



**CONESTOGA-ROVERS
& ASSOCIATES**

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

TO: Scott Adamowski

REF. NO.: 17358-23

FROM: Thomas Kinney/eb/66/Det.

DATE: May 26, 2005

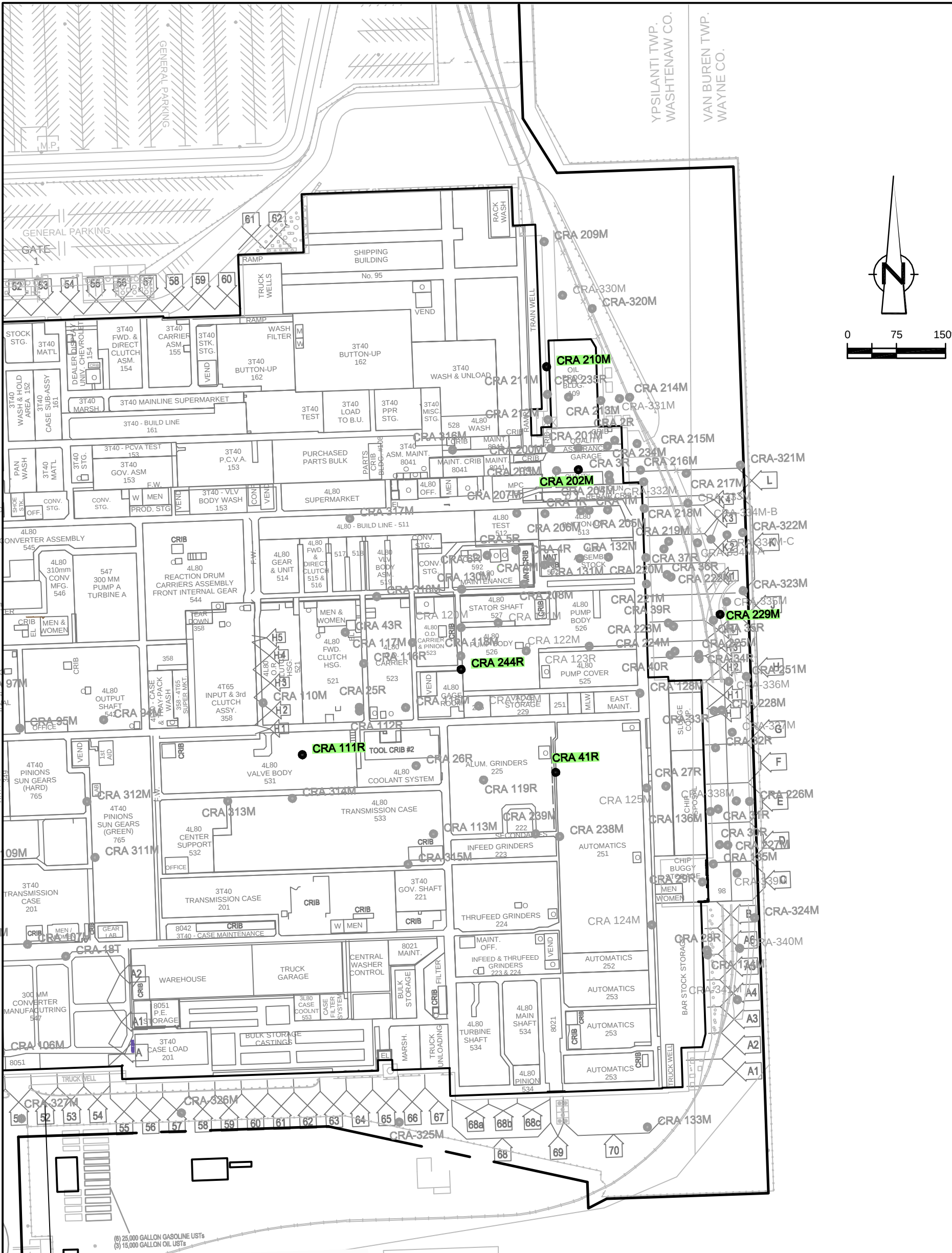
C.C.:

RE: **LNAPL Characterization
Eastern End of GMPT Willow Run Facility
Ypsilanti, Michigan**

**DRAFT
PRIVILEGED AND CONFIDENTIAL**

This memorandum summarizes the results of the light non-aqueous phase liquid (LNAPL) characterization activities that were completed at Eastern End of the General Motors Power Train (GMPT) Willow Run (Site) located in Ypsilanti, Michigan. The characterization activities summarized in this memorandum were completed between October 2002 and January 2004. The LNAPL was characterized to provide information to help make decisions regarding disposal or re-use of recovered LNAPL.

LNAPL samples were collected from three monitoring wells and three recovery wells from the Eastern End of the Site. Samples collected from CRA-41R, CRA-11R, CRA-244R, CRA-202M, CRA-210M, and CRA-229M were analyzed for general characterization of the LNAPL. Table 1 summarizes the results of the general LNAPL characterization. Samples collected from five of these six wells were also analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and inorganics. Samples from CRA-202M were not analyzed for VOCs, SVOCs, or inorganics. Table 2 summarizes the results of the analytical testing. Figure 1 identifies the LNAPL sample locations.



LEGEND

CRA 244R

CRA-251M

CRA 29R

CRA 18T

LNAPL SAMPLE LOCATIONS

MONITORING WELLS

RECOVERY WELL

RECOVERY TRENCH

figure 1

LNAPL SAMPLE LOCATIONS
EASTERN END GMPT WILLOW RUN FACILITY
Ypsilanti, Michigan



TABLE 1
LNAPL CHARACTERISTICS
EASTERN WELLS
GENERAL MOTORS CORPORATION
GMPT - WILLOW RUN
YPSILANTI, MICHIGAN

<i>Sample Location:</i>			CRA-41R	CRA-111R	CRA-111R	CRA-202M	CRA-202M
<i>Sample Identification</i>			O-17358-012004-MM-516	O-17358-012004-MM-514	O-17358-012004-MM-515	O-017358-101002-JD-004	O-17358-012004-MM-512
<i>Sample Date</i>	<u>Units</u>	<u>Method</u>	1/20/2004	1/20/2004	1/20/2004	10/10/2002	1/20/2004
<u>Parameters</u>							
Chlorine	mg/L	SW-846 9253	--	--	--	780	--
Heating value	BTU/gal	D-240	--	--	--	142483	--
Heating value	BTU/lb	D-240	--	--	--	19396	--
Ignitability	deg f	SW-846 1010	> 180	> 180	> 180	200	> 180
Phosphorus	ug/g	D-2795	--	--	--	334	--
Specific gravity	API	D-4052	--	--	--	28.9	--
Specific gravity	lbs/gal	D-4052	--	--	--	7.346	--
Specific gravity	SG	D-4052/SM-2710F	0.79	0.86	0.85	0.8821	0.86
Sulfur	%	D-4294	--	--	--	0.23	--
Viscosity	cp	D-2196	12.5	37.5	38.5	--	74.3
Viscosity at 100C	cST	D-445	--	--	--	6.778	--
Viscosity at 40C	cST	D-445	--	--	--	38.01	--
Carbon Range		FID	C9-C22	C11 to C34	C11 to C34	C-11 to C-20 (Fuel Oil), C-11 to C-28 (Total Sample)	C9 to C36
Estimated Oil Type		FID	Petroleum Distillate	Mineral Oil	Mineral Oil	Fuel Oil, Hydraulic Fluid/Lube Oil	Petroleum Distillate/Mineral Oil

TABLE 1
LNAPL CHARACTERISTICS
EASTERN WELLS
GENERAL MOTORS CORPORATION
GMPT - WILLOW RUN
YPSILANTI, MICHIGAN

Sample Location:		CRA-210M-B		CRA-229M		CRA-229M		CRA-244R		CRA-244R	
Sample Identification		O-17358-012004-MM-513		O-017358-101002-JD-005		O-17358-012004-MM-525		O-017358-101002-JD-006		O-17358-012004-MM-526	
Sample Date		<u>Units</u>	1/20/2004	10/10/2002		1/20/2004		10/10/2002		1/20/2004	
<u>Parameters</u>											
Chlorine	mg/L	--		1020		--		864		--	
Heating value	BTU/gal	--		139239		--		137587		--	
Heating value	BTU/lb	--		19336		--		19644		--	
Ignitability	deg f	> 180		200		> 180		200		> 180	
Phosphorus	ug/g	--		36		--		864		--	
Specific gravity	API	--		32.1		--		36.7		--	
Specific gravity	lbs/gal	--		7.201		--		7.004		--	
Specific gravity	SG	0.84		0.8647		0.84		0.841		0.78	
Sulfur	%	--		0.26		--		0.22		--	
Viscosity	cp	79.0		--		19.8		--		14.3	
Viscosity at 100C	cST	--		2.368		--		1.831		--	
Viscosity at 40C	cST	--		8.62		--		5.434		--	
Carbon Range		C11 to C36		C-11 to C-22		C11 to C22		C-11 to C-22		C9 to C24	
Estimated Oil Type		Mineral Oil		Diesel Range		Petroleum Distillate		Diesel Range		Petroleum Distillate	

TABLE 2
LNAPL ANALYTICAL RESULTS
EASTERN WELLS
GENERAL MOTORS CORPORATION
GMPT - WILLOW RUN
YPSILANTI, MICHIGAN

	CRA-41R	CRA-111R	CRA-111R	CRA-210M-B	CRA-229M	CRA-244R
	O-17358-012004-MM-516	O-17358-012004-MM-514	O-17358-012004-MM-515	O-17358-012004-MM-513	O-17358-012004-MM-525	O-17358-012004-MM-526
	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004
			Duplicate			
VOC (mg/kg)						
1,1,1-Trichloroethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,1,2,2-Tetrachloroethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,1,2-Trichloroethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,1-Dichloroethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,1-Dichloroethene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,2,4-Trichlorobenzene	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
1,2-Dibromo-3-chloropropane (DBCP)	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
1,2-Dibromoethane (Ethylene Dibromide)	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,2-Dichlorobenzene	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
1,2-Dichloroethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,2-Dichloropropane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
1,3-Dichlorobenzene	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
1,4-Dichlorobenzene	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
2-Butanone (Methyl Ethyl Ketone)	ND(12)	ND(5.6)	ND(5.6)	ND(5.4)	ND(12)	ND(30)
2-Hexanone	ND(12)	ND(5.6)	ND(5.6)	ND(5.4)	ND(12)	ND(30)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(12)	ND(5.6)U	ND(5.6)	ND(5.4)U	ND(12)U	ND(30)U
Acetone	ND(12)U	ND(5.6)U	ND(5.6)U	ND(5.4)U	ND(12)U	ND(30)U
Benzene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	0.17 J	ND(7.5)
Bromodichloromethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Bromoform	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Bromomethane (Methyl Bromide)	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
Carbon disulfide	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Carbon tetrachloride	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Chlorobenzene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	2.6 J
Chloroethane	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
Chloroform (Trichloromethane)	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Chloromethane (Methyl Chloride)	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
cis-1,2-Dichloroethene	ND(1.5)	ND(0.7)	ND(0.69)	ND(0.67)	ND(1.4)	ND(3.7)
Cyclohexane	ND(12)	ND(5.6)	ND(5.6)	ND(5.4)	0.36 J	ND(30)
Dibromochloromethane	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Dichlorodifluoromethane (CFC-12)	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
Ethylbenzene	3	0.21 J	0.22 J	ND(1.3)	2 J	3.6 J
Isopropylbenzene	3.6 J	ND(2.7)	ND(2.7)	ND(2.6)	1.3 J	4 J
Methyl acetate	ND(5.7)U	ND(2.7)	ND(2.7)U	ND(2.6)U	ND(5.6)	ND(14)
Methyl cyclohexane	2.4 J	ND(1.4)	ND(1.4)	ND(1.3)	1.8 J	2.1 J
Methyl Tert Butyl Ether	ND(12)	ND(5.6)	ND(5.6)	ND(5.4)	ND(12)	ND(30)
Methylene chloride	ND(3)	ND(1.4)	0.25 J	ND(1.3)	0.79 J	2.1 J
Styrene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Tetrachloroethene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Toluene	ND(3)	0.095 J	0.082 J	ND(1.3)	0.65 J	1.9 J
trans-1,2-Dichloroethene	ND(1.5)	ND(0.7)	ND(0.69)	ND(0.67)	ND(1.4)	ND(3.7)
Trichloroethene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
Trichlorofluoromethane (CFC-11)	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
Trifluorotrichloroethane (Freon 113)	ND(12)	ND(5.6)	ND(5.6)	ND(5.4)	ND(12)	ND(30)
Vinyl chloride	ND(5.7)	ND(2.7)	ND(2.7)	ND(2.6)	ND(5.6)	ND(14)
Xylene (total)	2.9 J	0.23 J	0.26 J	0.89 J	14	21
cis-1,3-Dichloropropene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)
trans-1,3-Dichloropropene	ND(3)	ND(1.4)	ND(1.4)	ND(1.3)	ND(2.9)	ND(7.5)

TABLE 2
LNAPL ANALYTICAL RESULTS
EASTERN WELLS
GENERAL MOTORS CORPORATION
GMPT - WILLOW RUN
YPSILANTI, MICHIGAN

	CRA-41R	CRA-111R	CRA-111R	CRA-210M-B	CRA-229M	CRA-244R
	O-17358-012004-MM-516	O-17358-012004-MM-514	O-17358-012004-MM-515	O-17358-012004-MM-513	O-17358-012004-MM-525	O-17358-012004-MM-526
	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004
			Duplicate			
SVOC (mg/Kg)						
2,4,5-Trichlorophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2,4,6-Trichlorophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2,4-Dichlorophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2,4-Dimethylphenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2,4-Dinitrophenol	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
2,4-Dinitrotoluene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2,6-Dinitrotoluene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2-Chloronaphthalene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2-Chlorophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2-Methylnaphthalene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2-Methylphenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
2-Nitroaniline	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
2-Nitrophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
3,3'-Dichlorobenzidine	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
3-Nitroaniline	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
4,6-Dinitro-2-methylphenol	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
4-Bromophenyl phenyl ether	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
4-Chloro-3-methylphenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
4-Chloroaniline	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
4-Chlorophenyl phenyl ether	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
4-Methylphenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
4-Nitroaniline	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
4-Nitrophenol	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
Acenaphthene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Acenaphthylene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Acetophenone	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Anthracene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Atrazine	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzaldehyde	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzo(a)anthracene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzo(a)pyrene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzo(b)fluoranthene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzo(g,h,i)perylene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Benzo(k)fluoranthene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Biphenyl	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
bis(2-Chloroethoxy)methane	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
bis(2-Chloroethyl)ether	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
bis(2-Ethylhexyl)phthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Butyl benzylphthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Caprolactam	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Carbazole	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Chrysene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Dibenz(a,h)anthracene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Dibenzofuran	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Diethyl phthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Dimethyl phthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Di-n-butylphthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Di-n-octyl phthalate	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Fluoranthene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Fluorene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Hexachlorobenzene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Hexachlorobutadiene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Hexachlorocyclopentadiene	ND(4800)	ND(1900)	ND(1900)	ND(1900)	ND(4800)	ND(4800)
Hexachloroethane	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Indeno(1,2,3-cd)pyrene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Isophorone	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Naphthalene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Nitrobenzene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)

TABLE 2
LNAPL ANALYTICAL RESULTS
EASTERN WELLS
GENERAL MOTORS CORPORATION
GMPT - WILLOW RUN
YPSILANTI, MICHIGAN

	CRA-41R	CRA-111R	CRA-111R	CRA-210M-B	CRA-229M	CRA-244R
	O-17358-012004-MM-516	O-17358-012004-MM-514	O-17358-012004-MM-515	O-17358-012004-MM-513	O-17358-012004-MM-525	O-17358-012004-MM-526
	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004	1/20/2004
			Duplicate			
N-Nitrosodi-n-propylamine	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
N-Nitrosodiphenylamine	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Pentachlorophenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Phenanthrene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Phenol	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
Pyrene	ND(1000)	ND(400)	ND(400)	ND(400)	ND(1000)	ND(1000)
<u>Inorganics (mg/Kg)</u>						
Aluminum	32.0	ND(20.0)	ND(20.0)	30.0	ND(20.0)	ND(20.0)
Antimony	ND(6.0)	ND(6.0)	ND(6.0)	ND(6.0)	ND(6.0)	ND(6.0)
Arsenic	4.6	ND(1.0)	ND(1.0)	1.9	2.4	1.5
Barium	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	27.3
Beryllium	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Cadmium	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Calcium	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)
Chromium Total	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cobalt	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Copper	4.7	ND(2.5)	ND(2.5)	6.2	ND(2.5)	ND(2.5)
Cyanide (total)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Iron	133	19.4	32.3	162	15.4	167
Lead	0.66	ND(0.30)	ND(0.30)	1.6	3.1	7.0
Magnesium	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)
Manganese	ND(1.5)	ND(1.5)	ND(1.5)	6.2	ND(1.5)	ND(1.5)
Mercury	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Nickel	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Potassium	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)
Selenium	ND(0.50)	0.52	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Silver	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Sodium	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)	ND(500)
Thallium	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vanadium	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Zinc	6.6	ND(2.0)	ND(2.0)	17.6	ND(2.0)	14.3

Notes:

- ND () Not detected above the value in parenthesis.
J The associated value is qualified as an estimated quantity.
U The analyte was analyzed for, but was qualified not detected above the value identified.
UJ The analyte was reported or qualified as not detected however, the sample report limit is qualified as an estimated value and may be inaccurate or imprecise.
--- Not analyzed