

Richard Kowalski

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CERTIFICATION

As required by N.J.A.C. 7:26B-1.6(c)

Any person making a submission to the Department required by this chapter and pursuant to N.J.A.C. 7:26E, shall include the following signatures and notarized certification, for each technical submittal. Additionally, the certification shall indicate the case name and address, case number, type of documents submitted, e.g. Remedial Action Report, for each technical submittal.

Type of Document: MW-55 Area Supplemental Information**Case Name:** Former Delphi Interior & Lighting System Division, General Motors Corporation**Case Address:** 1445 Parkway Avenue, Trenton, New Jersey 08628**Case Number:** ISRA Case No. E97070

An individual who is familiar with the Industrial Establishment through on-site observation must sign the certification. The individual must be in a position of authority that can attest to the accuracy of the response to each question. When the situations arise, the certification shall be executed as follows:

1. For a corporation or limited liability company, by a principal executive officer of at least the level of Vice President;
2. For a partnership or sole proprietorship, by a general partner of the proprietor, respectively;
3. For a municipality, state, Federal or other public agency, by either a principal executive officer or ranking elected official; or
4. By a duly authorized representative of a corporation, partnership, sole proprietorship, municipality, state or Federal or other public agency, as applicable. A person is deemed to be a duly authorized representative if the person is authorized in writing by an individual described in 1, 2, or 3 above and the authorization meets the following criteria:
 - The authorization specifies either an individual or a position having responsibility for the overall operation of the industrial establishment or activity, such as the position of plant manager, or superintendent or person of equivalent responsibility (a duly authorized representative may thus be either a named individual or any individual occupying a named position);
 - The written authorization is submitted to the Department; and
 - If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the industrial establishment or activity, a new authorization satisfying the requirements listed above shall be submitted to the Department prior to, or together with, any reports, information, or applications to be signed by an authorized representative.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of N.J.S.A. 13:1K-6 et seq., I am personally liable for the penalties set forth at N.J.S.A. 13:1K-13.

Typed/Printed Name William McFarland Title REMEDIAL DIRECTOR

Signature William J. McFarland Date JUNE 12th, 2009

Sworn to and Subscribed Before Me

On this 12th day of June 20 09

Allicia Najor
Notary

ALLICIA NAJOR
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF MACOMB
My Commission expires April 3, 2015
Acting in the County of Macomb

Confidential under FOIA

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MEMORANDUM

15 June 2009
File No. 70613-100

TO: General Motors Corporation
Geraldine Barnuevo

FROM: Haley & Aldrich, Inc.
Douglas C. Allen, P.G. and Jeffrey L. Duncan, P.E.

SUBJECT: MW-55 Area Supplemental Information
Former Delphi Interior and Lighting Systems Division
1445 Parkway Avenue, Ewing Township, Mercer County, New Jersey
ISRA Case No. E97070

Haley & Aldrich, Inc. (Haley & Aldrich) has reviewed information regarding the occurrence of tetrachloroethene (PCE) at the Former Delphi Interior and Lighting Systems Division Facility (Site) located in Ewing Township, New Jersey, and concludes the Site is not likely the source of PCE-contamination, and that the PCE detected in off-site monitoring wells MW-55 and MW-55A is likely from an off-site source. In an electronic communication on 29 May 2009, the New Jersey Department of Environmental Protection (NJDEP) expressed concern regarding the presence of PCE in off-site monitoring well MW-55, located in a wooded area east of the Site's eastern property boundary. This memorandum provides an overview of the on-site and off-site distribution of PCE that is the basis for our conclusions.

In a letter from General Motors (GM) to NJDEP dated 28 May 2009, additional information was provided to further describe the groundwater conditions and location of off-site monitoring well MW-55, specifically the distance from the monitoring well to The Children's Center and Preschool of Ewing, LLC located at 1243 Parkway Avenue (The Children's Center). The letter provided the following information:

- Analytical results indicate that the concentration of chlorinated solvents in groundwater collected from MW-55 slightly exceed the NJDEP Vapor Intrusion Guidance (VIG) Groundwater Screening Levels (GSLs);
- Methyl tertiary butyl ether (MTBE) was detected in groundwater collected from MW-55, which indicates a source unrelated to the Site; and,
- No additional investigations undertaken by GM were recommended, due to the presence of contaminants unrelated to former GM operations (MTBE), and the presence of trichloroethene (TCE) in MW-55 groundwater which is attributable to past and ongoing releases from upstream sources to the Gold Run surface water system.

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In the 29 May 2009 communication, NJDEP provided additional comments regarding the presence of contaminants in MW-55 groundwater. The comments identified that either groundwater sampling from a location within 100 ft of The Children's Center or completion of a soil vapor intrusion (SVI) investigation at the day care facility would be required to evaluate the presence of PCE. The NJDEP noted that:

- TCE was detected in drums excavated and removed from the Drum Removal Area located to the southwest of MW-55; and,
- The edge of the TCE and PCE plume has not been adequately delineated since MW-55 does not define the eastern plume margin.

Details regarding the presence or absence of PCE in Site soil, sediment, and groundwater are provided below, along with a discussion of potential off-site sources that may contribute to contaminants detected in MW-55 groundwater. Discussion regarding the presence and distribution of TCE in soil, sediment, and groundwater can be found in the Groundwater Investigation Summary Report by Haley & Aldrich, May 2009.

ON-SITE DISTRIBUTION OF PCE

The on-site distribution of PCE in soil and sediment is summarized on Figure 1. In general, detections of PCE in on-site soil and sediment are restricted to three areas:

- Sediment samples collected from Cold Run Pond (PS-17 and PS-18), with detections ranging in concentration from 0.076 mg/Kg (estimated) to 0.44 mg/Kg. PS-17 and PS-18 were located in the northern portion of the Pond near the Parkway Avenue storm sewer outfall. Similar to the elevated concentrations of TCE detected in the pond sediment, these results are consistent with an off-site source entering the surface water system from the storm sewer;
- Soil samples collected in the vicinity of the former xylene-based-solvent, above-ground storage tank area. The highest concentration (15 mg/Kg) was detected in soil collected from 7.5 to 8 ft below ground surface in boring GSO10. Samples collected above and below (0.5 to 1 ft and 16 to 16.5 ft below ground surface) did not have detectable concentrations of PCE. Therefore, the elevated PCE result in this area is isolated to this area; and,
- Soil samples collected in the vicinity of the former oil-water separator. The highest concentration (1.3 mg/Kg) was detected in a soil sample collected from 10 to 10.5 ft below ground surface at boring location MOA-B-S6. Lower concentrations (typically less than 0.2 mg/Kg) were detected in soil collected from surrounding borings. Therefore, the elevated PCE result in this area is isolated to this area.

In addition to the areas described above, PCE has also been detected at one location beneath the former plant floor slab (Plater Pit 10; 1.6 mg/Kg), and, at concentrations less than or equal to 1 mg/Kg, in the former UST area and south of the former wastewater treatment facility. PCE has not been detected in the majority of 485 (including 27 duplicates; 18 detects ranging from 0.7J mg/Kg to 15 mg/Kg¹) soil samples analyzed for PCE during various phases of investigation at the Site.

¹ Note: The 15 mg/Kg is an outlier. The next highest concentration is 1.6.

The distribution and occurrence of PCE in on-site groundwater is limited and does not follow the distribution of PCE detected in soil. Groundwater analytical results for August and November 2008 overburden groundwater monitoring are summarized on Figure 2 and indicate the following:

- PCE was detected in a groundwater sample collected from monitoring well MW-38 (0.4 µg/L) located adjacent to Gold Run Pond;
- PCE was detected in groundwater samples collected from MW-33 and MW-35 (3.7 µg/L and 1.3 µg/L, respectively) located along the eastern property boundary; and,
- PCE was not detected in groundwater samples in the vicinity of PCE detections in soil, such as the former xylene-based solvent storage tank area, former UST area, former plant slab, former oil-water separator area, or former wastewater treatment facility.

The off-site groundwater concentrations of PCE observed at MW-55 and MW-55A ranged from 5 to 5.3 µg/L, and 0.7 to 2.9 µg/L, respectively. PCE was not detected in groundwater samples collected from the off-site couplet MW-56 and MW-56A.

Similar to TCE, the highest on-site concentrations of dissolved PCE were detected in bedrock groundwater. Groundwater analytical results for August and November 2008 bedrock groundwater monitoring are summarized on Figure 3 and, in summary, are:

- PCE was detected in groundwater samples collected from bedrock monitoring wells MW-16B, MW-37A, MW-37B, MW-38A, and MW-39A in the vicinity of Gold Run Pond ranging in concentration from 0.6 µg/L to 3.8 µg/L. Similar to TCE, the concentration of PCE decreases along bedrock strike in the direction moving away from Gold Run Pond; and,
- PCE was detected in bedrock monitoring wells MW-23 and MW-33A (3.8 µg/L and 3.1 µg/L, respectively) in the vicinity of the former drum burial area. The area history and analytical data are discussed in detail below.

The former drum burial area, referred to as Memorandum of Agreement Area A (MOA Area A), is an undeveloped area located east of Gold Run and west of Sylvia Street. No manufacturing operations occurred in this area. During Site investigation activities in 1993, a former Delphi employee indicated that approximately 40 drums of barium-chromate waste were buried east of Gold Run. According to plant personnel, the barium chromate was likely related to a failed effort to produce a commercial product (yellow pigment) through the reaction of a barium compound with chromic acid.

Following investigation activities, GM removed and appropriately disposed of 98 drums, and contaminated soil and dewatering water from an excavation completed in 1996. As part of the removal activity, GM collected and analyzed samples from representative drums, excavated soil for waste characterization purposes, post-excavation confirmation samples, and water removed from the excavation during dewatering.

Analytical results from the 1996 excavation activities indicate this area of the Site is not the source of the PCE presently detected in the former drum burial area bedrock groundwater. The analytical results included the following:

- PCE was not detected in samples collected from drum contents. The contents of 11 drums were analyzed for volatile organic compounds (VOCs), including PCE. The majority of the PCE-detection limits were approximately 1 mg/Kg. However, for Drum 15, due to elevated TCE concentration (500,000 mg/Kg), the detection level for PCE was elevated to 6,000 mg/Kg. Although this drum had an elevated detection limit for PCE, the sample did not show a detectable level of PCE. The absence of PCE in the other drums and in the process at the Site confirm the drums were not a source of PCE;
- PCE was not detected in the soil that had been surrounding the drums. PCE analytical results from three grab samples of the excavated soil were non-detect (approximately 0.15 mg/Kg detection limit). For waste characterization purposes, a composite of the grab samples was subjected to the toxicity characteristic leaching procedure (TCLP) and the leachate was analyzed for VOCs. PCE was not detected in the leachate;
- PCE was not present in post-excavation confirmation soil samples. Sidewall and bottom excavation soil samples (eight samples from 2 to 7.5 ft below ground surface) were analyzed for VOCs. PCE was not detected (approximately 0.15 mg/Kg detection limit) in any of the samples; and,
- Low concentrations of PCE were detected in the water evacuated from the open-excavation during the drum removal activity. PCE was not detected in excavation water prior to dewatering efforts. Immediately following the start of the pumping activities, the concentration of PCE in the excavation water was approximately 2 µg/L at two locations. Analytical results for samples collected from the temporary storage tanks that received the pumped water indicated the concentration in the evacuated water decreased with time. The concentration decreased from 18 µg/L in the first tank filled, to 1 µg/L in the second tank and to 0.7J µg/L in the third.

Following the backfilling of the excavation with clean soil, GM installed overburden monitoring well MW-21. This well is approximately 7 ft west (the assumed direction of groundwater flow at the time) of the western wall of the former drum burial area. Subsequent monitoring wells have been installed in the general vicinity of this area including MW21A, MW-23, MW-24, MW-25, MW-33/33A, MW-34/34A, and MW-35/35A.

Overburden and bedrock monitoring wells installed in the former drum burial area have low concentrations of TCE and PCE in groundwater. The concentrations of PCE in monitoring wells MW-23, MW-33, MW-33A, and MW-35 are less than 5 µg/L (0.4 to 4.1 µg/L) which is not indicative of a nearby source area. Although barium chromate was the primary content of the buried drums, and barium and chromium were detected at high concentrations in excavation soils and excavation water, barium and chromium are not presently detected above background concentrations in the former drum burial area monitoring wells, and post-excavation sample results for barium and chromium concentrations following soil removal in this area are below soil remediation standards (N.J.A.C. 7:26D). This confirms that any soil and groundwater impact from the buried drums was adequately remediated. Therefore, the TCE and PCE concentrations present in groundwater in this area are unrelated to the drum contents.

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Overburden groundwater elevation contours presented in the Groundwater Investigation Summary Report (Figures 7 and 8 from that report are included with this memo for the readers' convenience) indicate the overburden groundwater flow direction in the vicinity of MW-55 is to the south-southeast. Therefore, MW-55 is not down-gradient from the former drum burial area, but rather is side-gradient. Monitoring well MW-56, located south of MW-55, is considered approximately down-gradient from the former drum burial area. PCE has not been detected in groundwater samples collected from MW-56 or MW-56A, and TCE has been detected at concentrations less than the New Jersey Groundwater Quality Standard of 1 µg/L.

OFF-SITE POTENTIAL SOURCES

The above information demonstrates the Site is not the source of PCE in MW-55 and MW-55A. Several potential off-site sources have been identified through file reviews of known contaminated sites in the vicinity of the Site. The potential sources are shown on Figure 4 and include:

- The 29 May 2009 communication from NJDEP incorrectly stated that the NAWC facility located upstream of the Site does not have PCE contamination. The "Final Summary Report for the Spring 2007 Annual Groundwater Sampling Event for the Former Naval Air Warfare Center" by ECOR Solutions, Inc., dated 25 September 2007 documents that PCE was detected in groundwater samples collected from NAWC monitoring wells 4BR (0.56 µg/L estimated), 5BR (3.1 µg/L), 7BR-41 (0.65 µg/L estimated), 7BR-46 (0.64 µg/L estimated), 7BR-51 (0.62 µg/L estimated), 24BR (6.9 µg/L), 46BR (0.43 µg/L estimated), and 68BR-F (2.7 µg/L estimated). With the exception of 5BR, groundwater analytical results from these wells also include concentrations of TCE at concentrations exceeding the GWQS by several orders-of-magnitude;
- A "Remedial Investigation Report Addendum" by SECOR International dated October 2008 for an automobile service station located at 1252 Parkway Avenue, immediately northeast of the Site at the intersection of Parkway Avenue and Scotch Road, reports petroleum-related compounds (benzene, toluene, ethylbenzene, xylene and MTBE), as well as PCE (ND to 2 µg/L) and TCE (ND to 1.1 µg/L) have been detected in groundwater samples collected from monitoring wells installed at the former service station. Groundwater elevation contours provided in the report (Attachment 1) reports the overburden groundwater flow is to the south-southeast; and,
- Two dry cleaning operations are present in the immediate vicinity of the Site and along the Parkway Avenue/Scotch Road storm sewer system, which discharge to Gold Run Pond. Greenpia Cleaners is located at 1400 Parkway Avenue and Captain Dry Clean is located at 37 Scotch Road. Both establishments provide in-house dry cleaning services. Although solvent use and storage at these dry cleaning establishments are unknown, dry cleaning operations typically use PCE as a cleaning agent.

CONCLUSIONS

Information regarding the presence of TCE and PCE in the vicinity of MW-55 confirms that GM's Former Delphi Site is not the source. This conclusion is made based on the following observations:

- The Groundwater Investigation Summary Report prepared by Haley & Aldrich in May 2009 concludes the suspected source of TCE in groundwater in the vicinity of Gold Run Pond and

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potentially elsewhere on-site is the historic and ongoing release of TCE from the Parkway Avenue storm sewer to Gold Run Pond. The distribution of PCE in bedrock groundwater in the vicinity of Gold Run Pond mirrors the distribution of TCE, and likely has a similar provenance;

- While TCE and PCE are recently detected in groundwater in the vicinity of the former drum burial area, the source of the TCE and PCE currently in the monitoring wells in this area is not from the Site. Contaminated soil in this area was adequately removed in 1996. PCE was not detected in soils removed as part of the remediation, and both PCE and TCE were not detected in post-excavation samples. The presence of TCE and PCE in water evacuated from the excavation is likely from a source other than the drum contents, such as the impacted groundwater in the vicinity of Gold Run Pond;
- MW-55 is not downgradient of Site operations, including the drum burial area. The overburden groundwater flow direction in the vicinity of the Site's eastern property boundary is to the south-southeast. Therefore, the former drum burial area is side-gradient from, not up-gradient to, MW-55 and the wooded area surrounding MW-55. Monitoring well MW-56 is generally down-gradient from the former drum burial area and does not contain concentrations of PCE or TCE exceeding GWQS;
- TCE and PCE are present in groundwater at the NAWC facility northwest of the Site and the automobile service center located immediately northeast of the Site near the intersection of Parkway Avenue and Scotch Road;
- Potential off-site sources of PCE include dry cleaning operations along Parkway Avenue and Scotch Road. Surface run-off from these areas discharge to Gold Run Pond; and,
- The presence of MTBE in monitoring well MW-55 confirms a potential off-site source of contaminants.

Please call with any questions or comments regarding this memorandum.

Attachments:

- Figure 1: PCE in Soil and Sediment
- Figure 2: PCE in Overburden Groundwater
- Figure 3: PCE in Bedrock Groundwater
- Figure 4: Site Vicinity Map
- GISR Figure 7: Groundwater Contours in Overburden (August 2008)
- GISR Figure 8: Groundwater Contours in Overburden (November 2008)
- Attachment 1: Former Service Station Groundwater Elevation Contour Map (September 2008)

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LEGEND
TETRACHLOROETHENE (PCE)
CONCENTRATION IN SEDIMENT (IN mg/Kg)

- ND
- < 1

TETRACHLOROETHENE (PCE)
CONCENTRATION IN SOIL (IN mg/Kg)

- ND
- < 1
- >= 1 AND < 10
- >= 10

NOTES:
1. BASE MAP IS FROM A MAP ENTITLED "ALTA/ACSM LAND TITLE SURVEY FOR GENERAL MOTORS CORPORATION, 1445 PARKWAY AVENUE, TRENTON, N.J." DATED 8/02/93, LAST REVISED 10/19/93, PREPARED BY ROBERT W. ENT, INC.

DEED REFERENCE : DEED BOOK 4512, PAGE 252 & c..
MAP REFERENCE : "PLAN OF SURVEY AND MINOR SUBDIVISION OF LOT 1, BLOCK 343, GM CORPORATION SITE SITUATE IN EWING TOWNSHIP, MERCER COUNTY, NEW JERSEY", DATED 12/18/01, REVISED TO 3/27/02, PREPARED BY MASER CONSULTING, P.A.

HORIZONTAL DATUM IS BASED ON THE ABOVE REFERENCED DEED.
MONITOR WELL LOCATIONS PREPARED BY GERALD G. DEGROAT L.S.
SCHOOLEY'S MOUNTAIN, NEW JERSEY 07870
N.J. LAND SURVEYOR LIC. NO. 26791
NAMED "MONITOR WELL LOCATIONS, TOWNSHIP OF EWING, MERCER COUNTY, NEW JERSEY"

LAST REVISED OCTOBER 21, 2008

BENCH MARK - N.J.G.S. MON. 11 B 1
ELEVATION 131.49' (NAVD 1988)
HORIZONTAL DATUM - N.J. STATE PLANE COORDINATE SYSTEM (NAD 1983)

2. mg/Kg - MILLIGRAMS PER KILOGRAM

HALEY & ALDRICH

GENERAL MOTORS CORPORATION
TRENTON, NEW JERSEY
ISRA CASE NO. E97070

PCE IN SOIL AND SEDIMENT

SCALE: AS SHOWN
JUNE 2009

FIGURE 1

NOTES:
1. BASE MAP IS FROM A MAP ENTITLED "ALTA/ACSM LAND TITLE SURVEY FOR GENERAL MOTORS CORPORATION, 1445 PARKWAY AVENUE, TRENTON, N.J." DATED 8/02/93, LAST REVISED 10/19/93, PREPARED BY ROBERT W. ENT, INC.

DEED REFERENCE : DEED BOOK 4512, PAGE 252 & c.
MAP REFERENCE : "PLAN OF SURVEY AND MINOR SUBDIVISION OF LOT 1, BLOCK 343, GM CORPORATION SITE SITUATE IN EWING TOWNSHIP, MERCER COUNTY, NEW JERSEY", DATED 12/18/01, REVISED TO 3/27/02, PREPARED BY MASER CONSULTING, P.A.

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ELEVATION 131.49' (NAVD 1988)
HORIZONTAL DATUM - N.J. STATE PLANE COORDINATE SYSTEM (NAD 1983)

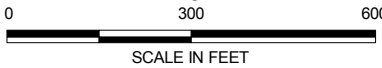
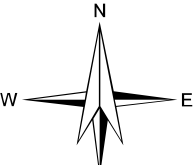
- 2. CHEMICAL CONCENTRATIONS SHOWN ARE LABORATORY RESULTS FROM GROUNDWATER SAMPLES COLLECTED 12-22 AUGUST 2008 (MW-38A WAS RESAMPLED ON 3 SEPTEMBER 2008) OR 4-5 NOVEMBER 2008, WHICHEVER IS MORE RECENT.
- 3. ALL RESULTS IN MICROGRAMS PER LITER (ug/L)
- 4. GROUNDWATER RESULTS COMPARED TO NEW JERSEY GROUNDWATER QUALITY STANDARDS (GWQS), AS PUBLISHED IN N.J.A.C. 7:9C
- 5. ONLY LOCATIONS WITH A TETRACHLOROETHENE (PCE) CONCENTRATION GREATER THAN THE APPLICABLE STANDARD ARE LABELED

LEGEND

● OVERBURDEN WELL LOCATION

TETRACHLOROETHENE (PCE) CONCENTRATION
IN GROUDWATER (ug/L)

- ND
- =<1 ug/L (GWQS)
- > 1 ug/L



GENERAL MOTORS CORPORATION
TRENTON, NEW JERSEY
ISRA CASE NO. E97070

PCE IN OVERBURDEN GROUNDWATER

SCALE: AS SHOWN
JUNE 2009

FIGURE 2

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NOTES:
1. BASE MAP IS FROM A MAP ENTITLED "ALTA/ACSM LAND TITLE SURVEY FOR GENERAL MOTORS CORPORATION, 1445 PARKWAY AVENUE, TRENTON, N.J." DATED 8/02/93, LAST REVISED 10/19/93, PREPARED BY ROBERT W. ENT, INC.

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SCHOOLEY'S MOUNTAIN, NEW JERSEY 07870
N.J. LAND SURVEYOR LIC. NO. 26791
NAMED "MONITOR WELL LOCATIONS, TOWNSHIP OF EWING, MERCER COUNTY, NEW JERSEY"

LAST REVISED OCTOBER 21, 2008

BENCH MARK - N.J.G.S. MON. 11 B 1
ELEVATION 131.49' (NAVD 1988)
HORIZONTAL DATUM - N.J. STATE PLANE COORDINATE SYSTEM (NAD 1983)

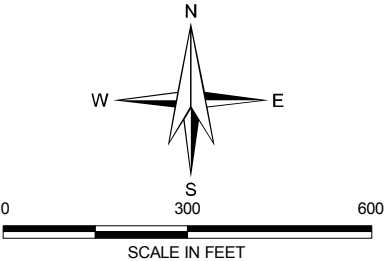
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3. ALL RESULTS IN MICROGRAMS PER LITER (ug/L)
4. GROUNDWATER RESULTS COMPARED TO NEW JERSEY GROUNDWATER QUALITY STANDARDS (GWQS), AS PUBLISHED IN N.J.A.C. 7:9C
5. ONLY LOCATIONS WITH A TETRACHLOROETHENE (PCE) CONCENTRATION GREATER THAN THE APPLICABLE STANDARD ARE LABELED

LEGEND

BEDROCK WELL LOCATION

TETRACHLOROETHENE (PCE) CONCENTRATION
IN GROUNDWATER (ug/L)

- ND
- <1 ug/L (GWQS)
- > 1 ug/L



HALEY & ALDRICH
GENERAL MOTORS CORPORATION
TRENTON, NEW JERSEY
ISRA CASE NO. E97070

PCE IN BEDROCK GROUNDWATER

SCALE: AS SHOWN
JUNE 2009

FIGURE 3

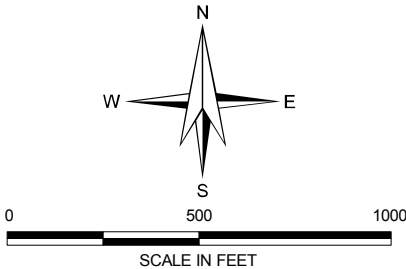
G:\Data\7070613\GIS\115-2009GWRPT\MapProjects\70613-115-039B-GWRPT09-PCE-BRK-SW-DECO8_FIGX2.mxd



- NOTES:
1. AERIAL IMAGE OBTAINED FROM NEW JERSEY 2002 HIGH RESOLUTION ORTHOPHOTOGRAPHY TILE NUMBERS F11A8, F11A7, F11A4 AND F11A3
 2. LOCATIONS ARE APPROXIMATE

LEGEND

- PROPERTY LINE
- 100' OFFSET PROPERTY LINE
- OFF SITE WELL 100' BUFFER



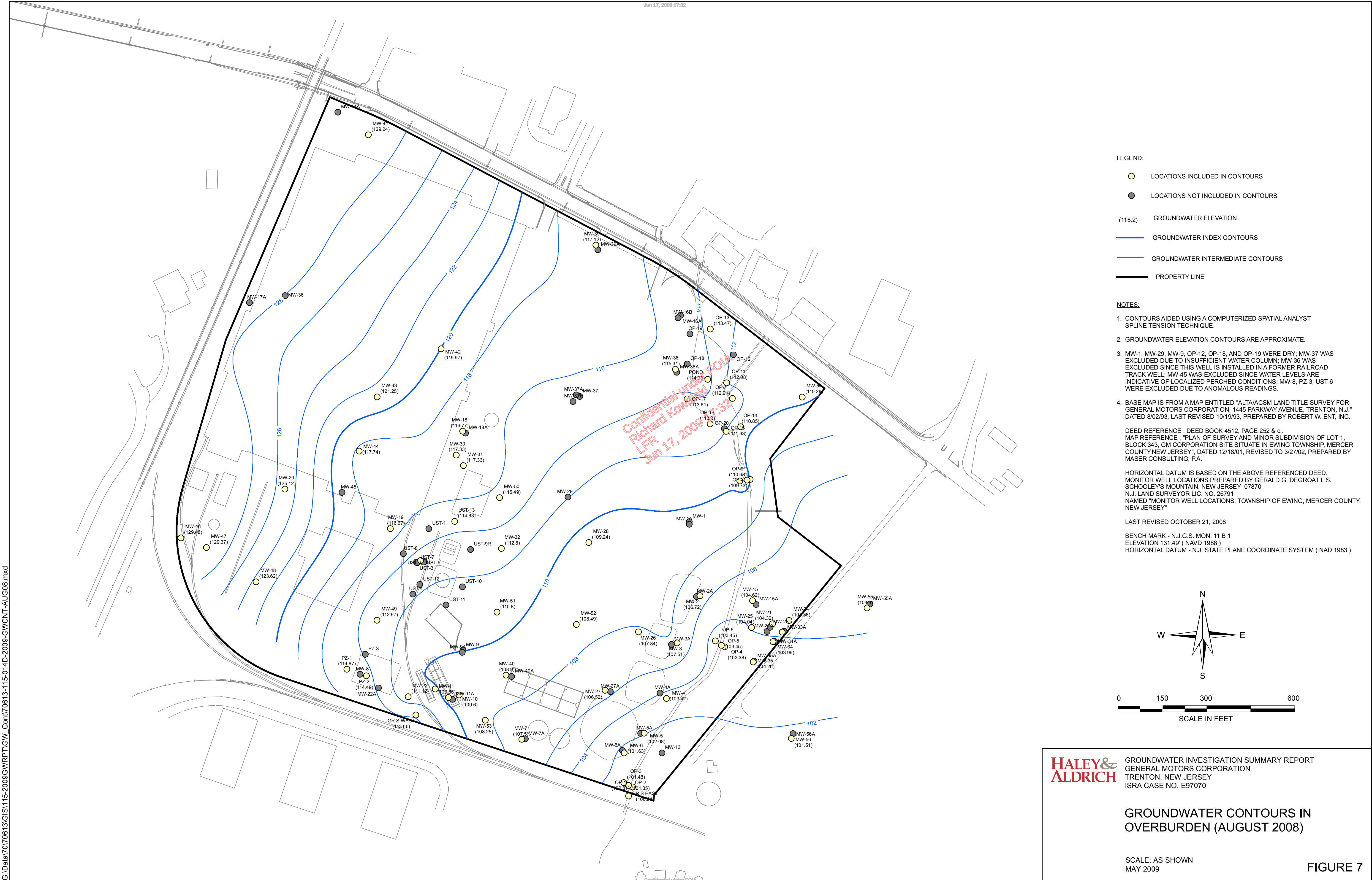
HALEY & ALDRICH GENERAL MOTORS CORPORATION
TRENTON, NEW JERSEY
ISRA CASE NO. E97070

SITE VICINITY MAP

SCALE: AS SHOWN
JUNE 2009

FIGURE 4

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G:\Data\7070613\GIS\115-015D-2009-GWCNT-NOV08.mxd



LEGEND:

- (115.2) GROUNDWATER ELEVATION
- GROUNDWATER INDEX CONTOURS
- GROUNDWATER INTERMEDIATE CONTOURS
- PROPERTY LINE

NOTES:

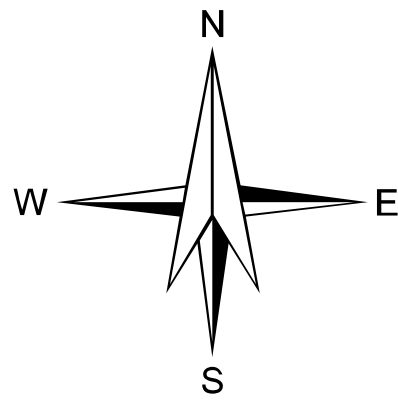
- CONTOURS AIDED USING A COMPUTERIZED SPATIAL ANALYST SPLINE TENSION TECHNIQUE.
- GROUNDWATER ELEVATION CONTOURS ARE APPROXIMATE.
- MW-37, MW-51, OP-12, AND OP-18 WERE DRY; MW-36 WAS EXCLUDED SINCE THIS WELL IS INSTALLED IN A FORMER RAILROAD TRACK WELL; MW-45 WAS EXCLUDED SINCE WATER LEVELS ARE INDICATIVE OF LOCALIZED PERCHED CONDITIONS; MW-8 AND PZ-3 WERE EXCLUDED DUE TO ANOMALOUS READINGS. MW-29, GR N EAST, GR NORTH AND GR MID WAS EXCLUDED FROM CONTOUR GENERATION
- BASE MAP IS FROM A MAP ENTITLED "ALTA/ACSM LAND TITLE SURVEY FOR GENERAL MOTORS CORPORATION, 1445 PARKWAY AVENUE, TRENTON, N.J." DATED 8/02/93, LAST REVISED 10/19/93, PREPARED BY ROBERT W. ENT, INC.

DEED REFERENCE : DEED BOOK 4512, PAGE 252 & c..
MAP REFERENCE : "PLAN OF SURVEY AND MINOR SUBDIVISION OF LOT 1, BLOCK 343, GM CORPORATION SITE SITUATE IN EWING TOWNSHIP, MERCER COUNTY, NEW JERSEY", DATED 12/18/01, REVISED TO 3/27/02, PREPARED BY MASER CONSULTING, P.A.

HORIZONTAL DATUM IS BASED ON THE ABOVE REFERENCED DEED.
MONITOR WELL LOCATIONS PREPARED BY GERALD G. DEGROAT L.S.
SCHOOLEY'S MOUNTAIN, NEW JERSEY 07870
N.J. LAND SURVEYOR LIC. NO. 26791
NAMED "MONITOR WELL LOCATIONS, TOWNSHIP OF EWING, MERCER COUNTY, NEW JERSEY"

LAST REVISED OCTOBER 21, 2008

BENCH MARK - N.J.G.S. MON. 11 B 1
ELEVATION 131.49' (NAVD 1988)
HORIZONTAL DATUM - N.J. STATE PLANE COORDINATE SYSTEM (NAD 1983)



0 150 300 600
SCALE IN FEET

HALEY & ALDRICH

GROUNDWATER INVESTIGATION SUMMARY REPORT
GENERAL MOTORS CORPORATION
TRENTON, NEW JERSEY
ISRA CASE NO. E97070

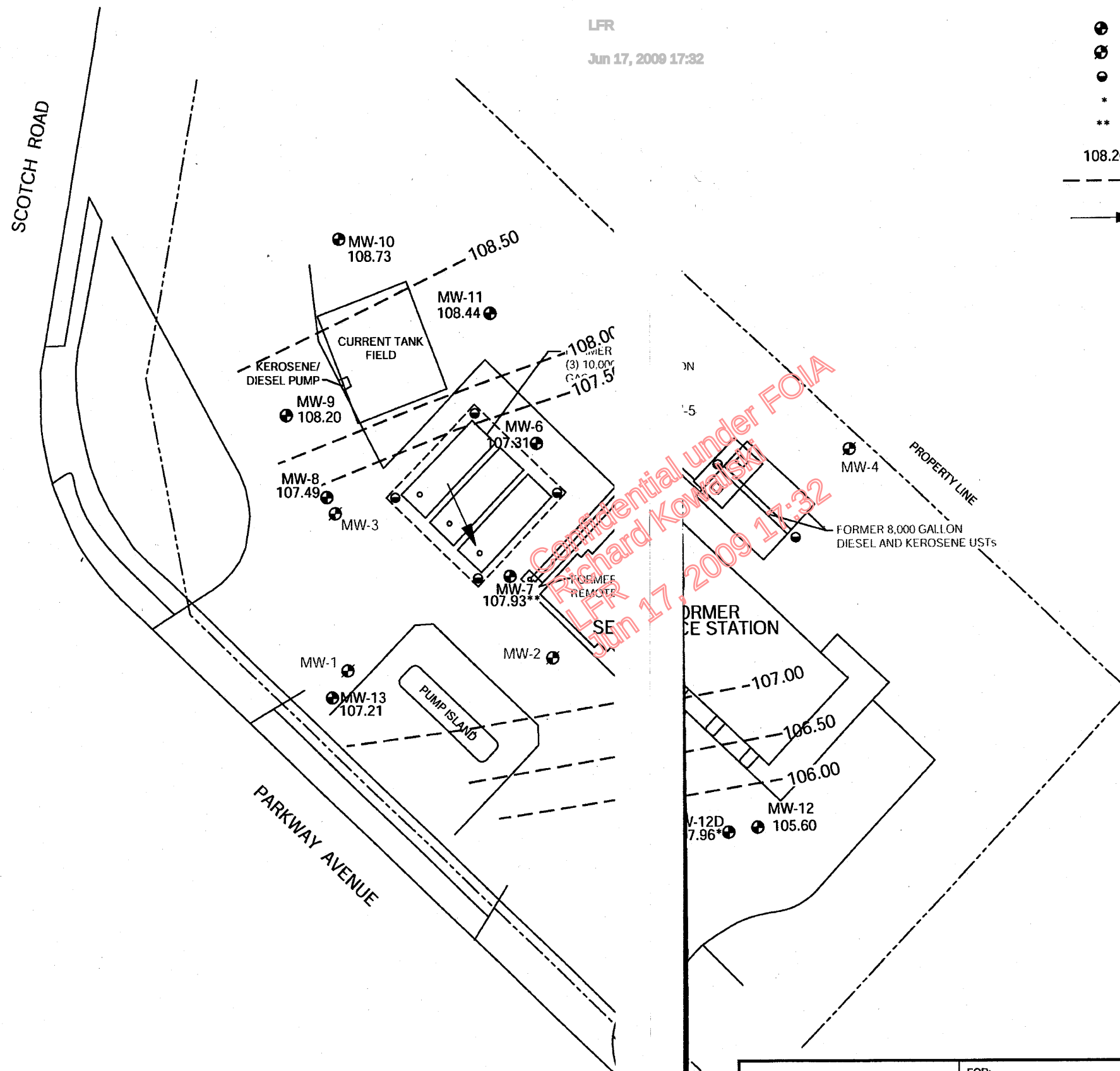
GROUNDWATER CONTOURS IN
OVERBURDEN (NOVEMBER 2008)

SCALE: AS SHOWN
MAY 2009

FIGURE 8

LEGEND

- OBSERVATION WELL
- DECOMMISSIONED OBSERVATION WELL
- DECOMMISSIONED TANK FIELD WELL
- * DEEP WELL NOT USED IN CONTOUR
- ** ANOMOLOUS VALUE NOT USED IN CONTOURING
- 108.20 GROUNDWATER TABLE ELEVATION (FEET)
- GROUNDWATER TABLE ELEVATION CONTOUR (CONTOUR INTERVAL = 0.50 FEET)
- INFERRED GROUNDWATER FLOW DIRECTION



 SECOR 102 PICKERING WAY, SUITE 200 EXTON, PENNSYLVANIA PHONE: (484) 875-3075 FAX: (484) 875-9286	FOR: FORMER SERVICE STATION #60754 1252 PARKWAY AVENUE EWING, NEW JERSEY		GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 24, 2008		FIGURE: 3
	JOB NUMBER:	DRAWN BY: TFB/JBL	CHECKED BY: JA	APPROVED BY: AT	DATE: 10/17/2008