1B	F-2A	F-3A	F-4A	F-4A	F-5A	F-6A
		Sample Collection Date:	7/22/1999	7/15/1999	7/22/1999	7/22/1999	7/22/1999	7/23/1999	7/26/1999	7/27/1999
SVOC	**Units**	**RCL**	9-9.5	9.5	10-10.5	12-13	9-9.5	9-9.5	11-12	11-12
1-Methylnaphthalene	ug/g	--	U	U	U	U	NA	U	U	U
1,5-Dimethylnaphthalene	ug/kg	--	U	490	U	U	U	NR	U	U
1,8-Dimethylnaphthalene	ug/kg	--	U	650	U	U	U	NR	U	U
1-Bromo-3-Fluorobenzene	ug/kg	--	U	3000	U	U	U	NR	U	U
1-Ethyl-2-Methylbenzene	ug/kg	--	U	U	U	U	U	NR	U	U
2,4-Dichlorophenol	ug/g	--	U	U	U	U	NA	U	U	U
2,4-Dimethylphenol	ug/g	--	U	0.383	U	U	NA	U	U	U
2-Methylnaphthalene	ug/g	--	U	U	U	U	NA	U	U	U
2-Methylphenol	ug/g	--	5.14	U	4.01	U	NA	U	U	U
4-Methylphenol/3-Methylphenol	ug/g	--	19.3	U	22.7	U	NA	U	U	U
Acetophenone	ug/g	--	U	0.0691	U	U	NA	U	U	U
Benzo[a]anthracene	ug/g	--	U	U	U	U	NA	U	U	U
Benzo[b]fluoranthene	ug/g	0.48	U	U	U	U	NA	U	U	U
Benzo[k]fluoranthene	ug/g	--	U	U	U	U	NA	U	U	U
Bis(2-ethylhexyl) phthalate	ug/g	--	U	1.65	3.06	U	NA	U	1.25	U
Chrysene	ug/g	0.14	U	U	U	U	NA	U	U	U
Fluoranthene	ug/g	--	U	U	U	U	NA	U	U	U
Naphthalene	ug/g	0.66	U	U	**12.4**	U	NA	U	U	U
Phenanthrene	ug/g	--	U	U	U	U	NA	U	U	U
Phenol	ug/g	2.2	**7.76**	U	U	U	NA	U	U	U
Pyrene	ug/g	54	U	U	U	U	NA	U	U	U

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 7A	Floor 8A	Floor 9A	Floor 10A	Floor 11A	Floor 12A	Floor 13A	Floor 14A	Floor 15A
		Field Sampling Location:	F-7A	F-8A	F-9A	F-10A	F-11A	F-12A	F-13A	F-14A	F-15A
		Sample Collection Date:	7/27/1999	7/27/1999	8/3/1999	8/3/1999	8/3/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999
SVOC	**Units**	**RCL**	8-9	7-8	10	11-12	10-11	15	15	11	8
1-Methylnaphthalene	ug/g	--	U	U	U	U	U	U	U	0.02	U
1,5-Dimethylnaphthalene	ug/kg	--	U	U	U	U	U	U	U	U	U
1,8-Dimethylnaphthalene	ug/kg	--	U	U	U	U	U	U	U	U	U
1-Bromo-3-Fluorobenzene	ug/kg	--	U	U	U	U	U	U	U	U	U
1-Ethyl-2-Methylbenzene	ug/kg	--	U	14,000	U	U	U	U	U	U	U
2,4-Dichlorophenol	ug/g	--	U	U	U	U	U	U	U	0.198	6.74
2,4-Dimethylphenol	ug/g	--	U	U	U	U	U	U	U	0.98	4.4
2-Methylnaphthalene	ug/g	--	U	U	U	U	U	U	U	0.0321	U
2-Methylphenol	ug/g	--	U	U	U	U	U	U	U	U	U
4-Methylphenol/3-Methylphenol	ug/g	--	U	U	1.78	U	2.61	U	2.04	0.128	U
Acetophenone	ug/g	--	U	U	U	U	U	U	U	0.304	U
Benzo[a]anthracene	ug/g	--	0.0185	U	U	U	U	U	U	U	U
Benzo[b]fluoranthene	ug/g	0.48	0.0281	U	U	U	U	U	U	U	U
Benzo[k]fluoranthene	ug/g	--	0.0281	U	U	U	U	U	U	U	U
Bis(2-ethylhexyl) phthalate	ug/g	--	0.0213	U	2.35	U	1.68	U	U	0.387	U
Chrysene	ug/g	0.14	0.021	U	U	U	U	U	U	0.0271	U
Fluoranthene	ug/g	--	0.041	U	U	U	U	U	U	0.0167	U
Naphthalene	ug/g	0.66	U	U	U	U	U	U	U	0.139	**1.38**
Phenanthrene	ug/g	--	0.0292	U	U	U	U	U	U	0.0154	U
Phenol	ug/g	2.2	U	U	U	U	**367**	U	**1.69**	0.699	**35.2**
Pyrene	ug/g	54	0.0312	U	U	U	U	U	U	0.0205	U

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 16A	Floor 17A
		Field Sampling Location:	F-16A	F-17A
		Sample Collection Date:	8/4/1999	8/4/1999
SVOC	**Units**	**RCL**	8	8-9
1-Methylnaphthalene	ug/g	--	U	U
1,5-Dimethylnaphthalene	ug/kg	--	U	U
1,8-Dimethylnaphthalene	ug/kg	--	U	U
1-Bromo-3-Fluorobenzene	ug/kg	--	U	U
1-Ethyl-2-Methylbenzene	ug/kg	--	25,000	U
2,4-Dichlorophenol	ug/g	--	U	U
2,4-Dimethylphenol	ug/g	--	U	0.979
2-Methylnaphthalene	ug/g	--	U	U
2-Methylphenol	ug/g	--	U	U
4-Methylphenol/3-Methylphenol	ug/g	--	U	U
Acetophenone	ug/g	--	U	U
Benzo[a]anthracene	ug/g	--	U	U
Benzo[b]fluoranthene	ug/g	0.48	U	U
Benzo[k]fluoranthene	ug/g	--	U	U
Bis(2-ethylhexyl) phthalate	ug/g	--	U	U
Chrysene	ug/g	0.14	U	U
Fluoranthene	ug/g	--	U	U
Naphthalene	ug/g	0.66	**1.36**	0.26
Phenanthrene	ug/g	--	U	U
Phenol	ug/g	2.2	**3.44**	U
Pyrene	ug/g	54	U	U

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 1A	Floor 1B	Floor 2A	Floor 3A	Floor 4A	Floor 4A	Floor 5A	Floor 6A	Floor 7A
		Field Sampling Location:	F-1A	F-1B	F-2A	F-3A	F-4A	F-4A	F-5A	F-6A	F-7A
		Sample Collection Date:	7/22/1999	7/15/1999	7/22/1999	7/22/1999	7/22/1999	7/23/1999	7/26/1999	7/27/1999	7/27/1999
VOC	**Units**	**RCL**	9-9.5	9.5	10-10.5	12-13	9-9.5	9-9.5	11-12	11-12	8-9
1,1-Dichloroethane	ug/kg	482	U	U	**2,800**	U	U	NA	U	U	**5,500**
1,1-Dichloroethene	ug/kg	5.0	**3,400**	U	U	U	U	NA	U	U	U
1,2,4-Trimethylbenzene	ug/kg	1,378	U	U	U	U	U	NA	U	U	**18,000**
1,3,5-Trimethylbenzene	ug/kg		U	U	U	U	U	NA	U	U	**13,000**
3-Ethyl-2-Methylheptane	ug/kg	--	U	U	U	U	U	NA	U	U	U
3-Methylnonane	ug/kg	--	U	U	U	U	U	NA	U	U	U
4-Methyl-2-pentanone	ug/kg	--	30,000	U	34,000	U	U	NA	U	U	11,000
Acetone	ug/kg	3,682	**14,000**	U	**22,000**	U	U	NA	U	U	U
Benzene	ug/kg	5.1	U	U	U	420	U	NA	**530**	U	**4,900**
Ethylbenzene	ug/kg	1,570	**13,000**	U	U	**2,800**	**2,900**	NA	**16,000**	**11,000**	**71,000**
Methylene Chloride	ug/kg	2.6	**3,000**	U	**3,800**	U	U	NA	U	U	U
Nonane	ug/kg	--	U	U	U	U	U	NA	U	U	U
Toluene	ug/kg	1,107	**4,700**	U	**2,600**	U	250	NA	U	U	**3,000**
Xylenes, Total	ug/kg	3,940	**41,000**	U	1,400	**8,900**	**14,000**	NA	**77,000**	**67,000**	**400,000**

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 2
SC Johnson Waxdale Facility
Former Waxdale Landfill Historic Analytical Detections
in Excavation Floor Samples (Saturated Media*)

		Field Site Identifier:	Floor 8A	Floor 9A	Floor 10A	Floor 11A	Floor 12A	Floor 13A	Floor 14A	Floor 15A	Floor 16A	Floor 17A
		Field Sampling Location:	F-8A	F-9A	F-10A	F-11A	F-12A	F-13A	F-14A	F-15A	F-16A	F-17A
		Sample Collection Date:	7/27/1999	8/3/1999	8/3/1999	8/3/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999	8/4/1999
VOC	**Units**	**RCL**	7-8	10	11-12	10-11	15	15	11	8	8	8-9
1,1-Dichloroethane	ug/kg	482	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	ug/kg	5.0	**1,500**	U	U	U	U	U	U	U	U	U
1,2,4-Trimethylbenzene	ug/kg	1,378	**52,000**	U	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	ug/kg		**24,000**	U	U	U	U	U	U	U	U	U
3-Ethyl-2-Methylheptane	ug/kg	--	11,000	U	U	U	U	U	U	U	U	U
3-Methylnonane	ug/kg	--	U	U	U	U	U	U	U	U	24,000	U
4-Methyl-2-pentanone	ug/kg	--	U	24,000	U	32,000	U	5,200	U	U	U	U
Acetone	ug/kg	3,682	U	**310**	U	**26,000**	U	610	U	**2,800**	U	U
Benzene	ug/kg	5.1	**1,300**	U	**2,000**	U	U	**110**	U	U	U	**680**
Ethylbenzene	ug/kg	1,570	**52,000**	**2,300**	510	**36,000**	U	**6,100**	290	**43,000**	**15,000**	**8,400**
Methylene Chloride	ug/kg	2.6	U	U	U	**3,600**	U	U	U	U	U	U
Nonane	ug/kg	--	36,000	U	U	U	U	U	U	U	U	U
Toluene	ug/kg	1,107	**2,300**	U	U	350	U	U	U	510	U	280
Xylenes, Total	ug/kg	3,940	**320,000**	2,400	1,400	**110,000**	1,600	**32,000**	**5,800**	**140,000**	**97,000**	**53,000**

* All floor samples collected below water table from dewatered excavation.
Sample depths in feet below ground surface
Only compunds detected in at least one sample are shown.
RCL = Soil-to-groundwater pathway residual contaminant level; obtained from WDNR RCL calculator, 2011-2012; "--" = no RCL listed
Values in **BOLD exceed RCL**
U - Not detected
J = Estimated concentration
NA = Not analyzed

Table 3
Former Waxdale Landfill 2010-11 Detected SVOCs, VOCs, Metals, and Pesticides in Shallow and Deep Wells

		SVOCs															
Well Name	Sampling Period	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-butyl phthalate	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
MW35D	September 2010	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U
MW35D(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW35D	September 2011	U	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U
MW35S	September 2010	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U
MW35S	September 2011	U	U	U	U	U	U	U	U	U	U	9.8	NR	U	U	U	U
MW35S(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW36D	September 2010	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U
MW36D	September 2011	U	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U
MW36S	September 2010	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U
MW36S	September 2011	U	U	U	U	U	U	U	U	0.24J	U	12	NR	U	0.27	U	U
MW36S(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW3S(R)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW3S(R)(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW3S(R)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW4D(R)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW4D(R)(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW4D(R)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW4D(R)(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW5S(R)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW5S(R)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW5S(R)(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW6D	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW6D	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW7D	September 2010	U	U	U	U	U	U	U	U	U	U	NR	U	U	U	U	U
MW7D(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW7D	September 2011	U	U	0.19	**0.27**	**0.27**	0.4J	0.24	*0.19J*	0.45	U	U	NR	U	0.46	U	U
MW7S	September 2010	0.67J	0.51J	U	U	U	U	U	U	U	0.35J	NR	U	2.5	U	0.3J	1.8
MW7S	September 2011	0.81J	1.2	3.2	**3**	**3.6**	2.5	1.8	**3.4**	0.6	0.35J	U	NR	8.9J	2.2	0.99	6.3
MW8S	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW8S(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW8S	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW8S(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Preventative Action Limit (PAL)		NEL	600	NEL	0.02	0.02	NEL	NEL	0.02	NEL	NEL	100	20	80	NEL	NEL	50
Enforcement Standard (ES)		NEL	3000	NEL	0.2	0.2	NEL	NEL	0.2	NEL	NEL	1000	100	400	NEL	NEL	250

**Analytes with no detections in September 2011 are not included in the above table
ug/L = micrograms per liter
NR = Not required for this sampling event.
Bold = Exceeds the ES
Italic = Exceeds the PAL
URS QA/QC Flags and Qualifiers:
U or UJ = Analyte was not detected at or above the reporting limit.
J = Result is an estimated value below the reporting limit.
(FD) = Field Duplicate Sample

Table 3
Former Waxdale Landfill 2010-11 Detected SVOCs, VOCs, Metals, and Pesticides in Shallow and Deep Wells

		VOCs								Metals							Pesticides
Well Name	Sampling Period	1,1-Dichloroethane	Benzene	Chlorobenzene	Chlorobenzene	Chloroethane	Dichlorodifluoromethane	Trichlorofluoromethane	Trichlorofluoromethane	Antimony, dissolved	Barium, dissolved	Copper, dissolved	Iron, dissolved	Lead, dissolved	Nickel, dissolved	Vanadium, dissolved	4,4-DDE
MW35D	September 2010	U	U	NR	U	U	U	NR	U	U	20	U	*0.18J*	U	U	1.6J	U
MW35D(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U
MW35D	September 2011	U	U	U	NR	U	U	U	NR	U	20	U	*0.18J*	U	U	U	U
MW35S	September 2010	U	*1.6*	NR	U	U	30	NR	U	U	*700*	U	0.046J	U	3.2J	*6.9*	U
MW35S	September 2011	0.58J	0.23J	U	NR	1.8	16	U	NR	U	*570*	U	U	U	1.4J	3.8J	U
MW35S(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW36D	September 2010	U	U	NR	U	UJ	U	NR	UJ	U	18	U	U	U	U	2J	U
MW36D	September 2011	U	U	U	NR	U	U	U	NR	U	15	U	U	U	U	U	U
MW36S	September 2010	0.5J	U	NR	U	U	U	NR	1.1	U	160	U	**10**	U	12	*6.1*	U
MW36S	September 2011	0.77J	U	U	NR	1.3	6.4	3.5	NR	*5.8J*	140	1.5J	**7.4**	**20**	15	2J	U
MW36S(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	U
MW3S(R)	September 2010	U	U	NR	U	U	U	NR	U	U	41	U	U	U	U	2.7J	U
MW3S(R)(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	U	42	U	U	U	U	2.8J	NR
MW3S(R)	September 2011	U	U	U	NR	U	U	U	NR	U	41	U	U	U	U	U	U
MW4D(R)	September 2010	U	U	NR	U	U	U	NR	U	U	21	U	0.14J	U	U	2.3J	NR
MW4D(R)(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW4D(R)	September 2011	U	U	U	NR	U	U	U	NR	U	21	U	0.13J	U	U	U	NR
MW4D(R)(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	U	22	U	0.087J	U	U	U	NR
MW5S(R)	September 2010	U	U	NR	0.7J	1	U	NR	U	U	50	U	*0.22*	U	U	4.1J	U
MW5S(R)	September 2011	U	U	0.66J	NR	1.4	U	U	NR	U	50	U	**1.7**	U	U	U	U
MW5S(R)(FD)	September 2011	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW6D	September 2010	U	U	NR	U	U	U	NR	U	U	32	U	0.04J	U	U	2.4J	NR
MW6D	September 2011	U	U	U	NR	U	U	U	NR	U	30	U	U	U	U	U	NR
MW7D	September 2010	U	U	NR	U	U	U	NR	U	NR	NR	NR	NR	NR	NR	NR	NR
MW7D(FD)	September 2010	U	U	NR	U	U	U	NR	U	NR	NR	NR	NR	NR	NR	NR	NR
MW7D	September 2011	U	U	U	NR	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW7S	September 2010	U	U	NR	U	U	1	NR	U	NR	NR	NR	NR	NR	NR	NR	U
MW7S	September 2011	U	U	U	NR	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	0.034J
MW8S	September 2010	U	U	NR	U	U	U	NR	U	U	100	U	U	U	U	3J	U
MW8S(FD)	September 2010	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
MW8S	September 2011	U	U	U	NR	U	U	U	NR	U	95	U	0.042J	U	U	U	U
MW8S(FD)	September 2011	U	U	U	NR	U	U	U	NR	NR	NR	NR	NR	NR	NR	NR	NR
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Preventative Action Limit (PAL)		85	0.5	NEL	20	80	200	NEL	698	1.2	400	1300	0.15	1.5	20	6	NEL
Enforcement Standard (ES)		850	5	NEL	100	400	1000	NEL	3490	6	2000	130	0.3	15	100	30	NEL

**Analytes with no detections in Septer
ug/L = micrograms per liter
NR = Not required for this sampling eve
Bold = Exceeds the ES
Italic = Exceeds the PAL
URS QA/QC Flags and Qualifiers:
U or UJ = Analyte was not detected at
J = Result is an estimated value below
(FD) = Field Duplicate Sample

Table 4
SUMMARY OF GROUNDWATER ELEVATION DATA
SC Johnson Waxdale Facility - Former Waxdale Landfill

					Sep-06		Sep-07		Sep-08		Sep-09		Sep-10		Sep-11	
Well Name	TOC (ft)	Ground Elev.	Top of Screen Elev.	Bottom of Screen Elev.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.*	Depth	Elev. Calc.*	Depth	Elev. Calc.*	Depth	Elev. Calc.*
MW3S(R)	675.24	672.64	668.64	664.64	8.69	666.33	4.38	670.64	8.29	666.95	7.88	667.36	8.3	666.94	9.00	659.64
MW4D(R)	674.73	672.53	648.53	624.53	3.66	670.98	0.1	674.54	1.71	673.02	1.01	673.72	0.68	674.05	2.85	645.68
MW5S	677.26	674.47	664.47	654.47	10.28	666.75	9.17	667.86	9.92	667.34	10	667.26	9.93	667.33	10.83	653.64
MW6D	676.73	674.53	650.53	626.53	4.25	672.45	2.4	674.30	3.99	672.74	3.32	673.41	3.02	673.71	5.14	645.39
MW7S	678.86	676.33	670.33	664.33	9.46	669.31	5.3	673.47	6.67	672.19	8.73	670.13	9.71	669.15	11.75	658.58
MW7D	678.61	676.32	643.32	610.32	7.85	670.65	6.21	672.29	7.2	671.41	6.63	671.98	6.35	672.26	8.03	635.29
MW8S	677.87	674.37	669.37	664.37	8.55	669.23	6.13	671.65	8.34	669.53	8.08	669.79	8.05	669.82	6.33	663.04
MW35S	676.18	673.78	661.78	649.78	6.43	669.23	3.3	672.36	5.81	670.37	6.11	670.07	6.34	669.84	7.05	654.73
MW35D	675.88	673.78	647.78	621.78	4.11	671.43	1.6	673.94	3.12	672.76	2.41	673.47	2.13	673.75	4.25	643.53
MW36S	678.42	676.34	663.34	650.34	9.4	668.98	8.24	670.14	9.02	669.40	9.17	669.25	9.13	669.29	9.58	653.76
MW36D	678.65	676.47	646.47	616.47	6.92	671.65	4.36	674.21	5.88	672.77	5.15	673.50	4.81	673.84	6.95	639.52

NR = No Reading
TOC = Top of Casing
* = Top of Casing Elevation re-surveyed in June 2008

					Jun-02		Dec-02		Sep-03		Sep-04		Sep-05	
Well Name	TOC (ft)	Ground Elev.	Top of Screen Elev.	Bottom of Screen Elev.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.
MW3S(R)	675.24	672.64	668.64	664.64	7.21	667.81	7.61	667.41	8.98	666.04	8.94	666.1	10.15	664.87
MW4D(R)	674.73	672.53	648.53	624.53	0	674.64	2.66	671.98	4.9	669.74	2.43	672.2	6.37	668.27
MW5S	677.26	674.47	664.47	654.47	9.45	667.58	9.66	667.37	10.23	666.80	10.38	666.7	11.48	665.55
MW6D	676.73	674.53	650.53	626.53	1.82	674.88	4.87	671.83	7.14	669.56	4.71	672	8.54	668.16
MW7S	678.86	676.33	670.33	664.33	8.11	670.66	5.35	673.42	9.08	669.69	8.97	669.8	11.32	667.45
MW7D	678.61	676.32	643.32	610.32	5.75	672.75	7.88	670.62	9.15	669.35	7.5	671	10.58	667.92
MW8S	677.87	674.37	669.37	664.37	5.1	672.68	7.97	669.81	8.87	668.91	8.43	669.4	10.2	667.58
MW35S	676.18	673.78	661.78	649.78	2.66	673.00	5.05	670.61	6.22	669.44	6.2	669.5	7.78	667.88
MW35D	675.88	673.78	647.78	621.78	0.92	674.62	3.95	671.59	6.18	669.36	3.27	672.3	7.73	667.81
MW36S	678.42	676.34	663.34	650.34	8.12	670.26	9.23	669.15	9.23	669.15	9.39	669	10.04	668.34
MW36D	678.65	676.47	646.47	616.47	3.98	674.59	6.85	671.72	8.91	669.66	6.5	672.1	10.56	668.01

NR = No Reading
TOC = Top of Casing

Table 4
SUMMARY OF GROUNDWATER ELEVATION DATA
SC Johnson Waxdale Facility - Former Waxdale Landfill

					Mar-01		Jun-01		Sep-01		Dec-01	
Well Name	TOC (ft)	Ground Elev.	Top of Screen Elev.	Bottom of Screen Elev.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.
MW3S(R)	675.24	672.64	668.64	1.174	7.33	667.7	7.22	667.8	7.55	667.5	7.42	667.6
MW4D(R)	674.73	672.53	648.53	624.53	0	674.6	0	674.6	1.6	673	0.2	674.4
MW5S	677.26	674.47	664.47	654.47	9.32	667.7	9.43	667.6	9.19	667.8	9.11	667.9
MW6D	676.73	674.53	650.53	626.53	NR	NR	1.78	675.2	4.25	672.7	2.45	674.5
MW7S	678.86	676.33	670.33	664.33	5.53	673.2	4.55	674.2	5	673.8	5.5	673.3
MW7D	678.61	676.32	643.32	610.32	5.91	672.6	5.55	672.9	7.4	671.1	6.27	672.2
MW8S	677.87	674.37	669.37	664.37	8.1	669.7	5.03	672.7	7.42	670.4	5.35	672.4
MW35S	676.18	673.78	661.78	649.78	2.49	673.2	2.56	673.1	2.99	672.7	3.24	672.4
MW35D	675.88	673.78	647.78	621.78	1.21	674.3	0.4	675.1	2.95	672.6	1.82	673.7
MW36S	678.42	676.34	663.34	650.34	8.32	670.1	8.03	670.3	8.12	670.3	8.66	669.7
MW36D	678.65	676.47	646.47	616.47	3.85	674.7	3.62	674.9	6.04	672.5	4.43	674.1

NR = No Reading
TOC = Top of Casing

					Mar-00		Jun-00		Sep-00		Dec-00	
Well Name	TOC (ft)	Ground Elev.	Top of Screen Elev.	Bottom of Screen Elev.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.
MW3S(R)	675.24	672.64	668.64	664.64	7.61	667.4	7.47	667.5	7.15	667.9	7.56	667.5
MW4D(R)	674.73	672.53	648.53	624.53	2.9	671.7	0.1	674.5	2.18	672.5	na	na
MW5S	677.26	674.47	664.47	654.47	9.88	667.1	9.45	667.6	9.35	667.7	9.32	667.7
MW6D	676.73	674.53	650.53	626.53	5.43	671.5	2.6	674.4	4.65	672.3	3.88	673.1
MW7S	678.86	676.33	670.33	664.33	5.23	673.5	6.16	672.6	4.65	674.1	5.53	673.2
MW7D	678.61	676.32	643.32	610.32	8.37	670.1	6.37	672.1	7.77	670.7	7.15	671.3
MW8S	677.87	674.37	669.37	664.37	7.45	670.3	5.79	672	7.41	670.4	6	671.8
MW35S	676.18	673.78	661.78	649.78	6	669.7	3.08	672.6	3.03	672.6	4	671.7
MW35D	675.88	673.78	647.78	621.78	4.1	671.4	1.21	674.3	3.31	672.2	2.49	673.1
MW36S	678.42	676.34	663.34	650.34	10.22	668.2	7.8	670.6	8.55	669.8	9.03	669.3
MW36D	678.65	676.47	646.47	616.47	7.21	671.4	4.3	674.3	6.54	672	5.65	672.9

NR = No Reading
TOC = Top of Casing

Table 4
SUMMARY OF GROUNDWATER ELEVATION DATA
SC Johnson Waxdale Facility - Former Waxdale Landfill

					Mar-99		Jun-99		Sep-99		Dec-99	
Well Name	TOC (ft)	Ground Elev.	Top of Screen Elev.	Bottom of Screen Elev.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.	Depth	Elev. Calc.
MW3S(R)	675.24	672.64	668.64	664.64	6.85	668.2	7.01	668.1	11.52	663.5	7.58	667.4
MW4D(R)	674.73	672.53	648.53	624.53	0.3	674.4	0.86	673.8	7.63	667	4.82	669.8
MW5S	677.26	674.47	664.47	654.47	8.63	668.2	9.24	667.6	12.33	664.7	9.72	667.3
MW6D	676.73	674.53	650.53	626.53	2.95	673.9	3.41	673.4	9.1	667.9	6.34	670.6
MW7S	678.86	676.33	670.33	664.33	4.49	674.1	5.24	673.4	9.72	669.1	4.75	674
MW7D	678.61	676.32	643.32	610.32	6.1	672.3	6.14	672.2	10.49	668	9.4	669.1
MW8S	677.87	674.37	669.37	664.37	6.13	670.4	6.52	670	10.17	667.6	9.54	668.2
MW35S	676.18	673.78	661.78	649.78	**	**	**	**	12.86	662.8	7.51	668.2
MW35D	675.88	673.78	647.78	621.78	**	**	**	**	7.72	667.8	7.95	667.6
MW36S	678.42	676.34	663.34	650.34	**	**	**	**	10.55	667.8	10.72	667.7
MW36D	678.65	676.47	646.47	616.47	**	**	**	**	10.68	667.9	8.98	669.6

NR = No Reading
TOC = Top of Casing
** = Wells had not been constructed yet