



**CONESTOGA-ROVERS
& ASSOCIATES**

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February 19, 2007

Reference No. 012559-53

Ms. Laura C. Price
Voluntary Cleanup Unit/Remedial Section
Bureau of Environmental Remediation
Kansas Department of Health and Environment
1000 SW Jackson, Suite 410
Topeka, Kansas 66612-1367

Dear Ms. Price:

Re: Additional Groundwater and Soil Sampling Data
Voluntary Cleanup Investigation
Former GM Fairfax I Plant
Kansas City, Kansas

Conestoga-Rovers and Associates (CRA) on behalf of General Motors Corporation (GM) is transmitting additional soil and groundwater data for the Former GM Fairfax I Plant to the Kansas Department of Health and Environment (KDHE) in accordance with CRA's Addendum to Supplemental Confirmation Sampling Work Plan dated September 7, 2006 (Work Plan).

The CRA September 2006 Work Plan proposed soil and groundwater sampling activities in the following areas of the Former GM Fairfax I Plant Site (refer to Figure 1):

- Tract 2 Investigation Area¹;
- SB-110 Investigation Area;
- Former Fairfax I Assembly Plant Building Investigation Area; and
- MW-105 Investigation Area (groundwater only).

This correspondence provides results from activities completed in the SB-110 Investigation Area, the Former Fairfax I Assembly Plant Building Investigation Area, and the MW-105 Investigation Area.

Nine soil borings (SB-123 through SB-131) were initially advanced in the Former Fairfax I Assembly Plant Building Investigation Area. Soil samples were collected from each of these locations for laboratory analysis of Target Compound List Volatile Organic Compounds (TCL VOCs), Target Compound List Semivolatile Organic Compounds (TCL SVOCs), and Target Analyte List Metals (TAL Metals). Temporary monitoring wells were installed in soil borings SB-123 through SB-131. Laboratory analysis of soil samples designated for VOC analysis from

¹ The results of the Tract 2 studies were provided to the KDHE under separate cover.

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these locations was cancelled due to sample collection issues. An additional nine soil borings (SB-123B, and SB-124A through SB-131A) were drilled adjacent to soil borings SB-123 through SB-131, respectively. Soil samples were collected from SB-123B, and SB-124A through SB-131A for TCL VOC laboratory analysis only. Soil borings SB-123B, and SB-124A through SB-131A were backfilled upon sample collection. The location of the Former Fairfax I Assembly Plant Building Investigation Area is provided on Figure 1. A summary of soil and groundwater sample locations and laboratory analyses is provided in Table 1.

1.0 INVESTIGATION ACTIVITIES

Soil and groundwater investigations were conducted in the SB-110 Investigation Area, the Former Fairfax I Assembly Plant Building Investigation Area, and the MW-105 Investigation Area (groundwater only) in November 2006. The location of these investigation areas is provided on Figure 1. The locations of newly advanced soil borings are provided on Figure 2, and the locations of newly installed monitoring wells are provided in Figure 3. A summary of soil and groundwater sample locations and laboratory analyses is provided in Table 1.

SB-110 Investigation Area

On November 8, 2006, one soil boring (SB-137) was advanced to delineate tetrachloroethene (PCE) contamination in the soil east of soil boring SB-110², and one temporary monitoring well (TMW-138) was installed to determine if PCE is present in the shallow groundwater above the KDHE Tier 2 standard downgradient³ of soil boring SB-110.

Soil boring SB-137 was advanced to approximately 15 feet below ground surface (ft bgs). A soil sample was collected from this location and submitted for laboratory analysis of PCE. Temporary monitoring well TMW-138 is a 2-inch diameter stick-up well screened from approximately 25 to 35 ft bgs⁴. Soil boring logs and well construction details are provided in Attachment A.

Former Fairfax I Assembly Plant Building Investigation Area

Nineteen soil borings (SB-123 through SB-132, SB-123B, and SB-124A through SB-131A) were advanced throughout the Former Fairfax I Assembly Plant Building Investigation Area to determine the TCL VOCs, TCL SVOCs, and TAL Metals concentrations in the soil and groundwater in this area of the Site.

² Soil boring SB-110 was previously advanced at the Site in December 2004.

³ Based on groundwater flow towards the Missouri River.

⁴ According to the Fairfax Drainage District of Wyandotte County, temporary wells TMW-123 through TMW-132, and TMW-138 must be converted to permanent monitoring wells or abandoned and sealed by April 2007.



Between November 1, and 6, 2006, soil borings SB-123 through SB-132 were advanced to approximately 35 ft bgs on the Former Fairfax I Assembly Plant Building Investigation Area. Soil samples collected from these soil boring locations were analyzed for TCL SVOCs and TAL Metals. The soil samples collected from soil boring SB-132 was also analyzed for TCL VOCs. Two-inch diameter stick-up temporary monitoring wells (TMW-123 through TMW-132), screened from approximately 25 to 35 ft bgs, were installed at the locations of corresponding soil borings SB-123 through SB-132.

Between November 8, and 20, 2006, soil borings SB-123B, and SB-124A through SB-131A were advanced adjacent to previously advanced soil borings SB-123, and SB-124 through SB-131 respectively. SB-123B, and SB-124A through SB-131A were advanced to the sample interval depth of corresponding samples collected from borings SB-123 through SB-131 respectively. The soil boring depths ranged from 7.5 to 30 ft bgs. Soil samples were collected from soil borings SB-123B, and SB-124A through SB-131A and submitted for laboratory analysis of TCL VOCs. Soil boring logs and well construction details are provided in Attachment A.

MW-105 Investigation Area

On November 10, 2006, two permanent monitoring wells (MW-124A and MW-124B) were installed to determine the TCL VOC concentrations in the groundwater downgradient of previously installed monitoring well MW-105.

On November 10, 2006, permanent MW-124A and MW-124B were installed to approximately 35 ft bgs and 60 feet bgs respectively downgradient⁵ of monitoring well MW-105. Two-inch diameter stick-up temporary monitoring wells, one screened from approximately 25 to 35 ft bgs and one screened from approximately 50 to 60 ft bgs, were installed at the locations of soil borings MW-124A and MW-124B, respectively. Soil boring logs and well construction details are provided in Attachment A.

Groundwater Elevation Data

On November 20, 2006, groundwater elevation measurements were made at permanent monitoring wells MW-124A and MW-124B, and temporary monitoring wells TMW-123 through TMW-132, and TMW-138. The groundwater elevation measurements indicate that groundwater flow in the central and northern portions of the Site is to the north/northeast and towards the Missouri River. As previously reported, groundwater flow direction at the Site is seasonal and is influenced by the amount of precipitation that has occurred as well as the

⁵ Based on groundwater flow towards the Missouri River.



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elevation of the water in the Missouri River. Groundwater elevation data is provided in Table 2, and a groundwater contour map is provided on Figure 3.

LNAPL in TMW-130

On November 20, 2006, a 0.99 foot layer of light non-aqueous phase liquid (LNAPL) was observed in temporary well TMW-130 while collecting groundwater elevation measurements. LNAPL data is provided in Table 3.

On November 27, 2006, the water and product level measurements were recorded again at TMW-130. The LNAPL thickness was similar to the thickness encountered on November 20, 2006. LNAPL and some groundwater within TMW-130 was subsequently bailed and removed using a disposable bailer and nylon rope. TMW-130 was manually bailed until no measurable LNAPL was visually observed within the bailer. TMW-130 was allowed to recharge overnight and this process was repeated again on November 28, 2006. The LNAPL thickness measured prior to bailing on November 28, 2006 was 0.39 feet, which was less than half the original thickness detected on November 20, 2006. A total of approximately 5 to 6 gallons of LNAPL/groundwater mixture was removed from TMW-130 on these dates. The mixture is being temporarily stored on Site and is awaiting off-Site disposal.

Well Development

On November 22, 2006, the newly installed wells in all three investigation areas were developed to minimize the presence of fine grained, suspended sediment and to ensure optimum communication between the well and the screened formation. During monitoring well development, pH, conductivity, and temperature of the evacuated groundwater was monitored to confirm stabilization of groundwater within the screened formation. A summary of the data collected during well development is provided in Table 4.

Groundwater Sample Collection

On November 27 and 28, 2006, groundwater samples were collected from the newly installed wells (MW-124A, MW-124B, TMW-123 through TMW-129, TMW-131, TMW-132, and TMW-138) in all three investigation areas. Prior to sample collection, pH, conductivity, and temperature of the evacuated groundwater was monitored following removal of each well volume to confirm stabilization of groundwater within the screened formation. Dissolved oxygen (DO) and redox readings were also collected. Temporary monitoring well TMW-130 was not sampled due to the presence of LNAPL.

A groundwater sample was collected from temporary monitoring well TMW-138 and was submitted to the laboratory for analysis of PCE. Groundwater samples were collected from



temporary monitoring wells TMW-123 through TMW-132 (excluding TMW-130), and permanent monitoring wells MW-124A and MW-124B. These samples were submitted for laboratory analysis of TCL VOCs, TCL SVOCs, and TAL Metals. A summary of data collected prior to the collection of groundwater samples is provided in Table 5.

Laboratory Analyses

Soil and groundwater samples collected from the three investigation areas were submitted to Severn Trent Laboratory (STL) of North Canton, Ohio. The data validation memorandum is provided in Attachment B and includes a sample key as Table 1. Laboratory analytical reports for samples collected from the three investigation areas are provided in Attachment C.

Surveying

On October 25, 2006, Anderson Surveyors (Anderson) of Lee's Summit, Missouri recorded the horizontal coordinates of the proposed soil boring locations. On December 5, 2006, Anderson returned to the Site and surveyed the ground elevation, top of polyvinyl chloride (PVC) casing elevation and final horizontal coordinates of temporary monitoring wells TMW-123 through TMW-132, and TMW-138, and permanent monitoring wells MW-124A and MW-124B. The ground elevation and final horizontal coordinates of soil boring SB-137 were also recorded. The locations were referenced to the GM Plant Grid Coordinate System.

2.0 INVESTIGATION RESULTS

Soil analytical results were compared to KDHE Tier 2 non-residential scenario soil pathway and soil to groundwater protection pathway standards (Tier 2 standards). Groundwater analytical results were compared to KDHE Tier 2 groundwater pathway standards (Tier 2 standards). Analytes detected in soil are provided in Table 6 and on Figure 2. Analytes detected in groundwater are provided in Table 7 and on Figure 4.

Soil Sample Analytical Results

Soil samples collected while advancing soil borings SB-123 through SB-132 were analyzed for TCL SVOCs and TAL Metals. Soil samples collected while advancing soil borings SB-123B, SB-124A through SB-131A, and SB-132 were analyzed for TCL VOCs. The soil sample collected while advancing soil boring SB-137 was analyzed for PCE.



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A number of TCL VOC, TCL SVOC, and TAL Metals analytes were flagged (J-flag)⁶ by the laboratory. These estimated values will not be evaluated against Tier 2 standards since this data is inconclusive.

SB-110 Investigation Area

PCE

PCE was detected above the laboratory reporting limit in soil sample SB-137; however, the concentration was below Tier 2 standards.

Former Fairfax I Assembly Plant Building Investigation Area

TCL VOCs

TCL VOC analytes were not detected in any of the soil samples collected, except for a few analytes that were flagged (J-flag) by the laboratory. VOC concentrations were below Tier 2 standards in all soil samples collected.

TCL SVOCs

2-Methylnaphthalene was the only TCL SVOC analyte detected above the laboratory reporting limit, except for some analytes that were flagged (J-flag) by the laboratory. SVOC concentrations were below Tier 2 standards in all soil samples collected.

TAL Metals

TAL Metal analytes were detected in all soil samples collected; however, these concentrations were below Tier 2 standards. The detected TAL Metal analytes are likely a reflection of Site-wide conditions not related to any specific historical or current activity at the Former Assembly Plant Building.

Groundwater Analytical Results

Groundwater samples collected from permanent monitoring wells MW-124A and MW-124B, and from temporary monitoring wells TMW-123 through TMW-132 (excluding TMW-130) were analyzed for TCL VOCs, TCL SVOCs, and TAL Metals. A groundwater sample collected from temporary monitoring well TMW-138 was analyzed for PCE.

A number of TCL VOC, TCL SVOC, and TAL Metals analytes were flagged (J-flag) by the laboratory. These estimated values will not be evaluated against Tier 2 standards since this data is inconclusive.

⁶ Analyte is qualified as "estimated" by the laboratory.



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SB-110 Investigation Area

PCE

PCE was not detected in the groundwater sample collected; however, the PCE concentration was flagged (J-flag) by the laboratory. The PCE concentration was below Tier 2 standards.

Former Fairfax I Assembly Plant Building Investigation Area

LNAPL in TMW-130

The LNAPL detected in temporary monitoring well TMW-130 appears to be limited to the vicinity of this location. LNAPL and petroleum constituents associated with this location were not detected in downgradient temporary wells TMW-127 and TMW-128 during the November 2006 studies. LNAPL was also not observed while collecting water level measurements during the recent June 2006 groundwater sampling event in monitoring wells surrounding the Former Fairfax I Assembly Plant Building, including downgradient monitoring wells MW-1A, MW-1B, and MW-1C. The presence of LNAPL in TMW-130 is likely due to water table fluctuations and residual oils, similar to the subsurface conditions documented at the monitoring well MW-103A location⁷.

TCL VOCs

cis-1,2-Dichloroethene and methylene chloride were detected in TMW-127 above Tier 2 standards. The cis-1,2-dichloroethene and methylene chloride concentrations in the groundwater samples collected from temporary monitoring wells TMW-125 and TMW-128, located downgradient of TMW-127, were below Tier 2 standards. The elevated VOC concentrations in TMW-127 appear to be isolated and limited to the vicinity of this location.

Additional TCL VOC analytes were detected in some of the groundwater samples collected, including some analytes that were flagged (J-flag) by the laboratory. These concentrations were below Tier 2 standards.

TCL SVOCs

TCL SVOC analytes were not detected in any of the groundwater samples collected, except for one analyte that was flagged (J-flag) by the laboratory. SVOC concentrations were below Tier 2 standards in all groundwater samples collected.

TAL Metals

Manganese was detected in the groundwater above the Tier 2 standard in all newly installed wells. The manganese concentrations on the Former Fairfax I Assembly Plant Building

⁷ Information on the subsurface conditions in the vicinity of MW-103A was provided to the KDHE in previous submittals.



Investigation Area are similar to concentrations observed throughout the Former GM Fairfax I Plant Site in past groundwater sampling events. These concentrations are considered to be either a result of natural background conditions or due to the regional industrial area located upgradient of the Site.

Arsenic was detected in the groundwater slightly above the Tier 2 standard in temporary monitoring wells TMW-123 and TMW-127. Additional TAL Metal analytes were detected in all groundwater samples collected; however, the concentrations of these analytes were below Tier 2 standards. Arsenic and the additional detected TAL Metal analytes are likely not related to any specific historical or current activity. The detected TAL Metal analytes are likely a reflection of Site-wide conditions not related to any specific historical or current activity at the Former Assembly Plant Building.

MW-105 Investigation Area

TCL VOCs

TCL VOC analytes were not detected in any of the groundwater samples collected, except for a couple analytes that were flagged (J-flag) by the laboratory. TCL VOC concentrations were below Tier 2 standards in all groundwater samples collected.

TCL SVOCs and TAL Metals

TCL SVOC analytes were not detected in any of the groundwater samples collected. Manganese was detected above the Tier 2 standard in MW-124A and MW-124B. The manganese concentrations in this area of the Site are similar to concentrations observed throughout the Former GM Fairfax I Plant Site in past groundwater sampling events, including in MW-105. These concentrations are considered to be either a result of natural background conditions or due to the regional industrial area located upgradient of the Site. Additional TAL Metal analytes were detected in all groundwater samples collected, however these concentrations were well below Tier 2 standards. The additional detected TAL-Metal analytes are also likely a reflection of Site wide conditions not related to any specific historical or current activity in the MW-105 Investigation Area.

3.0 RECOMMENDATIONS

SB-110 Investigation Area

The PCE concentration in the soil collected from soil boring SB-137 was below the Tier 2 standards. PCE contamination in soil is delineated to the east of soil boring SB-110. PCE was also below Tier 2 standards in the groundwater in the vicinity (downgradient) of SB-110. PCE has been characterized in the SB-110 Investigation Area. The Tier 2 soil to groundwater pathway exceedences observed in the soil near SB-110 can be addressed through the completion



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of an environmental use control (EUC) to prohibit the use of groundwater beneath the Site as a potable water supply.

Former Fairfax I Assembly Plant Building Investigation Area

The LNAPL discovered within temporary monitoring well TMW-130 will be addressed in a separate submittal to the KDHE. Additional delineation of LNAPL in this localized area of the Site will be part of the proposed studies.

The TCL VOC, TCL SVOC, and TAL Metals concentrations in the soil are all below Tier 2 standards.

cis-1,2-Dichloroethene and methylene chloride were detected in the groundwater in TMW-127 above Tier 2 standards. The cis-1,2-dichloroethene and methylene chloride concentrations in TMW-125 and TMW-128, located downgradient of TMW-127, were below KDHE Tier 2 standards. The elevated VOC concentrations in TMW-127 appear to be isolated and limited to this location.

The manganese concentrations on the Former Fairfax I Assembly Plant Building are similar to concentrations observed throughout the Former GM Fairfax I Plant Site in past groundwater sampling events. These concentrations are considered to be either a result of natural background conditions or due to the regional industrial area located upgradient of the Site. The additional detected TAL Metal analytes, including arsenic, are likely a reflection of Site-wide conditions not related to any specific historical or current activity at the Former Assembly Plant Building.

The exceedences of Tier 2 groundwater standards in TMW-123 and TMW-127 can be addressed through the completion of an EUC to prohibit the use of groundwater beneath the Site as a potable water supply.

MW-105 Investigation Area

TCL VOC and TCL SVOC analytes were not detected in any of the groundwater samples collected, and the concentration of these analytes were also below Tier 2 standards. TCL VOC contamination in MW-105 is delineated downgradient of MW-105.

The manganese concentrations in this area of the Site are similar to concentrations observed throughout the Former Fairfax I Plant Site in past groundwater sampling events, including concentrations in MW-105. These concentrations are considered to be either a result of natural background conditions or due to the regional industrial area located upgradient of the Site.



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If you have any questions regarding this submittal, please do not hesitate to call me.

Yours truly,

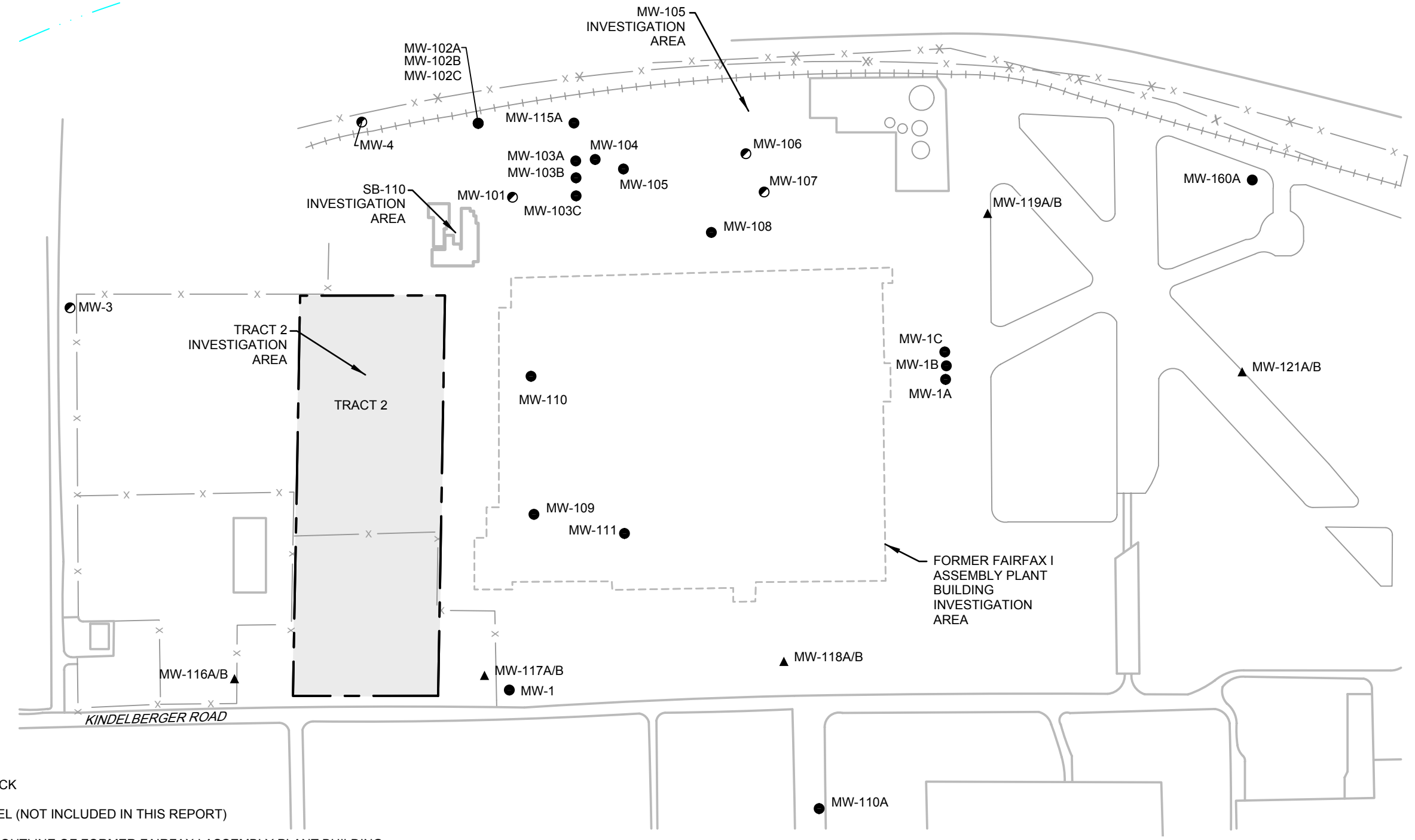
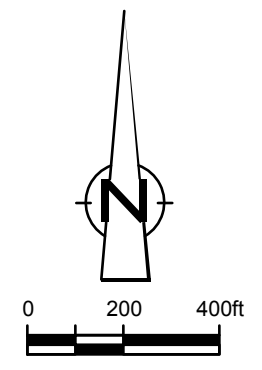
CONESTOGA-ROVERS & ASSOCIATES

Phil Harvey

PH/lg/6
Attachments

c.c.: Ken Richards, GM (2)
Kevin Brown, GM

MISSOURI RIVER



LEGEND:

- x — x — FENCE LINE
- +++++ RAILROAD TRACK
- TRACT 2 PARCEL (NOT INCLUDED IN THIS REPORT)
- APPROXIMATE OUTLINE OF FORMER FAIRFAX I ASSEMBLY PLANT BUILDING

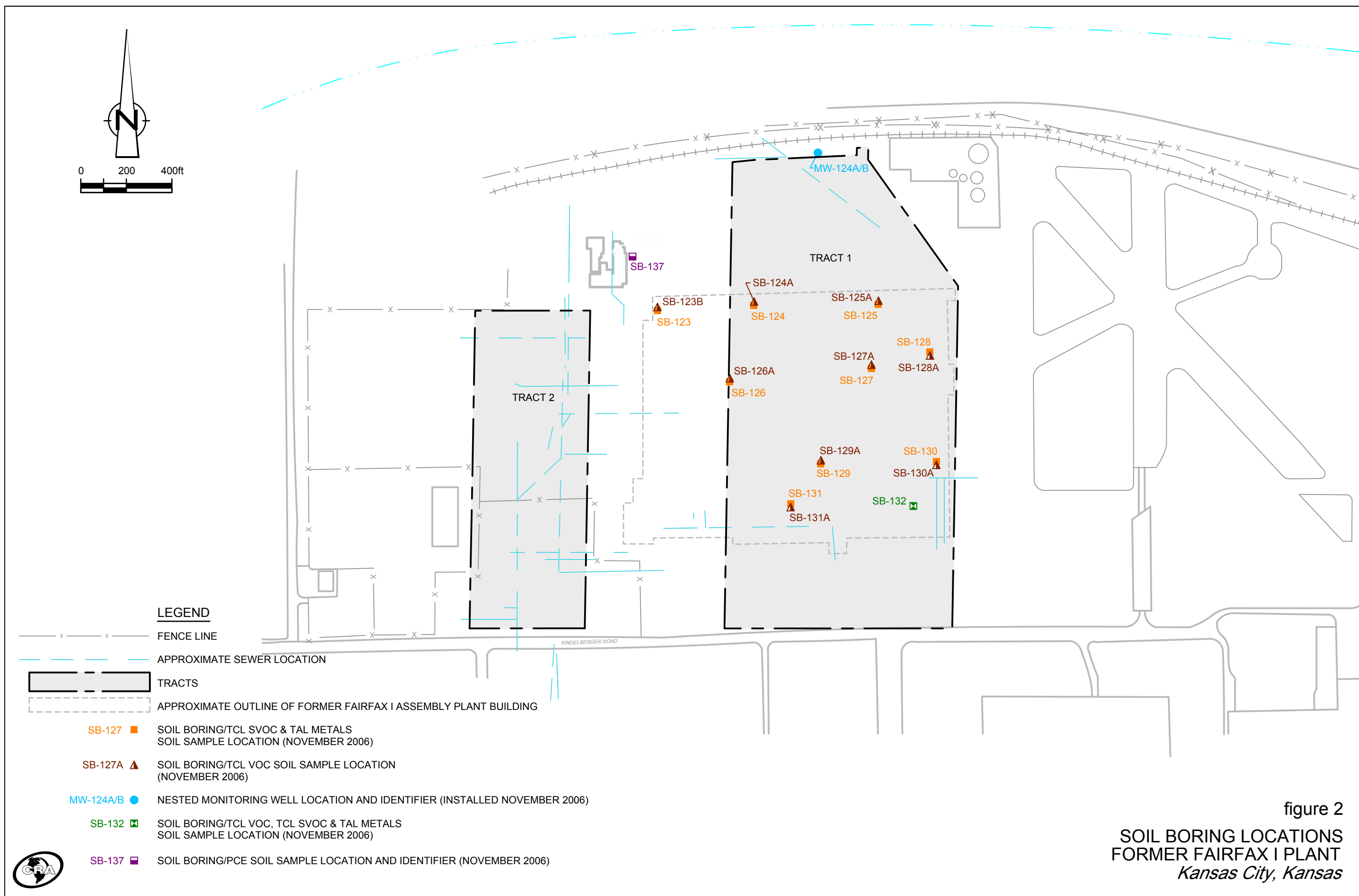
- MW-1 ● EXISTING MONITORING WELL LOCATION AND IDENTIFIER
- MW-3 ● FORMER MONITORING WELL LOCATION AND IDENTIFIER

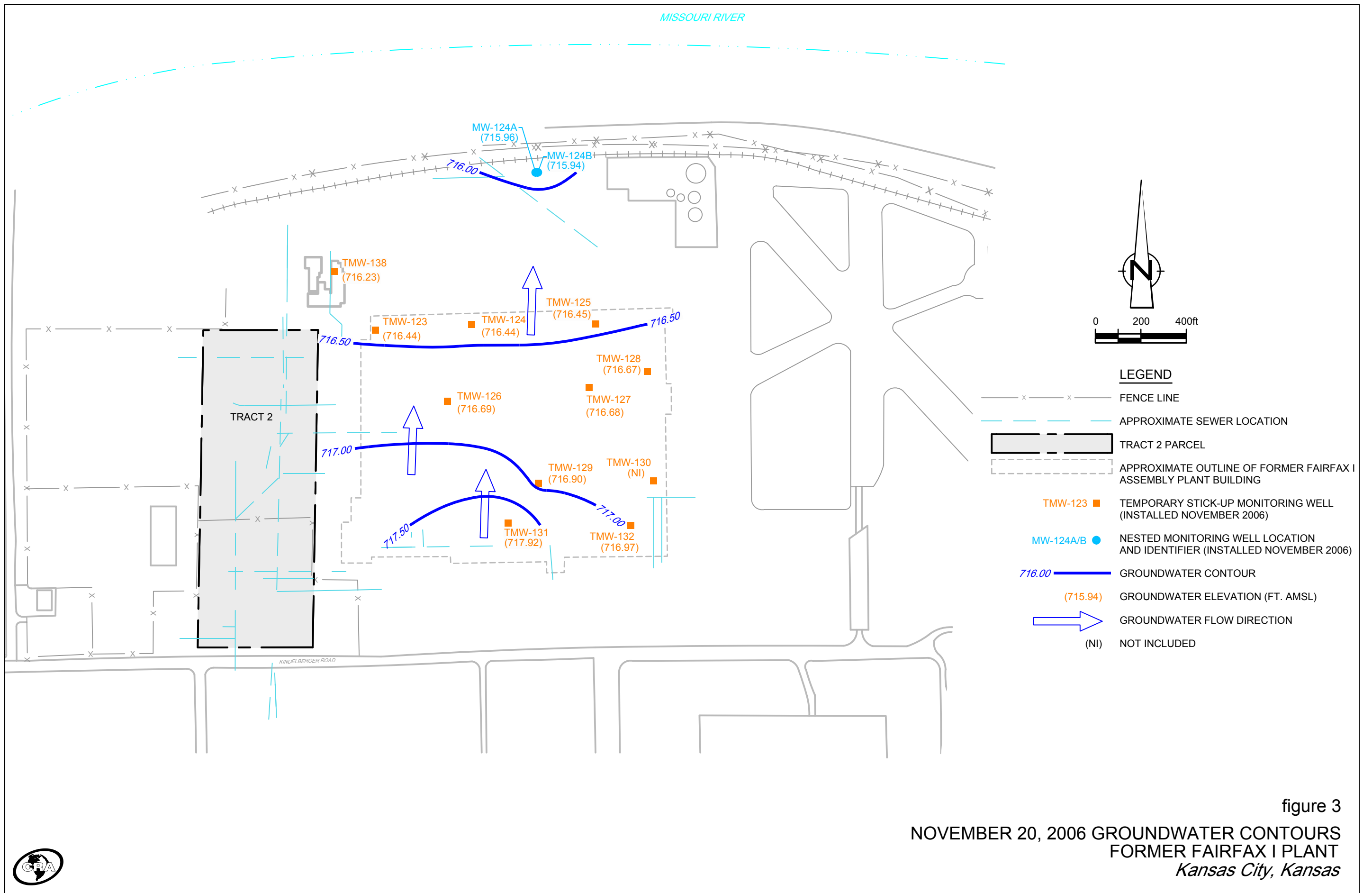
- MW-116A/B ▲ NESTED MONITORING WELL LOCATION AND IDENTIFIER (INSTALLED DECEMBER 2005)



figure 1

SITE PLAN
FORMER FAIRFAX I PLANT
Kansas City, Kansas





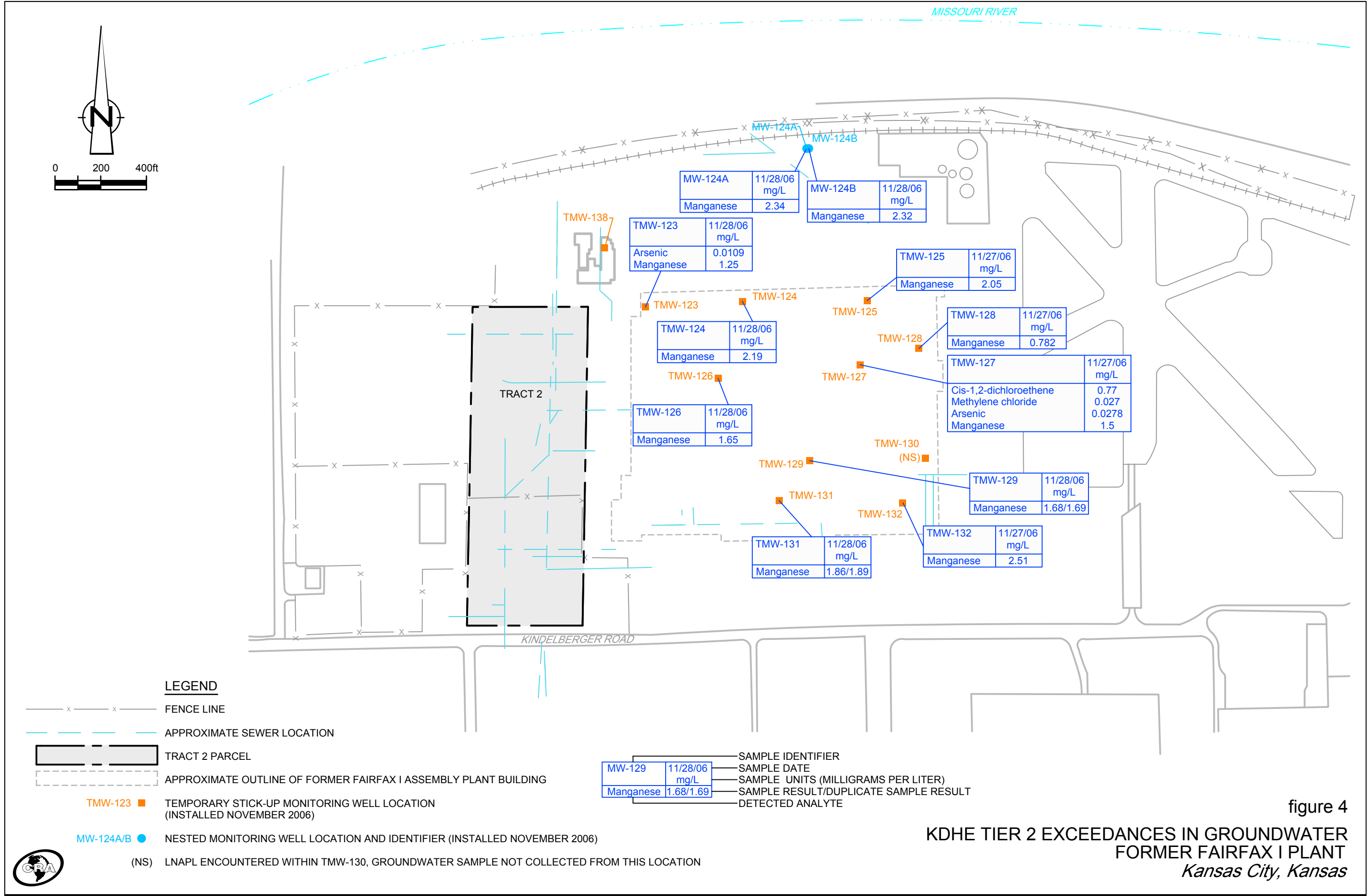


figure 4
KDHE TIER 2 EXCEEDANCES IN GROUNDWATER
FORMER FAIRFAX I PLANT
Kansas City, Kansas

TABLE 1

**SAMPLE LOCATION AND LABORATORY ANALYSIS SUMMARY
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Soil Boring ID</i>	<i>MW¹/TMW² ID</i>	<i>TCL SVOC³ and TAL Metals⁴ Soil Sample</i>	<i>TCL VOC⁵/TCL SVOC/ TAL Metals Groundwater Sample</i>	<i>TCL VOC Soil Sample</i>
SB-123	TMW-123	SB-123	TMW-123	*
SB-123B	NI ⁶	NS ⁷	NS	SB-123B
SB-124	TMW-124	SB-124	TMW-124	*
SB-124A	NI	NS	NS	SB-124A
SB-125	TMW-125	SB-125	TMW-125	*
SB-125A	NI	NS	NS	SB-125A
SB-126	TMW-126	SB-126	TMW-126	*
SB-126A	NI	NS	NS	SB-126A
SB-127	TMW-127	SB-127	TMW-127	*
SB-127A	NI	NS	NS	SB-127A
SB-128	TMW-128	SB-128	TMW-128	*
SB-128A	NI	NS	NS	SB-128A
SB-129	TMW-129	SB-129	TMW-129	*
SB-129A	NI	NS	NS	SB-129A
SB-130	TMW-130	SB-130	TMW-130	*
SB-130A	NI	NS	NS	SB-130A
SB-131	TMW-131	SB-131	TMW-131	*
SB-131A	NI	NS	NS	SB-131A
SB-132	TMW-132	SB-132	TMW-132	SB-132
SB-137	NI	NS	NS	SB-137 ⁸
--	TMW-138	NS	TMW-138 ⁸	NS
--	MW-124A	NS	MW-124A	NS
--	MW-124B	NS	MW-124B	NS

¹MW - Stick-up permanent monitoring well

²TMW- Temporary Monitoring Well

³TCL SVOC - Target Compound List Semivolatile Organic Compounds

⁴TAL Metals - Target Analyte List Metals

⁵TCL VOC - Target Compound List Volatile Organic Compounds

⁶NI - Monitoring Well Not Installed

⁷NS - Not Sampled

⁸Tetrachloroethene (PCE) analysis only

*Sample collection issues. Boring re-drilled to collect sample for VOC analysis.

TABLE 2

**GROUNDWATER ELEVATION DATA
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Well ID</i>	<i>Top of Casing Elevation (ft AMSL)¹</i>	<i>November 20, 2006</i>		<i>Comments</i>
		<i>Depth to Water (ft BTOC)²</i>	<i>Groundwater Elevation (ft AMSL)</i>	
MW-124A	747.22	31.26	715.96	
MW-124B	747.15	31.21	715.94	
TMW-123	745.16	28.72	716.44	
TMW-124	745.75	29.31	716.44	
TMW-125	745.60	29.15	716.45	
TMW-126	745.60	28.91	716.69	
TMW-127	746.02	29.34	716.68	
TMW-128	745.37	28.70	716.67	
TMW-129	745.47	28.57	716.90	
TMW-130	744.86	28.85	NA ³	0.99' of LNAPL present within well
TMW-131	745.70	27.78	717.92	
TMW-132	745.65	28.68	716.97	
TMW-138	744.68	28.45	716.23	

¹ ft AMSL - feet above mean sea level

² ft BTOC - feet below top of casing

³ NA - Not applicable. LNAPL present within well

TABLE 3

LNAPL¹ DATA
 ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
 FORMER GM FAIRFAX I PLANT
 KANSAS CITY, KANSAS

<i>Well ID</i>	<i>Date</i>	<i>Top of Casing Elevation (ft AMSL)²</i>	<i>Depth to LNAPL (ft BTOC)³</i>	<i>Depth to Water (ft BTOC)</i>	<i>LNAPL Thickness (feet)</i>
TMW-130	11/20/2006	744.86	27.86	28.85	0.99
TMW-130	*11/27/2006	744.86	28.17	29.20	1.03
TMW-130	*11/28/2006	744.86	28.27	28.66	0.39

¹ LNAPL - light non-aqueous phase liquid

² ft AMSL - feet above mean sea level

³ ft BTOC - feet below top of casing

* LNAPL and groundwater bailed from well on this date. LNAPL and water level measurements made prior to bailing.

TABLE 4

**MONITORING WELL DEVELOPMENT DATA
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Well ID</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC)¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm)²</i>	<i>Temperature (°C)³</i>	<i>Pump</i>
MW-124A	11/22/2006	31.35	37.39	0.97	1	7.04	1052	16.0	Grundfos
					2	7.06	1052	15.8	
					3	7.06	1052	15.8	
					4	7.06	1053	15.8	
					5	7.05	1055	15.8	
MW-124B	11/22/2006	31.25	62.15	4.95	5	7.19	1228	15.8	Grundfos
					10	7.19	1231	15.8	
					15	7.23	1239	15.8	
TMW-123	11/22/2006	29.37	37.00	1.22	1.5	6.84	1070	14.5	Grundfos
					3.0	6.79	1069	14.7	
					4.5	6.81	1068	14.7	
					6.0	6.83	1061	14.7	
					7.5	6.83	1062	14.7	
TMW-124	11/22/2006	27.89	37.00	1.46	1.5	6.60	1386	14.6	Grundfos
					3.0	6.62	1386	14.6	
					4.5	6.64	1380	14.6	
					6.0	6.65	1373	14.6	
TMW-125	11/22/2006	29.15	37.14	1.28	1.5	6.97	1049	15.8	Grundfos
					3.0	7.02	1108	15.5	
					4.5	7.03	1154	15.2	
					6.0	7.12	1166	15.2	
					7.5	7.13	1170	15.2	
TMW-126	11/22/2006	28.89	37.00	1.3	1.5	6.85	1257	14.7	Grundfos
					3.0	6.86	1254	14.8	
					4.5	6.87	1248	14.8	
					6.0	6.88	1235	14.8	
					7.5	6.89	1230	14.7	
TMW-127	11/22/2006	29.34	37.00	1.23	1.5	6.96	1138	15.4	Grundfos
					3.0	7.02	1157	15.3	
					4.5	7.03	1167	15.4	
					6.0	7.03	1171	15.4	

**MONITORING WELL DEVELOPMENT DATA
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Well ID</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC)</i> ¹	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm)</i> ²	<i>Temperature (°C)</i> ³	<i>Pump</i>
TMW-128	11/22/2006	28.70	37.12	1.35	1.5	6.84	916	15.3	Grundfos
					3.0	6.84	917	15.2	
					4.5	6.85	917	15.1	
					6.0	6.85	918	15.1	
					7.5	6.85	917	15.1	
TMW-129	11/22/2006	28.57	37.03	1.35	1.5	7.01	1195	15.1	Grundfos
					3.0	7.04	1185	15.1	
					4.5	7.06	1171	15.0	
					6.0	7.07	1162	14.9	
TMW-131	11/22/2006	27.78	37.09	1.49	1.5	7.08	1169	15.5	Grundfos
					3.0	7.10	1167	15.5	
					4.5	7.11	1163	15.5	
					6.0	7.12	1156	15.5	
TMW-132	11/22/2006	28.68	37.10	1.35	1.5	6.81	1247	15.1	Grundfos
					3.0	6.83	1247	15.1	
					4.5	6.84	1238	15.1	
					6.0	6.84	1235	15.1	
					7.5	6.84	1231	15.1	
TMW-138	11/22/2006	28.51	37.05	1.37	1.5	6.83	1180	14.9	Grundfos
					3.0	6.84	1178	15.0	
					4.5	6.85	1177	15.0	
					6.0	6.86	1174	15.1	
					7.5	6.85	1171	15.0	

¹ ft BTOC - feet below top of casing

² μS/cm - microsiemens per centimeter

³ °C - degrees celcius

Note: Stabilization based on pH, conductivity, and temperature readings. Turbidity not collected due to meter malfunction.

TABLE 5

**MONITORING WELL PURGING PARAMETER DATA
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Well ID</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC)¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm)²</i>	<i>Temperature (°C)³</i>	<i>Dissolved Oxygen (mg/l)⁴</i>	<i>ORP⁵ (mV)</i>	<i>Pump</i>
MW-124A	11/28/2006	31.48	37.16	0.91	1	6.98	1047	15.9	0.62	-240.4	Grundfos
					2	6.97	1040	15.9	0.56	-260.1	
					3.5	6.96	1039	15.9	0.49	-277.5	
MW-124B	11/28/2006	32.40	62.05	4.74	5	7.27	1249	16.0	0.24	-470.4	Grundfos
					10	7.28	1247	15.9	0.28	-416.6	
					15	7.25	1229	15.9	0.46	-350.8	
TMW-123	11/28/2006	28.97	37.07	1.30	1.3	6.85	1265	14.8	0.70	-333.9	Grundfos
					2.6	6.86	1270	14.8	0.49	-393.8	
					4.0	6.84	1271	14.8	0.39	-413.7	
TMW-124	11/28/2006	29.56	36.95	1.18	1.3	7.07	998	15.2	0.77	-309.2	Grundfos
					2.6	7.08	996	15.2	0.61	-335.1	
					4.0	7.09	994	15.1	0.50	-355.9	
TMW-125	11/27/2006	29.41	37.04	1.22	1.3	6.79	1040	15.1	1.68	-88.2	Grundfos
					2.6	6.78	1084	15.0	2.01	-102.2	
					3.9	6.81	1104	15.0	1.33	-112.7	
TMW-126	11/28/2006	29.20	37.00	1.25	1.3	7.07	1176	15.2	0.94	-350.2	Grundfos
					2.6	7.06	1177	15.1	0.55	-400.5	
					4.0	7.03	1173	15.2	0.38	-423.1	
TMW-127	11/27/2006	29.61	36.81	1.15	1.2	6.86	1141	15.2	1.45	-169.0	Grundfos
					2.4	6.86	1154	15.2	1.07	-181.2	
					3.5	6.92	1162	15.1	1.05	-181.0	

TABLE 5

**MONITORING WELL PURGING PARAMETER DATA
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Well ID</i>	<i>Date Conducted</i>	<i>Depth to Water (ft BTOC) ¹</i>	<i>Total Depth (ft BTOC)</i>	<i>Well Volume (gallons)</i>	<i>Volume Removed (gallons)</i>	<i>pH (standard units)</i>	<i>Conductivity (μS/cm) ²</i>	<i>Temperature (°C) ³</i>	<i>Dissolved Oxygen (mg/l) ⁴</i>	<i>ORP ⁵ (mV)</i>	<i>Pump</i>
TMW-128	11/27/2006	29.00	37.05	1.29	1.3	6.77	902	14.9	1.40	-117.5	Grundfos
					2.6	6.76	901	14.9	6.76	-123.0	
					4.0	6.76	901	14.9	6.68	-132.7	
TMW-129	11/28/2006	28.90	36.95	1.29	1.3	6.87	1137	14.9	1.40	-173.1	Grundfos
					2.6	6.88	1123	14.9	1.00	-187.2	
					4.0	6.89	1120	14.9	0.70	-190.7	
TMW-131	11/28/2006	29.10	37.00	1.26	1.3	6.85	1124	15.3	2.16	-184.1	Grundfos
					2.6	6.84	1125	15.3	1.59	-193.9	
					4.0	6.86	1127	15.3	1.18	-198.3	
TMW-132	11/27/2006	28.75	37.04	1.33	1.3	6.72	1226	14.8	1.49	-168.5	Grundfos
					2.6	6.71	1226	14.8	1.44	-177.2	
					4.0	6.71	1225	14.8	1.42	-166.4	
TMW-138	11/28/2006	28.65	37.05	1.34	1.5	6.76	1118	15.2	0.61	-389.6	Grundfos
					3.0	6.74	1114	15.1	0.50	-417.1	
					4.5	6.72	1111	15.1	0.39	-437.5	

¹ ft BTOC - feet below top of casing

² μS/cm - microsiemens per centimeter

³ °C - degrees celcius

⁴ mg/L - milligrams per liter

⁵ ORP (mV) - oxidation-reduction potential (millivolts)

Note: Stabilization based on pH, conductivity and temperature readings. Turbidity readings not collected due to meter malfunction.

TABLE 6

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

Sample Location:		SB-123		SB-123B		SB-124		SB-124A		SB-125	
Sample ID:		SB-123-22.5-25		S112006KGSB123B"22.5-25"		SB-124		S110806KGSB124A"22.5-25"		SB-125-7.5-10	
Sample Date:		11/2/2006		11/20/2006		11/1/2006		11/08/2006		11/2/2006	
Sample Depth ¹ :		22.5 - 25 ft		22.5 - 25 ft		22.5 - 25 ft		22.5 - 25 ft		7.5 - 10 ft	
Parameter	Units	Non-Residential	Non-Residential								
		Soil Pathway	Soil to GW Protection								
		Scenario ²	Pathway Scenario ²								
		a	b								
Volatile Organic Compounds											
Acetone	mg/kg ³	6200	3.8	-- ⁴	ND ⁵	--		ND		--	
Ethylbenzene	mg/kg	650	55	--	ND	--		ND		--	
Tetrachloroethene	mg/kg	140	0.18	--	ND	--		ND		--	
Xylene (total)	mg/kg	700	700	--	ND	--		ND		--	
Semivolatile Organic Compounds											
2-Methylnaphthalene	mg/kg	NA ⁶	NA	ND	--	ND		--		ND	
Anthracene	mg/kg	13	13	ND	--	ND		--		ND	
Benzo(a)anthracene	mg/kg	26	35	ND	--	ND		--		ND	
Benzo(a)pyrene	mg/kg	2.6	16	ND	--	ND		--		ND	
Benzo(b)fluoranthene	mg/kg	19	19	ND	--	ND		--		ND	
Benzo(k)fluoranthene	mg/kg	10	10	ND	--	ND		--		ND	
Chrysene	mg/kg	6.4	6.4	ND	--	ND		--		ND	
Dibenzofuran	mg/kg	1351	86.5	ND	--	ND		--		ND	
Fluoranthene	mg/kg	220	220	ND	--	ND		--		ND	
Fluorene	mg/kg	270	270	ND	--	ND		--		ND	
Naphthalene	mg/kg	320	140	ND	--	ND		--		ND	
Phenanthrene	mg/kg	NA	NA	ND	--	ND		--		ND	
Pyrene	mg/kg	140	140	ND	--	ND		--		ND	
Metals											
Aluminum	mg/kg	NA	NA	674	--	1690		--		4290	
Antimony	mg/kg	820	NA	ND	--	ND		--		ND	
Arsenic	mg/kg	38	5.84	1.7 J	--	3.5 J		--		5.4 J	
Barium	mg/kg	140000	NA	18.3 J	--	48.3		--		189	
Beryllium	mg/kg	4100	NA	ND	--	ND		--		0.12 J	

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-123</i>		<i>SB-123B</i>		<i>SB-124</i>		<i>SB-124A</i>		<i>SB-125</i>	
<i>Sample ID:</i>		<i>SB-123-22.5-25</i>		<i>S112006KGSB123B"22.5-25"</i>		<i>SB-124</i>		<i>S110806KGSB124A"22.5-25"</i>		<i>SB-125-7.5-10</i>	
<i>Sample Date:</i>		<i>11/2/2006</i>		<i>11/20/2006</i>		<i>11/1/2006</i>		<i>11/08/2006</i>		<i>11/2/2006</i>	
<i>Sample Depth¹:</i>		<i>22.5 - 25 ft</i>		<i>22.5 - 25 ft</i>		<i>22.5 - 25 ft</i>		<i>22.5 - 25 ft</i>		<i>7.5 - 10 ft</i>	
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential</i>	<i>Non-Residential</i>								
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>								
		<i>Scenario²</i>	<i>Pathway Scenario²</i>								
		<i>a</i>	<i>b</i>								
Cadmium	mg/kg	1000	NA	0.056 J	--	0.10 J	--			0.13 J	
Calcium	mg/kg	NA	NA	2940	--	3740	--			16800	
Chromium Total	mg/kg	4000	NA	1.9	--	3.4	--			7.9	
Cobalt	mg/kg	NA	NA	1.6 J	--	2.8 J	--			4.9 J	
Copper	mg/kg	76000	NA	0.69 J	--	ND	--			7.8	
Iron	mg/kg	NA	NA	2510	--	5510	--			10100	
Lead	mg/kg	1000	NA	1.6 J	--	3.4 J	--			6.7 J	
Magnesium	mg/kg	NA	NA	922	--	1460	--			6850	
Manganese	mg/kg	95000	NA	45.4	--	85.8	--			253	
Mercury	mg/kg	20	NA	ND	--	ND	--			0.016 J	
Nickel	mg/kg	41000	NA	3.6 J	--	7.2	--			12.0	
Potassium	mg/kg	NA	NA	161 J	--	362 J	--			1120	
Sodium	mg/kg	NA	NA	ND	--	57.0 J	--			ND	
Thallium	mg/kg	NA	NA	ND	--	ND	--			0.86 J	
Vanadium	mg/kg	14000	NA	2.8 J	--	6.5	--			14.2	
Zinc	mg/kg	610000	NA	7.0	--	17.0	--			35.8	

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>				<i>SB-125A</i>	<i>SB-126</i>	<i>SB-126A</i>	<i>SB-127</i>
<i>Sample ID:</i>				<i>S110806KGSB125A"7.5-10"</i>	<i>SB-126-27.5-30</i>	<i>S110806KGSB126A"27.5-30"</i>	<i>SB-127 27.5-30'</i>
<i>Sample Date:</i>				<i>11/08/2006</i>	<i>11/2/2006</i>	<i>11/08/2006</i>	<i>11/3/2006</i>
<i>Sample Depth¹ :</i>				<i>7.5 - 10 ft</i>	<i>27.5 - 30 ft</i>	<i>27.5 - 30 ft</i>	<i>27.5 - 30 ft</i>
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential</i>	<i>Non-Residential</i>				
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>				
		<i>Scenario²</i>	<i>Pathway Scenario²</i>				
		<i>a</i>	<i>b</i>				
<i>Volatile Organic Compounds</i>							
Acetone	mg/kg ³	6200	3.8	ND	--	ND	--
Ethylbenzene	mg/kg	650	55	ND	--	ND	--
Tetrachloroethene	mg/kg	140	0.18	ND	--	ND	--
Xylene (total)	mg/kg	700	700	ND	--	ND	--
<i>Semivolatile Organic Compounds</i>							
2-Methylnaphthalene	mg/kg	NA ⁶	NA	--	ND	--	ND
Anthracene	mg/kg	13	13	--	ND	--	ND
Benzo(a)anthracene	mg/kg	26	35	--	ND	--	ND
Benzo(a)pyrene	mg/kg	2.6	16	--	ND	--	ND
Benzo(b)fluoranthene	mg/kg	19	19	--	ND	--	ND
Benzo(k)fluoranthene	mg/kg	10	10	--	ND	--	ND
Chrysene	mg/kg	6.4	6.4	--	ND	--	ND
Dibenzofuran	mg/kg	1351	86.5	--	ND	--	ND
Fluoranthene	mg/kg	220	220	--	ND	--	ND
Fluorene	mg/kg	270	270	--	ND	--	ND
Naphthalene	mg/kg	320	140	--	ND	--	ND
Phenanthrene	mg/kg	NA	NA	--	ND	--	ND
Pyrene	mg/kg	140	140	--	ND	--	0.018 J ⁷
<i>Metals</i>							
Aluminum	mg/kg	NA	NA	--	889	--	796
Antimony	mg/kg	820	NA	--	ND	--	ND
Arsenic	mg/kg	38	5.84	--	1.2 J	--	1.4 J
Barium	mg/kg	140000	NA	--	21.9 J	--	15.0 J
Beryllium	mg/kg	4100	NA	--	ND	--	ND

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-125A</i>		<i>SB-126</i>		<i>SB-126A</i>		<i>SB-127</i>	
<i>Sample ID:</i>		<i>S110806KGSB125A"7.5-10"</i>		<i>SB-126-27.5-30</i>		<i>S110806KGSB126A"27.5-30"</i>		<i>SB-127 27.5-30'</i>	
<i>Sample Date:</i>		<i>11/08/2006</i>		<i>11/2/2006</i>		<i>11/08/2006</i>		<i>11/3/2006</i>	
<i>Sample Depth¹:</i>		<i>7.5 - 10 ft</i>		<i>27.5 - 30 ft</i>		<i>27.5 - 30 ft</i>		<i>27.5 - 30 ft</i>	
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential</i>	<i>Non-Residential</i>						
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>						
		<i>Scenario²</i>	<i>Pathway Scenario²</i>						
		<i>a</i>	<i>b</i>						
Cadmium	mg/kg	1000	NA	--	0.072 J	--		ND	
Calcium	mg/kg	NA	NA	--	3270	--		2360	
Chromium Total	mg/kg	4000	NA	--	2.2	--		2.0	
Cobalt	mg/kg	NA	NA	--	1.8 J	--		1.8 J	
Copper	mg/kg	76000	NA	--	0.83 J	--		0.98 J	
Iron	mg/kg	NA	NA	--	2710	--		2190	
Lead	mg/kg	1000	NA	--	2.0 J	--		1.7 J	
Magnesium	mg/kg	NA	NA	--	1070	--		835	
Manganese	mg/kg	95000	NA	--	47.2	--		30.5	
Mercury	mg/kg	20	NA	--	ND	--		ND	
Nickel	mg/kg	41000	NA	--	4.2 J	--		4.1 J	
Potassium	mg/kg	NA	NA	--	222 J	--		201 J	
Sodium	mg/kg	NA	NA	--	ND	--		ND	
Thallium	mg/kg	NA	NA	--	ND	--		ND	
Vanadium	mg/kg	14000	NA	--	3.7 J	--		3.1 J	
Zinc	mg/kg	610000	NA	--	9.5	--		8.9 J	

TABLE 6

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-127A</i>		<i>SB-128</i>	<i>SB-128A</i>	<i>SB-129</i>
<i>Sample ID:</i>		<i>S110806KGSB127A"27.5-30"</i>		<i>SB-128 5-7.5'</i>	<i>S110806KGSB128A"5-7.5"</i>	<i>SB-129</i>
<i>Sample Date:</i>		<i>11/08/2006</i>		<i>11/3/2006</i>	<i>11/08/2006</i>	<i>11/1/2006</i>
<i>Sample Depth¹:</i>		<i>27.5 - 30 ft</i>		<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential Soil Pathway Scenario²</i>	<i>Non-Residential Soil to GW Protection Pathway Scenario²</i>			
		<i>a</i>	<i>b</i>			
<i>Volatile Organic Compounds</i>						
Acetone	mg/kg ³	6200	3.8	ND	--	ND
Ethylbenzene	mg/kg	650	55	ND	--	ND
Tetrachloroethene	mg/kg	140	0.18	ND	--	ND
Xylene (total)	mg/kg	700	700	ND	--	ND
<i>Semivolatile Organic Compounds</i>						
2-Methylnaphthalene	mg/kg	NA ⁶	NA	--	ND	--
Anthracene	mg/kg	13	13	--	ND	--
Benzo(a)anthracene	mg/kg	26	35	--	ND	--
Benzo(a)pyrene	mg/kg	2.6	16	--	ND	--
Benzo(b)fluoranthene	mg/kg	19	19	--	ND	--
Benzo(k)fluoranthene	mg/kg	10	10	--	ND	--
Chrysene	mg/kg	6.4	6.4	--	ND	--
Dibenzofuran	mg/kg	1351	86.5	--	ND	--
Fluoranthene	mg/kg	220	220	--	ND	--
Fluorene	mg/kg	270	270	--	ND	--
Naphthalene	mg/kg	320	140	--	ND	--
Phenanthrene	mg/kg	NA	NA	--	ND	--
Pyrene	mg/kg	140	140	--	ND	--
<i>Metals</i>						
Aluminum	mg/kg	NA	NA	--	6900	--
Antimony	mg/kg	820	NA	--	ND	--
Arsenic	mg/kg	38	5.84	--	7.5 J	--
Barium	mg/kg	140000	NA	--	240	--
Beryllium	mg/kg	4100	NA	--	0.31 J	--

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>				<i>SB-127A</i>	<i>SB-128</i>	<i>SB-128A</i>	<i>SB-129</i>
<i>Sample ID:</i>				<i>S110806KGSB127A"27.5-30"</i>	<i>SB-128 5-7.5'</i>	<i>S110806KGSB128A"5-7.5"</i>	<i>SB-129</i>
<i>Sample Date:</i>				<i>11/08/2006</i>	<i>11/3/2006</i>	<i>11/08/2006</i>	<i>11/1/2006</i>
<i>Sample Depth¹:</i>				<i>27.5 - 30 ft</i>	<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential</i>	<i>Non-Residential</i>				
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>				
		<i>Scenario²</i>	<i>Pathway Scenario²</i>				
		<i>a</i>	<i>b</i>				
Cadmium	mg/kg	1000	NA	--	0.34 J	--	0.29 J
Calcium	mg/kg	NA	NA	--	18700	--	10800
Chromium Total	mg/kg	4000	NA	--	11.5	--	7.5
Cobalt	mg/kg	NA	NA	--	6.8	--	4.4 J
Copper	mg/kg	76000	NA	--	16.9	--	9.8
Iron	mg/kg	NA	NA	--	14600	--	9450
Lead	mg/kg	1000	NA	--	9.9 J	--	7.1 J
Magnesium	mg/kg	NA	NA	--	7750	--	4800
Manganese	mg/kg	95000	NA	--	437	--	238
Mercury	mg/kg	20	NA	--	0.039 J	--	0.015 J
Nickel	mg/kg	41000	NA	--	17.6	--	11.5
Potassium	mg/kg	NA	NA	--	1670	--	1170
Sodium	mg/kg	NA	NA	--	ND	--	96.7 J
Thallium	mg/kg	NA	NA	--	1.2 J	--	ND
Vanadium	mg/kg	14000	NA	--	20.4	--	13.3
Zinc	mg/kg	610000	NA	--	54.2	--	37.2

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

Sample Location:		SB-129A		SB-129A	SB-130	SB-130A
Sample ID:		S110806KGSB129A"5-7.5"		DUP-1	SB-130 5-7.5'	S11806KGSB130A"5-7.5"
Sample Date:		11/08/2006		11/8/2006	11/3/2006	11/8/2006
Sample Depth ¹ :		5 - 7.5 ft		5 - 7.5 ft	5 - 7.5 ft	5 - 7.5 ft
Parameter	Units	Non-Residential	Non-Residential	Duplicate		
		Soil Pathway	Soil to GW Protection			
		Scenario ²	Pathway Scenario ²			
		a	b			
Volatile Organic Compounds						
Acetone	mg/kg ³	6200	3.8	ND	ND	ND
Ethylbenzene	mg/kg	650	55	ND	ND	ND
Tetrachloroethene	mg/kg	140	0.18	ND	ND	ND
Xylene (total)	mg/kg	700	700	ND	ND	0.11 J
Semivolatile Organic Compounds						
2-Methylnaphthalene	mg/kg	NA ⁶	NA	--	--	--
Anthracene	mg/kg	13	13	--	--	--
Benzo(a)anthracene	mg/kg	26	35	--	--	--
Benzo(a)pyrene	mg/kg	2.6	16	--	--	--
Benzo(b)fluoranthene	mg/kg	19	19	--	--	--
Benzo(k)fluoranthene	mg/kg	10	10	--	--	--
Chrysene	mg/kg	6.4	6.4	--	--	--
Dibenzofuran	mg/kg	1351	86.5	--	--	--
Fluoranthene	mg/kg	220	220	--	--	--
Fluorene	mg/kg	270	270	--	--	--
Naphthalene	mg/kg	320	140	--	--	--
Phenanthrene	mg/kg	NA	NA	--	--	--
Pyrene	mg/kg	140	140	--	--	--
Metals						
Aluminum	mg/kg	NA	NA	--	--	--
Antimony	mg/kg	820	NA	--	--	--
Arsenic	mg/kg	38	5.84	--	--	--
Barium	mg/kg	140000	NA	--	--	--
Beryllium	mg/kg	4100	NA	--	--	--

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-129A</i>		<i>SB-129A</i>	<i>SB-130</i>	<i>SB-130A</i>
<i>Sample ID:</i>		<i>S110806KGSB129A"5-7.5"</i>		<i>DUP-1</i>	<i>SB-130 5-7.5'</i>	<i>S11806KGSB130A"5-7.5"</i>
<i>Sample Date:</i>		<i>11/08/2006</i>		<i>11/8/2006</i>	<i>11/3/2006</i>	<i>11/8/2006</i>
<i>Sample Depth¹:</i>		<i>5 - 7.5 ft</i>		<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>	<i>5 - 7.5 ft</i>
<i>Parameter</i>	<i>Units</i>	<i>Non-Residential</i>	<i>Non-Residential</i>			
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>			
		<i>Scenario²</i>	<i>Pathway Scenario²</i>			
		<i>a</i>	<i>b</i>			
Cadmium	mg/kg	1000	NA	--	--	0.31 J
Calcium	mg/kg	NA	NA	--	--	15200
Chromium Total	mg/kg	4000	NA	--	--	10.6
Cobalt	mg/kg	NA	NA	--	--	6.1 J
Copper	mg/kg	76000	NA	--	--	16.0
Iron	mg/kg	NA	NA	--	--	12400
Lead	mg/kg	1000	NA	--	--	9.6 J
Magnesium	mg/kg	NA	NA	--	--	5960
Manganese	mg/kg	95000	NA	--	--	258
Mercury	mg/kg	20	NA	--	--	0.027 J
Nickel	mg/kg	41000	NA	--	--	16.4
Potassium	mg/kg	NA	NA	--	--	1490
Sodium	mg/kg	NA	NA	--	--	ND
Thallium	mg/kg	NA	NA	--	--	ND
Vanadium	mg/kg	14000	NA	--	--	17.8
Zinc	mg/kg	610000	NA	--	--	48.9

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-130A</i>	<i>SB-131</i>	<i>SB-131A</i>		<i>SB-132</i>	<i>SB-137</i>
<i>Sample ID:</i>		<i>DUP-2</i>	<i>SB-131</i>	<i>S11806KGSB131A"12.5-15"</i>		<i>SB132 2.5-5</i>	<i>SB137 14-15</i>
<i>Sample Date:</i>		<i>11/8/2006</i>	<i>11/1/2006</i>	<i>11/8/2006</i>		<i>11/6/2006</i>	<i>11/6/2006</i>
<i>Sample Depth¹:</i>		<i>5 - 7.5 ft</i>	<i>12.5 - 15 ft</i>	<i>12.5 - 15 ft</i>		<i>2.5 - 5 ft</i>	<i>14 - 15 ft</i>
		<i>Non-Residential</i>	<i>Non-Residential</i>	<i>Duplicate</i>			
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>				
		<i>Scenario²</i>	<i>Pathway Scenario²</i>				
		<i>a</i>	<i>b</i>				
<i>Parameter</i>	<i>Units</i>						
<i>Volatile Organic Compounds</i>							
Acetone	mg/kg ³	6200	3.8	ND	--	ND	0.0037 J
Ethylbenzene	mg/kg	650	55	0.26 J	--	ND	ND
Tetrachloroethene	mg/kg	140	0.18	ND	--	ND	0.024
Xylene (total)	mg/kg	700	700	1.1 J	--	0.11 J	ND
<i>Semivolatile Organic Compounds</i>							
2-Methylnaphthalene	mg/kg	NA ⁶	NA	--	ND	--	ND
Anthracene	mg/kg	13	13	--	ND	--	ND
Benzo(a)anthracene	mg/kg	26	35	--	ND	--	0.023 J
Benzo(a)pyrene	mg/kg	2.6	16	--	ND	--	0.018 J
Benzo(b)fluoranthene	mg/kg	19	19	--	ND	--	0.036 J
Benzo(k)fluoranthene	mg/kg	10	10	--	ND	--	ND
Chrysene	mg/kg	6.4	6.4	--	ND	--	0.021 J
Dibenzofuran	mg/kg	1351	86.5	--	ND	--	ND
Fluoranthene	mg/kg	220	220	--	ND	--	0.048 J
Fluorene	mg/kg	270	270	--	ND	--	ND
Naphthalene	mg/kg	320	140	--	ND	--	ND
Phenanthrene	mg/kg	NA	NA	--	ND	--	0.029 J
Pyrene	mg/kg	140	140	--	ND	--	0.04 J
<i>Metals</i>							
Aluminum	mg/kg	NA	NA	--	2500	--	4200
Antimony	mg/kg	820	NA	--	ND	--	--
Arsenic	mg/kg	38	5.84	--	2.9 J	--	5.5 J
Barium	mg/kg	140000	NA	--	93.0	--	128
Beryllium	mg/kg	4100	NA	--	ND	--	0.19 J

**SUMMARY OF DETECTED ANALYTES IN SOIL
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

<i>Sample Location:</i>		<i>SB-130A</i>	<i>SB-131</i>	<i>SB-131A</i>	<i>SB-132</i>	<i>SB-137</i>
<i>Sample ID:</i>		<i>DUP-2</i>	<i>SB-131</i>	<i>S11806KGSB131A"12.5-15"</i>	<i>SB132 2.5-5</i>	<i>SB137 14-15</i>
<i>Sample Date:</i>		<i>11/8/2006</i>	<i>11/1/2006</i>	<i>11/8/2006</i>	<i>11/6/2006</i>	<i>11/6/2006</i>
<i>Sample Depth¹:</i>		<i>5 - 7.5 ft</i>	<i>12.5 - 15 ft</i>	<i>12.5 - 15 ft</i>	<i>2.5 - 5 ft</i>	<i>14 - 15 ft</i>
		<i>Non-Residential</i>	<i>Non-Residential</i>	<i>Duplicate</i>		
		<i>Soil Pathway</i>	<i>Soil to GW Protection</i>			
		<i>Scenario²</i>	<i>Pathway Scenario²</i>			
<i>Parameter</i>	<i>Units</i>	<i>a</i>	<i>b</i>			
Cadmium	mg/kg	1000	NA	--	0.12 J	--
Calcium	mg/kg	NA	NA	--	7290	--
Chromium Total	mg/kg	4000	NA	--	5.0	--
Cobalt	mg/kg	NA	NA	--	3.1 J	--
Copper	mg/kg	76000	NA	--	4.0	--
Iron	mg/kg	NA	NA	--	6040	--
Lead	mg/kg	1000	NA	--	3.8 J	--
Magnesium	mg/kg	NA	NA	--	2920	--
Manganese	mg/kg	95000	NA	--	131	--
Mercury	mg/kg	20	NA	--	ND	--
Nickel	mg/kg	41000	NA	--	8.0	--
Potassium	mg/kg	NA	NA	--	596	--
Sodium	mg/kg	NA	NA	--	64.8 J	--
Thallium	mg/kg	NA	NA	--	ND	--
Vanadium	mg/kg	14000	NA	--	8.9	--
Zinc	mg/kg	610000	NA	--	20.5	--

¹ feet below ground surface

² "Risk Based Standards for Kansas (RSK Manual)", Kansas Department of Health and Environment, March 1, 2003, Appendix A, Tier 2 Non-Residential Scenarios

³ mg/kg - milligrams per kilogram

⁴ -- not sampled

⁵ ND - not detected

⁶ NA - not applicable; no regulatory standard

⁷ J - estimated at the associated value; result not compared to Tier 2 standards.

TABLE 7

**SUMMARY OF ANALYTES DETECTED IN GROUNDWATER
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

Sample Location:			MW-124A	MW-124B	TMW-123	TMW-124	TMW-125	TMW-126	TMW-127
Sample ID:			GW112806GC005	GW112806GC006	GW112806GC009	GW112806GC008	GW112706GC001	GW112806GC011	GW112706GC003
Sample Date:			11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/27/2006	11/28/2006	11/27/2006
Parameters	Units	Non-Residential GW Pathway Scenario ¹ a							
Volatile Organic Compounds									
2-Butanone (Methyl Ethyl Ketone)	mg/l ²	2.8	ND ³	0.0029 J ⁴	ND	ND	ND	0.00096 J	ND
Chloroform (Trichloromethane)	mg/l	0.08	ND	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl Chloride)	mg/l	0.04	ND	ND	ND	ND	ND	ND	0.0044
cis-1,2-Dichloroethene	mg/l	0.07	0.00026 J	0.00026 J	0.0007	0.0083	ND	0.0072	0.77 ^a
Methylene chloride	mg/l	0.005	ND	ND	ND	ND	ND	ND	0.027 ^a
Tetrachloroethene	mg/l	0.005	ND	ND	0.00037 J	ND	0.00052 J	ND	ND
Toluene	mg/l	1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	mg/l	0.1	ND	ND	ND	0.00029 J	ND	0.00021 J	0.0057
Trichloroethene	mg/l	0.005	ND	ND	0.00044 J	0.00088 J	0.00045 J	0.00044 J	ND
Semivolatile Organic Compounds									
2-Methylnaphthalene	mg/l	NA ⁵	ND	ND	ND	ND	ND	ND	ND
Metals									
Aluminum	mg/l	NA	1.57 J	0.261 J	5.14 J	1.88 J	2.54	1.02 J	5.46
Antimony	mg/l	0.006	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/l	0.01	0.0089 J	ND	0.0109 ^a	0.0062 J	ND	ND	0.0278 ^a
Barium	mg/l	2.0	0.526	0.769	0.219	0.254	0.321	0.496	0.302
Beryllium	mg/l	0.004	ND	ND	ND	ND	ND	ND	ND
Calcium	mg/l	NA	108	125	179	140	147	150	142
Chromium Total	mg/l	0.1	0.008 J	ND	0.0251	0.0109	0.0067 J	0.0103	0.0094 J
Cobalt	mg/l	NA	ND	ND	0.0035 J	0.0024 J	0.0041 J	ND	0.0037 J
Copper	mg/l	1.3	0.0023 J	ND	0.0057 J	ND	0.0031 J	ND	0.0087 J
Iron	mg/l	NA	29.1	11.6	15.1	10.8	10.6	18.8	23
Lead	mg/l	0.015	0.0036 J	–	0.0062	0.0022 J	0.0029 J	ND	0.007
Magnesium	mg/l	NA	37.5	37.1	32.2	38.2	33	42.2	38.1
Manganese	mg/l	0.05	2.34	2.32	1.25 ^a	2.19 ^a	2.05 ^a	1.65 ^a	1.5 ^a
Nickel	mg/l	0.10	ND	ND	0.0204 J	0.0102 J	ND	0.0079 J	ND
Potassium	mg/l	NA	12.8	14.6	10.9	9.21	9.2	9.79	8.98
Selenium	mg/l	0.05	ND	ND	ND	ND	0.006	ND	ND
Sodium	mg/l	NA	35.5	115	60.4	36.5	54.4	71.2	45.8
Thallium	mg/l	NA	ND	0.0059 J	0.0048 J	0.0052 J	0.0071 J	0.0048 J	ND
Vanadium	mg/l	0.71	0.0047 J	ND	0.0131 J	0.0046 J	0.0068 J	0.0028 J	0.0159 J
Zinc	mg/l	5	0.0194 J	ND	0.0284	0.0135 J	ND	0.007 J	ND

TABLE 7

**SUMMARY OF ANALYTES DETECTED IN GROUNDWATER
ADDITIONAL GROUNDWATER AND SOIL SAMPLING DATA
FORMER GM FAIRFAX I PLANT
KANSAS CITY, KANSAS**

Sample Location:			TMW-128	TMW-129	TMW-129	TMW-131	TMW-131	TMW-132	TMW-138
Sample ID:			GW112706GC004	GW112806GC003	GW112806GC004	GW112806GC001	GW112806GC002	GW112706GC005	GW112806GC010
Sample Date:			11/27/2006	11/28/2006	11/28/2006	11/28/2006	11/28/2006	11/27/2006	11/28/2006
Parameters	Units	Non-Residential GW Pathway Scenario ¹			Duplicate		Duplicate		
		a							
Volatile Organic Compounds									
2-Butanone (Methyl Ethyl Ketone)	mg/l ²	2.8	ND	ND	ND	ND	-- ⁶	ND	--
Chloroform (Trichloromethane)	mg/l	0.08	ND	ND	ND	ND	--	ND	--
Chloromethane (Methyl Chloride)	mg/l	0.04	ND	ND	ND	ND	--	ND	--
cis-1,2-Dichloroethene	mg/l	0.07	0.0008	0.0036	0.0037	0.002	--	0.0044	--
Methylene chloride	mg/l	0.005	ND	ND	ND	ND	--	ND	--
Tetrachloroethene	mg/l	0.005	0.0045	ND	ND	ND	--	ND	0.00032 J
Toluene	mg/l	1	ND	ND	ND	ND	--	ND	--
trans-1,2-Dichloroethene	mg/l	0.1	ND	0.00016 J	0.00019 J	ND	--	0.00022 J	--
Trichloroethene	mg/l	0.005	0.00091 J	0.00054 J	0.00051 J	ND	--	ND	--
Semivolatile Organic Compounds									
2-Methylnaphthalene	mg/l	NA ⁵	ND	ND	ND	ND	ND	0.0011 J	--
Metals									
Aluminum	mg/l	NA	1.88	0.421 J	0.49 J	1.2 J	0.913 J	1.75	--
Antimony	mg/l	0.006	ND	ND	ND	ND	ND	ND	--
Arsenic	mg/l	0.01	ND	ND	ND	0.0044 J	ND	0.0093 J	--
Barium	mg/l	2.0	0.23	0.274	0.277	0.285	0.292	0.473	--
Beryllium	mg/l	0.004	ND	ND	ND	ND	ND	ND	--
Calcium	mg/l	NA	135	147	148	166	169	182	--
Chromium Total	mg/l	0.1	0.0087 J	0.0086 J	0.0111	0.0147	0.0112	0.0213	--
Cobalt	mg/l	NA	0.0029 J	0.0028 J	0.0025 J	0.0022 J	0.0023 J	0.0042 J	--
Copper	mg/l	1.3	0.002 J	ND	ND	ND	ND	0.0034 J	--
Iron	mg/l	NA	3.34	5.31	5.45	14.8	15.3	22.3	--
Lead	mg/l	0.015	0.0036 J	ND	ND	0.0028 J	ND	0.0024 J	--
Magnesium	mg/l	NA	32.8	38.8	39.1	41.3	42.3	44.6	--
Manganese	mg/l	0.05	0.782 ⁴	1.68 ⁴	1.69 ⁴	1.86 ⁴	1.89 ⁴	2.51 ⁴	--
Nickel	mg/l	0.10	0.0173 J	0.0106 J	0.0126 J	0.0108 J	0.009 J	0.018 J	--
Potassium	mg/l	NA	7.37	8.95	9.09	8.89	9.08	11.1	--
Selenium	mg/l	0.05	0.011	ND	ND	ND	ND	ND	--
Sodium	mg/l	NA	23.8	68.9	69.7	35	36.4	37.1	--
Thallium	mg/l	NA	ND	0.0051 J	ND	0.0064 J	ND	0.0057 J	--
Vanadium	mg/l	0.71	0.0049 J	ND	ND	0.0032 J	0.0024 J	0.0052 J	--
Zinc	mg/l	5	ND	0.0072 J	0.0103 J	ND	ND	ND	--

¹ "Risk Based Standards for Kansas (RSK Manual)", Kansas Department of Health and Environment, March 1, 2003, Appendix A, Tier 2 Non-Residential Scenarios

² mg/L - milligrams per liter

³ ND - parameter not detected

⁴ J - estimated at the associated value. Result not compared to Tier 2 standard

⁵ NA - not applicable; no regulatory standard

⁶ - - not sampled for this parameter

Boxed results indicate exceedence of target remedial goal criteria