TABLE 8B

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
PHASE IV-C HYDROGEOLOGICAL INVESTIGATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	*Cole Drain*	*Cole Drain*	*Cole Drain*	*Cole Drain*	*Retention Pond*	*Retention Pond*	*Cole Drain*	*Cole Drain*	*Cole Drain*	*Cole Drain*
Sample ID	*1*	*2*	*3*	*4*	*Inlet*	*Outlet*	*Upstream*	*8*	*9*	*10*
Depth (feet bgs)	--	--	--	--	--	--	--	--	--	--
Date Sampled	*1/7/1987*	*1/7/1987*	*1/7/1987*	*1/7/1987*	*6/15/1987*	*6/15/1987*	*6/15/1987*	*6/8/1988*	*6/8/1988*	*6/8/1988*
Date Analyzed	*1/7/1987*	*1/7/1987*	*1/7/1987*	*1/7/1987*	*6/16/1987*	*6/16/1987*	*6/16/1987*	*6/14/1988*	*6/14/1988*	*6/14/1988*
Units	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/l)										
Volatile Organic Compounds										
Trichloroethylene	4.4	3.6	4.8	2.7	2.0	2.0	4.0	ND (2.0)	ND (2.0)	2.0
Tetrachloroethylene	NA	NA	NA	NA	ND (2.0)	ND (2.0)	11	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	3.0	ND (2.0)	ND (2.0)	NA	NA	NA
Chloroform	NA	NA	NA	NA	5.0	3.0	ND (1.0)	NA	NA	NA
1,1,1-trichloroethane	NA	NA	NA	NA	8.0	4	ND (2.0)	NA	NA	NA

Notes:
NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:					*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*12/06/85*	*05/05/86*	*01/21/87*	*12/21/88*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	84	240	150	97
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	4	10	4	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	ND(2)	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	ND(10)	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	85-7	85-7	85-7	85-7
Sample ID:					85-7	85-7	85-7	85-7
Sample Depth (feet bgs) [1]*:*					20.6 - 25.6	20.6 - 25.6	20.6 - 25.6	20.6 - 25.6
Sample Date:					03/17/89	06/15/89	09/20/89	12/21/89
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	70	45	40	29
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1.2	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	85-7	85-7	85-7	85-7
Sample ID:					85-7	85-7	85-7	85-7
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*03/16/90*	*06/18/90*	*09/14/90*	*12/17/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	23	21	35	21
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/11/91*	*06/13/91*	*09/12/91*	*12/13/91*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	22	34	25	22
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	1	2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:					*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	37	38	38	33
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3	1.6	1.1	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:					*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*03/11/93*	*06/14/93*	*09/15/93*	*12/17/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	23	17	21	13
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*03/16/94*	*06/14/94*	*09/14/94*	*12/16/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	12	11	12	7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7* *85-7* *20.6 - 25.6* *03/17/95* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *06/20/95* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *09/14/95* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *12/18/95* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	6.8	4.4	3.1	1.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(2)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7*	*85-7*	*85-7*	*85-7*
Sample ID:					*85-7*	*85-7*	*85-7*	*85-7*
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*
Sample Date:					*03/19/96*	*06/13/96*	*09/13/96*	*12/12/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.8	1.5	2	1.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7* *85-7* *20.6 - 25.6* *03/13/97* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *06/19/97* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *09/11/97* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *12/16/97* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1	1.4	1.4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7* *85-7* *20.6 - 25.6* *03/12/98* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *06/16/98* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *09/17/98* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *12/16/98* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7* *85-7* *20.6 - 25.6* *03/10/99* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *06/15/99* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *09/20/99* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *12/16/99* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	1.3	1.7	1.1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7* *85-7* *20.6 - 25.6* *03/16/00* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *06/13/00* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *09/22/00* *ug/L*	*85-7* *85-7* *20.6 - 25.6* *12/20/00* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1.2	1.5
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*85-7*	*85-7*	*85-7*	*86-2*
Sample ID:					*85-7*	*85-7*	*85-7*	*86-2*
Sample Depth (feet bgs) [1]*:*					*20.6 - 25.6*	*20.6 - 25.6*	*20.6 - 25.6*	*27.5 - 32.5*
Sample Date:					*03/21/01*	*06/13/01*	*09/13/01*	*05/05/86*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1	55,000
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	1	12
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	4
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	<10
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*01/23/87*	*12/21/88*	*03/15/89*	*03/20/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	90,000	100,000	5,400	9,540
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	<200	<100	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	<200	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	<1000	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*03/30/89*	*04/06/89*	*04/14/89*	*04/21/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	3,040	NA	2,110
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*05/05/89*	*05/22/89*	*06/09/89*	*06/23/89*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2,210	1,700	1,370	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					07/10/89	07/28/89	08/11/89	08/22/89
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	305	NA	400	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/14/89*	*10/02/89*	*10/12/89*	*10/25/89*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1,270	NA	1,460	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*11/08/89*	*12/05/89*	*12/15/89*	*01/05/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	500	NA	340	530
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*02/09/90*	*03/07/90*	*03/07/90*	*04/04/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	780	1,600	NA	1,100
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*05/03/90*	*06/04/90*	*07/05/90*	*08/03/90*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	900	700	1,000	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					08/08/90	09/11/90	10/02/90	11/09/90
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1,300	1,000	1,300	1,000
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/03/90*	*12/07/90*	*01/14/91*	*03/05/91*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	740	NA	70	890
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2* *86-2* *27.5 - 32.5* *03/26/91* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *06/06/91* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *09/03/91* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *09/26/91* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	930	1,000	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*12/02/91*	*01/06/92*	*03/10/92*	*06/30/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	660	410	184
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					07/17/92	08/13/92	09/11/92	10/16/92
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	600	500	470	650
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	ND(1)	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*11/12/92*	*12/10/92*	*01/15/93*	*02/12/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**360**	**410**	**500**	**420**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(5)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2* *86-2* *27.5 - 32.5* *03/11/93* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *04/15/93* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *05/13/93* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *06/14/93* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	320	360	300	210
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)0	NA	NA	ND(1)0
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*07/16/93*	*08/11/93*	*09/15/93*	*10/19/93*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	240	200	180	210
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	ND(1)0	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2* *86-2* *27.5 - 32.5* *11/17/93* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *12/17/93* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *01/13/94* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *03/16/94* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	180	130	150	120
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(5)	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					*09/07/94*	*09/15/94*	*10/05/94*	*11/09/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	68	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(5)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*12/07/94*	*12/16/94*	*01/04/95*	*02/08/95*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	27	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*03/08/95*	*03/17/95*	*04/05/95*	*05/03/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	17	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*06/07/95*	*06/20/95*	*07/05/95*	*08/03/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	13	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*09/07/95*	*09/14/95*	*10/04/95*	*11/01/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	6.6	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*12/06/95*	*12/19/95*	*01/03/96*	*02/07/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	7.3	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2* *86-2* *27.5 - 32.5* *03/06/96* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *03/19/96* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *04/03/96* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *05/01/96* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	8.5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					06/05/96	06/13/96	06/26/96	07/31/96
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	9.3	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

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NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					09/04/96	09/13/96	10/02/96	10/30/96
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	8.1	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					12/04/96	12/12/96	12/31/96	01/29/97
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	8.4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					*02/26/97*	*03/13/97*	*03/26/97*	*04/30/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5.2	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*05/28/97*	*06/19/97*	*07/02/97*	*08/06/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	6	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					09/04/97	09/11/97	10/01/97	11/05/97
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5.6	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*12/03/97*	*12/16/97*	*12/31/97*	*01/28/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5.2	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*02/25/98*	*03/12/98*	*03/26/98*	*04/29/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	3.4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*05/27/98*	*06/16/98*	*07/01/98*	*07/29/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*09/02/98*	*09/17/98*	*09/30/98*	*10/28/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/02/98*	*12/16/98*	*12/31/98*	*01/27/99*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					02/24/99	03/18/99	03/24/99	04/29/99
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*06/01/99*	*06/15/99*	*06/30/99*	*07/28/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	8.1	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					*09/01/99*	*09/20/99*	*09/29/99*	*11/03/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	9.8	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*12/01/99*	*12/16/99*	*12/29/99*	*02/02/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	7.4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					03/01/00	03/16/00	03/29/00	04/25/00
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	7.8	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:					*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*					*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*05/31/00*	*06/13/00*	*06/28/00*	*07/26/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	6	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					08/30/00	09/22/00	11/01/00	11/29/00
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	8.4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	86-2	86-2	86-2	86-2
Sample ID:					86-2	86-2	86-2	86-2
Sample Depth (feet bgs) [1]*:*					27.5 - 32.5	27.5 - 32.5	27.5 - 32.5	27.5 - 32.5
Sample Date:					12/20/00	01/03/01	02/26/01	03/21/01
Unit					ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**10**	NA	NA	**7.4**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-2* *86-2* *27.5 - 32.5* *03/28/01* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *04/24/01* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *05/30/01* *ug/L*	*86-2* *86-2* *27.5 - 32.5* *06/13/01* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	NA	6.6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-2*	*86-2*	*86-2*	*86-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-2*	*86-2*	*86-2*	*86-2*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*	*27.5 - 32.5*
Sample Date:					*06/25/01*	*07/16/01*	*08/22/01*	*09/13/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	NA	6.6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water Interface*	*Residential & Commercial I*	*Groundwater Contact*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:	*Drinking Water*	*Criteria* [2]	*Groundwater Volatilization to*	*Criteria* [2]	*05/05/86*	*01/21/87*	*06/08/88*	*12/21/88*
Unit	*Criteria* [2]		*Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1,400	340	170	630
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	10	4	10	ND(20)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(10)	ND(2)	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	ND(50)	ND(10)	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*03/16/89*	*06/15/89*	*09/20/89*	*12/21/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	380	150	130	430
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(10)	ND(1)	7	15
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	ND(10)
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(10)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/16/90*	*06/18/90*	*09/14/90*	*12/17/90*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	440	240	210	150
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(10)	ND(10)	4	4
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	ND(4)
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(20)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*03/11/91*	*06/13/91*	*09/13/91*	*12/13/91*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	94	56	58	73
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	2	11	13
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	ND(2)
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(2)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	99	140	88	110
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	19	8.6	6.4	3
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	ND(1)
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]:	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/11/93*	*06/15/93*	*09/15/93*	*10/19/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	72	70	NA	40
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	3	NA	1.8
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*12/17/93*	*03/16/94*	*06/14/94*	*09/14/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	46	57	53	44
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	9.1	3.4	2.1	1.0
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(2)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3 86-3 41.5-46.5 12/16/94 ug/L*	*86-3 86-3 41.5-46.5 03/17/95 ug/L*	*86-3 86-3 41.5-46.5 06/20/95 ug/L*	*86-3 86-3 41.5-46.5 09/14/95 ug/L*
Sample ID:								
Sample Depth (feet bgs) [1]*:*								
Sample Date:								
Unit								
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	32	27	31	24
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	2.4	ND(2)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*12/18/95*	*03/19/96*	*06/13/96*	*09/13/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	16	10	15	21
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*12/13/96*	*03/13/97*	*06/19/97*	*09/11/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	10	11	16	14
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/16/97*	*03/12/98*	*06/16/98*	*09/17/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	11	5.2	9	4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1.2	ND(1)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/16/98*	*03/10/99*	*06/15/99*	*09/20/99*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4	4	4.6	4.8
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3* *86-3* *41.5-46.5* *12/16/99* *ug/L*	*86-3* *86-3* *41.5-46.5* *03/16/00* *ug/L*	*86-3* *86-3* *41.5-46.5* *06/13/00* *ug/L*	*86-3* *86-3* *41.5-46.5* *09/22/00* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3	2.4	1.7	3.4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*86-3*	*86-3*	*86-3*	*86-3*
Sample ID:					*86-3*	*86-3*	*86-3*	*86-3*
Sample Depth (feet bgs) [1]*:*					*41.5-46.5*	*41.5-46.5*	*41.5-46.5*	*41.5-46.5*
Sample Date:					*12/20/00*	*03/21/01*	*06/14/01*	*09/13/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3.9	3.9	5.2	5.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:					*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*					*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:					*01/23/87*	*12/21/88*	*03/16/89*	*06/16/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1,200	540	380	140
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	16	8	14	15
1,1-Dichloroethylene	7.0	65	200	11,000	ND(10)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(50)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]:	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/20/89*	*12/21/89*	*03/16/90*	*06/18/90*
Unit	*Drinking Water Criteria* [2]	*Interface Criteria* [2]	*Groundwater Volatilization to Indoor Air Criteria* [2]	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**180**	**170**	**230**	**370**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	15	22	66	60
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/14/90*	*12/18/90*	*03/11/91*	*06/13/91*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	300	260	200	180
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	58	47	ND(10)	43
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]:	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/12/91*	*12/13/91*	*03/13/92*	*06/12/92*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**170**	**180**	**230**	**200**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	55	40	50	37
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/11/92*	*12/10/92*	*03/11/93*	*06/14/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**190**	**200**	**140**	**130**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	36	21	20	22
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:					*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*					*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:					*09/15/93*	*12/17/93*	*03/16/94*	*06/14/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	170	140	200	200
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	24	23	23	25
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:					*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*					*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:					*09/14/94*	*12/16/94*	*03/17/95*	*06/20/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	190	170	180	230
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	15	22	21	ND(20)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/14/95*	*12/19/95*	*03/19/96*	*06/13/96*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	170	170	180	170
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	17	17	19	23
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/11/97*	*12/16/97*	*03/12/98*	*06/16/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**180**	**170**	**200**	**29**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	55	55	46	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:					*09/17/98*	*12/16/98*	*03/10/99*	*06/15/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	42	56	75	68
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1	ND(5)	ND(5)	ND(10)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/20/99*	*12/16/99*	*03/16/00*	*06/13/00*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	72	72	79	60
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	15	17	27	31
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-1*	*87-1*	*87-1*	*87-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-1*	*87-1*	*87-1*	*87-1*
Sample Depth (feet bgs) [1] :	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*	*24.0-29.0*
Sample Date:					*09/22/00*	*12/20/00*	*03/21/01*	*06/13/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	78	100	120	140
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	43	58	65	52
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-1* *87-1* *24.0-29.0* *09/13/01* *ug/L*	*87-2* *87-2* *33.2-38.2* *01/23/87* *ug/L*	*87-2* *87-2* *33.2-38.2* *12/21/88* *ug/L*	*87-2* *87-2* *33.2-38.2* *03/16/89* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**140**	**65**	**72**	**50**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	41	12	15	16
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(2)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/15/89*	*09/20/89*	*12/21/89*	*03/16/90*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	51	57	37	63
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	15	15	10	17
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/18/90*	*09/14/90*	*12/17/90*	*03/11/91*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	65	71	49	45
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	17	18	13	1
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-2* *87-2* *33.2-38.2* *06/13/91* *ug/L*	*87-2* *87-2* *33.2-38.2* *09/12/91* *ug/L*	*87-2* *87-2* *33.2-38.2* *12/13/91* *ug/L*	*87-2* *87-2* *33.2-38.2* *03/13/92* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	44	42	37	39
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	11	13	6	10
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/12/92*	*09/11/92*	*12/10/92*	*03/11/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	35	33	36	37
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	6.7	19	6	8.7
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/14/93*	*09/15/93*	*12/17/93*	*03/16/94*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	39	57	42	45
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	14	19	11	15
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/14/94*	*09/14/94*	*12/16/94*	*03/17/95*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	50	37	46	54
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	16	12	15	19
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/20/95*	*09/14/95*	*12/19/95*	*03/19/96*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	36	41	39	46
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	16	21.7	22	27
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/13/96*	*09/13/96*	*12/12/96*	*03/13/97*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	52	52	48	45
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	29	30	30	27
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/19/97*	*09/11/97*	*12/16/97*	*03/12/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	55	52	51	61
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	31	27	27	31
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/16/98*	*09/17/98*	*12/16/98*	*03/10/99*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	30	41	44	49
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	12	10	12	11
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	57	64	51	53
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	13	13	15	12
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-2*	*87-2*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-2*	*87-2*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*	*33.2-38.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/13/00*	*09/22/00*	*12/20/00*	*03/21/01*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene								
trans 1,2-Dichloroethylene	5.0	200	15,000	37,000	42	49	56	46
1,1-Dichloroethylene	100	ID	85,000	220,000	16	19	22	18
Vinyl Chloride	7.0	65	200	11,000	NA	NA	NA	NA
1,1,1-Trichloroethane	2.0	15	110	570	NA	NA	NA	NA
	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-2*	*87-2*	*87-4*	*87-4*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-2*	*87-2*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*33.2-38.2*	*33.2-38.2*	*24.0-27.0*	*24.0-27.0*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*06/13/01*	*09/13/01*	*01/23/87*	*12/21/88*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	42	48	87	42
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	17	12	ND(2)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-4*	*87-4*	*87-4*	*87-4*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-4*	*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/17/89*	*06/15/89*	*09/20/89*	*12/21/89*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	32	20	21	19
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-4*	*87-4*	*87-4*	*87-4*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-4*	*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:					*03/16/90*	*06/18/90*	*09/14/90*	*12/17/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	18	17	9	4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/11/91* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/13/91* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/12/91* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/13/91* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3	2	2	1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-4*	*87-4*	*87-4*	*87-4*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-4*	*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:					*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2	1.1	1	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	7.7	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/11/93* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/14/93* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/15/93* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/17/93* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	1.1	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/16/94* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/14/94* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/14/94* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/16/94* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/17/95* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/20/95* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/14/95* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/19/95* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(2)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/13/97* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/19/97* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/11/97* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/16/97* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-4*	*87-4*	*87-4*	*87-4*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-4*	*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:					*03/12/98*	*06/16/98*	*09/17/98*	*12/16/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4* *87-4* *24.0-27.0* *03/10/99* *ug/L*	*87-4* *87-4* *24.0-27.0* *06/15/99* *ug/L*	*87-4* *87-4* *24.0-27.0* *09/20/99* *ug/L*	*87-4* *87-4* *24.0-27.0* *12/16/99* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1.1	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4*	*87-4*	*87-4*	*87-4*
Sample ID:					*87-4*	*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*					*24.0-27.0*	*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:					*03/16/00*	*06/13/00*	*09/22/00*	*12/20/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-4*	*87-4*	*87-4*
Sample ID:					*87-4*	*87-4*	*87-4*
Sample Depth (feet bgs) [1]*:*					*24.0-27.0*	*24.0-27.0*	*24.0-27.0*
Sample Date:					*03/21/01*	*06/13/01*	*09/13/01*
Unit					*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)							
Volatile Organic Compounds							
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]:	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*01/30/87*	*03/17/89*	*06/15/89*	*09/20/89*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	70	190	230	170
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	11	27	23
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/21/89*	*03/16/90*	*06/18/90*	*09/14/90*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	87	93	130	130
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	21	24	33	26
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*12/18/90*	*03/12/91*	*06/13/91*	*09/12/91*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	94	340	120	70
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	29	13	49	120
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-5* *87-5* *39.5 - 50.5* *12/13/91* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *03/13/92* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *06/12/92* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *09/11/92* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	16	14	45	16
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	110	150	110	95
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/10/92*	*03/11/93*	*06/14/93*	*09/15/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	63	6.6	ND(10)	ND(10)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	110	110	140	130
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/16/94*	*03/17/95*	*06/20/95*	*09/14/95*
Unit	*Drinking Water Criteria* [2]	*Interface Criteria* [2]	*Groundwater Volatilization to Indoor Air Criteria* [2]	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	14	10	11	4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	99	72.6	62.6	61.2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-5* *87-5* *39.5 - 50.5* *12/19/95* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *03/19/96* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *06/13/96* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *09/13/96* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4.4	3.8	5.3	20
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	53	42	38	110
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]:	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/12/96*	*03/13/97*	*06/19/97*	*09/11/97*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	6.9	3.8	17	29
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	77	52	78	57
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-5* *87-5* *39.5 - 50.5* *12/16/97* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *03/12/98* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *06/16/98* *ug/L*	*87-5* *87-5* *39.5 - 50.5* *09/17/98* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	29	34	2	ND(5)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	47	50	4	52
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:					*12/16/98*	*03/10/99*	*06/15/99*	*09/20/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3	6	3.9	3.9
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	22	14	9.8	9
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*12/16/99*	*03/16/00*	*06/13/00*	*09/22/00*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3.9	3.5	1.8	2.1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	9.1	9.2	14	11
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-5*	*87-5*	*87-5*	*87-5*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-5*	*87-5*	*87-5*	*87-5*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*	*39.5 - 50.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*12/20/00*	*03/21/01*	*06/13/01*	*09/13/01*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.8	1.8	29	**100**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	14	4.5	33	36
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*01/21/87*	*06/08/88*	*12/21/88*	*03/16/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	9	6	6	4.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(2)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	ND(2)	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-8* *87-8* *19.7 - 22.7* *06/16/89* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *09/20/89* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *12/21/89* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *03/16/90* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.3	3	3	2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/18/90*	*09/14/90*	*12/17/90*	*03/11/91*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4	4	6	5
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/13/91*	*09/13/91*	*12/13/91*	*03/13/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4	3	2	4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/12/92*	*09/11/92*	*12/10/92*	*03/11/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3.1	2.1	1	1.6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-8* *87-8* *19.7 - 22.7* *06/14/93* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *09/15/93* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *12/17/93* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *03/16/94* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.9	1.9	2.2	1.2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/14/94*	*09/14/94*	*12/16/94*	*03/17/95*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.3	ND(1)	1.3	1.4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/20/95*	*09/14/95*	*12/18/95*	*03/19/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.1	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/13/96*	*09/13/96*	*12/13/96*	*03/13/97*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1	1.1	1.4	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

(1) - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

(2) Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/19/97*	*09/11/97*	*12/16/97*	*03/12/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	1.1	1.3	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-8* *87-8* *19.7 - 22.7* *06/16/98* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *09/17/98* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *12/16/98* *ug/L*	*87-8* *87-8* *19.7 - 22.7* *03/10/99* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	2	4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

(1) - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

(2) Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-8*	*87-8*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-8*	*87-8*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*	*19.7 - 22.7*
Sample Date:					*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.6	1.5	2	2.6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-8*	*87-8*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-8*	*87-8*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*19.7 - 22.7*	*19.7 - 22.7*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:					*06/14/01*	*09/13/01*	*01/21/87*	*06/08/88*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	1	62	21
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(2)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	ND(2)
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(10)	ND(10)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*12/21/88*	*03/16/89*	*06/15/89*	*09/20/89*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	18	12	7.9	6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater - Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:					*12/21/89*	*03/16/90*	*06/19/90*	*09/14/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	5	4	3	3
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:					*12/17/90*	*03/11/91*	*06/13/91*	*09/13/91*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2	2	2	1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9 87-9 50.5 - 53.5 12/13/91 ug/L*	*87-9 87-9 50.5 - 53.5 03/13/92 ug/L*	*87-9 87-9 50.5 - 53.5 06/12/92 ug/L*	*87-9 87-9 50.5 - 53.5 09/11/92 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1	1	1.6	1.4
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	3.5	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:					*12/10/92*	*03/11/93*	*06/14/93*	*09/15/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2	ND(1)	ND(1)	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	NA
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:					*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*					*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:					*10/19/93*	*12/17/93*	*03/16/94*	*06/14/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.4	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9* *87-9* *50.5 - 53.5* *09/14/94* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *12/16/94* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *03/17/95* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *06/20/95* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(2)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*09/14/95*	*12/18/95*	*03/19/96*	*06/13/96*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/13/96*	*12/13/96*	*03/13/97*	*06/19/97*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9* *87-9* *50.5 - 53.5* *09/11/97* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *12/16/97* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *03/12/98* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *06/16/98* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

(1) - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

(2) Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9* *87-9* *50.5 - 53.5* *09/17/98* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *12/16/98* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *03/10/99* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *06/15/99* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-9* *87-9* *50.5 - 53.5* *09/20/99* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *12/16/99* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *03/16/00* *ug/L*	*87-9* *87-9* *50.5 - 53.5* *06/13/00* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-9*	*87-9*	*87-9*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-9*	*87-9*	*87-9*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*	*50.5 - 53.5*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/22/00*	*12/20/00*	*03/21/01*	*06/14/01*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-9*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-9*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I*	*Groundwater Surface Water Interface*	*Residential & Commercial I*	*Groundwater Contact*	*50.5 - 53.5*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*09/13/01*	*06/08/88*	*12/21/88*	*03/16/89*
Unit	*Drinking Water Criteria* [2]	*Criteria* [2]	*Groundwater Volatilization to Indoor Air Criteria* [2]	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	46	58	48
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	8	10	14
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(2)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*06/16/89*	*09/20/89*	*12/21/89*	*03/16/90*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	42	50	63	79
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	10	7	8	10
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/19/90*	*09/14/90*	*12/17/90*	*03/11/91*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	83	110	89	70
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	8	11	7	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*06/13/91*	*09/12/91*	*12/13/91*	*03/13/92*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	66	50	55	51
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3	3	2	2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/12/92*	*09/11/92*	*12/11/92*	*03/11/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	47	35	55	46
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	1	1.3
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:					*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*					*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/15/93*	*09/15/93*	*12/17/93*	*03/16/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	47	49	47	55
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1.2	ND(2)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(2)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:					*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*					*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/14/94*	*09/14/94*	*12/16/94*	*03/17/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	130	52	58	55
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	40	ND(5)	ND(1)	1.2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-10* *87-10* *29 - 32* *06/20/95* *ug/L*	*87-10* *87-10* *29 - 32* *09/14/95* *ug/L*	*87-10* *87-10* *29 - 32* *12/18/95* *ug/L*	*87-10* *87-10* *29 - 32* *03/19/96* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	69	65	62	51
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2	ND(4)	ND(2)	1.7
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(2)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/13/96*	*09/13/96*	*12/12/96*	*03/13/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	67	80	64	62
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3	4.2	4.7	6.3
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-10* *87-10* *29 - 32* *06/19/97* *ug/L*	*87-10* *87-10* *29 - 32* *09/11/97* *ug/L*	*87-10* *87-10* *29 - 32* *12/16/97* *ug/L*	*87-10* *87-10* *29 - 32* *03/13/98* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	68	52	53	53
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	7.5	7.7	8.8	4.8
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	1.8	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	1.6	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/16/98*	*09/17/98*	*12/16/98*	*03/10/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	30	32	32	33
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	4	3	3	2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	33	35	52	65
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3.1	2.2	ND(5)	ND(5)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(5)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(5)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*29 - 32*	*29 - 32*	*29 - 32*	*29 - 32*
Sample Date:					*06/13/00*	*09/22/00*	*12/20/00*	*03/21/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	41	97	80	64
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	2	2.6	1.1
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-10*	*87-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-10*	*87-10*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*29 - 32*	*29 - 32*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/14/01*	*09/13/01*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*			
			Indoor Air Criteria [2]			
Parameter (ug/L)						
Volatile Organic Compounds						
Trichloroethylene						
trans 1,2-Dichloroethylene	5.0	200	15,000	37,000	72	76
1,1-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)
Vinyl Chloride	7.0	65	200	11,000	NA	NA
1,1,1-Trichloroethane	2.0	15	110	570	NA	NA
	200	200	660,000	1,300,000	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*06/08/88*	*12/21/88*	*03/16/89*	*06/16/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	320	500	330	190
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	76	69	55	70
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/20/89*	*12/21/89*	*03/16/90*	*06/19/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	220	150	230	200
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	44	40	69	120
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*09/14/90*	*12/17/90*	*03/11/91*	*06/13/91*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	220	48	240	220
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	64	15	ND(5)	46
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(2)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/12/91*	*12/13/91*	*03/13/92*	*06/12/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	160	150	180	160
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	25	92	38	39
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I*	*Groundwater Surface Water Interface*	*Residential & Commercial I*	*Groundwater Contact*	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:	*Drinking Water*	*Criteria* [2]	*Groundwater Volatilization to*	*Criteria* [2]	*09/11/92*	*12/11/92*	*03/11/93*	*06/15/93*
Unit	*Criteria* [2]		*Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	140	200	110	99
trans 1,2-Dichloroethylene	100	1D	85,000	220,000	25	38	20	21
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/15/93*	*12/17/93*	*03/16/94*	*06/14/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	97	90	99	58
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	14	17	36	ND(5)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/14/94*	*12/16/94*	*03/17/95*	*06/20/95*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	88	110	130	140
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	24	38	30	53
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/14/95*	*12/18/95*	*03/19/96*	*06/13/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	130	120	160	150
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	58	34	26	78
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/13/96*	*12/12/96*	*03/13/97*	*06/19/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	210	180	170	210
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	63	39	110	71
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/11/97*	*12/16/97*	*03/13/98*	*06/16/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	190	190	200	110
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	34	34	48	16
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/17/98*	*12/16/98*	*03/10/99*	*06/15/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	140	120	120	110
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	14	49	28	32
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(5)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(5)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/20/99*	*12/16/99*	*03/16/00*	*06/13/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	160	120	110	74
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	29	55	130	75
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(10)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-11*	*87-11*	*87-11*
Sample ID:					*87-11*	*87-11*	*87-11*	*87-11*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*30 - 33*	*30 - 33*	*30 - 33*
Sample Date:					*09/22/00*	*12/20/00*	*03/21/01*	*06/14/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	64	89	84	72
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	110	110	73	56
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	1.1	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-11*	*87-13*	*87-13*	*87-13*
Sample ID:					*87-11*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]*:*					*30 - 33*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*09/13/01*	*06/08/88*	*12/21/88*	*03/16/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	89	10	7	9
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	34	ND(2)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(2)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(10)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1] :	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/16/89*	*09/20/89*	*12/21/89*	*03/16/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	7.6	5	3	6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/19/90*	*09/14/90*	*12/17/90*	*03/11/91*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	7	7	6	6
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(10)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/13/91*	*09/12/91*	*12/13/91*	*03/13/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	5	3	3	5
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-13* *87-13* *40 - 43* *06/12/92* *ug/L*	*87-13* *87-13* *40 - 43* *09/11/92* *ug/L*	*87-13* *87-13* *40 - 43* *12/10/92* *ug/L*	*87-13* *87-13* *40 - 43* *03/11/93* *ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4.4	3.1	3	2.8
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1] *:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/20/95*	*09/14/95*	*12/18/95*	*03/19/96*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	3.8	2.4	2.2	2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(2)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*06/19/97*	*09/11/97*	*12/16/97*	*03/13/98*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.6	2.1	1.8	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:					*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]*:*					*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/16/98*	*09/17/98*	*12/16/98*	*03/10/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2	ND(1)	2	2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2	2.3	2.1	1.8
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(2)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-13*	*87-13*	*87-13*	*87-13*
Sample ID:					*87-13*	*87-13*	*87-13*	*87-13*
Sample Depth (feet bgs) [1]*:*					*40 - 43*	*40 - 43*	*40 - 43*	*40 - 43*
Sample Date:					*06/13/00*	*09/22/00*	*12/20/00*	*03/21/01*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.3	1.9	2.7	1.8
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(1)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*87-13*	*87-13*	*93-1*	*93-1*
Sample ID:					*87-13*	*87-13*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*					*40 - 43*	*40 - 43*	*8.2*	*8.2*
Sample Date:					*06/14/01*	*09/13/01*	*08/20/93*	*12/17/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.7	1.8	2.6	2.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	ND(1)	2.4	3.1
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(1)	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:					*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*					*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:					*03/16/94*	*06/14/94*	*09/14/94*	*12/16/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.2	2.6	1.9	1.8
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2.3	2.9	1.9	1.8
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1] *:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/17/95*	*06/20/95*	*09/14/95*	*12/18/95*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.8	3.3	1.2	1.1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2.3	3.3	1.6	1.4
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/19/96*	*06/13/96*	*09/13/96*	*12/12/96*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1.9	2.6	1.6	1.9
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2.4	3.1	2.3	2.3
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:					*03/13/97*	*06/19/97*	*09/11/97*	*12/16/97*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.3	2.4	2.1	1.7
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1.8	3.1	2.6	3.1
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	1.3
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:					*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*					*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:					*03/13/98*	*06/16/98*	*09/17/98*	*12/16/98*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	1	ND(1)	1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	1	ND(1)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:					*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]*:*					*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:					*03/10/99*	*06/15/99*	*09/20/99*	*12/16/99*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1	2.3	1.3	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1	2.3	1.4	1.8
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*93-1*	*93-1*	*93-1*	*93-1*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*93-1*	*93-1*	*93-1*	*93-1*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*8.2*	*8.2*	*8.2*	*8.2*
Sample Date:					*03/16/00*	*06/13/00*	*09/22/00*	*12/20/00*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	1	ND(1)	1	2.2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	1.3	1.3	ND(1)	5
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	ND(1)
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*93-1*	*93-1*	*93-1*	*X-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*93-1*	*93-1*	*93-1*	*X-10*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*8.2*	*8.2*	*8.2*	*35 - 45*
Sample Date:					*03/21/01*	*06/14/01*	*09/13/01*	*08/22/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	2.2	1.5	2.7	1
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	4	3.4	2.4	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10 X-10 35 - 45 09/20/89 ug/L*	*X-10 X-10 35 - 45 10/13/89 ug/L*	*X-10 X-10 35 - 45 11/17/89 ug/L*	*X-10 X-10 35 - 45 12/21/89 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	40	31	33	25

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:					*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*					*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:					*01/12/90*	*02/16/90*	*03/16/90*	*04/12/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	39	22	31

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:					*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*					*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:					*05/18/90*	*06/18/90*	*07/13/90*	*08/20/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	31	37	41	24

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:					*09/14/90*	*10/12/90*	*11/15/90*	*12/17/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(2)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	30	36	17	32

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*03/12/91*	*06/13/91*	*09/12/91*	*12/13/91*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	ND(1)	ND(1)	ND(1)

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:					*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*					*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:					*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	5	ND(1)	ND(1)	2

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/11/93*	*06/14/93*	*09/15/93*	*12/17/93*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	ND(1)	ND(1)	3.6	ND(1)

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*X-10*	*X-10*	*X-10*	*X-10*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*X-10*	*X-10*	*X-10*	*X-10*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*35 - 45*	*35 - 45*	*35 - 45*	*35 - 45*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*03/16/94*	*06/14/94*	*09/14/94*	*12/16/94*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	ND(1)	9	ND(1)	ND(1)

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10 X-10 35 - 45 03/17/95 ug/L*	*X-10 X-10 35 - 45 06/20/95 ug/L*	*X-10 X-10 35 - 45 09/14/95 ug/L*	*X-10 X-10 35 - 45 12/19/95 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	ND(1)	3.8	ND(1)	ND(1)

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10 X-10 35 - 45 03/19/96 ug/L*	*X-10 X-10 35 - 45 06/13/96 ug/L*	*X-10 X-10 35 - 45 09/13/96 ug/L*	*X-10 X-10 35 - 45 12/12/96 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1.2	ND(1)
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	ND(1)	ND(1)	ND(1)	ND(1)

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10 X-10 35 - 45 03/13/97 ug/L*	*X-10 X-10 35 - 45 06/19/97 ug/L*	*X-10 X-10 35 - 45 09/11/97 ug/L*	*X-10 X-10 35 - 45 12/16/97 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	ND(1)	ND(1)	1	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	ND(1)	3.7	ND(1)	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*X-10*
Sample ID:					*X-10*
Sample Depth (feet bgs) [1]*:*					*35 - 45*
Sample Date:					*03/13/98*
Unit					*ug/L*
Parameter (ug/L)					
Volatile Organic Compounds					
Trichloroethylene	5.0	200	15,000	37,000	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA
Vinyl Chloride	2.0	15	110	570	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:					*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]*:*					*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:					*09/20/89*	*09/22/89*	*10/13/89*	*11/17/89*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	110	140	150	85
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	4	NA	5	6
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:					*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]*:*					*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:					*12/21/89*	*01/12/90*	*02/16/90*	*03/16/90*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	100	110	110	120
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	5	ND(5)	3	4
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	1	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 04/12/90 ug/L*	*PWDISCH PWDISCH 45 - 55 05/18/90 ug/L*	*PWDISCH PWDISCH 45 - 55 06/18/90 ug/L*	*PWDISCH PWDISCH 45 - 55 07/13/90 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	**130**	**180**	**170**	**130**
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(5)	1	ND(10)	3
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 08/20/90 ug/L*	*PWDISCH PWDISCH 45 - 55 09/14/90 ug/L*	*PWDISCH PWDISCH 45 - 55 10/12/90 ug/L*	*PWDISCH PWDISCH 45 - 55 11/15/90 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	23	130	160	93
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	4	ND(2)	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1] *:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/17/90 ug/L*	*PWDISCH PWDISCH 45 - 55 01/15/91 ug/L*	*PWDISCH PWDISCH 45 - 55 02/20/91 ug/L*	*PWDISCH PWDISCH 45 - 55 03/11/91 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	140	NA	NA	86
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	5	NA	NA	ND(2)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(10)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I*	*Groundwater Surface Water*	*Residential & Commercial I*	*Groundwater Contact*	*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*04/30/91*	*05/30/91*	*06/13/91*	*07/31/91*
Unit	*Criteria* [2]	*Criteria* [2]	*Volatilization to Indoor Air Criteria* [2]		*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	100	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	ND(5)	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 08/31/91 ug/L*	*PWDISCH PWDISCH 45 - 55 09/12/91 ug/L*	*PWDISCH PWDISCH 45 - 55 10/31/91 ug/L*	*PWDISCH PWDISCH 45 - 55 11/30/91 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	86	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	6	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/13/91 ug/L*	*PWDISCH PWDISCH 45 - 55 01/31/92 ug/L*	*PWDISCH PWDISCH 45 - 55 02/28/92 ug/L*	*PWDISCH PWDISCH 45 - 55 03/13/92 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	75	NA	NA	73
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	4	NA	NA	4
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(2)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 04/30/92 ug/L*	*PWDISCH PWDISCH 45 - 55 05/31/92 ug/L*	*PWDISCH PWDISCH 45 - 55 06/30/92 ug/L*	*PWDISCH PWDISCH 45 - 55 07/31/92 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 08/13/92 ug/L*	*PWDISCH PWDISCH 45 - 55 09/11/92 ug/L*	*PWDISCH PWDISCH 45 - 55 10/31/92 ug/L*	*PWDISCH PWDISCH 45 - 55 11/30/92 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	63	62	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3.7	3.3	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/10/92 ug/L*	*PWDISCH PWDISCH 45 - 55 01/31/93 ug/L*	*PWDISCH PWDISCH 45 - 55 02/28/93 ug/L*	*PWDISCH PWDISCH 45 - 55 03/11/93 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	61	NA	NA	40
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2	NA	NA	2.2
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

(1) - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

(2) Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 04/30/93 ug/L*	*PWDISCH PWDISCH 45 - 55 05/31/93 ug/L*	*PWDISCH PWDISCH 45 - 55 06/14/93 ug/L*	*PWDISCH PWDISCH 45 - 55 07/31/93 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	44	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	3.6	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 08/31/93 ug/L*	*PWDISCH PWDISCH 45 - 55 09/15/93 ug/L*	*PWDISCH PWDISCH 45 - 55 10/31/93 ug/L*	*PWDISCH PWDISCH 45 - 55 11/30/93 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	47	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	2.8	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/17/93 ug/L*	*PWDISCH PWDISCH 45 - 55 03/11/93 ug/L*	*PWDISCH PWDISCH 45 - 55 04/30/93 ug/L*	*PWDISCH PWDISCH 45 - 55 05/31/93 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	32	40	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	2.8	2.2	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	ND(2)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(2)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]:	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:					*06/14/93*	*07/31/93*	*08/31/93*	*09/15/93*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	44	NA	NA	47
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	3.6	NA	NA	2.8
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 10/31/93 ug/L*	*PWDISCH PWDISCH 45 - 55 11/30/93 ug/L*	*PWDISCH PWDISCH 45 - 55 12/17/93 ug/L*	*PWDISCH PWDISCH 45 - 55 03/16/94 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	32	42
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	2.8	2
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	ND(2)	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	ND(2)	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]*:*	*Residential & Commercial I Drinking Water Criteria* [2]	*Groundwater Surface Water Interface Criteria* [2]	*Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Groundwater Contact Criteria* [2]	*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:					*04/11/94*	*05/11/94*	*06/14/94*	*07/13/94*
Unit					*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	39	32
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	1.7	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/07/94 ug/L*	*PWDISCH PWDISCH 45 - 55 09/14/94 ug/L*	*PWDISCH PWDISCH 45 - 55 10/05/94 ug/L*	*PWDISCH PWDISCH 45 - 55 11/09/94 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	29	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	1.3	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/07/94 ug/L*	*PWDISCH PWDISCH 45 - 55 12/16/94 ug/L*	*PWDISCH PWDISCH 45 - 55 01/04/95 ug/L*	*PWDISCH PWDISCH 45 - 55 02/08/95 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	28	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	2	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]: *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 03/08/95 ug/L*	*PWDISCH PWDISCH 45 - 55 03/17/95 ug/L*	*PWDISCH PWDISCH 45 - 55 04/05/95 ug/L*	*PWDISCH PWDISCH 45 - 55 05/03/95 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	24	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	1.3	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 06/07/95 ug/L*	*PWDISCH PWDISCH 45 - 55 06/20/95 ug/L*	*PWDISCH PWDISCH 45 - 55 07/05/95 ug/L*	*PWDISCH PWDISCH 45 - 55 08/03/95 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	23	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/07/95 ug/L*	*PWDISCH PWDISCH 45 - 55 09/14/95 ug/L*	*PWDISCH PWDISCH 45 - 55 10/04/95 ug/L*	*PWDISCH PWDISCH 45 - 55 11/01/95 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	16	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/06/95 ug/L*	*PWDISCH PWDISCH 45 - 55 12/18/95 ug/L*	*PWDISCH PWDISCH 45 - 55 01/03/96 ug/L*	*PWDISCH PWDISCH 45 - 55 02/07/96 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	13	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 03/06/96 ug/L*	*PWDISCH PWDISCH 45 - 55 03/19/96 ug/L*	*PWDISCH PWDISCH 45 - 55 04/03/96 ug/L*	*PWDISCH PWDISCH 45 - 55 05/01/96 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	12	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 06/05/96 ug/L*	*PWDISCH PWDISCH 45 - 55 06/13/96 ug/L*	*PWDISCH PWDISCH 45 - 55 06/26/96 ug/L*	*PWDISCH PWDISCH 45 - 55 07/31/96 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	14	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/04/96 ug/L*	*PWDISCH PWDISCH 45 - 55 09/13/96 ug/L*	*PWDISCH PWDISCH 45 - 55 10/02/96 ug/L*	*PWDISCH PWDISCH 45 - 55 10/30/96 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	15	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/04/96 ug/L*	*PWDISCH PWDISCH 45 - 55 12/13/96 ug/L*	*PWDISCH PWDISCH 45 - 55 12/31/96 ug/L*	*PWDISCH PWDISCH 45 - 55 01/29/97 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	13	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

(1) - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

(2) Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 02/26/97 ug/L*	*PWDISCH PWDISCH 45 - 55 03/13/97 ug/L*	*PWDISCH PWDISCH 45 - 55 03/26/97 ug/L*	*PWDISCH PWDISCH 45 - 55 04/30/97 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	9.3	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 05/28/97 ug/L*	*PWDISCH PWDISCH 45 - 55 06/19/97 ug/L*	*PWDISCH PWDISCH 45 - 55 07/02/97 ug/L*	*PWDISCH PWDISCH 45 - 55 08/06/97 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	11	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/04/97 ug/L*	*PWDISCH PWDISCH 45 - 55 09/11/97 ug/L*	*PWDISCH PWDISCH 45 - 55 10/01/97 ug/L*	*PWDISCH PWDISCH 45 - 55 11/05/97 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	9.4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

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GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/03/97 ug/L*	*PWDISCH PWDISCH 45 - 55 12/16/97 ug/L*	*PWDISCH PWDISCH 45 - 55 12/31/97 ug/L*	*PWDISCH PWDISCH 45 - 55 01/28/98 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	7.2	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 02/25/98 ug/L*	*PWDISCH PWDISCH 45 - 55 03/12/98 ug/L*	*PWDISCH PWDISCH 45 - 55 03/26/98 ug/L*	*PWDISCH PWDISCH 45 - 55 04/29/98 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5.9	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 05/27/98 ug/L*	*PWDISCH PWDISCH 45 - 55 06/16/98 ug/L*	*PWDISCH PWDISCH 45 - 55 07/01/98 ug/L*	*PWDISCH PWDISCH 45 - 55 07/29/98 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	7	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/02/98 ug/L*	*PWDISCH PWDISCH 45 - 55 09/17/98 ug/L*	*PWDISCH PWDISCH 45 - 55 09/30/98 ug/L*	*PWDISCH PWDISCH 45 - 55 10/28/98 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/02/98 ug/L*	*PWDISCH PWDISCH 45 - 55 12/16/98 ug/L*	*PWDISCH PWDISCH 45 - 55 12/31/98 ug/L*	*PWDISCH PWDISCH 45 - 55 01/27/99 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*Michigan Act 451*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample ID:	*Part 201*	*Part 201*	*Part 201*	*Part 201*	*PWDISCH*	*PWDISCH*	*PWDISCH*	*PWDISCH*
Sample Depth (feet bgs) [1]*:*	*Residential &*	*Groundwater*	*Residential &*	*Groundwater*	*45 - 55*	*45 - 55*	*45 - 55*	*45 - 55*
Sample Date:	*Commercial I*	*Surface Water*	*Commercial I*	*Contact*	*02/24/99*	*03/18/99*	*03/24/99*	*04/29/99*
Unit	*Drinking Water*	*Interface*	*Groundwater*	*Criteria* [2]	*ug/L*	*ug/L*	*ug/L*	*ug/L*
	Criteria [2]	*Criteria* [2]	*Volatilization to*					
			Indoor Air Criteria [2]					
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	4	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 06/01/99 ug/L*	*PWDISCH PWDISCH 45 - 55 06/15/99 ug/L*	*PWDISCH PWDISCH 45 - 55 06/30/99 ug/L*	*PWDISCH PWDISCH 45 - 55 07/28/99 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	4.7	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(2)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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NA - Parameter not analyzed.

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SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 09/01/99 ug/L*	*PWDISCH PWDISCH 45 - 55 09/20/99 ug/L*	*PWDISCH PWDISCH 45 - 55 09/29/99 ug/L*	*PWDISCH PWDISCH 45 - 55 11/03/99 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	4.5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/01/99 ug/L*	*PWDISCH PWDISCH 45 - 55 12/16/99 ug/L*	*PWDISCH PWDISCH 45 - 55 12/29/99 ug/L*	*PWDISCH PWDISCH 45 - 55 02/02/00 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	3.5	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	ND(1)	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	ND(1)	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 03/01/00 ug/L*	*PWDISCH PWDISCH 45 - 55 03/16/00 ug/L*	*PWDISCH PWDISCH 45 - 55 03/29/00 ug/L*	*PWDISCH PWDISCH 45 - 55 04/25/00 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	2.7	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval. Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 05/31/00 ug/L*	*PWDISCH PWDISCH 45 - 55 06/13/00 ug/L*	*PWDISCH PWDISCH 45 - 55 06/28/00 ug/L*	*PWDISCH PWDISCH 45 - 55 07/26/00 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	2.1	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 08/30/00 ug/L*	*PWDISCH PWDISCH 45 - 55 09/22/00 ug/L*	*PWDISCH PWDISCH 45 - 55 11/01/00 ug/L*	*PWDISCH PWDISCH 45 - 55 11/29/00 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	3.1	NA	NA
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	ND(1)	NA	NA
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 12/20/00 ug/L*	*PWDISCH PWDISCH 45 - 55 01/03/01 ug/L*	*PWDISCH PWDISCH 45 - 55 02/26/01 ug/L*	*PWDISCH PWDISCH 45 - 55 03/21/01 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	4.8	NA	NA	3.2
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	ND(1)	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	ND(1)	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	ND(1)	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 03/28/01 ug/L*	*PWDISCH PWDISCH 45 - 55 04/24/01 ug/L*	*PWDISCH PWDISCH 45 - 55 05/30/01 ug/L*	*PWDISCH PWDISCH 45 - 55 06/13/01 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	NA	4.3
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9A

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN GROUNDWATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location: *Sample ID:* *Sample Depth (feet bgs)* [1]*:* *Sample Date:* *Unit*	*Michigan Act 451 Part 201 Residential & Commercial I Drinking Water Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Surface Water Interface Criteria* [2]	*Michigan Act 451 Part 201 Residential & Commercial I Groundwater Volatilization to Indoor Air Criteria* [2]	*Michigan Act 451 Part 201 Groundwater Contact Criteria* [2]	*PWDISCH PWDISCH 45 - 55 06/25/01 ug/L*	*PWDISCH PWDISCH 45 - 55 07/16/01 ug/L*	*PWDISCH PWDISCH 45 - 55 08/22/01 ug/L*	*PWDISCH PWDISCH 45 - 55 09/13/01 ug/L*
Parameter (ug/L)								
Volatile Organic Compounds								
Trichloroethylene	5.0	200	15,000	37,000	NA	NA	NA	4.5
trans 1,2-Dichloroethylene	100	ID	85,000	220,000	NA	NA	NA	ND(1)
1,1-Dichloroethylene	7.0	65	200	11,000	NA	NA	NA	NA
Vinyl Chloride	2.0	15	110	570	NA	NA	NA	NA
1,1,1-Trichloroethane	200	200	660,000	1,300,000	NA	NA	NA	NA

Notes

[1] - Sample depth for groundwater samples collected from monitoring wells is the screened interval.
Sample depth for discrete groundwater samples is the grab sample interval.

[2] Part 201 Generic Cleanup Criteria and Screening Levels, Groundwater: Residential and Industrial-Commercial, Michigan Department of Environmental Quality, June 7, 2000

NA - Parameter not analyzed.

TABLE 9B

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample Date:	*12/21/88*	*03/17/89*	*06/15/89*	*09/22/89*	*12/21/89*	*03/16/90*	*06/19/90*	*09/14/90*	*12/17/90*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3	2.4	ND(1)	1	ND(1)	2	1	ND(1)	4
trans 1,2-Dichloroethylene	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)

TABLE 9B

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample Date:	*03/11/91*	*06/13/91*	*09/12/91*	*12/13/91*	*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*	*03/11/93*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	5	4	4	5	4	2.6	1.7	2	2.1
trans 1,2-Dichloroethylene	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)

TABLE 9B

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample Date:	*06/15/93*	*09/15/93*	*12/17/93*	*03/16/94*	*06/14/94*	*09/14/94*	*12/16/94*	*03/17/95*	*06/20/95*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	2.1	2	1.7	2.1	1.1	ND(1)	1.4	1.8	1.1
trans 1,2-Dichloroethylene	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)	ND(2)

TABLE 9B

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample Date:	*09/14/95*	*12/18/95*	*03/19/96*	*06/13/96*	*09/13/96*	*12/12/96*	*03/13/97*	*06/19/97*	*09/11/97*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	ND(1)	ND(1)	ND(1)	1.3	ND(1)	ND(1)	1.6	ND(1)	ND(1)
trans 1,2-Dichloroethylene	ND(2)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*
Sample Date:	*12/16/97*	*03/12/98*	*06/16/98*	*09/17/98*	*12/16/98*	*03/10/99*	*06/15/99*	*09/20/99*	*12/16/99*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
trans 1,2-Dichloroethylene	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-2*	*C-2*
Sample ID:	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-1*	*C-2*	*C-2*
Sample Date:	*03/16/00*	*06/13/00*	*09/22/00*	*12/20/00*	*03/21/01*	*06/13/01*	*09/13/01*	*12/21/88*	*03/17/89*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	ND(1)	ND(1)	ND(1)	ND(1)	1.4	2.3	1.3	4	3.9
trans 1,2-Dichloroethylene	ND(1)	1.2	ND(1)	ND(1)	ND(1)	2.5	ND(1)	4	3.8

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample ID:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample Date:	*06/15/89*	*09/22/89*	*12/21/89*	*03/16/90*	*06/19/90*	*09/14/90*	*12/17/90*	*03/11/91*	*06/13/91*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3	3	2	3	3	3	4	4	4
trans 1,2-Dichloroethylene	3.7	4	4	5	4	5	5	ND(1)	6

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample ID:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample Date:	*09/12/91*	*12/13/91*	*03/13/92*	*06/12/92*	*09/11/92*	*12/10/92*	*03/11/93*	*06/15/93*	*09/15/93*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3	3	4	3.9	3.3	3	1.8	3.2	4.6
trans 1,2-Dichloroethylene	4	4	5	8.6	6.8	3	1.1	4.5	9.8

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	C-2	C-2	C-2	C-2	C-2	C-2	C-2	C-2	C-2
Sample ID:	C-2	C-2	C-2	C-2	C-2	C-2	C-2	C-2	C-2
Sample Date:	12/17/93	03/16/94	06/14/94	09/14/94	12/16/94	03/17/95	06/20/95	09/14/95	12/18/95
Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	2.8	4.1	1.9	2.3	2.4	3	2.3	1.5	1.9
trans 1,2-Dichloroethylene	4.4	7.7	1.9	3.8	3.4	4.4	3.6	2.7	3.6

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample ID:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample Date:	*03/19/96*	*06/13/96*	*09/13/96*	*12/12/96*	*03/13/97*	*06/19/97*	*09/11/97*	*12/16/97*	*03/12/98*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	ND(1)	2.8	2.5	2.5	3.1	1.6	2.3	2.1	ND(1)
trans 1,2-Dichloroethylene	ND(1)	4.7	4.8	4.2	4.5	4.1	4.2	4.4	2.7

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample ID:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*
Sample Date:	*06/16/98*	*09/17/98*	*12/16/98*	*03/10/99*	*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*	*06/13/00*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	1	ND(1)	2	1	1.9	2	1.8	1.7	2
trans 1,2-Dichloroethylene	2	1	2	2	2.4	2.3	2.4	2.4	4.2

TABLE 9B

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-2*	*C-2*	*C-2*	*C-2*	*C-2*	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*09/22/00*	*12/20/00*	*03/21/01*	*06/14/01*	*09/13/01*	*12/21/88*	*03/16/89*	*06/15/89*	*09/22/89*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	2.5	3.2	2	2.5	2.8	5	9.1	2.6	3
trans 1,2-Dichloroethylene	8.9	7.3	4.8	5.2	2.8	11	16	3.7	4

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*12/21/89*	*03/16/90*	*06/19/90*	*09/14/90*	*12/17/90*	*03/11/91*	*06/13/91*	*09/12/91*	*12/13/91*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3	2	2	2	5	5	4	4	3
trans 1,2-Dichloroethylene	4	8	6	4	9	ND(1)	4	6	11

TABLE 9B

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Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*03/13/92*	*06/12/92*	*09/11/92*	*12/11/92*	*03/11/93*	*06/15/93*	*09/15/93*	*12/17/93*	*03/16/94*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3	3.2	3	3	1.8	2.9	3.7	3	3.3
trans 1,2-Dichloroethylene	6	4.6	3.3	4	1.3	12	4.1	5.2	4.4

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*06/14/94*	*09/14/94*	*12/16/94*	*03/17/95*	*06/20/95*	*09/14/95*	*12/18/95*	*03/19/96*	*06/13/96*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	1.7	1.5	2	3.3	2.9	1.8	2.8	2.8	3.9
trans 1,2-Dichloroethylene	2.3	2.8	2.1	6.3	4.4	2.4	4.2	4.8	8.3

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	C-3	C-3	C-3	C-3	C-3	C-3	C-3	C-3	C-3
Sample ID:	C-3	C-3	C-3	C-3	C-3	C-3	C-3	C-3	C-3
Sample Date:	09/13/96	12/12/96	03/13/97	06/19/97	08/21/97	09/11/97	12/16/97	03/13/98	06/16/98
Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	3.5	4.2	4.1	2.1	NA	3	2.8	2.4	1
trans 1,2-Dichloroethylene	5.5	4.3	7.5	5.7	NA	4.9	4.3	6	2

TABLE 9B

Privileged and Confidential
Prepared at ENCORE Counsel's Request

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*09/17/98*	*12/16/98*	*03/10/99*	*06/15/99*	*09/20/99*	*12/16/99*	*03/16/00*	*06/13/00*	*09/22/00*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)									
Volatile Organic Compounds									
Trichloroethylene	1	2	3	2.1	1.8	1.1	1.2	2.4	2.6
trans 1,2-Dichloroethylene	2	2	3	3.3	2.6	1.6	1.8	5	7.8

TABLE 9B

SUMMARY OF DETECTED PARAMETERS IN SURFACE WATER
GROUNDWATER MONITORING PROGRAM
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location:	*C-3*	*C-3*	*C-3*	*C-3*
Sample ID:	*C-3*	*C-3*	*C-3*	*C-3*
Sample Date:	*12/20/00*	*03/21/01*	*06/14/01*	*09/13/01*
Unit	*ug/L*	*ug/L*	*ug/L*	*ug/L*
Parameter (ug/L)				
Volatile Organic Compounds				
Trichloroethylene	4	2.9	3.9	4.2
trans 1,2-Dichloroethylene	11	9.7	9.5	5.2

WILLIAMS & WORKS

Engineers/Surveyors/Planners/Geologists
611 Cascade West Parkway
Grand Rapids, Michigan 49506

Client GMC Fisher Body

Project No. 20127

Date 10/5/81

Permit No.

Project General Motors Fisher Body

Location Grand Rapids Plant #1

Equipment CME 45C

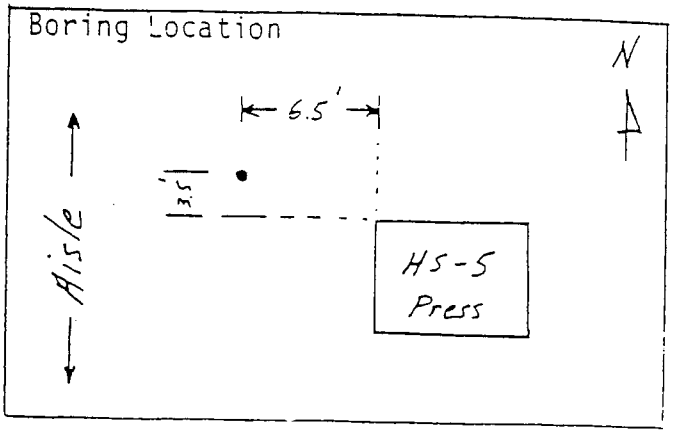
Technician Gale Scholten

BORING NO. 1

Surface Elev.

Hole Plugged With Natural Solids and Bentonite

Boring Location



Boring Depth From	Boring Depth To		No. Blows last 12"	No. Blows 3rd 6"	No. Blows 2nd 6"	No. Blows 1st 6"	Depth of Test
0.0	0.2	Asphalt Block Floor					0 PUSHED
0.2	0.7	Concrete Floor					2 PUSHED
0.7	8.0	Sand - Fine to Medium; Few Stones; Oily	4	3	3	4	4
		Binder	6	4	4	4	3
8.0	10.0	Sand - Fine, Tan	8	7	1	4	2
10.0	15.0	Sand - Tan and Fine Gravel	10	9	9	12	14
15.0	16.5	Sand - Fine, Tan	12	9	8	7	9
16.5	22.0	Sand - Medium and Fine Gravel	14	8	7	16	24
22.0	30.0	Sand and Gravel	16	25	26	34	37
30.0	45.0	Sand and Gravel w/Lenses of Gray Clay	18	15	18	23	29
		NOTE: A 2½" thick X 18" X 18" Steel Plate was placed over	20	12	12	19	23
		the well.					

Groundwater:

Encountered at 21 ft.

After Completion 20.95 ft.

After ____ Hrs. ____ ft.

Boring Cave In ____ ft.

Well Data:

Casing Used: Type Galvanized

Diameter 2"

Length 41

Screen Size 2" X 42"

Ft. Below Surface

EDI ENGINEERING & SCIENCE
ENGINEERS / GEOLOGISTS / BIOLOGISTS / CHEMISTS
511 CASCADE W. PKWY. S.E. GRAND RAPIDS, MI 49506; (616) 942-0970

Page: ____ of ____ 85-2
Well/Boring No.:
Client: General Motors - CPC
Project No.: 20456
Permit No.:
Date Started 11/26 Finished 11/26/85

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
KENT	CITY OF WYOMING	NW¼ NW ¼ NE ¼	24	6N	12W

Contractor: Stearns Drilling
Address: Dutton, MI
Equipment: CME 45
Supervisor: D. Johnson, J. Venn

Drilling Method(s) / Depth
Hollow Stem / 0-20'
Auger & Split Spoons

Grouting/Seal

Depth	To	Material
0	18.5'	Natural Soils and Benseal: Cement at Surface

Development: Bailer lowered on rope; three casing volumes removed.

Water Level: 14.13 Ft. Below: TOC
Measured On: 12/6/85

Screen:
Manufacturer: Johnson
Material: Stainless Steel
Model: 960
Slot/Gauze: 10 Dia.: 2"
Length: 5'
Depth Set: 13.5 To: 18.5'

Casing

Dia.	Type	Depth Set
2"	Galv.	0 To 13.5'
		To

Elevation
Casing: 672.5'
Ground:
Ref. Pt.:

Location Sketch : SEE LOCATION MAP

Remarks (include here, other data available)
Well has flush-mounted sealed metal cap with enclosed locking cap. Top of casing is cemented into asphalt parking lot.

(FEET) Thickness	(FEET) Depth To Base	Description	Remarks: SAMPLE DEPTH
0.3	0.3	ASPHALT PARKING LOT	3.5 5.0
0.7	1.0	ROAD GRAVEL	8.5 10.0
1.5	2.5	SAND - gravelly, fine to medium grained, black	13.5 15.0
		(with cinders)	18.5 20.0
2.3	4.8	SAND - gravelly, fine to medium grained, brown	
2.2	7.0	CLAY - sandy, dark brown	
0.5	7.5	PEAT	
1.5	9.0	SILT - gray	
4.0	13.0	SAND - silty, fine to medium grained, brown	
7.0	20.0	SAND - gravelly, medium to coarse grained, brown	

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Page: ____ of ____ 85-4
Well/Boring No.: ____
Client: General Motors - CPC
Project No.: 20456
Permit No.: ____
Date Started 11/26 Finished 11/26/85

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
KENT	CITY OF WYOMING	NE ¼ NW ¼ NE ¼	24	6N	12W

Contractor: Stearns Drilling
Address: Dutton, MI
Equipment: CME 45
Supervisor: D. Johnson, J. Venn

Drilling Method(s) / Depth
Hollow Stem 0-30'
Auger & Split Spoons

Grouting/Seal

Depth	To	Material
-0.3	30.7'	Natural Soils and Benseal; Cement at Surface

Development: Bailer lowered on rope; three casing volumes removed.

Water Level: 21.19 Ft. Below: TOC
Measured On: 12/6/85

Screen:
Manufacturer: Johnson
Material: Stainless Steel
Model: 960
Slot/Gauze: 10 Dia.: 2"
Length: 10'
Depth Set: 20.7' To: 30.7'

Casing

Dia.	Type	Depth Set
2"	Galv.	-0.3 To 20.7'
		To

Elevation
Casing: 681.3'
Ground:
Ref. Pt.:

Location Sketch: SEE LOCATION MAP

Remarks (include here, other data available)
Well has flush-mounted sealed metal cap with enclosed locking cap. Top of casing is cemented into concrete floor.

(FEET) Thickness	(FEET) Depth To Base	Description	Remarks: SAMPLE DEPTH
0.3	0.3	WOOD BLOCK FLOOR	3.5-5.0
0.8	1.1	CONCRETE FLOOR	8.5-10.0
4.9	6.0	SAND - fine to medium grained, brown	13.5-15.0
3.5	9.5	SAND - fine grained, light brown	18.5-20.0
4.5	14.0	SAND - fine to medium grained, brown	23.5-25.0
4.0	18.0	SAND - gravelly, medium to coarse grained, brown, slight odor	28.5-30.0
6.0	24.0	SAND - very fine grained, light gray, odor	
2.0	26.0	SAND - gravelly, medium to coarse grained, brown	
4.0	30.0	SAND - fine to medium, brown, becoming gravelly at base	

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611 CASCADE W. PKWY. S.E. GRAND RAPIDS, MI 49506; (616) 942-0970

Page: ____ of ____ 85-5B
Well/Boring No.:
Client: General Motors - CPC
Project No.: 20456
Permit No.:
Date Started 12/2 Finished 12/2/85

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
KENT	CITY OF WYOMING	NE ¼ NW ¼ NE ¼	24	6N	12W

Contractor: Stearns Drilling
Address: Dutton, MI
Equipment: CME 45
Supervisor: D. Johnson
J. Venn

Drilling Method(s) / Depth
Hollow Stem 0-33'
Auger & Split Spoons

Grouting/Seal

Depth	To	Material
-0.3	31.9'	Natural Soils and Benseal; Cement at Surface

Development: Bailer lowered on rope; three casing volumes removed.

Water Level: 21.23 Ft. Below: TOC
Measured On: 12/6/85

Screen:
Manufacturer: Johnson
Material: Stainless Steel
Model: 960
Slot/Gauze: 10 Dia.: 2"
Length: 10'
Depth Set: 21.9 To: 31.9'

Casing

Dia.	Type	Depth Set
2"	Galv.	-0.3 To 21.9'
		To

Elevation
Casing: 681.3'
Ground:
Ref. Pt.:

Location Sketch: SEE LOCATION MAP

Remarks (include here, other data available)
Well has flush-mounted sealed metal cap with enclosed locking cap. Top of casing is cemented into concrete floor. This well was drilled after Well 85-5A was plugged and abandoned.

(FEET) Thickness	(FEET) Depth To Base	Description	Remarks / SAMPLE DEPTH
0.3	0.3	WOOD BLOCK FLOOR	3.5 5.0
0.8	1.1	CONCRETE FLOOR	8.5 10.0
11.9	13.0	SAND - fine to medium grained, brown	13.5 15.0
5.0	18.0	SAND - fine to medium grained, dark brown, some gravel and pebbles	18.5 20.0
			23.5 25.0
1.8	19.8	GRAVEL - with pebbles, brown to white	28.5 30.0
4.7	24.5	SAND - fine grained, tan to brown	
4.7	29.2	SAND - gravelly, coarse grained, brown; grades to gravel at base; no odor	
0.8	30.0	SAND - fine grained, brown to tan, no odor	

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Page: ____ of ____ 85-7
Well/Boring No.: ____
Client: General Motors - CPC
Project No.: 20456
Permit No.: ____
Date Started 11/27 Finished 11/27/85

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
KENT	CITY OF WYOMING	NE ¼ NW ¼ NE ¼	24	6N	12W

Contractor: Stearns Drilling
Address: Dutton, MI
Equipment: CME 45
Supervisor: D. Johnson, J. Venn

Drilling Method(s) / Depth
Hollow Stem 0-25'
Auger & Split Spoons

Grouting/Seal

Depth To	Material
0 25.6'	Natural Soils and Benseal; Cement at Surface

Development: Bailer lowered on rope; three casing volumes removed.

Water Level: 20.22 Ft. Below: TOC
Measured On: 12/6/85

Screen:
Manufacturer: Johnson
Material: Stainless Steel
Model: 960
Slot/Gauze: 10 Dia.: 2"
Length: 5'
Depth Set: 20.6 To: 25.6'

Casing

Dia.	Type	Depth Set
2"	Galv.	0 To 20.6'
		To

Elevation
Casing: 678.7'
Ground:
Ref. Pt.:

Location Sketch : SEE LOCATION MAP

Remarks (include here, other data available)
Well has flush-mounted sealed metal cap with enclosed locking cap. Top of casing is cemented into area of loose soil surrounding well.

(FEET) Thickness	(FEET) Depth To Base	Description	Remarks: SAMPLE DEPTH
0.2	0.2	WOOD CHIPS	3.5 5.0
5.8	6.0	SAND - fine to medium grained, brown	8.5 10.0
14.0	20.0	SAND - fine to coarse grained, brown	13.5 15.0
5.0	25.0	SAND - fine grained, light brown	18.5 20.0

EDI Engineering & Science
Environmental Engineering
Geology, Biology and Chemistry
811 Cascade West Pkwy, SE, Grand Rapids, MI 49506-2179 (616) 942-6600

028

Page: ____ of ____
Well/Boring No.: 86-2
Client: GMC-C2C
Project No.: 20571
Permit No.:
Date Started 4/29 Finished 4/30/86

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
Kent	City of Wyoming	¼ NW ¼ NE ¼	18	6N	12W

Contractor: Stearns
Address:
Equipment: CME-45B
Supervisor: EIC

Drilling Method(s) / Depth
HSA / 60.5

Grouting/Seal

Depth	To	Material
0	23.0	natural soil and bentonite
23.0	60.5	natural soils

Development:

Water Level: 23 Ft. Below: TOC
Measured On: 4-30-86

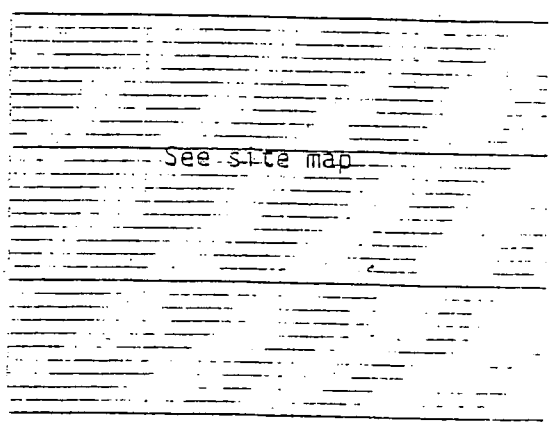
Screen:
Manufacturer: Johnson
Material: stainless steel
Model: 960
Slot/Gauze: 10-slot Dia.: 2"
Length: 2 x 60 x 72
Depth Set: 27.5 To: 32.5

Casing

Dia.	Type	Depth Set
2"	galv	0 To 27
		To

Elevation
Casing:
Ground:
Ref. Pt.:

Location Sketch



Remarks (include here, other data available)

Water sample depths: 30-33'; 40-43'; 45-48'

No odor detected when drilling

Thickness	Depth To Base	Description	Remarks
	0.8	CONCRETE	
9.7	10.5	SAND - fine, brown	
9.5	20.5	SAND - medium to fine, brown	
3.0	23.0	SAND - fine, light brown	
22.0	45.0	SAND - fine, brown, wet	
2.5	47.5	SAND - fine to medium, brown, wet	
5.5	53.0	SILT - gray, moist	
1.5	54.5	SAND - fine, brown, wet	
6.0	60.5	CLAY - gray, trace of sand, occasional lense fine sand	

611 Clarendon Hills Pkwy, SE; Grand Rapids, MI 49508-2179; (616) 949-9600

Well/Boring No.: 87-8
Client: GM CPC
Project No.: 20676
Permit No.:
Date Started 1/13 Finished 1/14/87

Well / Boring Log Sheet

County	Township	Fraction	Section	T	R
KENT	CITY OF WYOMING	¼ NE ¼ NW ¼	18	6N	12W

Contractor: Stearns Drilling
Address: Dutton, MI

Equipment: Acker AD II
8" HSA
Supervisor: E Culver

Drilling Method(s) / Depth
8" HSA / 65'

Grouting/Seal

Depth	To	Material
0.0	0.4'	Concrete
0.4	18.0'	Nat'l Soils & Bentonite

Development: @ 30'/40'/50'/60': Temporary Wells w/ Rod Pump

Water Level: 18.7 Ft. Below: GD
Measured On:

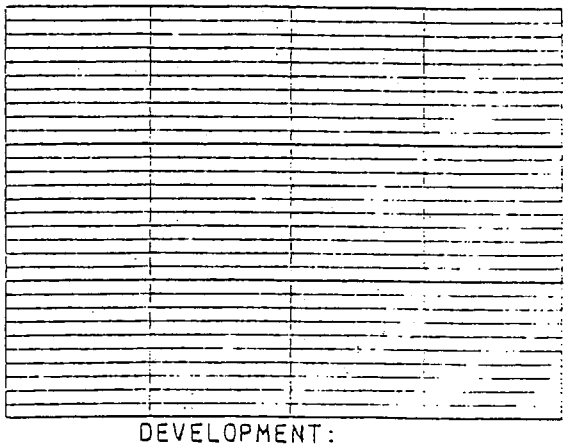
Screen:
Manufacturer: Johnson
Material: stainless steel
Model: 936
Slot/Gauze: 7 slot Dia.: 2"
Length: 3'
Depth Set: 19.7' To: 22.7'

Casing

Dia.	Type	Depth Set
2"	Galv.	0.3 To 19.7
		To

Elevation
Casing: 677.62'
Ground: 677.9'
Ref. Pt.: NGVD

Location Sketch : SEE LOCATION MAP



Remarks (include here, other data available)

DEVELOPMENT:

Temporary Wells @ 18.7 - 19.7'	Bailed	
28.0 - 31.0'	Rod Pump	45 gal
38.0 - 41.0'	Rod Pump	45 gal
48.0 - 51.0'	Rod Pump	75 gal
58.0 - 61.0'	Rod Pump	30 gal

Samples Taken w/Teflon Bailer

S = Soil / W = Water

(Feet) Thickness	(Feet) Depth To Base	Description	Remarks: *Sample Type: Sample Depth (ft)		
0.3	0.3	ASPHALT	3½	5	S/REP
0.7	1.0	GRAVEL	8½	10	S/REP
5.0	6.0	SAND - fine to medium, brown	13½	15	S/REP
7.0	13.0	SAND - coarse to medium, brown	18½	20	S/REP
5.5	18.5	SAND - medium, brown	18.7	19.7	W/DVA
3.5	52.0	SAND - medium, brown, wet	28	31	W/DVA
1.0	53.0	GRAVEL - wet	38	41	W/DVA
10.0	63.0	SAND - fine to very fine, wet, layers of brown and gray clay	48 58	51 61	W/DVA W/DVA
3.5	66.5	CLAY - gray, sandy, firm	65	66½	S/DVA

NOTE: Well caps have been stamped with 10# and locked with #506 padlock.

DI Engineering & Science

Page: 1 of 1
Well/Boring No.: 87-10
Client: CPC GR (36th Street)
Project No.: 20730

Well/Boring Log Sheet

County	Township	Fraction	Section	T	R
Kent	City of Wyoming	1/4 NW 1/4 SE 1/4	13	6N	12W

Contractor: Stearns Drilling
Address: Dutton, Mich

Equipment: CME 45
Roger/Dennis
Supervisor: Dan Johnson

Drilling Method(s)

Method	Depth
Auger (HSA)	0.0'- 30'
Mud Rotary	0.0'- 35'

Grouting/Seal

Depth	To	Material/Method
0.0'	1.0'	Cement/flush Mt. Cap
0'	24	Nat. soils & hole plug
4'	32	Natural soils

Development: Rod pumped for 15 minutes - until sediment free

Screen
Manufacturer: Johnson
Material: Stainless Steel
Model: wire wound
Slot/Gauze: 7 Dia.: 2"
Length: 3'
Depth Set: 29' To: 32'

Casing

Dia.	Type	Depth Set
2"	galv.	0.0 To 29'
		To

Date
Started: 10/2/87 Finished: 10/2/87

Elevation
Casing: 668.83
Ground: 669.13
Ref. Pt.:

Water Level Ft. Below
Measure On:

Location See location Map

Remarks (include here, other data available)
Well equipped with flush-mount cap

* Note: Broke Drilling Rod & Rotary Bit at 70' - Still in hole- Hole abandoned at 70'

Thickness	Depth to Base	LITHOLOGIC DESCRIPTION	Sampled from: (ft)	Sampled to: (ft)	First 6"	Second 6"	Last 6"	Remarks (blow counts)
0.2	0.2	Grass, topsoil	4	5.5	4	4	4	
4.3	4.5	Sand, brown, fine to medium with fine gravel	9	10.5	4	5	6	
1.5	6.0	Sand, light brown, fine to medium, with occasional fine gravel	14	15.5	4	pp	-	
12	18	Gravel, fine, sand, light brown, medium to coarse (wet @ 13.3)	19.5	22.5	4	3	3	
7	25	Sand, brown, medium to fine, gravel, fine	29	32	temp well			
41.5	66.5	Sand, brown, fine to medium with occasional fine gravel	38.5	41.5	temp well			
3	69.5	Gravel, coarse/cobbles, sand, medium, brown	48	51	temp well			
0.5	70	Gravel, coarse, sand, brown, medium with pieces of shale	58	61	temp well			

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Page: 1 of 1
Well/Boring No.: 87-11
Client: CPC GR (36th Street)
Project No.: 20790

Well/Boring Log Sheet

County	Township	Fraction	Section	T	R
Kent	City of Wyoming	1/4 NW 1/4 SE 1/4	13	6N	12W

Contractor: Stearns Drilling
Address: Dutton, Mich

Equipment: CME 45
Roger/Dennis
Supervisor: Don Johnson

Drilling Method(s) / Depth
Auger (HSA) 0.0-35'

Grouting/Seal
Depth To Material/Method

Development: Rod pumped for 20 minutes - until sediment free

Screen
Manufacturer: Johnson
Material: Stainless Steel
Model: wire wound
Slot/Gauze: 7 Dia.: 2"
Length: 3'
Depth Set: 30' To: 33'

Casing
Dia. Type Depth Set
2" galv. 0.0 To 30'
To

Date
Started: 10/2/87 Finished: 10/2/87

Elevation
Casing: 667.17
Ground: 667.47
Ref. Pt.:

Water Level Ft. Below
Measure On:

Location: See location Map

Remarks (include here, other data available): Well equipped with flush-mount cap

Thickness	Depth to Base	LITHOLOGIC DESCRIPTION	Remarks	Sampled from: (ft)	Sampled to: (ft)	First 6"	Second 6"	Last 6"
						blow counts		
1.0	1.0	Sand, coarse, Gravel, fine (ball diamond) brown to gray		4	5.5	3	3	4
2	3	Sand, brown, fine to medium with occasional fine gravel		9	10.5	4	4	5
3	6	Sand, brown, medium to fine to coarse with fine gravel		14	15.5	12	8	9
2.5	8.5	Sand, dark brownish-gray, medium to fine with fine gravel (slight odor)	temp well				18	21
3.5	12	Sand, gray to brown, medium to coarse with fine gravel (slight odor)	temp well				28	31
28	40	Sand, brownish gray, medium to coarse, fine gravel	temp well	38.4	39.4			
6	46	Sand, brownish gray, medium to coarse with occasional fine gravel	temp well	48	51			
7	53	Gravel, medium to coarse, sand, brownish gray, medium to coarse		53	54.5	6	10	11
2.5	55.5	Clay, reddish brown to gray, sandy with occasional fine gravel						

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Page: 1 of 1
Well/Boring No.: B-87-12
Client: CPC GR (36th Street)
Project No.: 20730

Well/Boring Log Sheet

County	Township	Fraction	Section	T	R
Kent	City of Wyoming	1/4 NW 1/4 SE 1/4	13	6N	12W

Contractor: Stearns Drilling
Address: Dutton, Mich

Equipment: CME 45
Roger/Dennis
Supervisor: Don Johnson

Drilling Method(s)	Depth
Auger (HSA)	0.0-35'
Mud Rotary	35-44.5

Routing/Seal

Depth	To	Material/Method

Development: see "Remarks"

Screen "temporary"
Manufacturer: Johnson
Material: Stainless Steel
Model: wire wound
Slot/Gauze: 7 Dia.: 2"
Length: 3'
Depth Set: 30' To: 33'

Casing

Dia.	Type	Depth Set
2"	galv.	see below To
		To

Date
Started: 10/5/87 Finished: 10/6/87

Elevation
Casing:
Ground: 661.41
Ref. Pt.:

Water Level 9.2 Ft. Below G.D.
Measure On: Inside Augers

Location: See location Map

Remarks (include here, other data available): Temporary well set @: 19-22
rod pumped for 15 minutes until sediment free/sampled with 2" S.S. bailer @ 12:20 pm
29-32 rod pumped for 10 min until sediment free/sampled with 2" S.S. bailer @ 1:35 pm

Thickness	Depth to Base	LITHOLOGIC DESCRIPTION	Remarks	Last 6"	Second 6"	First 6"
			Sampled to: (ft)	4 5.5	5 7	8
			Sampled from: (ft)	9 10.5	1 1	2
0.6	0.6	Grass, topsoil		14 15.5	1 1	2
8.5	9.1	Sand, black, medium to fine, fine to medium, gravel (tar-oily odor)		19 15.5	4 6	7
0.1	9.2	Sand, gray, medium with occasional fine gravel		temp well	19-22	12:20 pm
3.8	13	Peat, brown to reddish brown, soft (no odor)		temp well	29-32	1:35 pm
3.5	16.5	Marl, sand, gray, fine to medium with fine gravel, very soft		38.5 40	10 11	13
20.5	37	Sand, medium to fine, gravel, fine with some medium stones (wet 9.2')		43 44.5	15 18	21
2	39	Clay, brownish gray, sandy with occasional fine gravel				
0.1	39.1	Seam of fine gray sand				
2.9	42	Clay, brownish gray sandy, with occasional, fine gravel				
2.5	44.5	Clay, gray, sticky, soft				

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Page: 1 of 1
Well/Boring No.: B-87-13
Client: CPC GR (36th Street)
Project No.: 20790

Well/Boring Log Sheet

County	Township	Fraction	Section	T	R
Kent	City of Wyoming	1/4 NW 1/4 SE 1/4	13	6N	12W

Contractor: Stearns Drilling
Address: Dutton, Mich

Equipment: CME 45
Roger/Dennis
Supervisor: Don Johnson

Drilling Method(s)	Depth
Auger (HSA)	0.0-35'
Mud Rotary	35'-51'

Sealing/Seal

Depth	To	Material/Method

Development: see "Remarks"

Screen "temporary"
Manufacturer: Johnson
Material: Stainless Steel
Model: wire wound
Slot/Gauze: 7 Dia.: 2"
Length: 3'
Depth Set: see below To:

Casing

Dia.	Type	Depth Set	
2"	galv.	see below	To
			To

Date
Started: 10/6/87 Finished: 10/6/87

Elevation
Casing:
Ground: 664.53
Ref. Pt.:

Water Level 10.5 Ft. Below G.D.
Measure On: Inside Augers

Location See location Map

Remarks (include here, other data available) Temporary well set @:
20'-23' rod pumped for 10 min.- until sediment free/sampled w/ 2" S.S. bailer at 11:00am
30'-33' rod pumped for 10 min.-until sediment free/samoled w/ 2" S.S. bailer at 12:15pm
40'-43' rod pumped for 15 min.-until sediment free/sampled w/ 2" S.S. bailer at 2:45pm

Thick-ness	Depth to Base	LITHOLOGIC DESCRIPTION	Remarks	Last 6"	Second 6"	First 6"	blow counts		
			Sampled to: (ft)						
			Samoled from: (ft)						
0.5	0.5	Topsoil, grass, black		4	5.5	2	2	2	
6.5	7.0	Sand, brown, medium to fine, gravel, fine		9	10.5	6	4	4	
4.5	11.5	Sand, brown, medium to coarse, gravel, fine (pebbles)		14	15.5	7	10	13	
1'	12.5	Gravel, fine sand, brown, medium to coarse		temp well		20-23	11:00a		
19.5	32	Sand, brown, medium to fine, gravel, fine		temp well		30-33	12:15p		
4	36	Sand, brown, fine to medium with fine gravel (some fine gray sand)		temp well		40-43	2:45p		
13.5	49.5	Gravel, fine with some medium stones, sand, medium, brown to gray		49.5	51	16	23	32	
1.5	51	Clay, brownish, gray sandy, firm w/ occasional fine to medium gravel & pieces of coal							
		Refusal, hit larger rock or coal, very firm. Also ran out of Drilling mud.							
		Split spoon samoled to verify clay, 49.5' - 51'							

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Page: 1 of 1
Well/Boring No. Purge Well
Client: GMC-CPC-Grand Rapids
Project No.: 21219

Well/Boring Log Sheet

County	Township	Fraction 1/4 1/4 1/4	Section	T	R

Contractor Raymer Well Drilling
Address: 3311-3 Road NW
Grand Rapids, MI
Equipment: Rotary Drill Rig
Driller: D. Hurst
Supervisor: Soil descriptions written by Raymer Driller.

Drilling Method(s) **Depth**
15" Rotary 60'

Grouting/Seal

Depth	To	Material/Method
40	0	Cement Grout

Development
Air dev. until sediment free water was produced.

Screen
Manufacturer:
Material: S. Steel
Model: Cont. Slot
Slot/Gauge: 18 Dia.: 6"
Length: 10'
Depth Set: 45' To: 55'

Dia.	Type	Depth Set
6"	Black	+1.5' To 45'
		To

Date
Started: 6/12/89 Finished: 6/14/89

Elevation
Casing: 677.92
Ground:
Ref. Pt.: USGS Datum

Water Level 18' Ft. Belowground
Measure On:

Location 250' N. of 36th St.
12' S. of N. side of parking lot

Remarks Well was filled with a MAASS JX-1 4" bury pitless adaptor. Pump installed: Grundfos, model 40s15-5 (1.5 hp).

Remarks

Thickness	Depth to Base	LITHOLOGIC DESCRIPTION
16	16	GRAVEL and SAND
39	55	SAND and GRAVEL
5	60	CLAY, sandy, and GRAVEL
		EOB - 60'

GENERAL MOTORS CORPORATION-CPC GROUP | ALBERT KAHN ASSOCIATES, INC.

LOCATION: GRAND RAPIDS, MICHIGAN

PROJECT NAME: PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller reported 3" of Wood Blocks over 15" of Concrete	
				Driller reported Fine Sand with a 1.5' thick layer of fine to coarse sand & gravel at 4.5'- Dark Brown to Black changing to Brown at 4.5'	
			10		
1	SS			Fine to Coarse Sand-Trace to Some Gravel-Moist-Light Brown-Medium (SW)	
2	SS		20	Fine to Coarse Sand-Trace Silt & Gravel-Wet-Brown-Dense (SP) (Chemical odor noted in Sample 2)	
3	SS			Fine to Coarse Sand & Gravel-Trace to Some Silt-Wet-Brown-Dense (SP)	
4	SS		30	Silty Fine Sand-Wet-Light Brown-Dense (SM)	
5	SS				
6	SS		40	Silty Clay-Trace Sand-Dark Brown-Stiff to Hard (CL)	
7	SS				
8	SS		50	END OF BORING	
				30' of hollow stem auger was used	
				**Drilling water was used below 27'	
				Boring backfilled with bentonite and natural soils.	

LEGEND

STANDARD PENETRATION "N" BLOWS/FT

NATURAL WATER CONTENT, %

ATTERBERG LIMITS PL % LL %

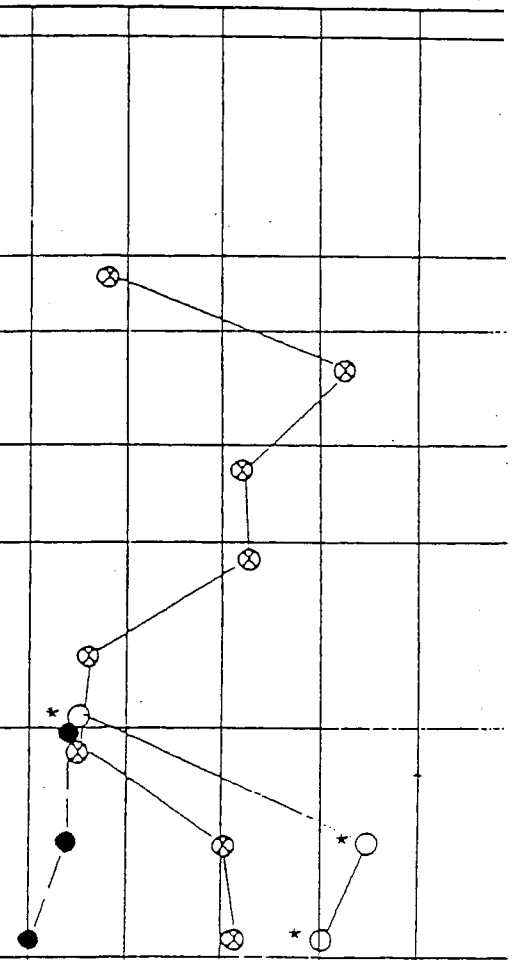
UNCONFINED COMPRESSIVE STRENGTH tsf

CALIBRATED HAND PENETROMETER STRENGTH tsf

SCALE

*○○ 1 2 3 4 5 tsf

● ⊗ 10 20 30 40 50 %, N



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS **

22' WHILE SAMPLING OR WHILE DRILLING

19'11" IMMEDIATELY AFTER COMPLETION

_____ _____ AFTER COMPLETION

BORING STARTED 3/31/95

BORING COMPLETED "

RIG: SD DRAWN BY: PT

FOREMAN: Heff APPROVED: AMS/GM

JOB: L8109 SHEET 1/1

NOTE: Boring backfilled with natural soils unless otherwise noted.

SME soil and materials engineers, inc.

OWNER
GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller Reported 18" of Concrete	
				Driller Reported Dark Brown Sand & Gravel	
1	SS		10	Fine to Coarse Sand-Trace to Some Gravel-Trace Silt-Light Brown-Moist-Medium Dense (SW)	
2	SS			Fine Sand-Brown-Moist-Dense (SP)	
3	SS		20	Silty Fine to Coarse Sand-Trace to Some Gravel-Brown-Wet-Medium Dense (SM)	
4	SS			Silty Fine Sand-Brown-Wet-Dense to Medium Dense (SM)	
5	SS		30		
6	SS			Silty Fine Sand-Gray-Saturated-Loose (SM)	
7	SS		40	Silty Clay-Trace Sand & Gravel-With Occasional Silt Seams-Gray-Very Stiff to Hard (CL)	
8	SS				
9	SS		50	END OF BORING	
				NOTE: 50' of Hollow Stem Auger Used	

LEGEND
- STANDARD PENETRATION, "N" (BLOWS/FT.)
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS — P.L. % — L.L. %
- UNCONFINED COMPRESSIVE STRENGTH (tsf)
- CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE
*○○ 1 2 3 4 5 tsf
●⊗ 10 20 30 40 50 %, N

NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

18' WHILE SAMPLING OR WHILE DRILLING
C.S' IMMEDIATELY AFTER COMPLETION
AFTER COMPLETION

BORING STARTED 4-21-88
BORING COMPLETED 4-21-88
RIG: CME 45B DRAWN BY: PT
FOREMAN: ST APPROVED: AS/PL
JOB: L8109 SHEET: 1 of 1
NOTE: Boring backfilled with nat

soil and materials engineers, inc

OWNER: GENERAL MOTORS CORPORATION CPC GROUP

ARCHITECT / ENGINEER: ALBERT KAHN ASSOCIATES, INC.

LOCATION: GRAND RAPIDS, MICHIGAN

PROJECT NAME: PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller Reported 12" of Concrete	
				Driller Reported Fine to Coarse Sand-Some Fine Gravel-Dark Brown	
			10		
1	SS			Fine to Coarse Sand-Trace Gravel-Brown-Moist Loose to Medium Dense (SP)	
2	SS				
3	SS		20	Fine Sand-Trace to Some Silt-Brown-Wet-Dense (SM)	
4	SS			Fine to Coarse Sand-Trace to Some Silt & Gravel-Brown-Wet-Medium Dense (SM)	
5	SS		30		
6	SS			Fine Sand-Trace to Some Silt-Brown-Wet-Very Dense to Dense (SM)	
7	SS		40	Fine Sandy Silt-With Occasional Fine Sand Layers-Gray-Saturated-Medium Dense to Dense (ML)	
8	SS				
9	SS		50	Silty Clay-Trace Sand & Gravel-Gray-Hard (CL)	
				END OF BORING	
				NOTE: 50' of Hollow Stem Auger Used-Boring Performed Below A 25' Depth	

LEGEND

STANDARD PENETRATION, "N" (BLOWS/FT.)

NATURAL WATER CONTENT, %

ATTERBERG LIMITS — P.L. % — L.L. %

UNCONFINED COMPRESSIVE STRENGTH, tsf

CALIBRATED HAND PENETROMETER STRENGTH, tsf

SCALE: 1 2 3 4 5 tsf; 10 20 30 40 50 %, N

61

NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

20' WHILE SAMPLING OR WHILE DRILLING

28' IMMEDIATELY AFTER COMPLETION

WCI @ 19.5' AFTER COMPLETION

BORING STARTED: 4-14-85

BORING COMPLETED: 4-14-85

RIG: CME 550 DRAWN BY: PT

FOREMAN: GRY APPROVED: AS/PL

JOB: L 8109 SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

soil and materials engineers, inc

ejl

OWNER
GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

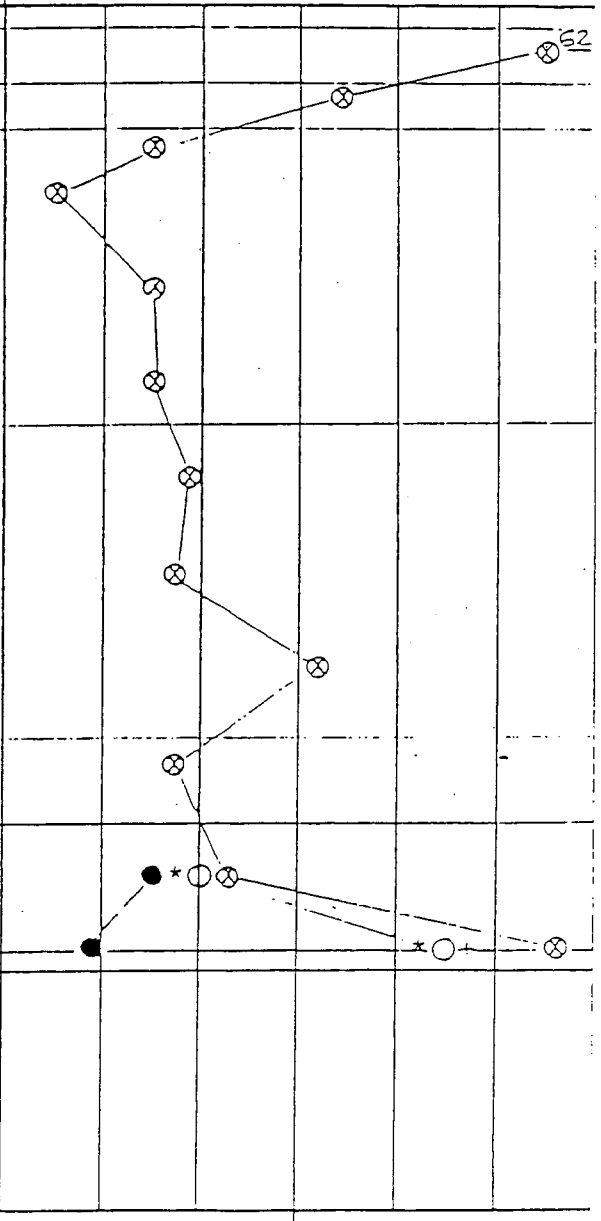
PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL
				SURFACE ELEVATION
				Driller Reported 12" Concrete
1	SS			Fine to Medium Sand Fill-Trace Silt & Gravel-Brown-Moist-Very Dense (SP-Fill)
2	SS			
3	SS			Fine to Coarse Sand Fill-Trace to Some Black Cinders-Black-Moist-Dense (SP-Fill)
4	SS		10	
5	SS			Fine to Coarse Sand -Trace Silt & Gravel-Brown-Moist to Wet-Medium Dense to Loose (SP)
				NOTE: Sample 6 had a chemical Odor.
6	SS		20	
7	SS			Silty Fine to Coarse Sand-Trace to Some Gravel-Brown-Wet-Medium to Dense (SM-GM)
8	SS		30	
9	SS			
10	SS		40	Fine Sandy Silt-Gray-Saturated-Medium Dense (ML)
				Silty Clay-Trace Sand & Gravel-Gray-Very Stiff (CL)
11	SS			Trace to Some Sand-Trace Gravel-Gray-Hard-Silty Clay (CL)
12	SS		50½	
				END OF BORING
				NOTE: 50' of Hollow Stem Auger Used.

UNIT DRY WT. LBS/FT³

LEGEND
- STANDARD PENETRATION, "N" (BLOWS/FT.)
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS (P.L. % — L.L. %)
- UNCONFINED COMPRESSIVE STRENGTH (tsf)
- CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE
- * ○ ○ 1 2 3 4 5 tsf
- ● ⊗ 10 20 30 40 50 %, N



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO. 335-832-141

WATER LEVEL OBSERVATIONS

18' WHILE SAMPLING OR WHILE DRILLING
— IMMEDIATELY AFTER COMPLETION
CT @ 8' AFTER COMPLETION

BORING STARTED	4-14-85
BORING COMPLETED	4-14-85
RIG: CME 458	DRAWN BY: PT
FOREMAN: ST	APPROVED: AS/PL
JOB: L8109	SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

soil and materials engineers, inc

OWNER	ARCHITECT / ENGINEER
GENERAL MOTORS CORPORATION-CPC GROUP	ALBERT KAHN ASSOCIATES, INC.
LOCATION	**PROJECT NAME**
GRAND RAPIDS, MICHIGAN	PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller Reported 11" of Concrete	
1	SS			Fine to Medium Sand Fill-Trace Silt, Gravel & Cinders-Brown-Moist-Very Loose- (SP-Fill)	
2	SS		10	Fine to Medium Sand-Trace Silt & Gravel-Brown-Moist-Very Loose (SP)	
3	SS				
4	SS		20	Fine to Coarse Sand-Trace to Some Gravel-Trace Silt-Brown-Moist to Wet-Medium Dense to Loose (SW)	
5	SS				
6	SS		30		
7	SS				
8	SS		40		
9	SS			Fine Sandy Silt With Occasional Silty Clay Layers-Gray-Medium Dense (ML)	
10	SS		50		
11	SS			Silty Clay-Trace Sand-With Occasional Silt Layers-Gray-Medium (CL)	
12	SS		60		
13	SS				
14	SS		70	Silty Clay-Trace to Some Sand-Trace Gravel-Gray-Stiff to Very Stiff (CL)	

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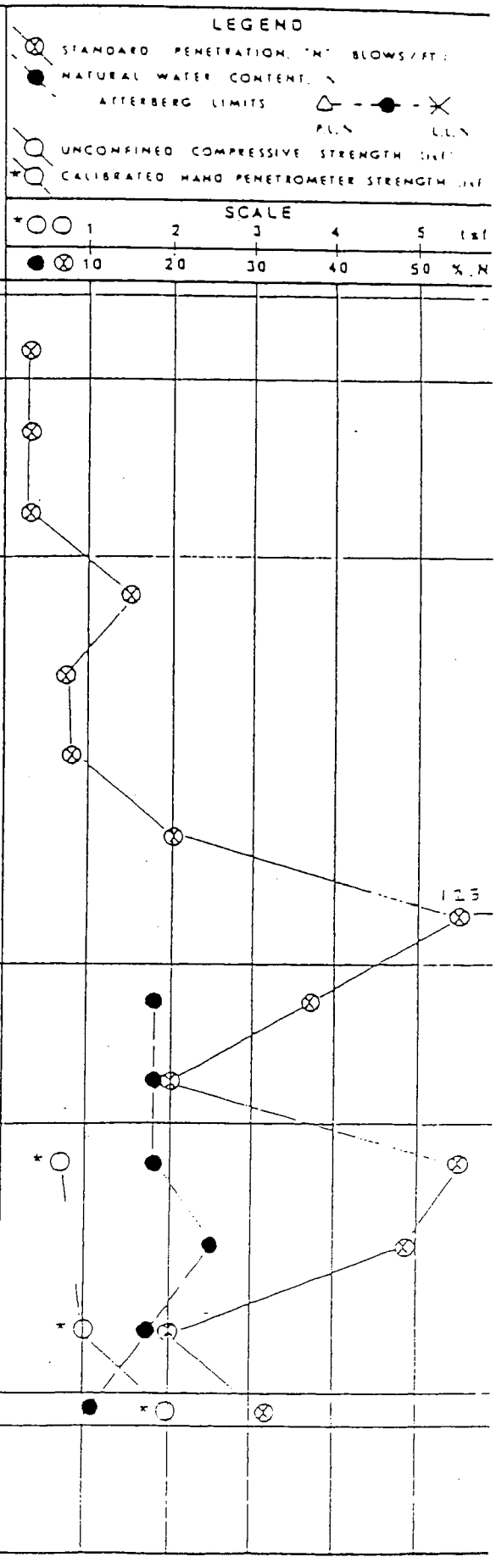


OWNER: GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER: ALBERT KAHN ASSOCIATES, INC.

LOCATION: GRAND RAPIDS, MICHIGAN

PROJECT NAME: PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller Reported 7" of Concrete	
1	SS			Fine to Medium Sand Fill-Trace Gravel-Brown-Moist-Medium Dense (SP-Fill)	
2	SS		10	Fine Sand-Light Brown-Moist-Loose (SP	
3	SS				
4	SS		20	Fine to Coarse Sand-Trace to Some Gravel-Trace Silt-Brown-Moist to Wet-Medium Dense (SW)	
5	SS				
6	SS		30		
7	SS			Silty Fine Sand-Trace to Some Gravel-Brown-Wet-Dense (SM)	
8	SS		40	Fine Sandy Silt-Wet-Gray-Dense (ML)	
9	SS				
10	SS		50	Silty Clay-Trace to Some Sand-Trace Gravel-Very Stiff to Hard (CL)	
11	SS				
12	SS		60		
				END OF BORING NOTE: 60' of Hollow Stem Auger Used-Wash Boring Performed Below a 30' Depth.	

LEGEND

STANDARD PENETRATION, "N" (BLOWS/FT.)

NATURAL WATER CONTENT, %

ATTERBERG LIMITS P.L. % L.L. %

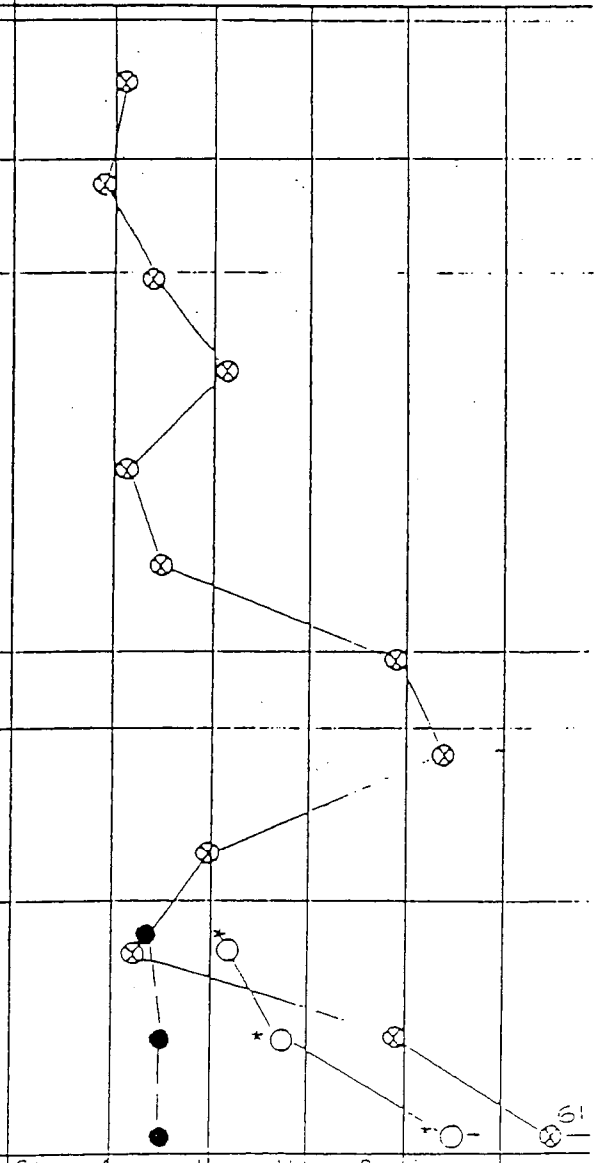
UNCONFINED COMPRESSIVE STRENGTH (tsf)

CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE

* ○ ○ 1 2 3 4 5 tsf

● ⊗ 10 20 30 40 50 %, N



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

22' WHILE SAMPLING OR WHILE DRILLING

32' IMMEDIATELY AFTER COMPLETION

Cl @ 17' AFTER COMPLETION

BORING STARTED	4-14-85
BORING COMPLETED	4-14-85
RIG: CME 550	DRAWN BY: PT
FOREMAN: GRY	APPROVED: AS/PL
JOB: L8109	SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

soil and materials engineers, inc

OWNER: GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT OR ENGINEER: ALBERT KAHN ASSOCIATES, INC.

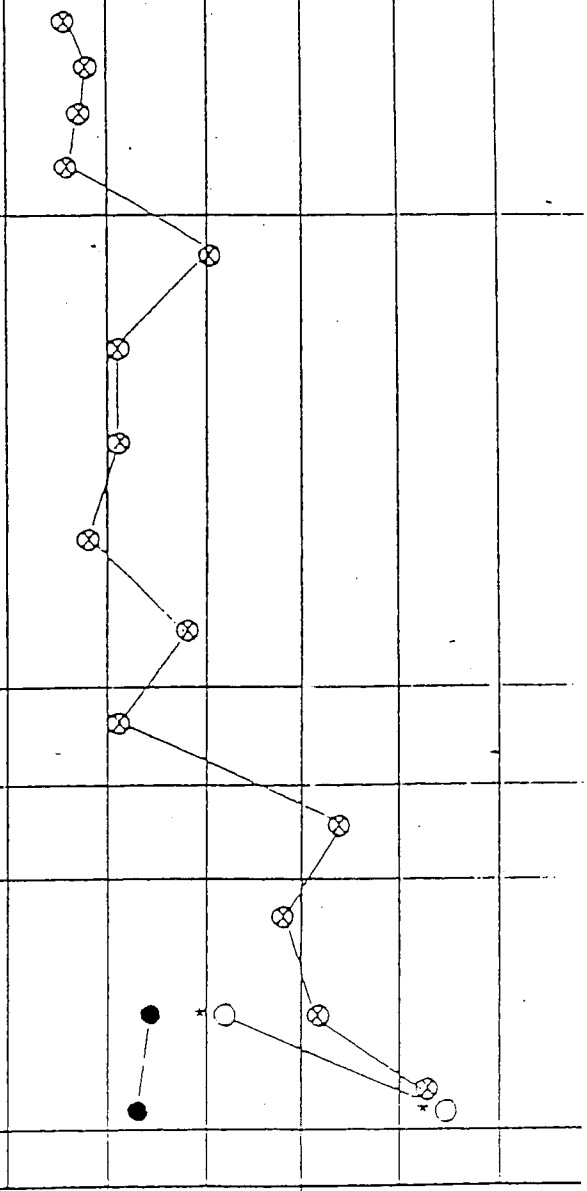
LOCATION: GRAND RAPIDS, MICHIGAN

PROJECT NAME: PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
1	SS			Fine to Medium Sand-Trace Gravel-Moist-Brown-Loose (SP) - Possible Fill	
2	SS				
3	SS				
4	SS		10		
5	SS			Fine to Coarse Sand-Some Gravel-Trace Silt-Moist-Brown-Medium Dense (SW)	
6	SS		20		
7	SS				
8	SS		30		
9	SS				
10	SS		40	Fine to Medium Sand-Wet- Brown-Medium Dense (SP)	
11	SS			Fine Sand-Trace Silt & Clay-Wet-Gray- Dense (SP-SC)	
12	SS		50	Silty Clay-Trace Sand-Gray-Very Stiff to Hard (CL)	
13	SS				
14	SS		60		
				END OF BORING 30' of hollow stem auger was used	

LEGEND
- STANDARD PENETRATION, "N" BLOWS/FT
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS — PL % — LL %
- UNCONFINED COMPRESSIVE STRENGTH tsf
- CALIBRATED HAND PENETROMETER STRENGTH tsf

SCALE
- tsf: 1 2 3 4 5
- % N: 10 20 30 40 50



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

23' WHILE SAMPLING OR WHILE DRILLING

IMMEDIATELY AFTER COMPLETION

AFTER COMPLETION

Drilling water used below 30'

BORING STARTED: 3/31/85

BORING COMPLETED: "

RIG: SD DRAWN BY: PT

FOREMAN: Heff APPROVED: AMS/GH

JOB: L8109 SHEET: 1 of 1

NOTE Boring backfilled with natural soils unless otherwise noted.

soil and materials engineers, inc

OWNER
GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION	
				Driller Reported 12" of Concrete	
1	SS			Fine Sand Fill-TraceSilt & Fine Gravel-Brown-Moist-Very Loose to Loose (SP-Fill)	
2	SS		10		
3	SS			Fine Sand-Light Brown-Moist-Medium Dense (SP)	
4	SS		20	Fine to Coarse Sand-Some Gravel-Light Brown-Moist-Medium Dense (SW)	
5	SS			Fine Sand-Trace to Some Gravel-Brown-Wet-Medium Dense (SP)	
6	SS		30	Fine to Coarse Sand-Some Gravel-Trace Silt-Brown-Wet-Loose to Medium Dense (SW)	
7	SS				
8	SS		40	Fine to Medium Sand-Trace Gravel-Brown-Wet-Medium Dense (SP)	
9	SS			Silty Clay-With Occasional Silt Partings & Seams-Gray-Stiff (CL)	
10	SS		50	Silty Fine Sand-Gray-Wet-Dense-(SM)	
11	SS			Clayey Silt-Trace Very Fine Sand-Gray-Wet-Medium Dense (ML)	
12	SS		60	Silty Clay Trace Sand & Gravel-Gray-Hard (CL)	
13	SS				
14	SS		70		

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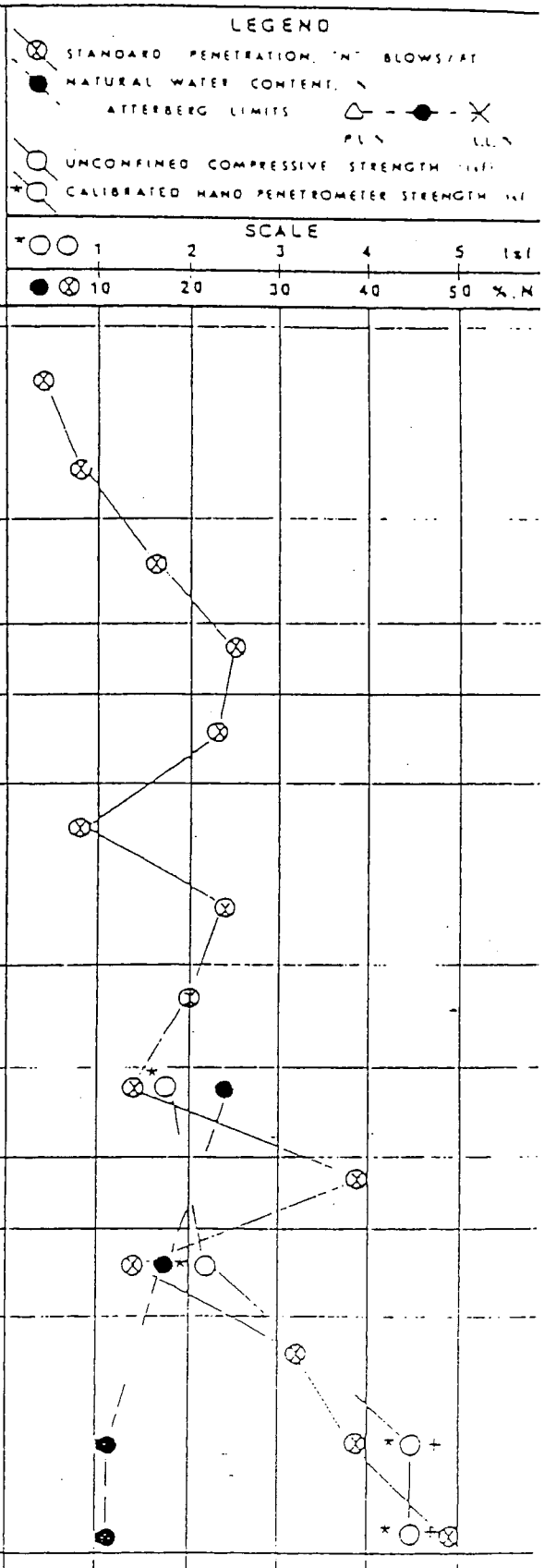

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ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL
				SURFACE ELEVATION 95.6
1	SS			Driller Reported 11" of Concrete
2	SS			Silty Fine to Medium Sand Fill-Trace Gravel-Brown-Moist-Medium Dense to Loose (SM-Fill)
3	SS			
4	SS		10	Amorphous Peat-Trace to Some Wood-Black-Moist-Loose (PT) NOTE: Sample 4 had a chemical odor
5	SS			
6	SS		20	Fine to Medium Sand-Trace to Some Gravel-Brown-Moist to Wet-Medium Dense to Loose (SP)
7	SS			
8	SS		30	END OF BORING

NOTE: Driller reported solvant odor in peat and wet sand samples.
30' of Hollow Stem Auger used.

UNIT DRY WT. LBS/FT³

LEGEND
- STANDARD PENETRATION, "N" (BLOWS/FT)
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS (PL, LL)
- UNCONFINED COMPRESSIVE STRENGTH (tsf)
- CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE
tsf: 1 2 3 4 5
%, N: 10 20 30 40 50

NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO. -

WATER LEVEL OBSERVATIONS

17' WHILE SAMPLING OR WHILE DRILLING
15' IMMEDIATELY AFTER COMPLETION
___ AFTER COMPLETION
WCI @ 13'

BORING STARTED	4-11-85
BORING COMPLETED	4-11-85
RIG: CME 550	DRAWN BY: PT
FOREMAN: GRY	APPROVED: AS/PL
JOB: L8109	SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

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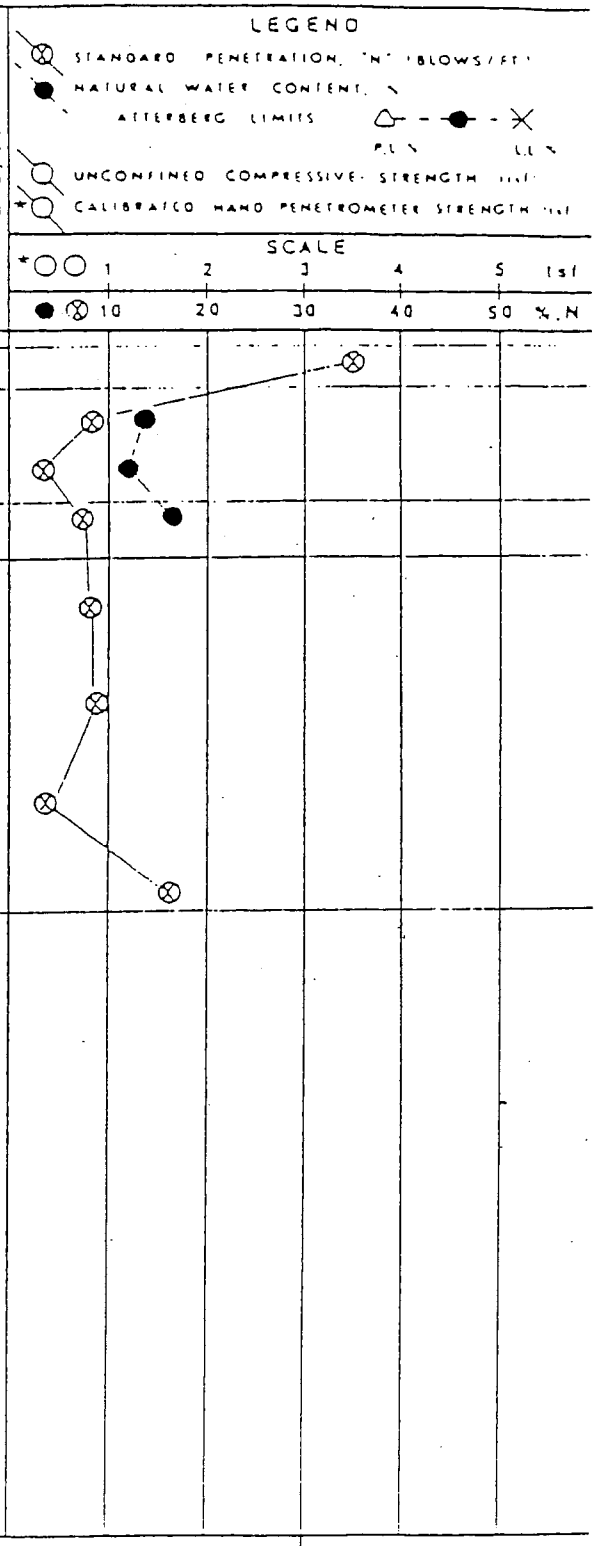
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION 95.4	
1	SS			Driller Reported 11" of Concrete	
				Fine to Medium Sand Fill-Trace Silt-Brown-Moist-Dense (SP-Fill)	
2	SS			Silty Fine Sand Fill-Trace Roots & Gravel-Black-Moist-Loose to	
3	SS			Very Loose (SM-Fill)	
4	SS		10	Amorphous Peat-Trace Wood & Roots-Black-Moist-Loose (PT)	
5	SS			Fine to Coarse Sand-Trace Gravel-Brown-Wet-Very Loose to	
6	SS		20	Medium Dense (SW)	
7	SS				
8	SS		30		
				END OF BORING	
				NOTE: 30' of Hollow Stem Auger Used	



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

17' WHILE SAMPLING OR WHILE DRILLING
11.3' IMMEDIATELY AFTER COMPLETION
AFTER COMPLETION
WCI @ 11.3'

BORING STARTED	4-11-85
BORING COMPLETED	4-11-85
RIG: CME 45B	DRAWN BY: PT
FOREMAN: ST	APPROVED: AS/PL
JOB: L8109	SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

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OWNER
GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL
				SURFACE ELEVATION 96.2
				Driller Reported 9" of Concrete
1	SS			Fine to Medium Sand fill-Trace to Some Silt-Brown-Moist-Medium Dense to Very Loose (SM-Fill)
2	SS			
3	SS			
4	SS		10	Fine to Medium Sand-Trace Gravel-With Occasional Peat Layers-Gray-Wet-Very Loose (SP)
5	SS			Fine to Coarse Sand-Trace to Some Gravel-Brown-Wet-Loose to Medium Dense (SW)
6	SS		20	
7	SS			
8	SS		30	
9	SS			
				Fine Sand-Trace Silt-Brown-Wet-Dense (SP)
10	SS		40	
				END OF BORING
				NOTE: 40' of Hollow Stem Auger Used.

UNIT DRY WT. LBS/FT³

LEGEND
- STANDARD PENETRATION, "N" (BLOWS/FT.)
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS P.L. % L.L. %
- UNCONFINED COMPRESSIVE STRENGTH tsf
- CALIBRATED HAND PENETROMETER STRENGTH tsf

SCALE
*○○ 1 2 3 4 5 tsf
● ⊗ 10 20 30 40 50 %, N

NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

17' WHILE SAMPLING OR WHILE DRILLING
20' IMMEDIATELY AFTER COMPLETION
AFTER COMPLETION
Cl @ 10'

BORING STARTED 4-11-85
BORING COMPLETED 4-11-85
RIG: CME 550 DRAWN BY: PT
FOREMAN: GRY APPROVED: AS/PL
JOB: L8109 SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

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OWNER	ARCHITECT / ENGINEER
GENERAL MOTORS CORPORATION-CPC GROUP	ALBERT KAHN ASSOCIATES, INC.
LOCATION	**PROJECT NAME**
GRAND RAPIDS, MICHIGAN	PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION 93.4	
			60	CONTINUED FROM PAGE 1	
14	SS			Fine to Coarse Sand-Trace to Some Gravel-Brown-Wet-Medium Dense to Loose (SW)	
15	SS		70		
				END OF BORING	
				NOTE: 55' of Hollow Stem Auger Used.	
				Rotary Drilling was performed below a 55'depth.	

LEGEND

STANDARD PENETRATION, "N" (BLOWS/FT.)

NATURAL WATER CONTENT, %

ATTERBERG LIMITS P.L. % L.L. %

UNCONFINED COMPRESSIVE STRENGTH (tsf)

CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE

* ○ ○ 1 2 3 4 5 tsf

● ⊗ 10 20 30 40 50 %, N

NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual

MINERAL WELL PERMIT NO.

WATER LEVEL OBSERVATIONS

14.5' WHILE SAMPLING OR WHILE DRILLING

15' IMMEDIATELY AFTER COMPLETION

____ ____ AFTER COMPLETION

CL @ 15'

BORING STARTED	4-11-85
BORING COMPLETED	4-11-85
RIG: CME 550	DRAWN BY: PT
FOREMAN: GRY	APPROVED: AS/PL
JOB: L8109	SHEET: 2 of 2

NOTE: Boring backfilled with natural soils unless otherwise noted.

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OWNER
GENERAL MOTORS CORPORATION-CPC GROUP

ARCHITECT / ENGINEER
ALBERT KAHN ASSOCIATES, INC.

LOCATION
GRAND RAPIDS, MICHIGAN

PROJECT NAME
PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS/FT³
				SURFACE ELEVATION 96.8	
1	SS			Driller Reported 7"of Concrete	
2	SS			Silty Fine Sand Fill-Trace to Some Cinders-Trace Gravel-Dark Gray-Moist-Medium Dense (SM-Fill)	
3	SS			Silty Fine to Medium Sand Fill-Trace Gravel Brown-Moist-Medium Dense (SP-SM-Fill)	
4	SS		10		
5	SS			Fine to Medium Sand-Trace Silt-Brown-Moist-Loose to Very Loose (SP)	
6	SS		20		
7	SS			Fine to Medium Sand-Brown-Wet-Loose to Medium Dense (SP)	
8	SS		30		
9	SS			Fine to Coarse Sand-Trace to Some Gravel-Brown-Wet-Dense to Medium Dense (SW)	
10	SS		40		
11	SS			Fine Sand-Trace Silt-Brown-Wet-Medium Dense (SP)	
12	SS		50		
13	SS			Fine to Coarse Sand-Trace to Some Gravel-Seams of Very Fine Sand-Brown-Wet-Medium Dense to Loose (SP)	
14	SS		60		

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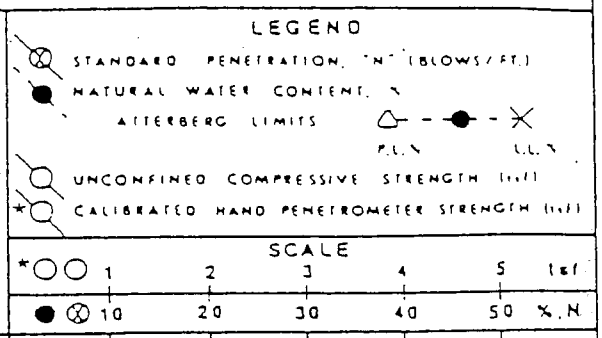


BORING LOG NO. 312

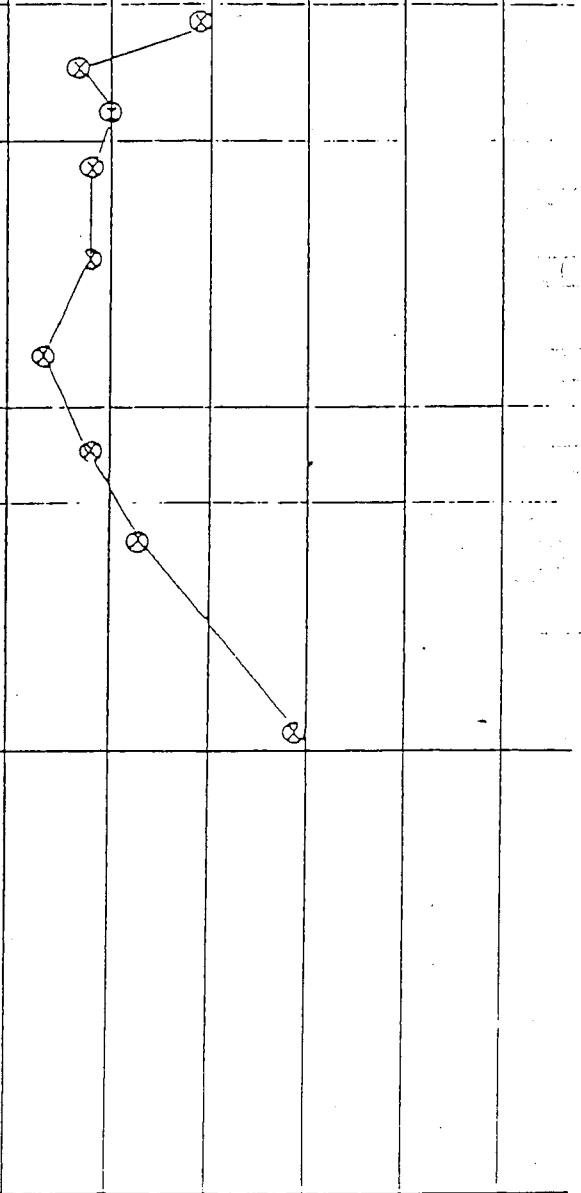
OWNER	ARCHITECT / ENGINEER
GENERAL MOTORS CORPORATION-CPC GROUP	ALBERT KAHN ASSOCIATES, INC.
LOCATION	**PROJECT NAME**
GRAND RAPIDS, MICHIGAN	PLANT MODERNIZATION PROGRAM

SAMPLE NUMBER	SAMPLE TYPE	SAMPLE DISTANCE	DEPTH IN FEET	DESCRIPTION OF MATERIAL
				SURFACE ELEVATION 96.5
				Driller Reported 8" of Concrete
1	SS			Fine to Medium Sand Fill-Trace to Some Silt-Trace Gravel-Dark Brown-Moist-Medium Dense to Loose (SM-Fill)
2	SS			
3	SS			
4	SS		10	Fine to Medium Sand-Trace Silt-Brown-Moist to Wet-Loose (SP)
5	SS			
6	SS		20	
7	SS			Fine to Coarse Sand-Trace Silt & Gravel-Brown-Wet-Loose (SW)
8	SS		30	Fine Sand-Trace Silt-Brown-Wet-Loose to Medium Dense (SP)
9	SS			
10	SS		40	
				END OF BORING
				NOTE: 40' of Hollow Stem Auger Used.

UNIT DRY WT. LBS/FT³

LEGEND
- STANDARD PENETRATION, "N" (BLOWS/FT.)
- NATURAL WATER CONTENT, %
- ATTERBERG LIMITS — P.L. % — L.L. %
- UNCONFINED COMPRESSIVE STRENGTH (tsf)
- CALIBRATED HAND PENETROMETER STRENGTH (tsf)

SCALE
- ○ ○ 1 2 3 4 5 (tsf)
- ● ⊗ 10 20 30 40 50 %



NOTE: The indicated stratification lines are approximate. In situ, the transition between materials may be gradual.

MINERAL WELL PERMIT NO. 335-832-141

WATER LEVEL OBSERVATIONS

18' WHILE SAMPLING OR WHILE DRILLING
15' IMMEDIATELY AFTER COMPLETION
AFTER COMPLETION
CI @ 15'

BORING STARTED	4-11-85
BORING COMPLETED	4-11-35
RIG: CME 550	DRAWN BY: PT
FOREMAN: GRY	APPROVED: AS/PL
JOB: L8109	SHEET: 1 of 1

NOTE: Boring backfilled with natural soils unless otherwise noted.

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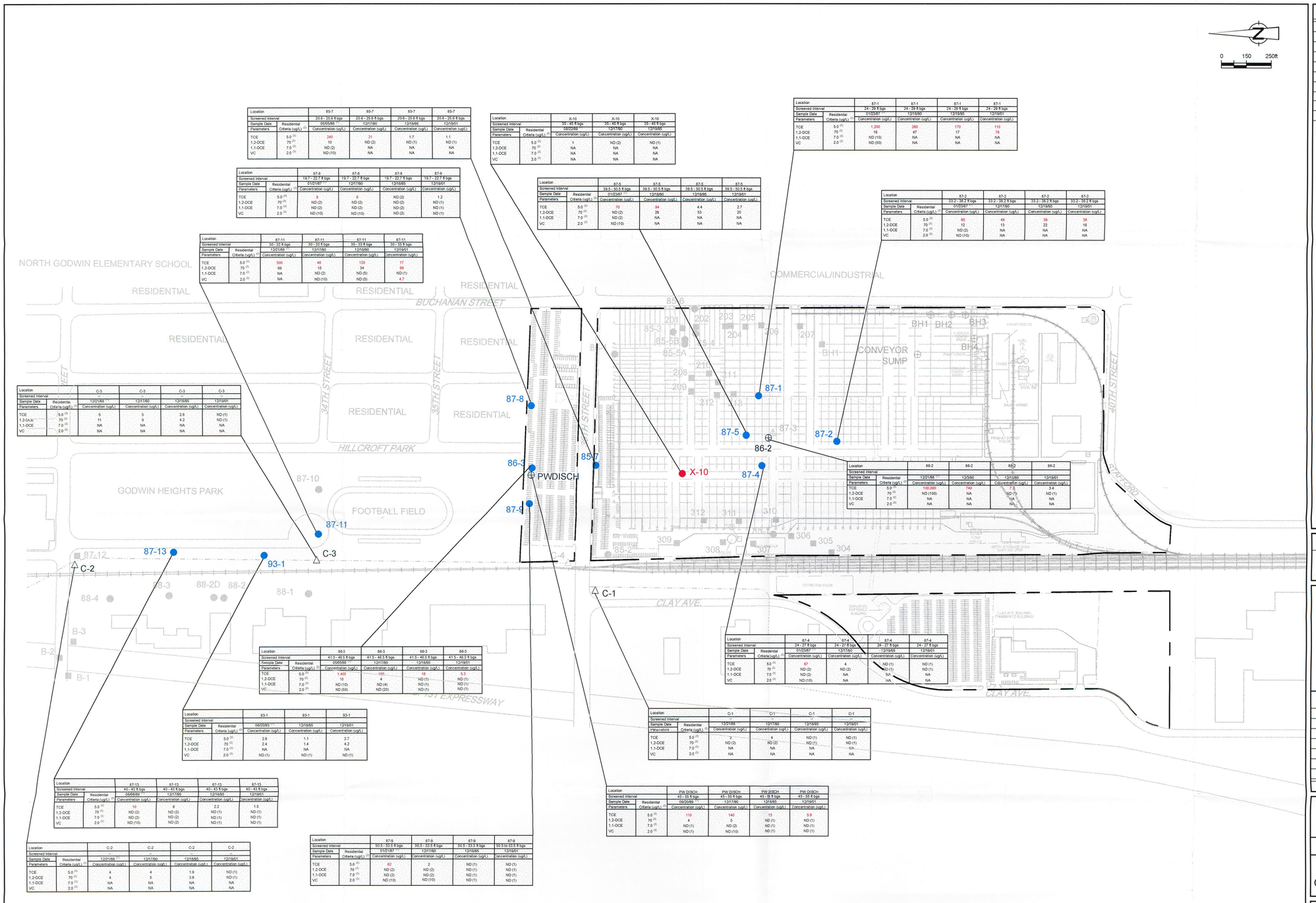


Location		85-7	85-7	85-7	85-7
Screened Interval		20.6 - 25.6 ft bgs	20.6 - 25.6 ft bgs	20.6 - 25.6 ft bgs	20.6 - 25.6 ft bgs
Sample Date	Residential	05/05/88	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	240	21	1.7	1.1
1,2-DCE	70 [6]	10	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	NA	NA	NA
VC	2.0 [6]	ND (10)	NA	NA	NA

Location		X-10	X-10	X-10
Screened Interval		35 - 45 ft bgs	35 - 45 ft bgs	35 - 45 ft bgs
Sample Date	Residential	05/03/89	12/17/90	12/18/95
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	1	ND (2)	ND (1)
1,2-DCE	70 [4]	NA	NA	NA
1,1-DCE	7.0 [6]	NA	NA	NA
VC	2.0 [6]	NA	NA	NA

Location		87-1	87-1	87-1	87-1
Screened Interval		24 - 29 ft bgs	24 - 29 ft bgs	24 - 29 ft bgs	24 - 29 ft bgs
Sample Date	Residential	01/23/87 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	1,200	260	170	110
1,2-DCE	70 [6]	16	47	17	78
1,1-DCE	7.0 [6]	ND (110)	NA	NA	NA
VC	2.0 [6]	ND (50)	NA	NA	NA

Location		87-8	87-8	87-8	87-8
Screened Interval		19.7 - 22.7 ft bgs	19.7 - 22.7 ft bgs	19.7 - 22.7 ft bgs	19.7 - 22.7 ft bgs
Sample Date	Residential	01/21/87 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	9	ND (2)	ND (2)	1.2
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (2)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	ND (2)	ND (2)	ND (1)
VC	2.0 [6]	ND (10)	ND (10)	ND (2)	ND (1)

Location		87-5	87-5	87-5	87-5
Screened Interval		39.5 - 50.5 ft bgs	39.5 - 50.5 ft bgs	39.5 - 50.5 ft bgs	39.5 - 50.5 ft bgs
Sample Date	Residential	01/23/87 [1]	12/18/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	70	84	4.4	2.7
1,2-DCE	70 [6]	ND (2)	29	53	20
1,1-DCE	7.0 [6]	ND (2)	NA	NA	NA
VC	2.0 [6]	ND (10)	NA	NA	NA

Location		87-2	87-2	87-2	87-2	87-2
Screened Interval		33.2 - 38.2 ft bgs	33.2 - 38.2 ft bgs	33.2 - 38.2 ft bgs	33.2 - 38.2 ft bgs	33.2 - 38.2 ft bgs
Sample Date	Residential	01/23/87 [1]	12/17/90	12/18/95	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	65	49	39	39	38
1,2-DCE	70 [6]	13	13	22	16	16
1,1-DCE	7.0 [6]	ND (2)	NA	NA	NA	NA
VC	2.0 [6]	ND (10)	NA	NA	NA	NA

Location		87-11	87-11	87-11	87-11
Screened Interval		30 - 33 ft bgs	30 - 33 ft bgs	30 - 33 ft bgs	30 - 33 ft bgs
Sample Date	Residential	12/21/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	500	46	120	17
1,2-DCE	70 [6]	69	15	34	99
1,1-DCE	7.0 [6]	NA	ND (2)	ND (5)	ND (1)
VC	2.0 [6]	NA	ND (10)	ND (5)	4.7

Location		C-3	C-3	C-3	C-3
Screened Interval		--	--	--	--
Sample Date	Residential	12/21/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	5	5	2.8	ND (1)
1,2-DCE	70 [6]	11	9	4.2	ND (1)
1,1-DCE	7.0 [6]	NA	NA	NA	NA
VC	2.0 [6]	NA	NA	NA	NA

Location		86-2	86-2	86-2	86-2
Screened Interval		--	--	--	--
Sample Date	Residential	12/21/88 [1]	12/20/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	100,000	740	7.3	3.4
1,2-DCE	70 [6]	ND (100)	NA	ND (1)	ND (1)
1,1-DCE	7.0 [6]	NA	NA	NA	NA
VC	2.0 [6]	NA	NA	NA	NA

Location		87-4	87-4	87-4	87-4
Screened Interval		24 - 27 ft bgs	24 - 27 ft bgs	24 - 27 ft bgs	24 - 27 ft bgs
Sample Date	Residential	01/23/87 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	87	4	ND (1)	ND (1)
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	NA	NA	NA
VC	2.0 [6]	ND (10)	NA	NA	NA

Location		86-3	86-3	86-3	86-3
Screened Interval		41.5 - 46.5 ft bgs	41.5 - 46.5 ft bgs	41.5 - 46.5 ft bgs	41.5 - 46.5 ft bgs
Sample Date	Residential	05/05/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	1,400	100	16	5.3
1,2-DCE	70 [6]	10	4	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (10)	ND (4)	ND (1)	ND (1)
VC	2.0 [6]	ND (50)	ND (20)	ND (1)	ND (1)

Location		93-1	93-1	93-1
Screened Interval		--	--	--
Sample Date	Residential	08/20/93 [1]	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	2.6	1.1	2.7
1,2-DCE	70 [6]	2.4	1.4	4.2
1,1-DCE	7.0 [6]	NA	NA	NA
VC	2.0 [6]	ND (1)	ND (1)	ND (1)

Location		C-1	C-1	C-1	C-1
Screened Interval		--	--	--	--
Sample Date	Residential	12/21/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	3	4	ND (1)	ND (1)
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	NA	NA	NA	NA
VC	2.0 [6]	NA	NA	NA	NA

Location		87-13	87-13	87-13	87-13
Screened Interval		40 - 43 ft bgs	40 - 43 ft bgs	40 - 43 ft bgs	40 - 43 ft bgs
Sample Date	Residential	06/08/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	10	6	2.2	1.5
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	ND (2)	ND (1)	ND (1)
VC	2.0 [6]	ND (10)	ND (2)	ND (1)	ND (1)

Location		C-2	C-2	C-2	C-2
Screened Interval		--	--	--	--
Sample Date	Residential	12/21/88 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	4	4	1.9	ND (1)
1,2-DCE	70 [6]	4	5	3.8	ND (1)
1,1-DCE	7.0 [6]	NA	NA	NA	NA
VC	2.0 [6]	NA	NA	NA	NA

Location		87-9	87-9	87-9	87-9
Screened Interval		50.5 - 53.5 ft bgs	50.5 - 53.5 ft bgs	50.5 - 53.5 ft bgs	50.5 to 53.5 ft bgs
Sample Date	Residential	01/21/87 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	62	2	ND (1)	ND (1)
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	ND (2)	ND (1)	ND (1)
VC	2.0 [6]	ND (10)	ND (10)	ND (1)	ND (1)

Location		PW DISCH	PW DISCH	PW DISCH	PW DISCH
Screened Interval		45 - 55 ft bgs	45 - 55 ft bgs	45 - 55 ft bgs	45 - 55 ft bgs
Sample Date	Residential	09/20/89 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	110	140	13	5.8
1,2-DCE	70 [6]	4	5	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (1)	ND (2)	ND (1)	ND (1)
VC	2.0 [6]	ND (1)	ND (10)	ND (1)	ND (1)

Location		87-4	87-4	87-4	87-4
Screened Interval		24 - 27 ft bgs	24 - 27 ft bgs	24 - 27 ft bgs	24 - 27 ft bgs
Sample Date	Residential	01/23/87 [1]	12/17/90	12/18/95	12/18/01
Parameters	Criteria (ug/L) [3]	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)	Concentration (ug/L)
TCE	5.0 [6]	87	4	ND (1)	ND (1)
1,2-DCE	70 [6]	ND (2)	ND (2)	ND (1)	ND (1)
1,1-DCE	7.0 [6]	ND (2)	NA	NA	NA
VC	2.0 [6]	ND (10)	NA	NA	NA

LEGEND

- 307 — SOIL BORING LOCATION
- X-10 — DESTROYED/REMOVED MONITORING WELL LOCATION
- 87-2 — MONITORING WELL LOCATION
- PWDISCH — PURGE WELL LOCATION
- C-2 — CULVERT LOCATION
- 87-3 — AIR PURGE WELL
- BH1 — APPROXIMATE LOCATION OF DEWATERING WELLS
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- COLE DRAIN
- 1,200 — RESULT EXCEEDS ONE OR MORE MICHIGAN ACT 451 PART 201 RESIDENTIAL CLEANUP CRITERIA
- (1) — INITIAL SAMPLING EVENT DATE OR HIGHEST OBSERVED CONCENTRATION SAMPLING EVENT
- (2) — MICHIGAN ACT 451 PART 201 GROUNDWATER: RESIDENTIAL CLEANUP CRITERIA, MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, JUNE 7, 2000.
- (3) — MOST STRINGENT RESIDENTIAL CLEANUP CRITERION PRESENTED FROM THE DRINKING WATER CRITERION, GROUNDWATER SURFACE WATER INTERFACE CRITERION, GROUNDWATER VOLATILIZATION TO INDOOR AIR INHALATION CRITERION, AND GROUNDWATER CONTACT CRITERION.

SOURCE: EDI ENGINEERING & SCIENCE, JUNE 1987 AND JUNE 1988 AND EARTH TECH, SEPTEMBER 2001.

NO	Revision	Date	Initial

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

GRAND RAPIDS METAL PLANT

WYOMING, MICHIGAN

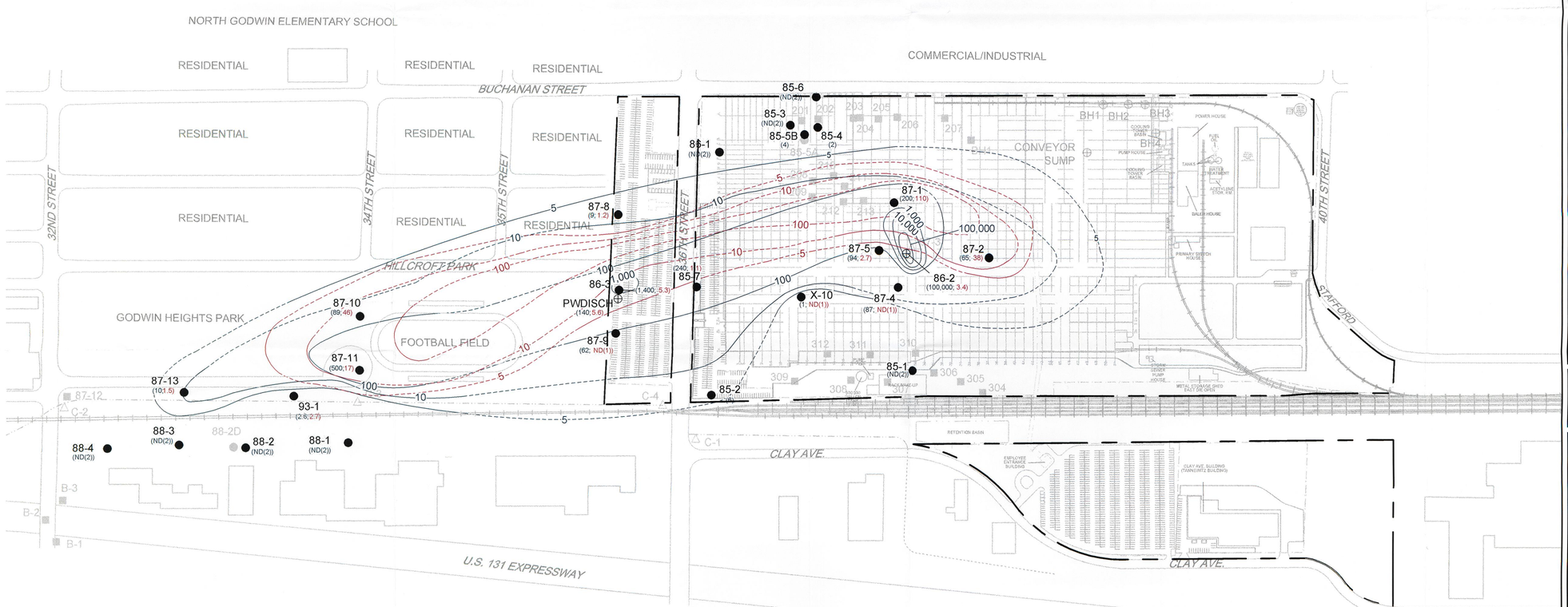
HISTORICAL CONCENTRATIONS OF CHLORINATED COMPOUNDS IN GROUNDWATER

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
G.K.	J.Q.	MAY 2002	
Scale: 1"=250'	Project No: 17360-01	Report No: BLIZ001	Drawing No: 2

17360-01(BLIZ001)GN-DE003 DEC 19/2002



NO	Revision	Date	Initial

0 150 250ft

LEGEND

- ■ 307 — SOIL BORING LOCATION
- ● X-10 — ABANDONED MONITORING WELL LOCATION
- ● 87-2 — MONITORING WELL LOCATION
- ⊕ PWDISCH — PURGE WELL LOCATION
- △ C-2 — CULVERTS USED TO MEASURE WATER LEVELS IN COLE DRAIN
- ⚠ 87-3 — AIR SPARGING WELL
- ⊕ BH1 — APPROXIMATE LOCATION OF DEWATERING WELLS
- FENCE
- RAILROAD
- COLE DRAIN
- 10 — INITIAL[TCE] SAMPLE TCE CONCENTRATIONS (ug/L) (SAMPLES COLLECTED BETWEEN 1985 AND 1993)
- 10 — DECEMBER 2001 TCE CONCENTRATIONS (ug/L)

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

GRAND RAPIDS METAL PLANT

WYOMING, MICHIGAN

HISTORICAL AND CURRENT CONCENTRATIONS OF TCE IN GROUNDWATER

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
G.K.	J.Q.	MAY 2002	
Scale: 1"=250'	Project No: 17360-01	Report No: BLIZ001	Drawing No: 3

17360-01(BLIZ001)GN-DE014 DEC 19/2002

Hydrogeologic Evaluation of An Oil Leakage

at . . .

General Motors Corporation Fisher Body Plant No. 1 Grand Rapids, Michigan

December, 1981

Environmental Data Inc.
a subsidiary of WILLIAMS & WORKS
ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS
611 CASCADE WEST PARKWAY S.E. P.O. BOX 6510, GRAND RAPIDS, MICHIGAN 49506

Inter-Organization

Environmental Activities Staff
General Motors Corporation
General Motors Technical Center
Warren, Michigan 48090

Date: August 25, 1981

Subject: Groundwater Monitoring

From: W. P. Ward Bill Ward

To: Merl Petzold - Fisher Body, Grand Rapids Metal Fab.

I have reviewed the data you provided me on 8/5/81, and have arrived at the following conclusions. As a cautionary note, soil borings give very useful information on soil characteristics, but are not designed or intended to give highly accurate data on water levels. However, general trends can usually be observed from boring information, and all my remarks are related to these trends.

I - Soil Characteristics

In general, the soils beneath your plant are medium to fine grained sands, occasionally mixed with some fine gravel. At a depth of about 40 feet (elevation of 50 to 55 feet relative to the Plant floor datum of 101 feet) is found a silty blue clay containing some sand and pebbles. Some of the deeper borings penetrate this clayey layer and indicate the presence of a water-saturated fine sand overlying another blue clay layer. This lower clay layer either lies directly on the bedrock or overlies a relatively thin sand layer which, in turn, overlies bedrock. The upper blue clay layer is assumed to be continuous beneath the plant since it is seen in borings along the west and southeast sides of the plant. However, there is a suggestion it may dip to the northwest.

The depth to bedrock varies from less than 60 to well over 100 feet (elevations +47 to -5 feet, plant datum) across the plant. There is the suggestion of a bedrock valley, or some other type of low spot, running from southeast to northwest across the plant. If a valley does in fact exist, it may affect groundwater flow patterns to some extent.

The coarse nature of soils above the clay layers indicates a high hydraulic conductivity. From the uniformity of these soils I would believe that the groundwater flow patterns are fairly consistent across the site.

II - Groundwater Flow

Based on the soil boring data, groundwater appears to be flowing basically toward the west. (See attached figures).

The slight mound near the retention basin may not be related to leakage from it, since boring 77-29 (due south of the basin) shows a

water table elevation 1 to 3 feet lower than 77-28 (southeast of the basin). If the mound at boring 77-28 was its result of basin leakage, water in both 77-28 and 77-29 should be about the same level. However, we cannot positively conclude that the basin does not leak.

Along the west side of the plant, the groundwater gradient had a distinct northward component in 1977. Although flow is basically toward the west, the 1954 borings showed a southwestward flow vector along the west side of the plant. I should note that this type of apparent flow reversed is not uncommon.

I would suspect that present flow may be radial toward the plant because of the dewatering that has occurred over the years. This means the soil beneath the plant may have water table somewhat lower than the surrounding soil, which is being maintained by pump removal of groundwater. Practically, this means anything floating on the surface (or within a few inches) beneath the plant will move preferentially toward the dewatering drains. However, the water table elevations along the north side of the plant may be close to or slightly below the elevation of the dewatering drains. Thus, groundwater could flow from under the plant toward the north, but very slowly because the hydrostatic gradient would be low.

It appears the average rate of groundwater flow at the plant is on the order of 2 to 4 feet per day, higher near the mound areas and presumably lower on the north side of the plant. Considering a general flow direction of west and north and a rate of 2 to 4 feet per day, a water particle starting at the southeast corner of the plant could take 1 to 2 1/2 years to reach the outer plant wall, at the northwest corner. This is an estimate based on the soil boring data and could be in error by as much as an order of magnitude. More precise measurements will give more accurate flow values.

III - Conclusions and Recommendations

At this time, I do not believe the soluble oil coolant has migrated any considerable distance from the leak site. However, I believe this needs to be proven. Since the primary leak source has been stopped, the forces driving the coolant toward the water table are minimal (gravity, extraneous inflow from leaky sewers, etc.). However, it is not possible to tell whether or not any coolant did reach the water table before the leak was corrected. We can assume the dewatering activities have had an effect on coolant movement, but we do not know what effect.

I believe your plant should undertake steps to determine:

1. Whether or not coolant has reached the water table.

2. The net effect of its dewatering activity.

3. Current groundwater flow regimes, since the 1977 data do not fully include current dewatering activities.

Therefore, I would recommend installing a series of observation wells around the plant site. These wells would be used to monitor water level and quality in the upper saturated zone (i.e., upper aquifer).

The upper aquifer is that zone above the blue silty clay identified in the soil borings at a depth of about 50 feet. I would suggest using fully penetrating wells (i.e., wells screened over their entire length) until enough data are developed to indicate the desirability of a different type well. Considering financial constraints, you may wish to install wells in phases. If so, I would suggest starting along the north and west sides of the plant, since groundwater flow appears to be in those directions. It would be advantageous to install a few observation wells inside the plant, beneath the floor. I would also suggest installing piezometer clusters in the southeast corner of the plant to more clearly define the groundwater mound (or hole) in that corner.

To save drilling costs, these are some recently developed techniques which can allow obtaining depth-dependent data from a single well.

If you wish to proceed with a monitoring program, I would suggest selecting a good geotechnical consultant. Then, I think we should meet to discuss the program in detail. Please call me when you are ready to proceed.

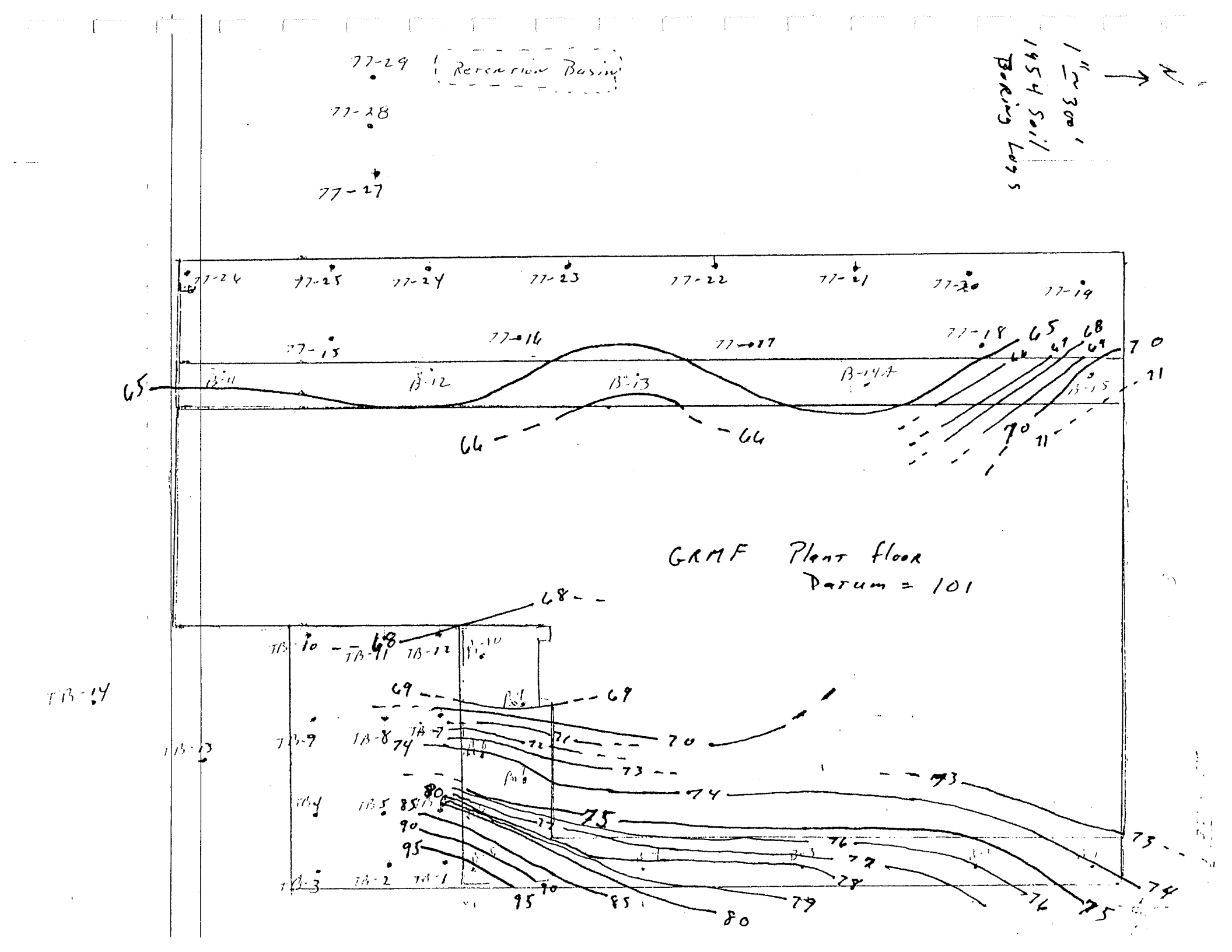
9WPW/824

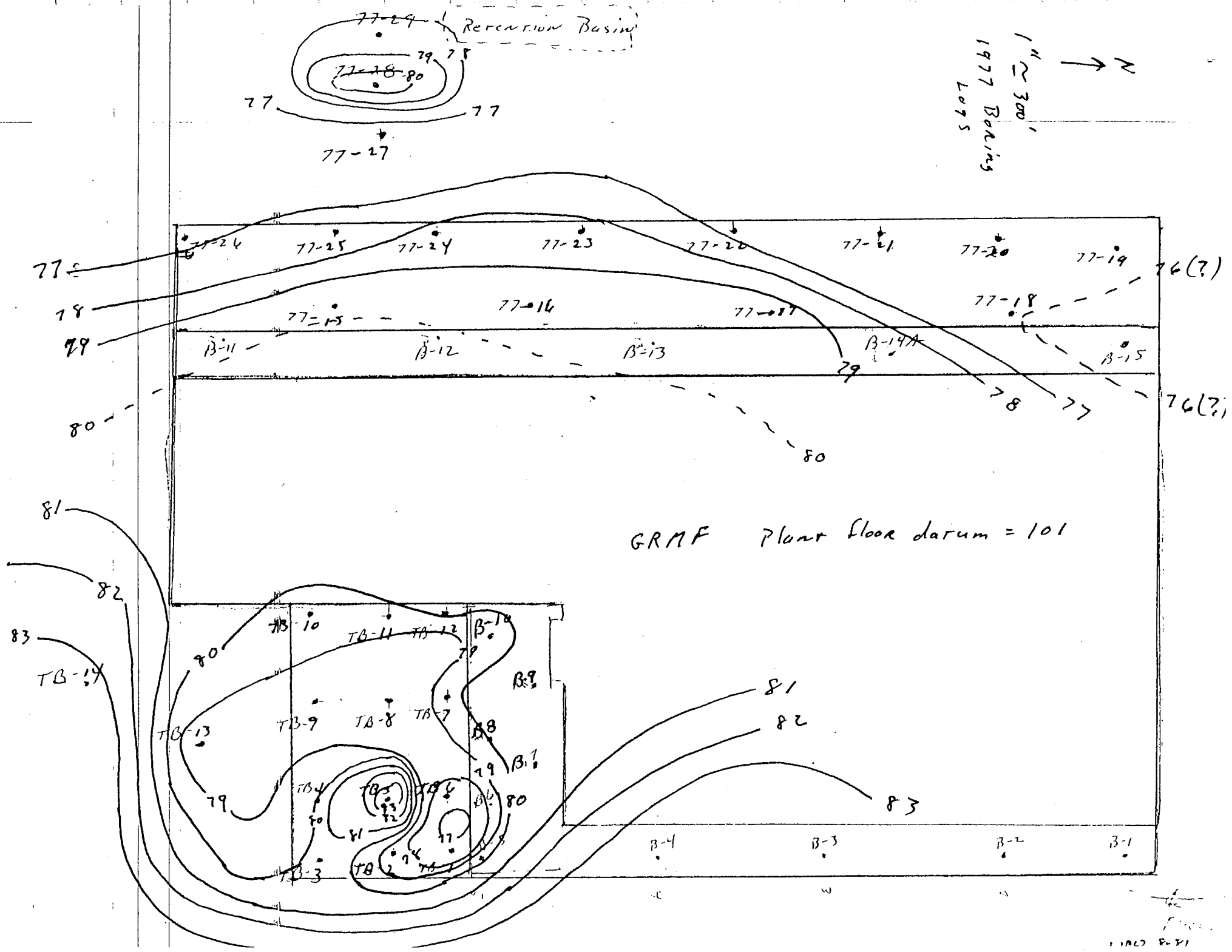
cc: J. P. Chu
E. D. Second - Fisher Body, Works Engineering

Boring# (1954 Series)	Surface* Elev.	Depth to Water	Water Level	Boring# (1977 Series)	Surface Elev.	Depth to Water	Water Level
				TB-1***	97.8	20	77.8
				TB-2	99.9	21	78.9
				TB-3	98.5	18	80.5
				TB-4	97.5	17.5	80.0
				TB-5	97.3	14	83.3
				TB-6	97.5	19.5	78.0
				TB-7	100.9	21	79.9
				TB-8	100.9	22	78.9
				TB-10	100.8	21.5	79.3
				TB-11	100.9	21	79.9
				TB-12	100.8	20	80.8
B-1**	100.4	26.42	74.	TB-13	97.4	19	78.4
B-2	100.3	21.25	76.	TB-14	97.3	14	83.3
B-3	99.03	20.67	78.36	77-15	96.9	17.0	79.9
B-4	99.5	21.42	78.1	77-16	96.4	17.0	79.4
B-5	98.06	2.5	95.5	77-17	96.5	17.0	79.5
B-6	96.66	17.0	79.7	77-18	96.0	20.0	76.0
B-7	97.36	23.0	74.4	77-19	95.5	19	76.5
B-8	98.16	24.17	73.99	77-20	95.4	19	76.4
B-9	100.57	32.0	68.6	77-21	95.2	19	76.2
B-10	100.17	32.0	68.2	77-22	94.9	18	76.9
B-11	97.34	32.5	64.8	77-23	95.2	17	78.2
B-12	96.24	32.0	64.2	77-24	94.9	NO	RECORD
B-13	96.6	30.5	66.1	77-25	95.4	18	77.4
B-14A	97.34	33.0	64.3	77-26	94.9	18	76.9
B-15	96.96	26.25	70.71	77-27	95.1	19	76.1
				77-28	94.1	13.5	80.6
				77-29	90.1	11.5	78.6

* - Elevations given Relative to Plant floor datum of 101
** - 1954 Series
*** - 1977 Series

9WPW/824
8/26/81


Retention Basin
1" = 300'
1954 Soil Boring Logs
N
GRMF Plant floor
Datum = 101


Retention Basin
77-29
77-28
77-27
79
78
80
77
1" ≈ 300'
N
1977 Borings
Logs
77-26
77-25
77-24
77-23
77-22
77-21
77-20
77-19
77-18
77-17
77-16
77-15
B-11
B-12
B-13
B-14A
B-15
76(?)
GRMF Plant floor datum = 101
81
82
83
TB-14
TB-13
TB-12
TB-11
TB-10
TB-9
TB-8
TB-7
TB-6
TB-5
TB-4
TB-3
TB-2
TB-1
B-9
B-8
B-7
B-6
B-5
B-4
B-3
B-2
B-1

INTER-ORGANIZATION LETTER

FISHER BODY DIVISION

GENERAL MOTORS CORPORATION

Grand Rapids Metal Fab. Plt.

PLANT

SUBJECT Potential Ground-Water Contamination from HS-5 Floor-Lube leak. **DATE** Aug. 31, 1981

FROM M. Petzold

TO H. W. Kruse, O. Heyboer, J. Brandt, file.

After analyzing the data from the Aug. 5, 1981 plant visit, GM Environmental Activities has recommended that this plant proceed with obtaining a consultant to assure that any problem is contained, and provide technical assistance if monitor wells are required. (See attachment from EAS dtd. 8-25-81 from W. Ward)

Environmental Data Inc. (Williams & Works) will be contacted to initially assess the situation, provide a plan of attack, and give cost estimates.

M. Petzold
Chief Engr., Energy & Environment

MP:ww

ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS•611 CASCADE W. PKWY., S.E., P.O. BOX 6510, GRAND RAPIDS, MI 49506•PH: (616) 942-0970/942-9600

Environmental Data Inc.

a subsidiary of WILLIAMS & WORKS

October 20, 1982

Mr. Merl Petzold
GMC - Fisher Body Plant #1
300 36th Street S.E.
Wyoming, Michigan 49508

Dear Merl:

As per our telephone conversation, the following describes the work you requested along with a not-to-exceed price quotation.

We will sample the monitor well adjacent to the HS-5 press and analyze the sample for oils and breakdown products that may occur in a soil environment. The analysis will be a scan for methylene chloride extractable acidic and neutral compounds which will be done with a gas chromatograph/mass spectometer. The results will be presented to you along with a brief letter report on their significance.

We will do this work for the not-to-exceed price of $500. The actual cost will depend on the time needed to collect the sample and evaluate the results. Your authorization can be given by a purchase order referencing this letter.

Thank you for the opportunity to provide this service.

Sincerely yours,

ENVIRONMENTAL DATA, INC.

Dennis J. Gebben, Vice President
Manager of Geological Services

/sv

FISHER BODY
PURCHASE REQUISITION

CISCO NO. 20024
Grand Rapids
PLANT Metal Fabrication

P.O. NO.

REQUISITION NO. 166897

PAGE 166897 OF

REQUISITION DATE 9/19/81 BUYER NAME & NO.

REQUESTED BY	LOCATION	PHONE NO.	DELIVER TO ATTN. DEPT./ROOM
K. Petzold	P/House	5/470	

DATE REQUIRED	PREVIOUS P.O. NO.	COST ESTIMATE	DUNS NO./VENDOR CODE
9/28/81			

SUGGESTED SUPPLIER
Envir. Data Inc.
(Subsidiary of Wms. & Works.)

SELECTED SUPPLIER

SHIP TO: Fisher Body - Grand Rapids
Metal Fabrication Plant
General Motors Corporation
300 - 36th Street S.W.
Wyoming, Michigan

CODE: *GR1

BILL TO: Fisher Body - Grand Rapids
Metal Fabrication Plant
General Motors Corporation
300 - 36th Street S.W.
Grand Rapids, Michigan 49508

CODE: #112

TERMS: ☐ 25th PROX. ☐ 10th & 25th PROX. ☐ OTHER

CONFIRMING PHONE

DELIVERY PROMISE DATE

F.O.B.: ☐ DELVD. ☐ SHIPPING PT.

ACK. REQUIRED ☐ YES ☐ NO

INQUIRY NO.

PROJECT NO./ITEM NO.

SHIP VIA: ☐ TRUCK ☐ VENDOR ☐ PICKUP ☐ RAIL ☐ P.P. ☐ UPS ☐ AIR

APPROPRIATION/ACCOUNT CLASSIFICATION

LINE SEQ.	QUANTITY ORDERED	G.M. IDENTIFICATION NO.	DESCRIPTION	TAX CODE	UNIT PRICE	UNIT MEASURE
			For providing a Hydrogeologic evaluation of oil leakage @ HS-5 press per EDI proposal. Dated 9/16/81 Phase 1. (Phase 2 & 3 not required unless ground-water has been contaminated)			
			14MS-0A577-C1			

REMARKS/PURPOSE

For compliance with environmental regulations.

CISCO APPROVAL STAMP

AUTHORIZED APPROVALS AND DATE

BUYER SIGNATURE/PURCHASING DEPT. DATE

HAZARDOUS MATERIAL APPROVAL

REQ. NO. 166897

SEE REVERSE SIDE FOR TAX CODES AND DOCUMENTATION

6043 1-80

4—MATERIAL CONTROL DEPT.—PLANT

ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS•611 CASCADE W. PKWY., S.E., P.O. BOX 6510, GRAND RAPIDS, MI 49506•PH: (616) 942-0970/942-9600

Environmental Data Inc.

a subsidiary of WILLIAMS & WORKS

November 30, 1981

Mr. Merl Petzold
GMC Fisher Body Plant #1
300 - 36th Street, S.E.
Wyoming, Michigan 49508

Dear Mr. Petzold:

RE: RESULTS OF PHASE I HYDROGEOLOGIC EVALUATION OF OIL LEAK FROM HS-5 PRESS

This letter report presents the findings, conclusions, and recommendations of our hydrogeologic investigation of the oil leak from your HS-5 press.

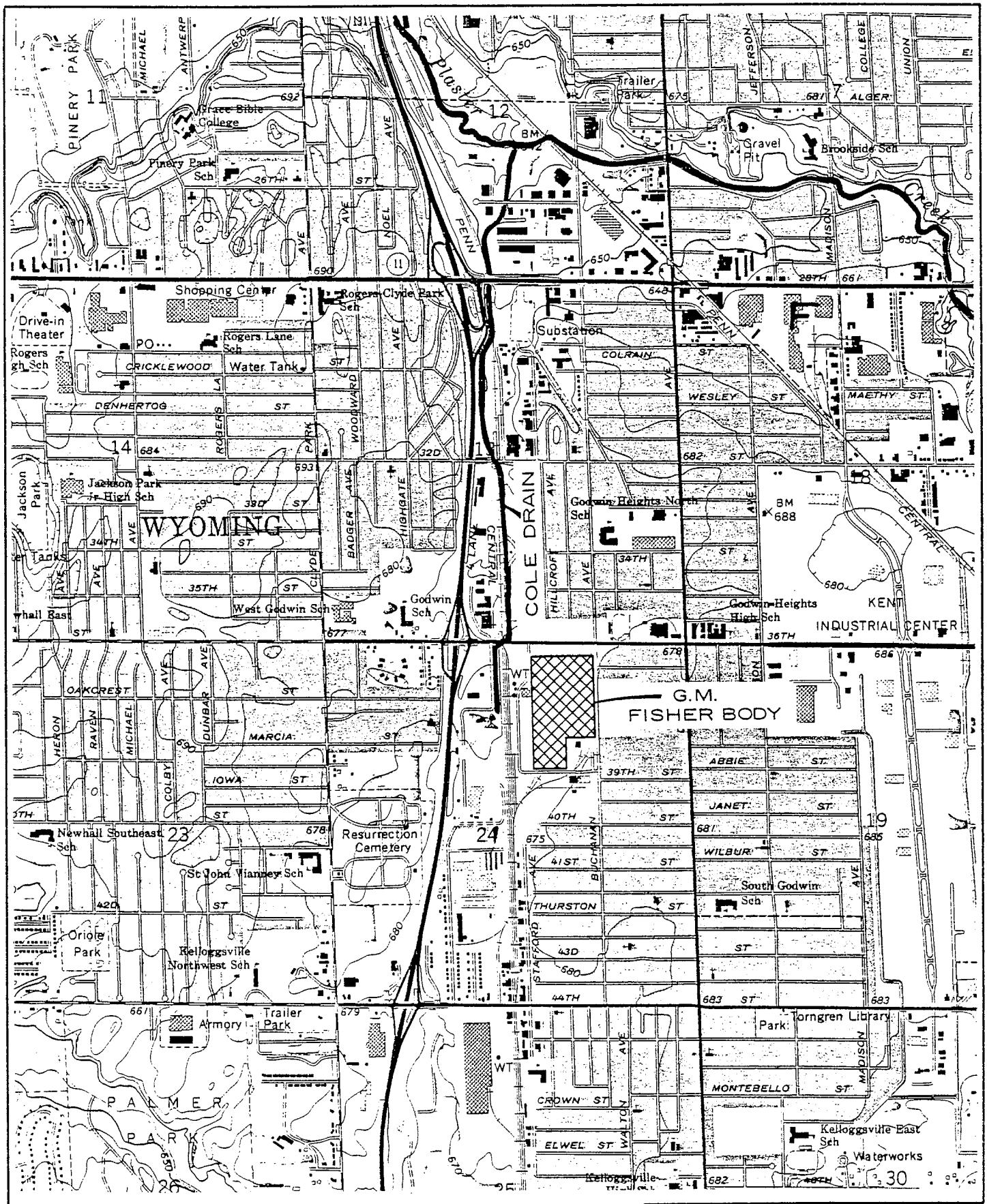
BACKGROUND

Fisher Body Plant #1 is located in Wyoming, Michigan. Its location and surrounding topography are shown on Figure 1.

The problem addressed in this report originated with oil leakage from a press designated HS-5. The oil is water-soluble and is mixed with water at a 1 to 10 dilution before use. A leak in the sump pan in 1979 resulted in an estimated loss of 5,500 gallons of the diluted oil, which seeped into underlying sandy soils. Some of this oil migrated laterally in the soil and appeared as oil seepage through cracks in the concrete wall of a large press pit located approximately 30 feet from the HS-5 press. This seepage stopped after repairs were made to the sump pan.

In June, 1981, seepage from the wall of the press pit began again. It was found that the angle iron containment outside the sump pan was leaking, allowing the oil to escape over the concrete floor to cracks in the floor and into the underlying sand.

To determine how far the oil had penetrated the sand, a section of floor was removed and the soils examined by plant engineering staff. It was found that the sand directly beneath the floor was blackened. Within 1.5 feet of depth, the sand was a natural color. However, samples were taken down to 5 feet and a distinctive odor persisted, indicating the oils had penetrated deep into the soils and may have reached the water table (approximately 20 feet down).



GM - FISHER BODY

Figure 1

LOCATION MAP

0 1000 2000 FEET

NOV., 1981

20127

ENVIRONMENTAL DATA, INC.

After a review of the situation by Mr. Bill Ward, a GM staff geologist, it was decided that a hydrogeologic investigation should be done to assess the possibility and implications of groundwater contamination. A proposal was requested from EDI to do this work.

EDI proposed a three-phase investigation in which the latter two phases would only be done if the severity of the problems necessitated it. The scopes of the three phases were:

Phase I: Determine the severity of the groundwater impact in the area of the HS-5 press. If the oil has reached the groundwater and its chemical constituents pose a threat to groundwater quality, proceed with Phase II.

Phase II: Determine the direction(s) of groundwater flow and whether or not the drainage system beneath the plant is intercepting all contaminated groundwater. If all the contaminated groundwater is not intercepted by the plant's drainage system, proceed with Phase III.

Phase III: Determine the full extent of contamination, the area of groundwater discharge, and the impact on downgradient water uses. If necessary, recommend remedial cleanup and monitoring efforts.

EDI was authorized to proceed with Phase I on September 23, 1981. This report presents the results of that phase.

GENERAL HYDROGEOLOGY OF PLANT SITE

The plant is located on sandy soil adjacent to Cole Drain. This drain lies in a slight valley and flows northward to Plaster Creek.

Foundation borings for the plant were reviewed by Mr. Ward, and his summary of the soils characteristics indicate that the sandy soils beneath the plant are about 40 feet deep. Beneath the sand is a silty blue clay layer which seems to be the top of a stratified section of interbedded sands and clay that overlay the irregular surface of the bedrock. The depth to bedrock beneath the plant varies from less than 60 to over 120 feet, suggesting perhaps a bedrock valley that may coincide with the present valley of Cole Drain. The bedrock formation directly below the glacial sediments is the Michigan formation, which in this area is a fresh water aquifer. Wells belonging to the City of Wyoming tap this formation and are located to the west directly across Cole Drain.

The upper sandy soils contain a water table aquifer with a static water level of about 21 feet below the plant floor. It is expected that the direction of groundwater flow in this aquifer is westward toward Cole Drain, which is probably a discharge boundary.

This upper aquifer is the only aquifer that would be affected if contaminants from the oil leakage reached the groundwater. Given the location of the plant relative to Cole Drain, water in this upper aquifer only flows under GM property before reaching Cole Drain. Therefore, contamination would not affect downgradient users.

PHASE I WORK

Work done in the Phase I portion consists of:

1. An evaluation of the toxicity and degradability of the oil based on information from the manufacturer and reference literature; and a phenolic analytical scan to determine the presence of any phenolic-based bactericides which may have been added to control odor.

2. A soil core was collected from the unsaturated soils above the water table, and samples taken at 2-foot depth intervals were analyzed for grease and oil and chlorinated paraffin.

3. A temporary monitoring well was installed and four water samples were collected at various depth intervals beginning at the water table. These samples were analyzed for grease and oil, total organic carbon, and chlorinated paraffin.

PHASE I FINDINGS

Evaluation of Oil

The oil used in the HS-5 press is named Tuf-Draw D-S Compound 21305 and is supplied by the Franklin Oil Company. Their material safety data sheet states that the ingredients are:

Liquified Paraffin Wax	60%
Oil Soluble Petroleum Sulfonate	15%
Lard Oil	2%
Ethoxylated Alcohols	1%
Tri-ethanolamine	2%
Chlorinated Paraffin	20%
	100%

Of these ingredients, chlorinated paraffin poses the greatest threat to groundwater contamination. This chemical belongs to a group called aliphatic chlorinated hydrocarbons, which are suspected carcinogens of the liver, lungs, skin, and blood-forming tissue.[1] Because of this potential health threat, chlorinated paraffin was singled out for separate analyses in all of the water and soil samples.

---

[1] Sax, N. Irving, 2979. Dangerous Properties of Industrial Materials, p. 484, Fifth Edition, VanNostrand, Reinhold Company.

We also contacted Franklin Oil Company for more information on the chlorinated paraffin. They informed us that the chlorinated paraffin is supplied by Keil Chemical Company from Hammond, Indiana. A material safety data sheet was obtained from Keil Chemical Company; however, it is not responsive in identifying the ingredients of their product (CW 85-60). The material safety data sheets from Franklin Oil Company and Keil Chemical Company are attached.

All of the ingredients in the oil are subject to biological decomposition and can be changed to inorganics CO_2, H_2O, NO_3 and Cl^- by naturally occurring micro-organisms given an oxygenated environment and sufficient acclimation time. This includes the chlorinated paraffin. However, the rate at which chlorinated paraffin will be metabolized by soil microflora will generally be slower than for non-chlorinated analogues. In the lack of oxygen, anaerobic fermentation will take place producing organic acids and their analogues, many of which are highly odorous.

The potential for microbial degradation of the oil leads us to consider the possibility of biostatic and bactericidal compounds being included in the formulaton of the oil. Commonly, the most often used groups of chemicals for this purpose are the phenol and substituted-phenol family. We reviewed this group of chemicals in a composite soil sample, using gas chromatography/mass spectrometry and obtained negative results. This is a significant finding, since the presence of these compounds would have indicated the existence of a substantial environmental problem involving toxic and potential carcinogenic compounds.

Soil and Water Analyses

A boring was drilled and a monitoring well installed near the HS-5 press to collect soil samples from the unsaturated zone and water samples from the water table aquifer. The boring was drilled to the clay layer which underlies the aquifer at 45 feet (boring log attached). Eleven soil samples and four water samples were collected and analyzed. Table I gives the results.

The analyses indicate that chlorinated paraffin is present in all the unsaturated soils down to the water table. The highest concentrations were found in the upper 6 feet where concentrations measured 4300 to 6400 mg/kg. Below 6 feet, the concentrations drop off rapidly; and from 18 to 22 feet, concentrations of chlorinated paraffin are only about 4 mg/kg. A similar trend of decreasing concentrations with depth was found in grease and oil analyses of the soils. The grease and oil analyses not only detected the chlorinated paraffin but also other components of the oil, which is the reason the concentrations are higher than for the chlorinated paraffin.

In the water samples, chlorinated paraffin was not detected in four samples collected at intervals beginning at the water table (21 feet) and ending at the bottom of the aquifer (45 feet). The detection limit was 0.2 mg/l. Grease and oil were found at low levels of 0.4 to 20 mg/l, and total organic carbon (TOC) was not detectable except for 8.0 mg/l in the sample from the bottom of the aquifer. These analyses indicate that, although chlorinated paraffins are not

TABLE I: RESULTS OF SOIL & WATER ANALYSES

	SOIL SAMPLES (in mg/kg)											
	0.7'-2'	2'-4'	4'-6'	6'-8'	8'-10'	10'-12'	12'-14'	14'-16'	16'-18'	18'-20'	20'-22'	Detection Limit
Chlorinated Paraffin	5,600	6,400	4,300	790	140	6.0	5.5	28	33	4.4	4.1	2.6
Grease & Oil (Soxhlet Extract)	9,900	21,500	11,500	2,060	600	140	260	170	350	200	160	10.0

	WATER SAMPLES (in mg/l)				
	21' - 24'	25.5' - 28.5'	30.5' - 32.5'	40.5' - 43.5'	Detection Limit
Chlorinated Paraffin	<0.2	<0.2	<0.2	<0.2	0.2
Grease & Oil (Freon Extract)	0.4	0.8	0.8	20*	0.2
Total Organic Carbon	<5.0	<5.0	<5.0	8.0	5.0

*Analysis done twice with same result.

in the groundwater in measureable concentrations (0.2 mg/l), other components of the oil may be in the groundwater at concentrations which can be detected by the grease and oil analyses.

The sample from the 40.5 to 43.5 depth shows 20 mg/l of grease and oil and 8.0 mg/l of TOC. This is greater than concentrations found in the other water samples. It is not known whether this increase is significant, because 1) we have not determined whether this result is repeatable on a new sample; and 2) assuming it were repeatable, we do not know the chemical species causing it.

CONCLUSIONS

Our conclusions to this Phase I study are as follows:

1. With the exception of chlorinated paraffin, all of the ingredients of the oil used in the HS-5 press are considered non-toxic. All of the ingredients, including the chlorinated paraffin, are bio-degradable and, with time, will be mineralized by soil microflora. A detailed description of the chlorinated paraffin supplied by Keil Chemical Company could not be obtained. Therefore, there remains some question over what may be included in this formulation.

2. The oil has penetrated the unsaturated soils all the way to the water table. The highest concentrations of the oil are in the uppermost 6 feet of soil. Because there is no precipitation to drive this oil to the water table and since the leakage has been stopped, we do not believe the oil remaining in the unsaturated soil poses a threat of groundwater contamination. Given time, the oil will degrade to inorganic byproducts; however, in the lack of oxygen the process could take decades to complete.

3. The analyses of water samples indicates that the oil has not made a substantial quality impact on the groundwater. Chlorinated paraffin was not detected in the groundwater supplies and grease and oil and TOC were found only at low concentrations. The one unexplained anomaly is the 20 mg/l of grease and oil and 8.0 mg/l of TOC found in the deep sample from 40.5 to 43.5 feet. Whether or not this is significant can only be determined by collecting and analyzing another sample to see if the earlier results are repeatable.

RECOMMENDATIONS

We believe the results of Phase I indicate there is no substantial impact on groundwater quality. Therefore, we feel that future phases, as outlined in our proposal, are not necessary.

However, one item of work does remain. We recommend that another sample be collected from the monitor well (the screen is at the 43 foot depth) and analyzed for grease and oil and TOC. If the results are the same as before, we recommend that a priority pollutant scan be done to determine whether priority pollutants are present. The cost for us to do this work would be approximately $1,000 (includes the priority pollutant scan).

We also recommend that the monitor well be left in place with the screen set two feet below the water table. A sample could then be collected a year from now to determine if products of anaerobic fermentation are impacting groundwater quality.

Because Keil Chemical Company is an indirect supplier to you, it might be possible for you to get a more responsive statement from them on the ingredients of their CW-85-60 product. This would more accurately complete the assessment of hazard posed by the chlorinated paraffin.

We are grateful for the opportunity to do this work and look forward to a continuing association with your organization. If you have any questions, feel free to call us.

Sincerely yours,

EDI

Dennis J. Gebben
Manager of Geologic Services

DJG/n

ATTACHMENTS

Sheet 1 of _____

WILLIAMS & WORKS

Engineers/Surveyors/Planners/Geologists
611 Cascade West Parkway
Grand Rapids, Michigan 49506

Client GMC Fisher Body

Project No. 20127

Date 10/5/81

Permit No. _____

Project General Motors Fisher Body

Location Grand Rapids Plant #1

Equipment CME 45C

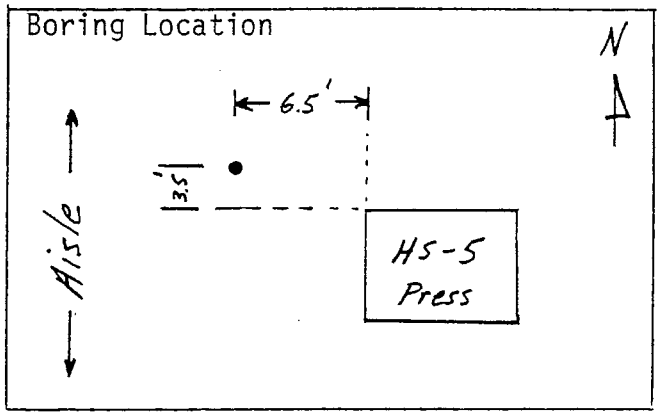
Technician Gale Scholten

BORING NO. 1

Surface Elev. _____

Hole Plugged With Natural Solids and Bentonite

Boring Location



Boring Depth			No. Blows last 12"	No. Blows 3rd 6"	No. Blows 2nd 6"	No. Blows 1st 6"	Depth of Test
From	To						
0.0	0.2	Asphalt Block Floor					0 PUSHED
0.2	0.7	Concrete Floor					2 PUSHED
0.7	8.0	Sand - Fine to Medium; Few Stones; Oily	3	3	4	4	
		Binder	4	4	4	3	
8.0	10.0	Sand - Fine, Tan	7	1	4	2	
10.0	15.0	Sand - Tan and Fine Gravel	9	9	12	14	
15.0	16.5	Sand - Fine, Tan	9	8	7	9	
16.5	22.0	Sand - Medium and Fine Gravel	8	7	16	24	
22.0	30.0	Sand and Gravel	25	26	34	37	
30.0	45.0	Sand and Gravel w/Lenses of Gray Clay	15	18	23	29	
		NOTE: A 2½" thick X 18" X 18" Steel Plate was placed over	12	12	19	20	
		the well.					

Groundwater:

Encountered at 21 ft.

After Completion 20.95 ft.

After _____ Hrs. _____ ft.

Boring Cave In _____ ft.

Well Data:

Casing Used: Type Galvanized

Diameter 2"

Length 41

Screen Size 2" X 42" X 7 Slot

Ht. Below Ground 0.3'

GENERAL MOTORS CORPORATION
MATERIAL SAFETY DATA SHEET

Flood lube
HS4-5

SECTION I

PRODUCT NAME OR NUMBER
TUF-DRAW D-S COMPOUND 21305 (93C95042801)

MANUFACTURER'S NAME
FRANKLIN OIL CORPORATION

EMERGENCY TELEPHONE NO.
216/232-3000

ADDRESS (Number, Street, City, State and Zip Code)
P.O. BOX 46030, FRANKLIN PARK, CLEVELAND, OHIO 44146

HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME(49 CFR 172.101)

HAZARD CLASS (49 CFR 172.101)

CHEMICAL FAMILY
PETROLEUM HYDROCARBONS

FORMULA
SEE SECTION II

SECTION II — INGREDIENTS (list all ingredients)

	C.A.S. NO	%
LIQUIDFIED PARAFFIN WAX	8012-95-1	60
OIL SOLUBLE PETROLEUM SULFONATE	61789-85-3	15
LARD OIL	8002-50-4	2
ETHOXYLATED ALCHOLS	26027-38-3	1
TRIETHANOLAMINE	102-71-6	2
CHLORINATED PARAFFIN	8029-39-8	20 LBS

☐ SECTION III — PHYSICAL DATA

BOILING POINT (°F) (°C)	N/A	SPECIFIC GRAVITY (H_2O=1)	1.00		
VAPOR PRESSURE (mm Hg)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A		
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (=1)	N/A		
SOLUBILITY IN WATER	DISPERSABLE	pH= 10-1	8.8		

APPEARANCE AND ODOR: CLEAR AMBER OIL, BLAND ODOR

IS MATERIAL: LIQUID SOLID GAS PASTE POWDER

☐ SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) 340° F. (COC)	FLAMMABLE LIMITS	LEL	UEL

EXTINGUISHING MEDIA: FOAM, CO_2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: FIGHT AS A CLASS B FIRE

UNUSUAL FIRE AND EXPLOSION HAZARDS

☐ SECTION V-HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

THRESHOLD LIMIT VALUE (OF MIXTURE)

EMERGENCY AND FIRST AID PROCEDURES
IF SWALLOWED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN. EYE CONTACT, FLUSH WITH WATER, CALL A PHYSICIAN, WASH OFF SKIN WITH SOAP AND WATER.

ABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (materials to avoid)	STRONG OXIDIZING AGENTS		
HAZARDOUS DECOMPOSITION PRODUCTS:	UPON COMBUSTION - CO, CO_2, Cl_2		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

☐ SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
CLEAN UP WITH OIL ABSORBENT MATERIAL
WASTE DISPOSAL METHOD
DISPOSE OF IN AUTHORIZED LANDFILL

☐ SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		
VENTILATION	LOCAL EXHAUST (Specify Rate)	SPECIAL
	MECHANICAL (General) (Specify Rate)	OTHER
PROTECTIVE GLOVES: NEOPRENE	EYE PROTECTION: SAFETY GLASSES OR GOGGLES	
OTHER PROTECTIVE EQUIPMENT		

☐ SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: IF FROZEN, ALLOW TO COME TO ROOM TEMPERATURE
BEFORE USING.
OTHER PRECAUTIONS

Seller agrees not to assert any claim (other than a claim for a patent infringement) against General Motors Corporation for any use or disclosure of any technical data or information disclosed in connection with this questionnaire.

PLEASE COMPLETE QUESTIONNAIRE AND RETURN TO	Name (print)	R. E. KLOTZ
	Signature	R. E. Klotz
	Title	TECHNICAL DIRECTOR
	Date	10/15/79

LOCATION CISCO CODE ☐☐☐☐

FOR GM USE ONLY

GM IDENTIFICATION CODES USED AT THIS LOCATION:

GM--	105	998

IS THIS SUBSTANCE CRITICAL TO CURRENT PRODUCTION? ☐ YES ☐ NO

IS THIS SUBSTANCE CRITICAL TO FUTURE PRODUCTION? ☐ YES ☐ NO

CLASSIFICATION OF USE:

☐ SOLVENT	☐ FLUX	☐ ABSORBANT	☐ INSULATOR	☐
☐ COATING	☐ FUEL	☐ ABRASIVE	☐ LUBRICANT	☐
☐ DEODORANT	☐ INSECTICIDE	☐ ADHESIVE	☐ POLISH	☐
☐ DISINFECTANT	☐ COOLANT	☐ CLEANER	☐ FILLER	☐

KEIL CHEMICAL DIVISION FERRO

3000 Sheffield Avenue Hammond, Indiana 46320 219-931-2630 312-731-5400 Telex 725484 (Ansbk: Keil Hmd)

MODIFIED CHLORINATED PARAFFINS

TYPICAL PROPERTIES	CW 35	CW 85-60	CW 200-70
% CHLORINE	40	60	70
VISCOSITY @ 100° F (SUS)	120	5000	70,000
@ 210° F (SUS)	35	85	200
COLOR ASTM	1	1	1
SPECIFIC GRAVITY @ 60° F	1.14	1.38	1.46
LBS./GAL.	9.5	11.6	12.21
MOLECULAR WEIGHT	310	405	540
STABILITY (HCL LOSS % 4 HRS. @ 347° F)	0.1	0.1	0.1

ADVANTAGES: THESE PRODUCTS OFFER EXTREMELY GOOD STABILITY AND VERY GOOD RESISTANCE TO THERMAL DECOMPOSITION. RESISTANCE TO HYDROLYSIS IN THE PRESENCE OF WATER IS MUCH BETTER THAN NORMAL CHLORINATED PARAFFINS. IF OIL SOLUBILITY OR CORROSION IS A PROBLEM WITH CONVENTIONAL CHLORINATED PARAFFINS, IT IS ADVISABLE TO USE ONE OF THE ABOVE PRODUCTS.

USES: METALWORKING COMPOUNDS - CHLORINATED PARAFFINS ARE VERY EFFECTIVE EXTREME PRESSURE ADDITIVES FOR SOLUBLE OILS, CUTTING OILS, AND CERTAIN DRAWING COMPOUNDS.

PLASTICIZERS - THESE PRODUCTS CAN BE USED TO PLASTICIZE RUBBERS, VINYLS, RESINS, ADHESIVES AND CAULKING COMPOUNDS.

(OVER)

Information on this data sheet is presented to assist you in evaluating our product. It is intended for use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results, and we assume no liability in connection with its use. This information is not intended as a license to operate under, or a recommendation to infringe, any patent covering any material or use.

Form Approved
Budget Bureau No. 44-R1387
Approval Expires April 30, 1971

Form No. 1 SB-005-4
May 1969

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: KEIL CHEMICAL DIVISION OF FERRO CORPORATION	EMERGENCY TELEPHONE NO.: 219/931-2630
ADDRESS (Number, Street, City, State, and ZIP Code): 3000 SHEFFIELD AVENUE, HAMMOND, IN 46320	
CHEMICAL NAME AND SYNONYMS: ---	TRADE NAME AND SYNONYMS: CW-85-50
CHEMICAL FAMILY: CHLORINATED PARAFFINS	FORMULA: $C_n H_{(2n+2-x)} Cl_x$

SECTION II - HAZARDOUS INGREDIENTS

DOES NOT APPLY

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	>550	SPECIFIC GRAVITY (H_2O=1)	1.38
VAPOR PRESSURE (mm Hg.)	<0.1	PERCENT VOLATILE BY VOLUME (%)	nil
VAPOR DENSITY (AIR=1)	---	EVAPORATION RATE (_____=1)	---
SOLUBILITY IN WATER	insoluble		
APPEARANCE AND ODOR	SLIGHTLY YELLOW VISCOUS LIQUID		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): NONE (DECOMPOSES @ 450° F)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA: CARBON DIOXIDE			
SPECIAL FIRE FIGHTING PROCEDURES: NONE			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
NOT KNOWN

EFFECTS OF OVEREXPOSURE
NOT KNOWN; SIMILAR TO OTHER CHLORINATED PARAFFINS WHICH HAVE A LONG HISTORY OF INDUSTRIAL MANUFACTURE AND USE WITHOUT INCIDENT OF HAZARD TO WORKERS.

EMERGENCY AND FIRST AID PROCEDURES
WASH SKIN WITH LARGE AMOUNTS OF SOAP AND WATER. FLUSH REPEATEDLY. WASH ALL CONTAMINATED CLOTHING BEFORE RE-USE. FOR EYES, IF IRRITATED OR IF IRRITATION PERSISTS, SEE A PHYSICIAN.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY (Materials to avoid)
STRONG OXIDIZING AND REDUCING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS
HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
ABSORB ON INERT MATERIAL.

THIS MATERIAL IS NOT DEFINED AS A HAZARDOUS SUBSTANCE BY 40 CFR PART 117.

WASTE DISPOSAL METHOD
PACKAGE IN EPA APPROVED MANNER AND TRANSPORT TO AN EPA APPROVED TSD FACILITY

TSD = TREATMENT, STORAGE, AND DISPOSAL

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
NO SPECIAL PRECAUTIONS REQUIRED

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: SAFETY GLASSES OR GOGGLES

OTHER PROTECTIVE EQUIPMENT: APRON

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
AVOID CONTACT WITH OPEN FLAME AND STRONG OXIDIZING AND REDUCING AGENTS.

OTHER PRECAUTIONS
STORE IN DRY PLACE; 40-100 DEG. F PREFERRED.

ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS•611 CASCADE W. PKWY., S.E., P.O. BOX 6510, GRAND RAPIDS, MI 49506•PH: (616) 942-0970/942-9600

Environmental Data Inc.

a subsidiary of WILLIAMS & WORKS

December 23, 1982

Mr. Merl Petzold
GMC Fisher Body Plant #1
300 36th Street, S.E.
Wyoming, Michigan 49508

Dear Merl:

Attached are the results of the analysis of the water sample collected from the monitor well next to the HS-5 press on November 9, 1982. This sample was analyzed for the base-neutral and acid fractions of the USEPA Priority Pollutants and nothing was detected.

Based on these results we see no need to continue sampling this well, and recommend that you remove it unless, for reasons unrelated to the oil leak incident, you see a future need to investigate groundwater conditions beneath the plant site.

Sincerely yours,

ENVIRONMENTAL DATA, INC.

Dennis

Dennis J. Gebben, Vice President
Manager of Geological Services

Attachments

/sv

FLAME RETARDANTS - GIVE FLAME RETARDANCY TO PAINTS, FABRICS AND PLASTICS. CHLORINATED PARAFFINS WORK SYNERGISTICALLY WITH ANTIMONY AND PHOSPHOROUS COMPOUNDS IN THIS APPLICATION.

Environmental Data Inc.
ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS
611 CASCADE WEST PARKWAY, S.E., P.O. BOX 6510, GRAND RAPIDS, MICHIGAN 49506

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

TABLE 2
BASE-NEUTRAL FRACTION

PROJECT: GMC FISHER BODY PLT #1 DATE SAMPLED: 11/9/82 TIME: 10:30am
PROJECT No.: 20051 DATE RECEIVED: 11/9/82 TIME: 2:00am
SAMPLING LOCATION: _____ DATE COMPLETED: _____

COMMENTS: NO PEAKS DETECTED.

SAMPLE: | SAMPLE No. 27076

COMPOUND	RESULTS (mg/l)	DETECTION LIMIT	COMPOUND	RESULTS (mg/l)	DETECTION LIMIT
Hexachloroethane	*	0.010	Benzidine	*	0.010
Hexachlorobutadiene	*	0.010	Pyrene	*	0.010
1,2,4-Trichlorobenzene	*	0.010	Fluoranthene	*	0.010
Naphthalene	*	0.010	Chrysene	*	0.010
Hexachlorocyclopentadiene	*	0.010	Bis-(2-ethyl hexyl) phthalate	*	0.010
Nitrobenzene	*	0.010	Benzo (a) anthracene	*	0.010
2-Chloronaphthalene	*	0.010	Benzo (k) fluoranthene	*	0.010
Acenaphthene	*	0.010	Benzo (a) pyrene	*	0.010
Isophorone	*	0.010	Indeno (1,2,3-cd) pyrene	*	0.010
Fluorene	*	0.010	Dibenzo (a,h) anthracene	*	0.010
2,4-Dinitrotoluene	*	0.010	Benzo (g,h,i) perylene	*	0.010
1,2-Diphenylhydrazine	*	0.010	3,3'-Dichlorobenzidine	*	0.010
2,6-Dinitrotoluene	*	0.010	Tetrachlorodibenzo-p-dioxin	*	0.010
N-Nitrosodiphenylamine	*	0.010	N-Nitroso-n-propylamine	*	0.010
Hexachlorobenzene	*	0.010	Acenaphthylene	*	0.010
4-Bromophenyl phenyl ether	*	0.010	Bis(2-chloroisopropyl) ether	*	0.010
4-Chlorophenyl phenyl ether	*	0.010	Bis (2-chloroexthoxy) methane	*	0.010
Anthracene	*	0.010	1,2-dichlorobenzene	*	0.010
Phenanthrene	*	0.010	1,3-dichlorobenzene	*	0.010
Dimethyl phthalate	*	0.010	1,4-dichlorobenzene	*	0.010
Bis-(2-chloroethyl) ether	*	0.010	N-Nitrosodimethylamine	*	0.010
Di-n-butyl phthalate	*	0.010	Bis-(chloromethyl) ether	*	0.010
Diethyl phthalate	*	0.010	Di-n-octylphthalate	*	0.010
Butyl benzyl phthalate	*	0.010			

* COMPOUND NOT PRESENT AT DETECTION LIMIT

Environmental Data Inc.
ENVIRONMENTAL SCIENTISTS/ENGINEERS/GEOLOGISTS/CHEMISTS
611 CASCADE WEST PARKWAY, S.E., P.O. BOX 6510, GRAND RAPIDS, MICHIGAN 49506

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

TABLE 3
ACID FRACTION

PROJECT: GMC Fisher Body Plant #1 DATE SAMPLED: 11/9/82 TIME: 10:30am

PROJECT No.: 20051 DATE RECEIVED: 11/9/82 TIME: 2:00pm

SAMPLING LOCATION: _____ DATE COMPLETED: _____

COMMENTS: NO PEAKS DETECTED.

SAMPLE:

SAMPLE No. 27076

COMPOUND	RESULTS (mg/l)	DETECTION LIMIT
2-Chlorophenol	*	0.010
Phenol	*	0.010
2,4-Dichlorophenol	*	0.010
2-Nitrophenol	*	0.010
4-Chloro-3-methylphenol	*	0.010
2,4,6-Trichlorophenol	*	0.010
2,4-Dimethylphenol	*	0.010
2-Methyl-4,6-Dinitrophenol	*	0.010
4-Nitrophenol	*	0.010
Pentachlorophenol	*	0.010
2,4-Dinitrophenol	*	0.010

*COMPOUND NOT PRESENT AT DETECTION LIMIT

February 23, 1998

RECEIVED ERD-G. R.

MAR - 2 1998

FILE General Motors GPC Plant
CO. Kent
SUBFILE Correspondence

Ms. Darlene Gilmore
Environmental Quality Analyst
Michigan Department of Environmental Quality
Environmental Response Division
245 Colrain, SW
Wyoming, MI 49548-1013

RE: Abandonment of Monitoring Well X-10 at the GM - Grand Rapids Metal Plant, Grand Rapids, Michigan.

Dear Ms. Gilmore:

Recent plant modifications at the General Motors - Grand Rapids Metal Plant on 36th Street, required that monitoring well X-10 within the plant be abandoned. General Motors has excavated the area around the current location of monitoring well X-10 for construction of new equipment pits.

Historical Review of Monitoring Well X-10

Monitoring well X-10 was installed as part of the trichloroethylene (TCE) remediation program implemented in 1989 to evaluate the progress of the plume cleanup. The well was installed between the source area and the north property line to provide advance notice of the trend in TCE concentration in the north lot line purge well (PW-Disch). Monitoring well X-10 was installed on June 12, 1989 to a total depth of 60 feet. A 10-foot stainless steel screen was set between 35 and 45 feet below the floor surface. The borehole was backfilled with natural soils with a benseal and natural cutting seal installed from the water table to the surface.

During the implementation of the groundwater monitoring program, TCE was not detected in the ground water samples collected from monitoring well X-10. However, 1,1,1 trichlorethane (1,1,1-TCA) was detected and both TCE and 1,1,1-TCA have continued to be monitored to present. TCE was never detected at any significant concentrations and 1,1,1-TCA has dropped to near non-detect concentrations. Also, during several years of monitoring, the purge well PW-DISCH has shown a consistent downward trend. Since both TCE and 1,1,1-TCA currently exist at near non-detect concentrations in well X-10 and are significantly below both of their residential clean-up criteria, no reason exists for installing a replacement monitoring well for X-10.

Method of Abandonment

Monitoring well X-10 has proper seals and, if abandoned in place, will not create a conduit for migration of any potential future contamination. The following paragraph provides a concise description of the method of abandonment.

Prior to abandonment the total well depth was measured to insure the well was not obstructed, and to confirm the total well depth. The soils surrounding the well were excavated at least four

additional feet below the bottom of the excavation. The well casing was cut off four feet below the press pit, and properly disposed. A tremie pipe was inserted down the well casing to the bottom of the well screen and a field prepared cement-bentonite grout was pumped down the tremie pipe while it was slowly removed from the well. Grouting continued to the ground surface. The grout was mixed at a ratio of 94 pounds Portland cement and five pounds bentonite to eight gallons of water. Additional grout was added to the well casing to compensate for settlement after the tremie pipe was removed. Once the entire casing was filled with grout, the remaining borehole was filled to the surface with natural soils.

If you have any questions regarding the abandonment of monitoring well X-10, please contact me at (616)246-2870.

Sincerely,

Tobe Allen
Environmental Engineer

cc: Ted Lietzke, Earthtech

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

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PREPARED AT ENCORE COUNSEL'S REQUEST

TO: Kurt Blizzard

REF. NO.: 17630-01

FROM: Jennifer Maude/cr/4/Det

DATE: August 13, 2002

cc: Marilyn Dedyne, GM
Gary Klepper, CRA
Jennifer Quigley, CRA

RE: **Monitoring Well Network Evaluation**
General Motors Corporation Metal Fabrication Division
Grand Rapids Metal Plant
Wyoming, Michigan

1.0 INTRODUCTION

Conestoga-Rovers & Associates, Inc. (CRA) has prepared this memorandum for the General Motors Corporation (GM) Metal Fabrication Division (MFD) Grand Rapids Metal Plant located at 300 36th Street in Wyoming, Michigan (Site). The purpose of this memorandum is to provide the results of the preliminary evaluation of the monitoring well network at the Site and to provide recommendations for improvements to the current monitoring well system and groundwater monitoring plan.

2.0 SCOPE OF WORK

CRA obtained and reviewed available historical information regarding the monitoring well network at the Site. The information was evaluated for completeness, the appropriateness of well and screen placement, and trends in the concentrations of chlorinated compounds in groundwater, particularly trichloroethene (TCE) and 1,2-dichloroethene (1,2-DCE) obtained from analytical result for groundwater samples collected from individual wells. Available documentation reviewed included the following:

- Phase I Hydrogeological Investigation Report, EDI Engineering & Science (EDI), March 1986;
- Phase II Hydrogeological Investigation Report, EDI, June 1986;
- Phase III-A Hydrogeological Investigation Report, EDI, March 1987;
- Phase III-B Hydrogeological Investigation Report, EDI, July 1987;
- Phase IV-A Soil Vapor Pilot Study Report, EDI, August 1988;
- Phase IV-B Hydrogeological Investigation Report, EDI, July 1988;

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- Phase IV-C Hydrogeological Investigation Report, EDI, July 1988; and
- Analytical data from groundwater monitoring activities from 1989 through 2001.

Specifically, the monitoring well/soil boring construction logs, analytical results for soil, groundwater, and soil gas samples, and static water level data were reviewed during this evaluation. The findings of the information review are summarized in the sections below.

In addition, this evaluation has been conducted concurrently with an evaluation of the current groundwater and soil vapor extraction systems present at the Site. The results of the groundwater and soil vapor extraction systems evaluation and the recommendations therefrom are presented under separate cover in a memorandum to ENCORE dated August 13, 2002.

2.1 MONITORING WELL CONSTRUCTION

The following observations were made in regards to the general construction of the wells.

- Well construction logs were not available for monitoring wells 87-6, 87-7, and 93-1. Information regarding the installation of monitoring wells 87-6 and 87-7 was not included in any of the available historical documentation for the Site. Based on the review of available documentation, it was assumed that these monitoring wells were never installed. Based on discussions with individuals associated with the Site, it was determined that 93-1 was installed using a direct-push technique. Therefore, a log was not generated for 93-1.
- The interval depths for the well screens in the 85-X series wells were determined by the depth of the water table. It was intended that the well screens straddle the water table in order to measure and remove any floating product. These wells may be less appropriate for determining the lateral extents of the TCE plume.
- The screen depths for subsequent wells installed after 1985 were determined utilizing temporary vertical aquifer sampling groundwater analytical results. The screens in the completed wells were placed at the depth of highest concentration detected, or at the depth of the well screen in adjacent wells where vertical aquifer sampling was conducted.
- All monitoring wells were not screened at similar elevations; monitoring well 86-3 is screened 20 feet below 87-8, which is the closest well to the east. This is not anticipated to be a problem; however, because in general, the deeper screened wells appear to be those that are located further downgradient, which is the expected dispersion behavior for a dissolved chlorinated compound plume.
- The wells are screened in very fine to very coarse sand. No correlation between concentrations detected and geologic material around the screen was observed.
- The well screens are stainless steel, whereas the well casings are constructed from galvanized steel. This may be an issue for the measurement of dissolved iron from these wells if a natural attenuation remedy is proposed in the future.
- A well-depth survey was conducted in conjunction with the groundwater monitoring round on March 28, 2002. In general, the depths measured during the survey are consistent with the well depths listed on the well construction logs, with some notable exceptions. The depths measured on

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March 28, 2002 at 85-3 and 85-5B are approximately 2 feet above the depth listed on the well construction logs, suggesting that these wells are filling with sediment. However, the depths measured in 86-2 and 87-4 are approximately 2 feet below the depths on their logs. It is likely that there is some error in either the measured depths or on the logs. The depths of the wells should be periodically measured to confirm that the wells are not filling with sediment. The measured depths at 86-1 and 87-10 are approximately 5 feet above the depths listed on the well construction logs, meaning that the measured depth at 87-10 is above the top of the listed screen depth. It is unlikely that these wells have filled with 5 feet of sediment when adjacent wells have no sediment accumulation. It is more likely that the well logs are in error. Further investigation should be undertaken to determine the true depth of the screens at these locations and verify the measured depths. If the well's screens are obstructed and re-development is unsuccessful or inappropriate, then these wells should be abandoned.

A summary of all relevant monitoring well information is presented in Table 1.

2.2 PLUME DEFINITION

Based on the review of the locations of the monitoring wells at the Site, and the concentrations of chlorinated compounds identified in groundwater, the chlorinated compound groundwater plume has not been fully delineated to the north and northeast of the suspected source area. The downgradient and upgradient edges of the plume have not been adequately delineated to the Michigan Act 451, Part 201 Residential Cleanup Criteria. A minimum of three additional monitoring wells should be installed northeast and north of the downgradient edge of the plume to further define the extent of chlorinated compound contamination in groundwater (i.e., MW4-02, MW5-02 and MW6-02). There are currently no background monitoring wells to characterize groundwater flowing onto the Site. Two upgradient monitoring wells are proposed (i.e., MW2-02 and MW1-02), which may function as background monitoring wells (i.e., provided that these do not indicate a site-related source at the upgradient property boundary). Figure 1 presents the proposed monitoring well locations for MW1-02 through MW6-02. In addition, Figure 1 presents the approximate location of an additional monitoring well, MW7-02, to be installed immediately downgradient of PWDISCH based on the results of the groundwater and soil vapor extraction treatment systems evaluation, as previously detailed in Section 1.0.

In addition, the 85-X series wells are screened to straddle the water table; however, based on the analytical results from vertical aquifer sampling conducted, the highest TCE concentrations were observed in groundwater samples collected from the 87-X series temporary wells at greater depths. Therefore, based on the fact that chlorinated compounds are heavier than water and will tend to sink in the aquifer, the 85-X series wells will be useful for determining groundwater flow directions and for monitoring floating free product, but are not at the optimal depth for chlorinated compound analysis.

2.3 SOURCE DETERMINATION

In 1985, floating free product was discovered in an excavation beneath the northeast section of the plant. While the nature of the free product was not specifically investigated, chlorinated compounds were detected in groundwater samples collected from the monitoring wells installed as a portion of that investigation. The source of the chlorinated compounds contamination was determined to be a parts

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cleaner station, that historically utilized TCE for degreasing operations, within the plant at Column T-27, the current location of purge well 86-2.

The nature and extent of the floating free product that was encountered in the vicinity of column A-15 at the Site in 1985 and that has consistently been detected in monitoring well 85-3 since 1985 has not been defined. While four monitoring wells (i.e., 85-3, 85-5B, 85-6 and 86-1) have been monitored for free product since 1985, two of these monitoring wells are located too far from the most-impacted location (i.e., 85-3) and there are no monitors to the north, northeast, east and west of 85-3. No additional monitoring wells for free product are proposed at this time because it is anticipated that this area will be subject to investigation and potential source area removal activities as described under separate cover in CRA's letter to ENCORE dated August 13, 2002.

In 1987, 29 soil vapor samples were collected in the vicinity of Column T-27. Analytical results indicated that the highest TCE concentrations were observed near Column T-27, with concentrations decreasing radially away from the Column. Five monitoring wells were installed around Column T-27, one near the Column and the four other monitoring wells installed north, south, east, and west of the suspected source area. Despite the fact that monitoring well 87-2 is upgradient of Column T-27, elevated concentrations of TCE concentrations were observed. TCE was also detected in monitoring well 85-4 and tetrachloroethene (PCE) was detected in well 85-6, both of which are located cross-gradient to Column T-27. 1,1,1-trichloroethane (1,1,1-TCA) also was detected historically upgradient of the Column T-27 monitoring well cluster. Based on the analytical results and the groundwater flow direction identified at the Site, there is the potential that an unidentified upgradient source is contributing chlorinated compounds to the groundwater at the Site. The waste oil tanks located upgradient of the plant have been identified as a potential source area. Two additional wells are proposed south of the plant (MW1-02 at the southeast corner of the building and MW3-02 on the downgradient side of the waste oil tanks) and one (i.e., MW2-02) east of Buchanan Street to investigate potential upgradient sources of chlorinated compound contamination. If all chlorinated compounds are below detection limits at these new monitoring wells, these locations can serve as background wells, which are required for a natural attenuation evaluation. Figure 1 presents the proposed monitoring well locations.

2.4 GROUNDWATER FLOW DIRECTION

The placement of groundwater monitoring wells at the Site does not allow for an adequate characterization of the groundwater flow regime. The monitoring well network does not have enough upgradient or lateral downgradient measurement points to properly determine the groundwater flow direction from the Site, and, therefore, potential contaminant migration pathways. The proposed source investigation and plume delineation wells would provide an adequate hydraulic monitoring network. . Figure 1 presents the proposed monitoring well locations.

2.5 ANALYTICAL DATA TRENDS

Based on the review of available historical information, concentrations of TCE in the monitoring wells at the Site are decreasing or stable, dependent upon location. TCE concentrations are decreasing in monitoring wells 85-7, 86-2, 86-3, 87-1, 87-4, 87-5, 87-8, 87-9, 87-11, 87-13, and PWDISCH. These wells are located along

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the approximate centerline of the plume, based on current information. TCE concentrations are stable in monitoring wells 87-2, 87-10, and 93-1. These wells are located near the upgradient and downgradient edges of the plume. The wells in which concentrations are stable are observed to generally contain lower concentrations of TCE. 1,2-DCE concentrations are generally low and do not exhibit any definite trends. The exception to this is monitoring well 87-5, where the TCE and 1,2-DCE concentration trends are consistent with those expected during reductive biodegradation. Figures identifying TCE and 1,2-DCE trends in the monitoring wells are presented in Attachment A. Non-detect values on the Figures were plotted at the detection limit.

Although PCE and 1,1,1-TCA have been detected in site groundwater in the past, these VOCs were not included in the routine groundwater sampling and analysis plan. Therefore, there is insufficient analytical data for evaluating the trends of these VOCs in site groundwater.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on a review of the available historical data and the most recent monitoring round, the following conclusions were made:

- Logs for 87-6, 87-7, and 93-1 were not available. Based on available information, it is believed that no monitoring wells identified as 87-6 and 87-7 were ever installed at the Site and that a log was not completed for 93-1 based on the installation technique utilized.
- Wells are screened in very fine to very coarse sand. No correlation between concentrations detected and geologic material around the screen was observed.
- The well screens are stainless steel, whereas the well casings are constructed from galvanized steel. This may be an issue for the measurement of dissolved iron from these wells if a natural attenuation remedy is proposed in the future.
- The screens of the 85-X series wells straddle the water table, and are valuable for hydraulic investigations or for monitoring floating free product. However, these monitoring wells are not optimal for the monitoring of chlorinated compounds. .
- A well depth survey was undertaken to assess the current condition of the wells and their continued suitability as monitoring locations. It was determined that the depths of most wells were consistent with the depths on the well logs, with the exception of 86-1 and 87-10, which were approximately 5 feet above their listed depths. It is likely that the well logs incorrectly list the screen depths of these wells.
- The source area of chlorinated compound contamination has not been adequately defined. TCE, PCE and 1,1,1-TCA concentrations have been detected upgradient and cross-gradient from the identified source at Column T-27.
- The source of free product near Column A-15 and its nature and extent have not been fully defined.
- The downgradient edge of the plume has not been fully delineated to applicable Michigan Act 451, Part 201 Residential Cleanup Criteria.
- Based on the above, the current monitoring well network is inadequate to properly determine groundwater flow at the Site.

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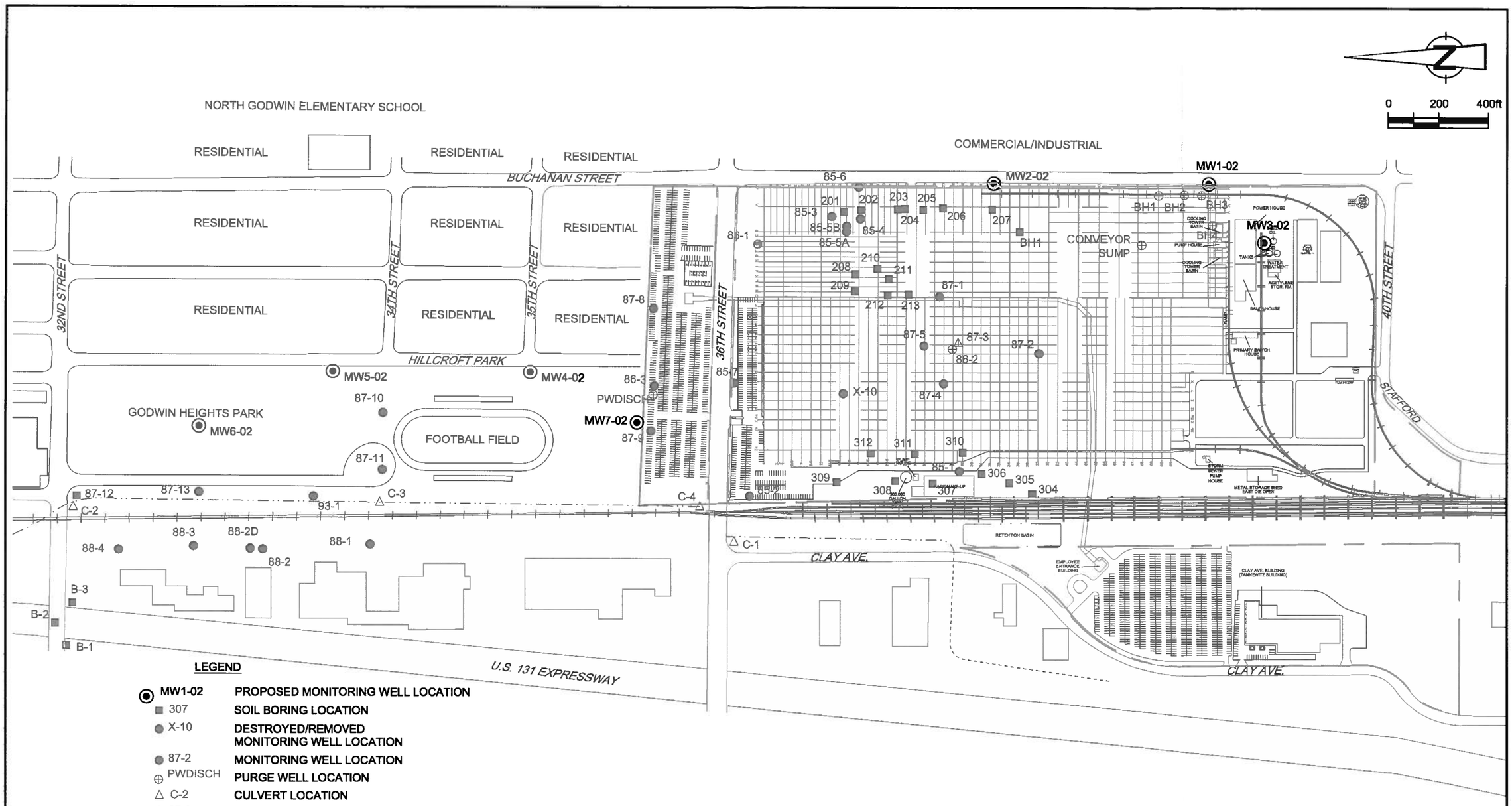
CRA recommends the following activities be undertaken to address the data gaps outlined above:

- The depths of the well screens at 86-1 and 87-10 should be determined, and the measured depths should be verified. If the well screens at these locations are obstructed and redevelopment is not possible, the wells should be abandoned.
- Three additional wells should be installed upgradient and cross-gradient from the Column T-27 area to investigate the chlorinated compound concentrations upgradient and cross-gradient of the Column T-27 area. Figure 1 presents the proposed monitoring well locations.
- A background well is required for a proper evaluation of potential use of natural attenuation as a remedial strategy. The upgradient source investigation wells may be used for this purpose if no other chlorinated compounds are detected at these locations. Figure 1 presents the proposed monitoring well location.
- The source of free product in the vicinity of Column A-15 and the nature and extent of this free product must be determined.
- Three additional wells should be installed along the downgradient edge of the plume. These wells will not only allow for the better delineation of groundwater contamination at the Site, but will also provide valuable hydrologic data regarding the groundwater flow regime. In addition, as presented under separate cover, an additional monitoring well will be installed immediately downgradient of PWDISCH to provide hydrologic data regarding the impact of the purge well on the overall plume treatment. Figure 1 presents the proposed monitoring well locations.
- It is recommended that the next groundwater sampling event include analysis of the following group of VOCs: PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, vinyl chloride, 1,1,1-TCA, 1,1-DCA, and chloroethane as well as the following natural attenuation indicator parameters: ethene, ethane, dissolved oxygen, oxidation-reduction potential, methane, nitrate, sulfate and dissolved iron

Should you have any questions regarding this memorandum, please contact Jennifer Quigley or Gary Klepper at (517) 316-2397.



LEGEND

MW1-02	PROPOSED MONITORING WELL LOCATION
307	SOIL BORING LOCATION
X-10	DESTROYED/REMOVED MONITORING WELL LOCATION
87-2	MONITORING WELL LOCATION
PWDISCH	PURGE WELL LOCATION
C-2	CULVERT LOCATION
87-3	AIR SPARGING WELL
BH1	APPROXIMATE LOCATION OF DEWATERING WELLS
	APPROXIMATE SITE BOUNDARY
	FENCE
	RAILROAD
	COLE DRAIN

SOURCE: EDI ENGINEERING & SCIENCE, JUNE 1987 AND JUNE 1988 AND EARTH TECH, SEPTEMBER 2001.

figure 1

PROPOSED MONITORING WELL LOCATIONS
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

17360-01(MEMO004)GN-DE001 AUG 12/2002

TABLE 1

WELL CONSTRUCTION INFORMATION
MONITORING WELL NETWORK EVALUATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Identification	Ground Surface (ft AMSL)	Groundwater (ft BTOC) 3/28/2002	Top of Casing (ft AMSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Mid-screen Elevatio (ft AMSL)	Current Bottom of Well (ft bgs)	Screen Material	Screen Unit Geology
85-1	NA	15.7	675.87	15.5	20.5	657.87	20.17	Stainless Steel	Sand - Med to fine. brown
85-2	NA	13.65	672.48	13.5	18.5	656.48	18.2	Stainless Steel	Sand - Med to v. coarse. brown
85-3	NA	20.22	681.37	20.3	30.3	656.07	27.92	Stainless Steel	Sand - v. fine grained - silty
85-4	NA	NM	681.3	20.7	30.7	655.6	NM	Stainless Steel	Sand - v. fine to v coarse. grey to brown
85-5A	Abandoned	-	-	-	-	-	-	-	-
85-5B	NA	20.22	681.3	21.9	31.9	654.4	27.94	Stainless Steel	Sand - coarse to v coarse to fine. brown
85-6	NA	18.4	680.35	19.5	24.5	658.35	24.26	Stainless Steel	Sand - Gravelly to silty. brown
85-7	NA	19.76	678.69	20.6	25.6	655.59	25.15	Stainless Steel	Sand - Fine gr. . brown
86-1	NA	20.41	680.67	18.5	29	656.92	23.65	Stainless Steel	Sand - Fine to coarse. brown
86-2	NA	22.24	681.38	27.5	32.5	651.38	34.22	Stainless Steel	Sand - Fine gr. . brown
86-3	NA	18.44	676.77	41.5	46.5	632.77	46.3	Stainless Steel	Sand - v. fine to gravel. Brown
87-1	681.6	-	681.15	8.5	19.5	667.15	-	Stainless Steel	Sand - Med to v. coarse
87-1	681.6	21.55	681.15	24	29	655.1	29.01	Stainless Steel	Sand - fine
87-2	681.6	-	681.16	7.5	18.5	668.6	-	Stainless Steel	Sand - v. fine to coarse
87-2	681.6	20.64	681.16	33.2	38.2	645.9	38.55	Stainless Steel	Sand - Med gr. brown
87-3	681.5	NM	NA	1	21.7	670.15	NM	Stainless Steel	Sand - Med to fine. brown
87-4	681.6	-	681.11	8.5	19.5	667.6	-	Stainless Steel	Sand - fine to coarse. brown
87-4	681.6	21.79	681.11	24	27	656.1	28.92	Stainless Steel	Sand - Med to fine. brown
87-5	681.5	-	680.77	8.5	19.5	667.5	-	Stainless Steel	Sand - fine to coarse. brown
87-5	681.5	21.44	680.77	39.5	50	636.75	51.21	Stainless Steel	Sand - Med to coarse. brown
87-6	Not Found	-	-	-	-	-	-	-	-
87-7	Not Found	-	-	-	-	-	-	-	-
87-8	677.9	19.16	677.62	19.7	22.7	656.7	22.9	Stainless Steel	Sand - Med to coarse. brown
87-9	674.1	15.81	673.87	50.5	53.5	622.1	52.82	Stainless Steel	Sand - Fine gr. . brown
87-10	669.13	11.65	66.883	29	32	638.63	28.42	Stainless Steel	Sand- medium to fine, gravel, fine. Brown
87-11	667.47	10.38	667.17	30	33	635.97	31.5	Stainless Steel	and - medium to coarse, fine gravel. brownish gra
87-12	661.41	10.55	NA	30	33	629.91	NM	Stainless Steel	Sand, medium to fine, gravel, fine with some stone
87-13	664.53	NM	664.24	40	43	623.03	44	Stainless Steel	Sand - fine to medium with fine gravel. Brown
88-1	666.95	-	666.66	27	30	638.45	Abandoned	Stainless Steel	Sand - fine to medium grained, light brown
88-2	666.68	11.61	666.68	26	29	639.18	29	Stainless Steel	Sand - gravelly, fine to coarse grained, brown
88-2D	Abandoned	-	-	-	-	-	-	-	-
88-3	665.55	11.04	665.26	27	30	637.05	29.5	Stainless Steel	Sand - gravelly, fine to coarse grained, brown
88-4	661.92	8.7	661.63	18	21	642.42	21.4	Stainless Steel	Sand - fine to coarse grained, light brown
93-1	NA	1.93	NA	NA	NA	NA	4	NA	NA
PW Discharge	677.92	NM	NA	45	55	NA	NA	NA	NA
X-10	NA	-	-	35	45	-	Abandoned	Stainless Steel	Sand, medium to fine, dark brown

Notes:
NA: Not Available
-:Not Applicable
NM :Not Measured

TABLE 1

WELL CONSTRUCTION INFORMATION
MONITORING WELL NETWORK EVALUATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Identification	Surface Conditions	Comments	Purpose of Installation	Temporary well sample depths (VAS) (ft bgs)	Parameters Detected in Well (µg/L)
85-1	Flush mount in concrete drive	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	12 DCE
85-2	Flush mount in asphalt parking lot	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	6 TCE
85-3	Flush mount in concrete floor of building	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	3 Tol
85-4	Flush mount in concrete floor of building	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	2 TCE, 5 TCA, 2 PCE
85-5A	Hit obstruction - moved over to drill 5B	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	No sample
85-5B	Flush mount in concrete floor of building	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	4 TCE, 12 DCE, 3 TCA, 2 PCE
85-6	Flush mount in concrete sidewalk	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	4 PCE
85-7	Flush mount in ground (lawn?)	Installed to straddle Water Table	Further investigation of oil discovered in nearby excavation	-	84 TCE
86-1	NA	-	Investigation of source of TCE downgradient of 85-x series well:	-	ND
86-2	NA	Screen depth determined by VAS	Investigation of source of TCE (near parts cleaner)	30-33, 40-43, 45-48	55000 TCE, 45 TCA, 12 DCE, 14 PCE
86-3	NA	Screen depth determined by VAS	Investigation of extent of TCE contamination downgradient	21-24, 34-36, 44-46, 54-56, 63-65	1400 TCE, 11 TCA, 10 DCE
87-1	Flush mount	Soil vapour analysis - above water table	Soil vapor analysis near source area	-	-
87-1	Flush mount	Screen depth determined by VAS	Location determined by results of soil vapor analysis	25-28, 34.5-37.5, 43.5,46.5	1200 TCE, 16 DCE
87-2	Flush mount	Soil vapour analysis - above water table	Soil vapor analysis near source area	-	-
87-2	Flush mount	Screen depth determined by VAS	Location determined by results of soil vapor analysis	25-28, 35.5-38.5, 43,46	86 TCE
87-3	Flush mount	Whole depth screened	Recover soil vapour in source area	No samples	-
87-4	Flush mount	Soil vapour analysis - above water table	Soil vapor analysis near source area	-	-
87-4	Flush mount	Screen depth determined by VAS	Location determined by results of soil vapor analysis	19.5-24.5, 32-35, 42-45, 51.5-54.5	87 TCE
87-5	Flush mount	Soil vapour analysis - above water table	Soil vapor analysis near source area	-	-
87-5	Flush mount	Screen depth determined by VAS	Location determined by results of soil vapor analysis	22-25, 31-34, 41-44, 51-54	70 TCE, 3 TCM
87-6	-	-	-	-	-
87-7	-	-	-	-	-
87-8	NA	Screen depth determined by VAS	Investigation of extent of TCE contamination	18.7-19.7, 28-31, 38-415, 48-51, 58-61	-
87-9	NA	Screen depth determined by VAS	Investigation of extent of TCE contamination	16-17.5, 22-25, 32-35, 41-44	-
87-10	Cement/flush mt. Cap	Screen depth determined by VAS	Investigation of extent of TCE contamination	29-32, 38.5-41.5, 48-51, 58-61	46 TCE,
87-11	NA	Screen depth determined by VAS	Investigation of extent of TCE contamination	18-21, 28-31, 36.4-39.4, 48-51	320 TCE
87-12	NA	-	Investigation of extent of TCE contamination	19-22, 29-32, 38.5-40, 43-44.5	ND
87-13	Cement/flush mt. Cap	Screen depth determined by VAS	Investigation of extent of TCE contamination	20-23, 30-33, 40-43, 49.5-51	10 TCE
88-1	Natural soils and hole plug	Screen depth comparable to 87 wells	Investigation of extent of TCE contamination	12-13, 22-33, 29-32	ND
88-2	Natural soils and hole plug	Screen depth comparable to 87 wells	Investigation of extent of TCE contamination	12-15, 22-25, 30-31	ND
88-2D	-	-	-	-	-
88-3	Natural soils and hole plug	Screen depth comparable to 87 wells	Investigation of extent of TCE contamination	12-15, 22-25, 30-31	ND
88-4	Natural soils and hole plug	Screen depth comparable to 87 wells	Investigation of extent of TCE contamination	9-12, 8-21	ND
93-1	NA	NA	NA	-	-
PW Discharge	NA	NA	NA	-	-
X-10	Wood block floor	Screen depth determined by VAS		20-25,30-33, 10-43, 50-53, 60-63	

Notes:
NA: Not Available
-:Not Applicable
NM :Not Measured

ATTACHMENT A

TCE CONCENTRATION TREND GRAPHS

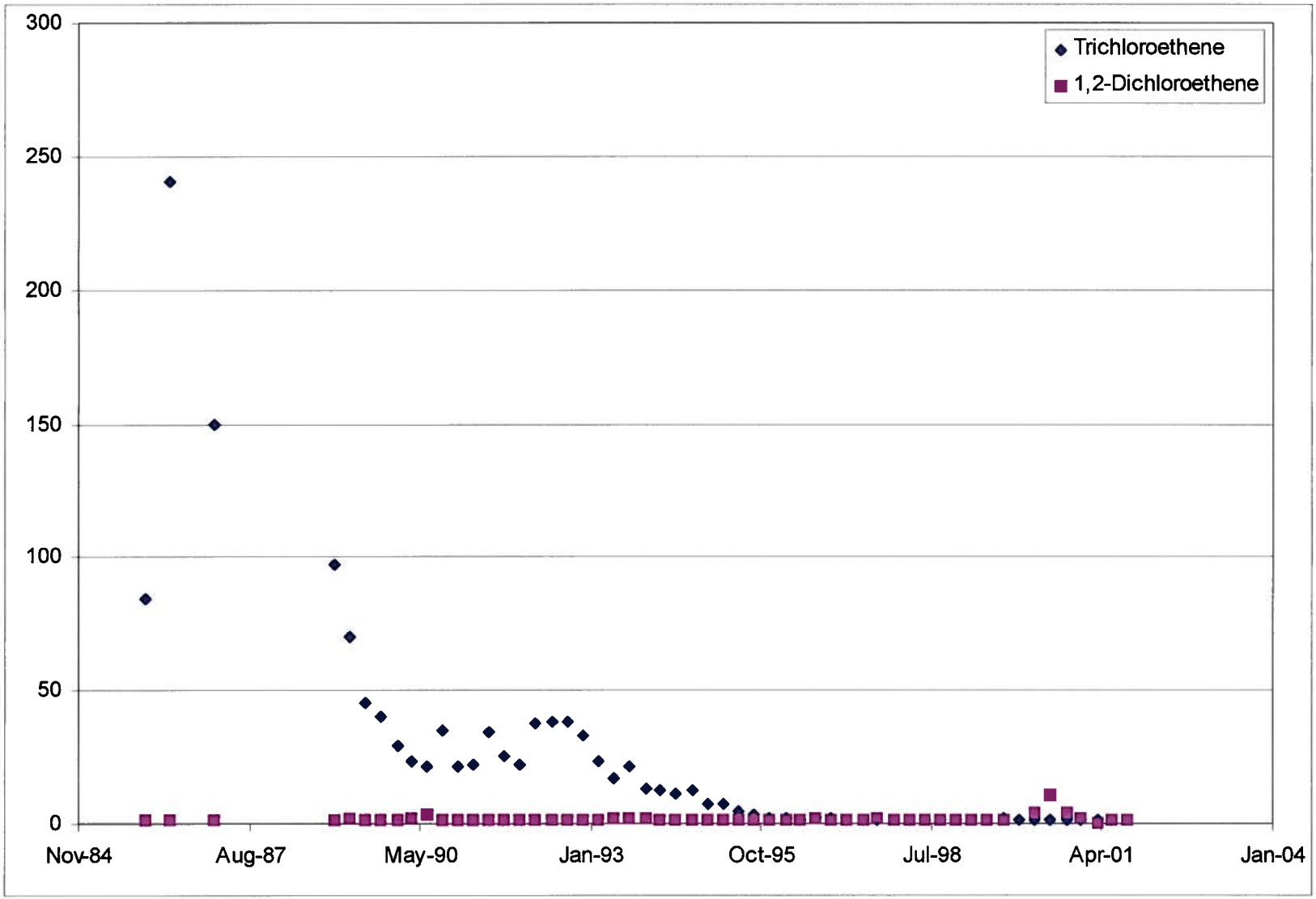


figure A-1

CONCENTRATION TRENDS AT 85-7
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

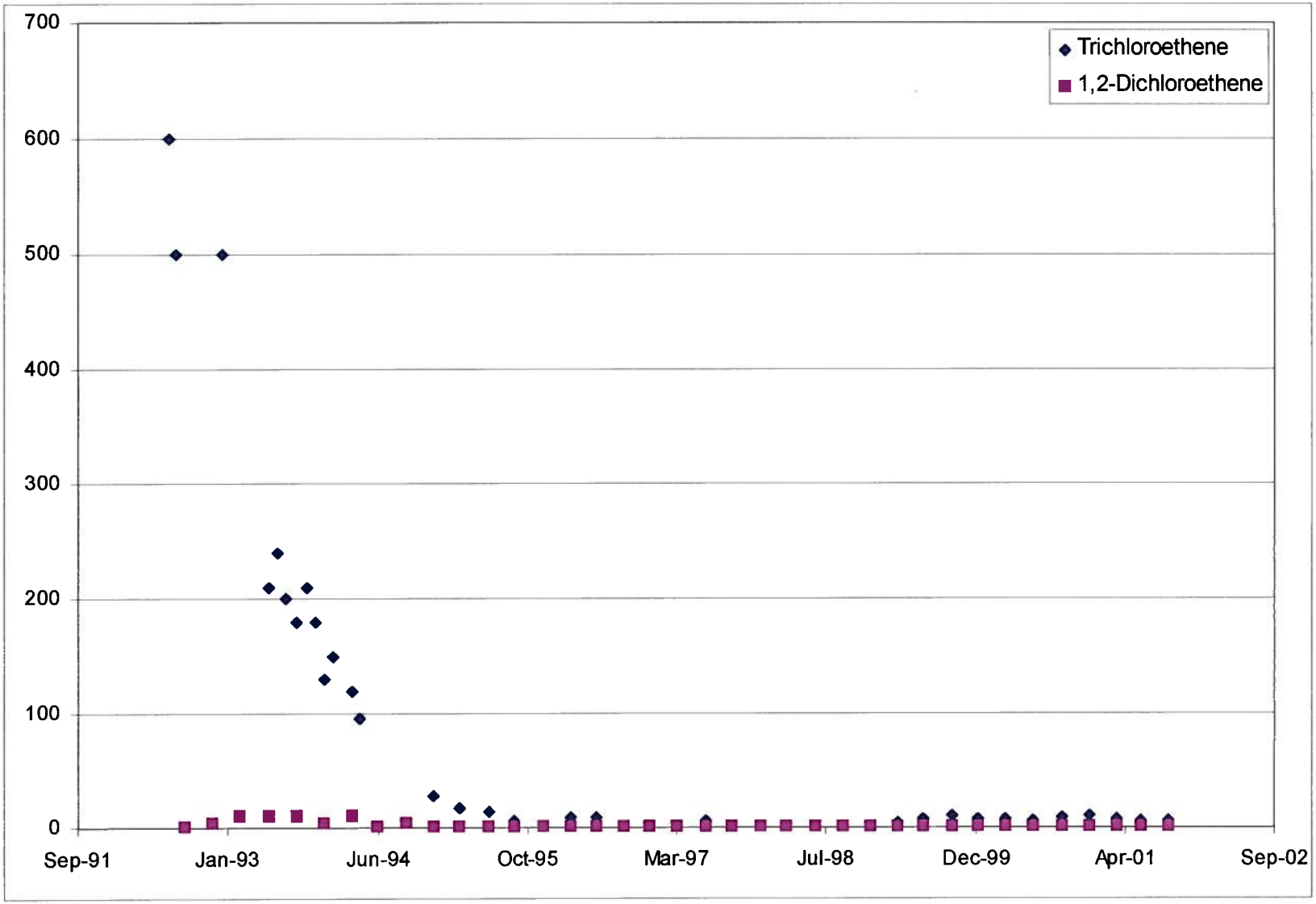


figure A-2

CONCENTRATION TRENDS AT 86-2
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

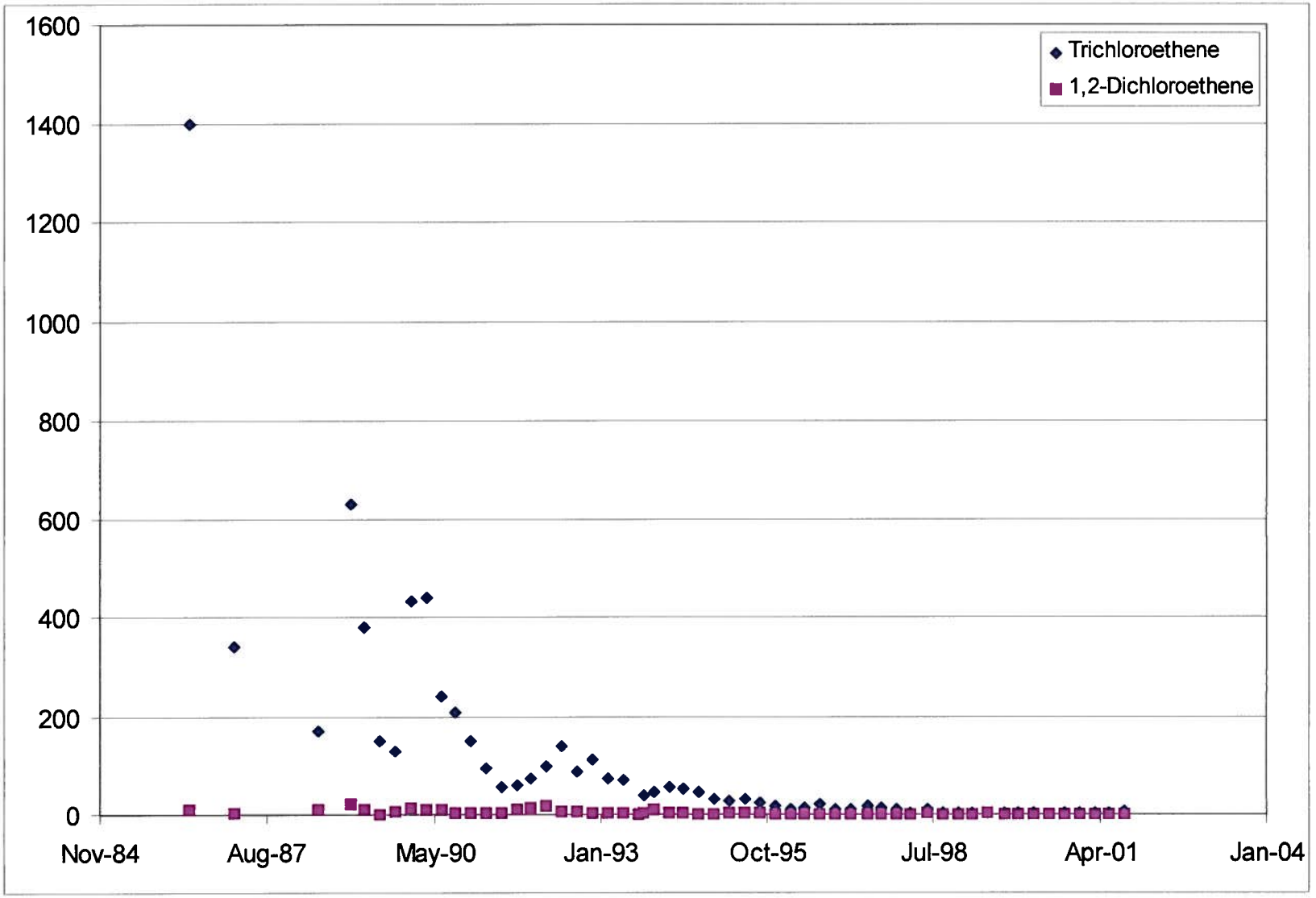


figure A-3

CONCENTRATION TRENDS AT 86-3
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

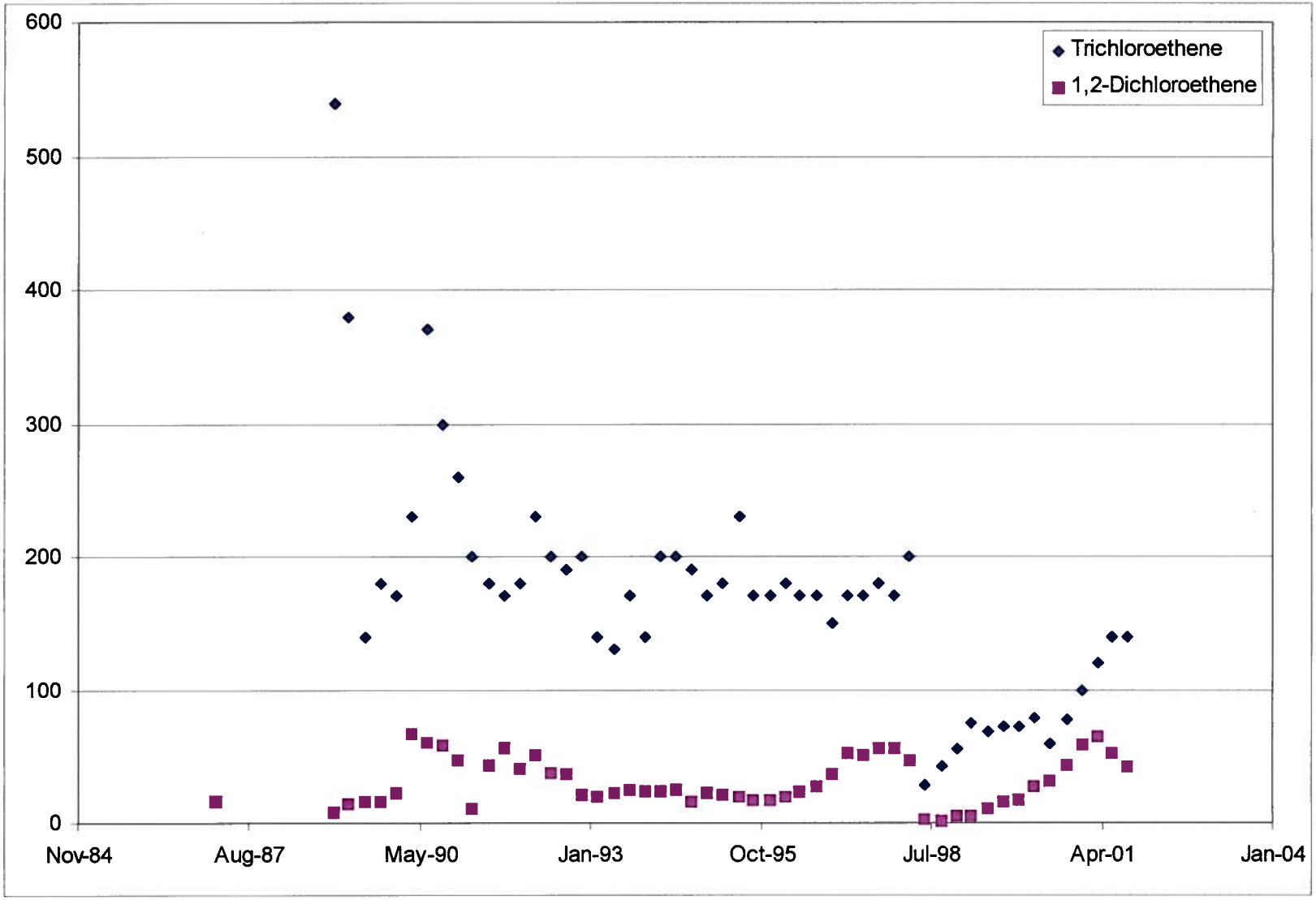


figure A-4

CONCENTRATION TRENDS AT 87-1
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

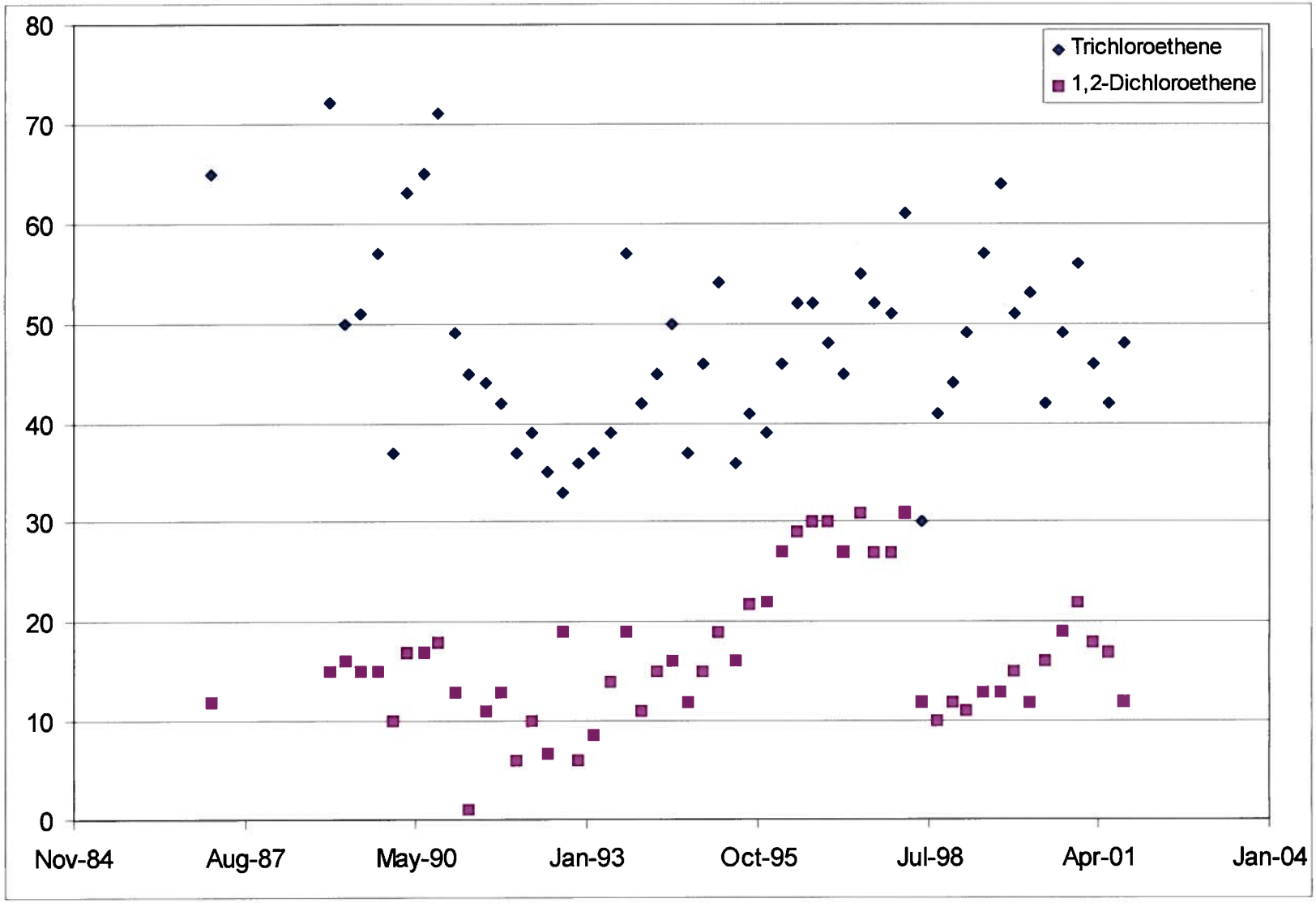


figure A-5

CONCENTRATION TRENDS AT 87-2
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

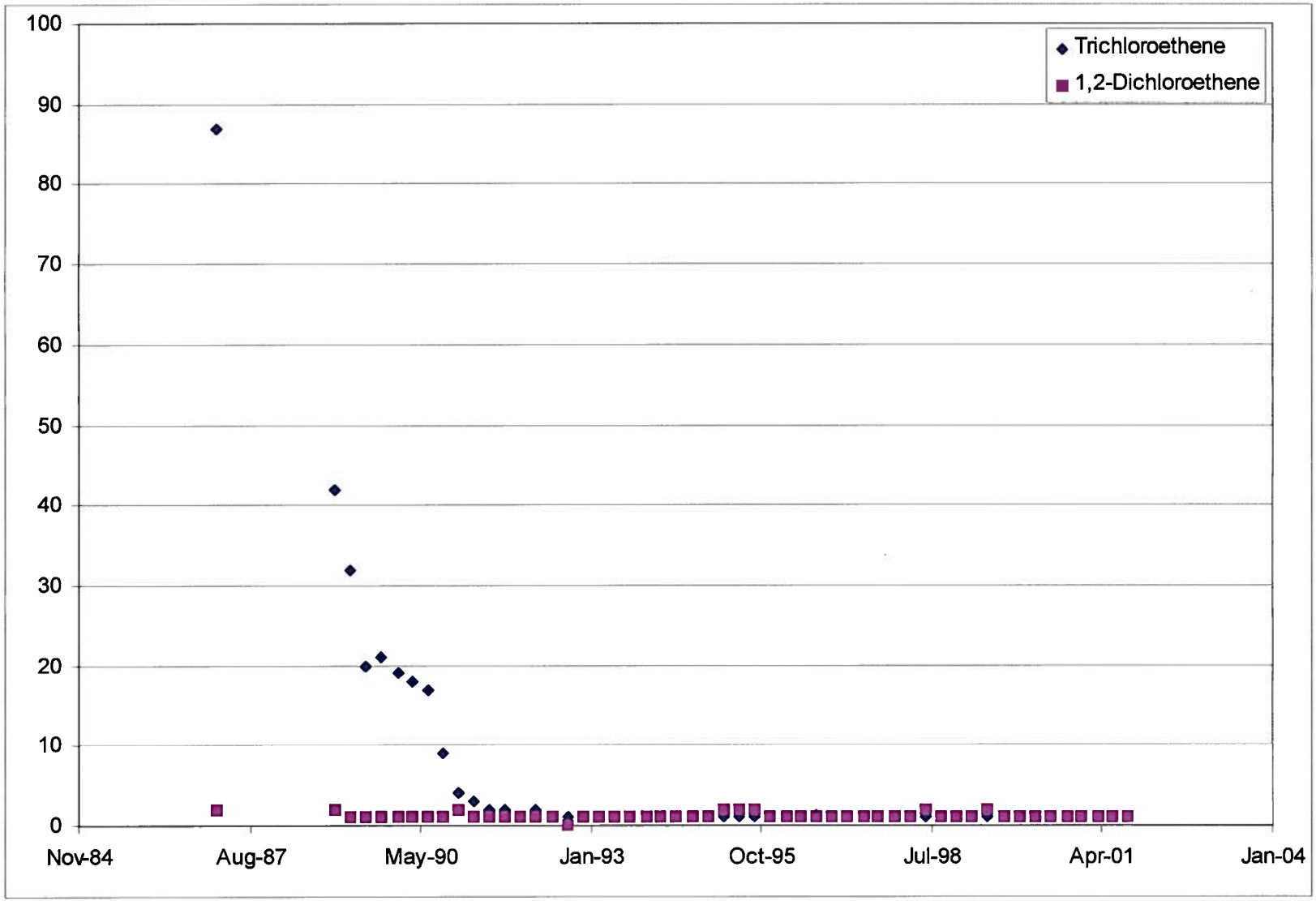


figure A-6

CONCENTRATION TRENDS AT 87-4
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

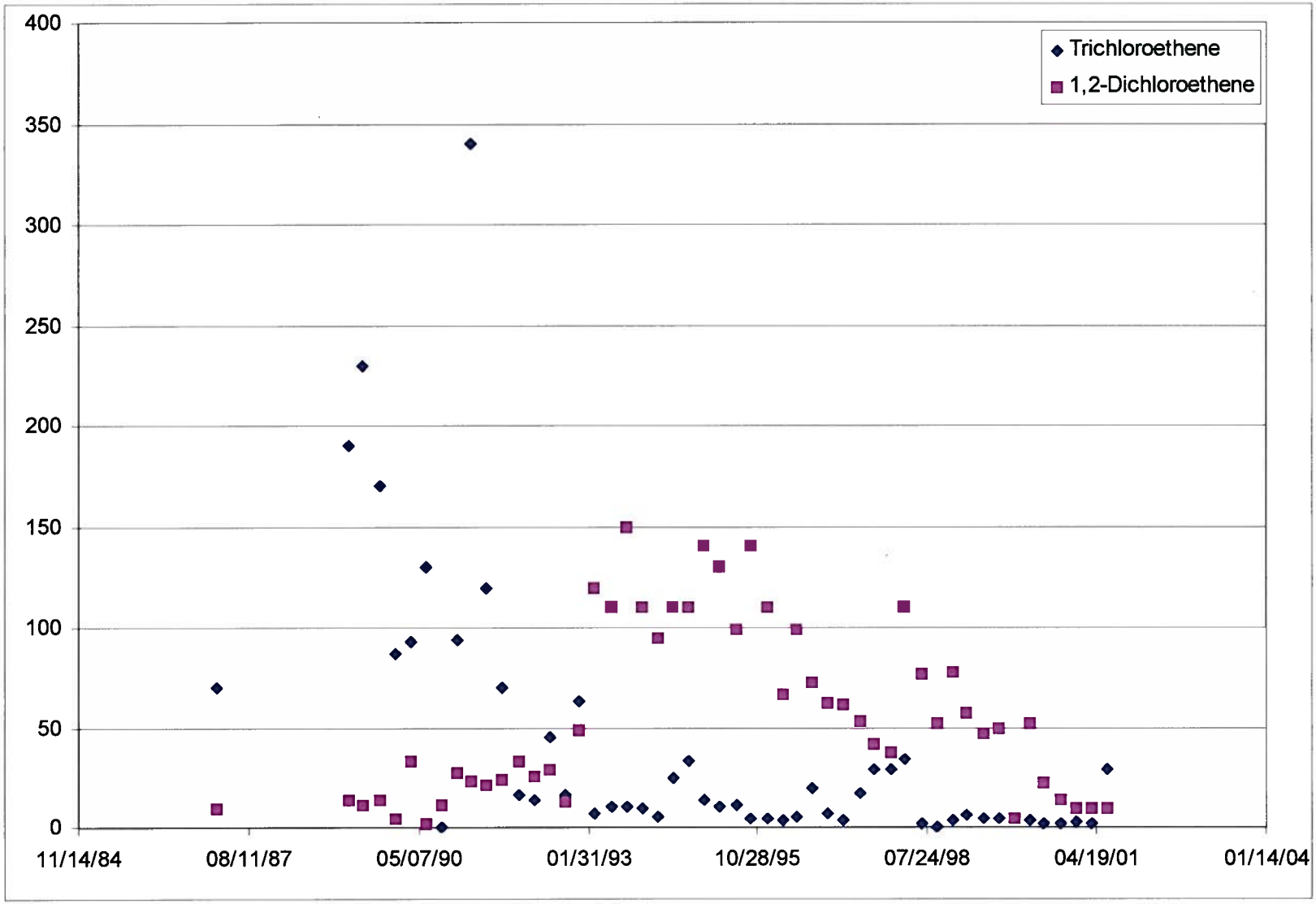


figure A-7

CONCENTRATION TRENDS AT 87-5
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

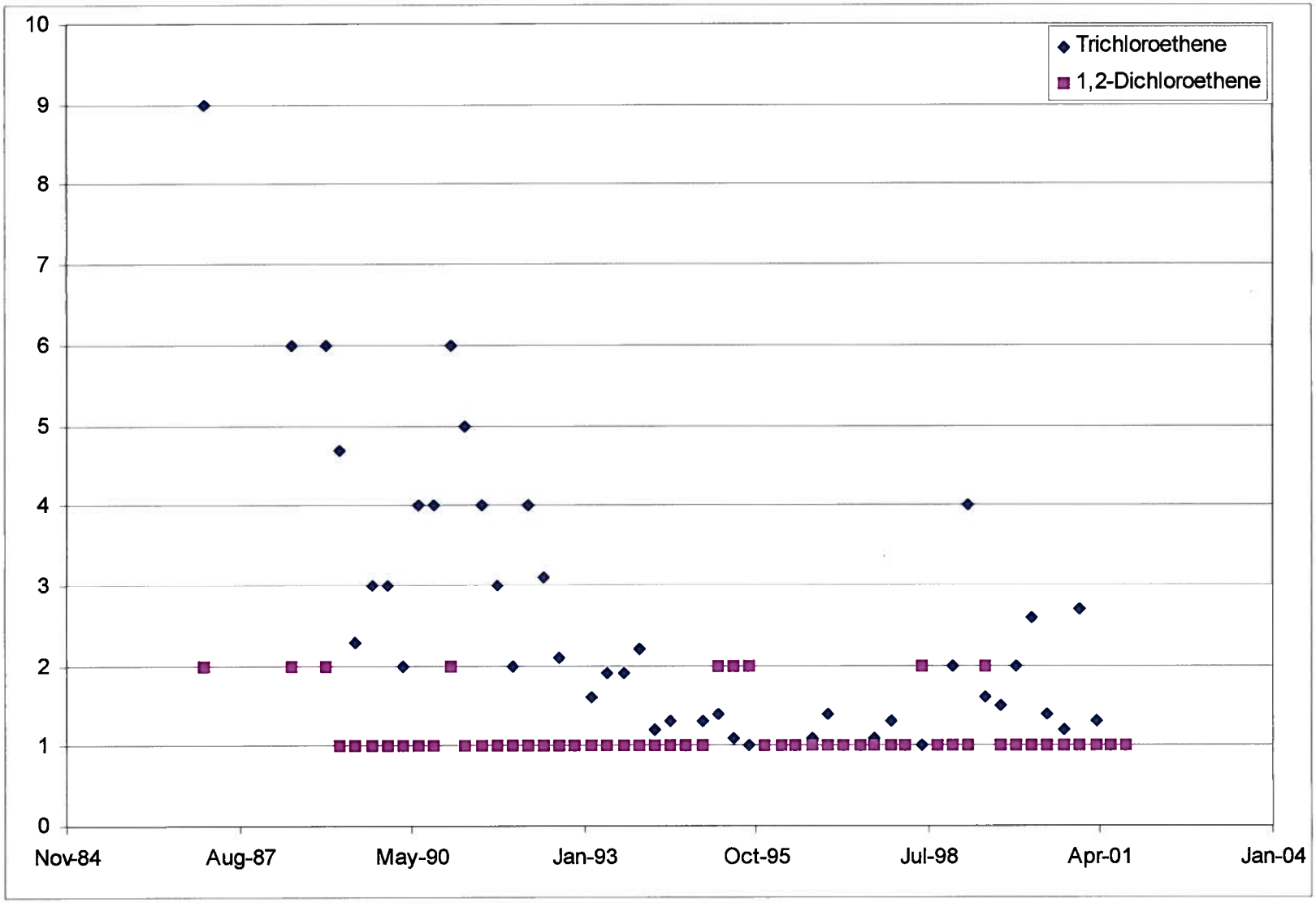


figure A-8

CONCENTRATION TRENDS AT 87-08
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

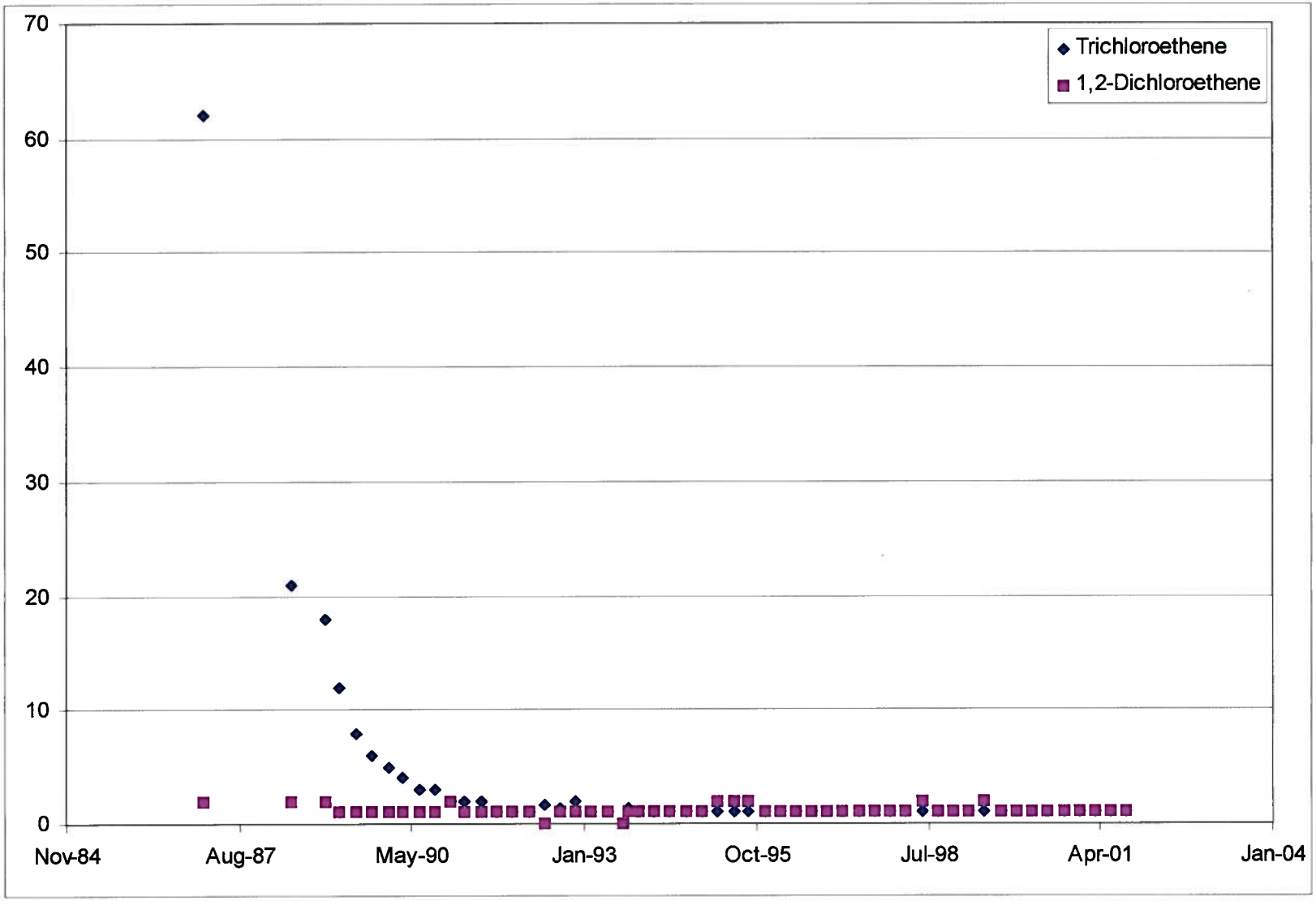


figure A-9

CONCENTRATION TRENDS AT 87-09
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

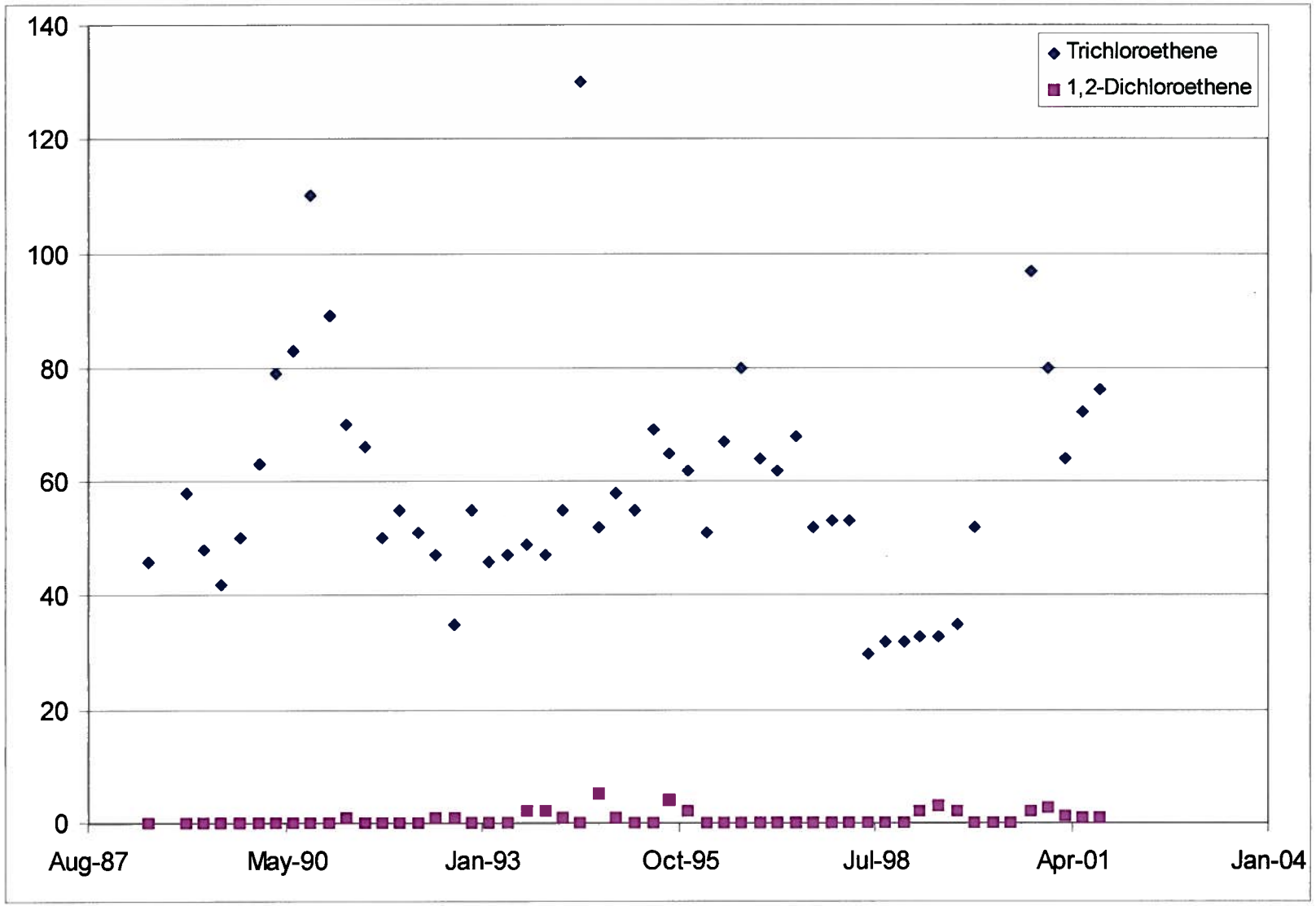


figure A-10

CONCENTRATION TRENDS AT 87-10
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

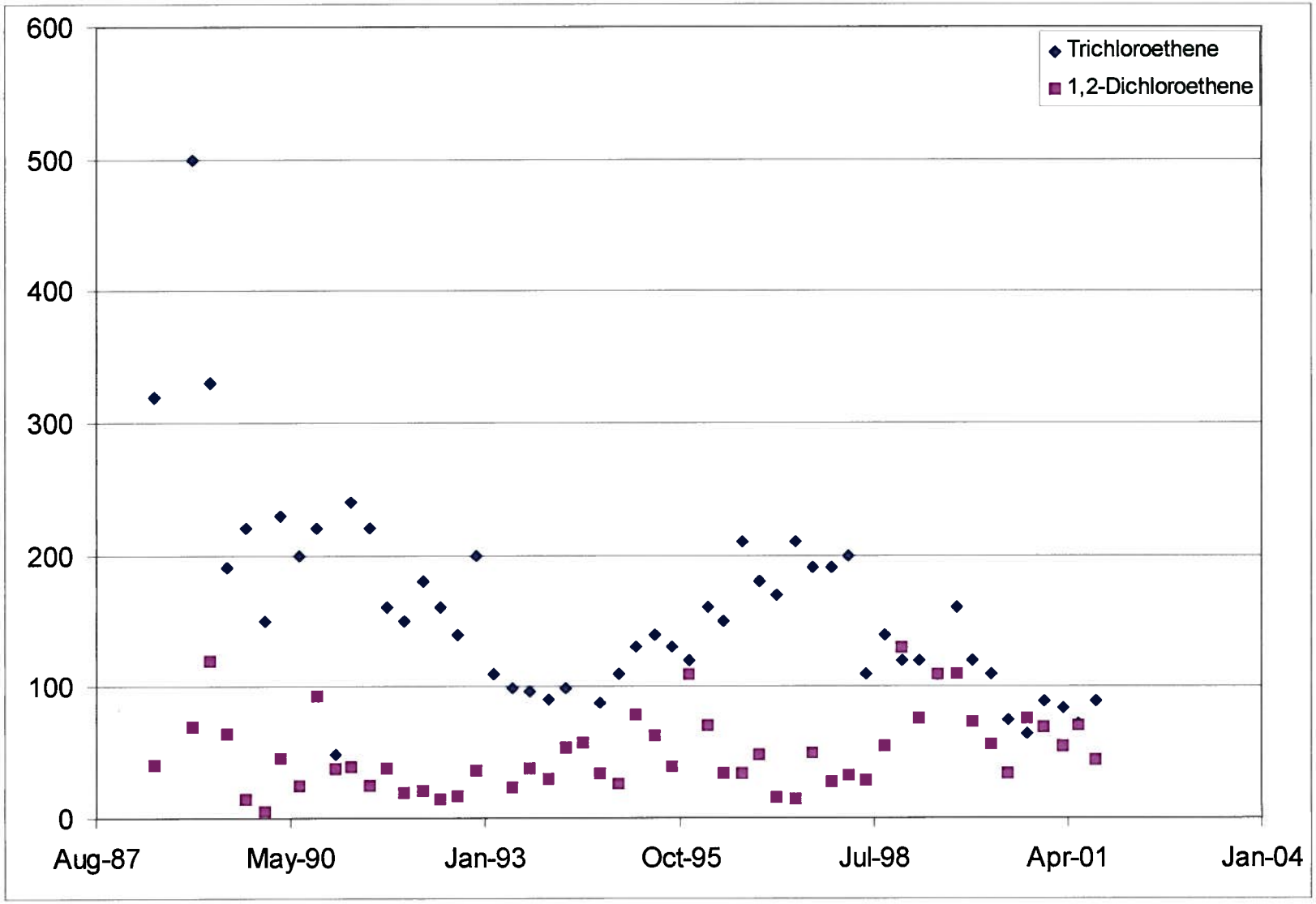


figure A-11

CONCENTRATION TRENDS AT 87-11
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

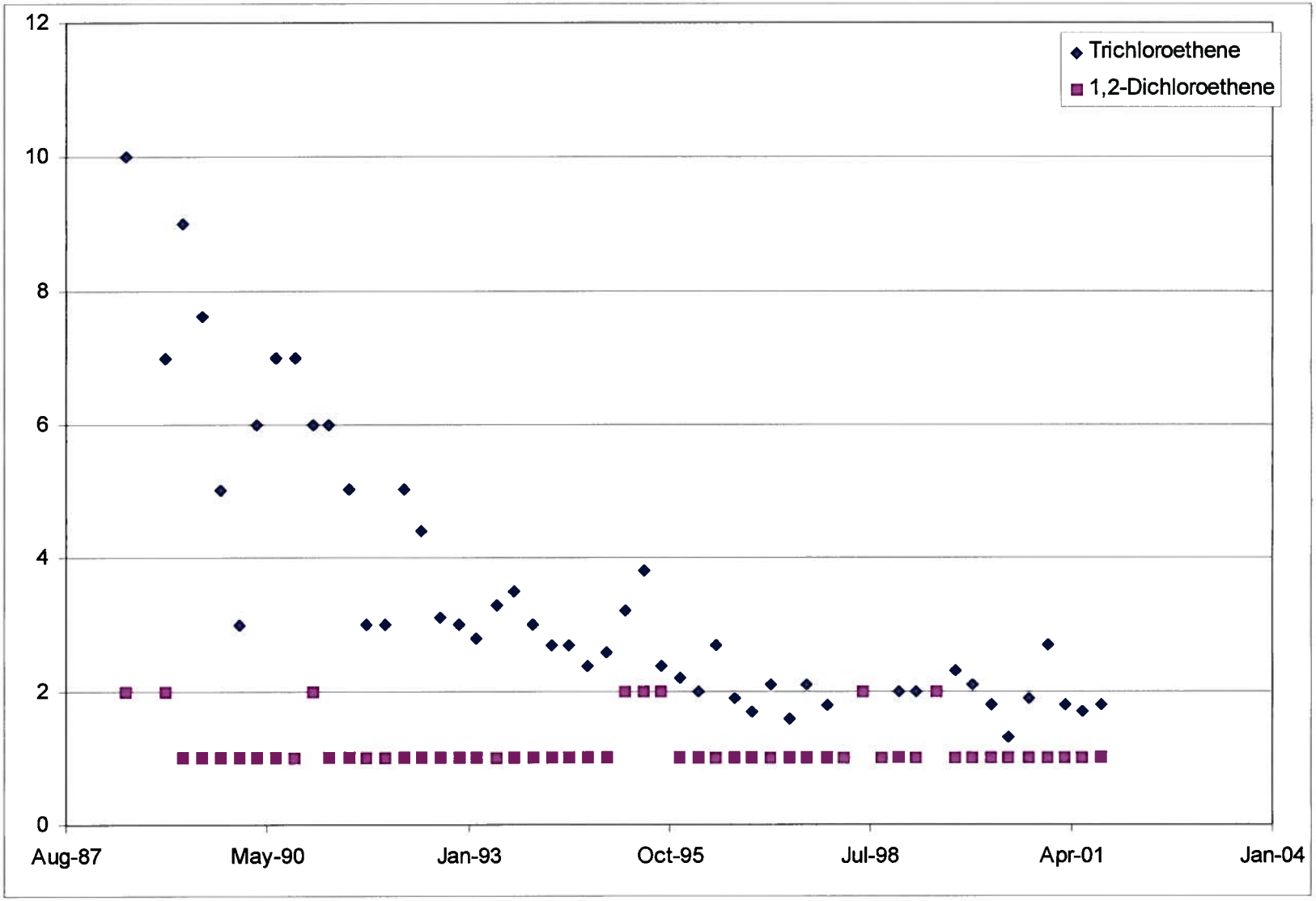


figure A-12

CONCENTRATION TRENDS AT 87-13
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

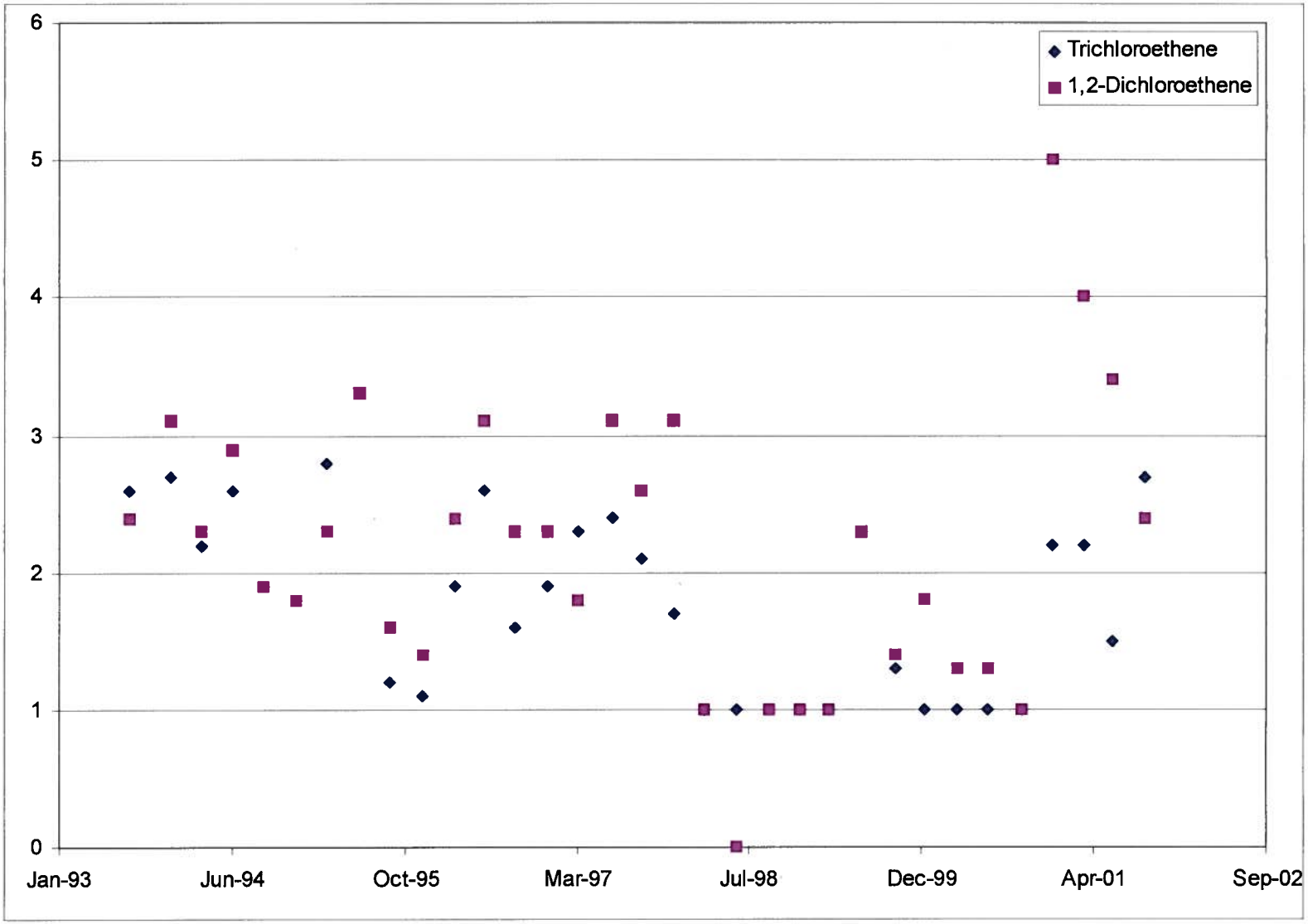


figure A-13

CONCENTRATION TRENDS AT 93-01
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

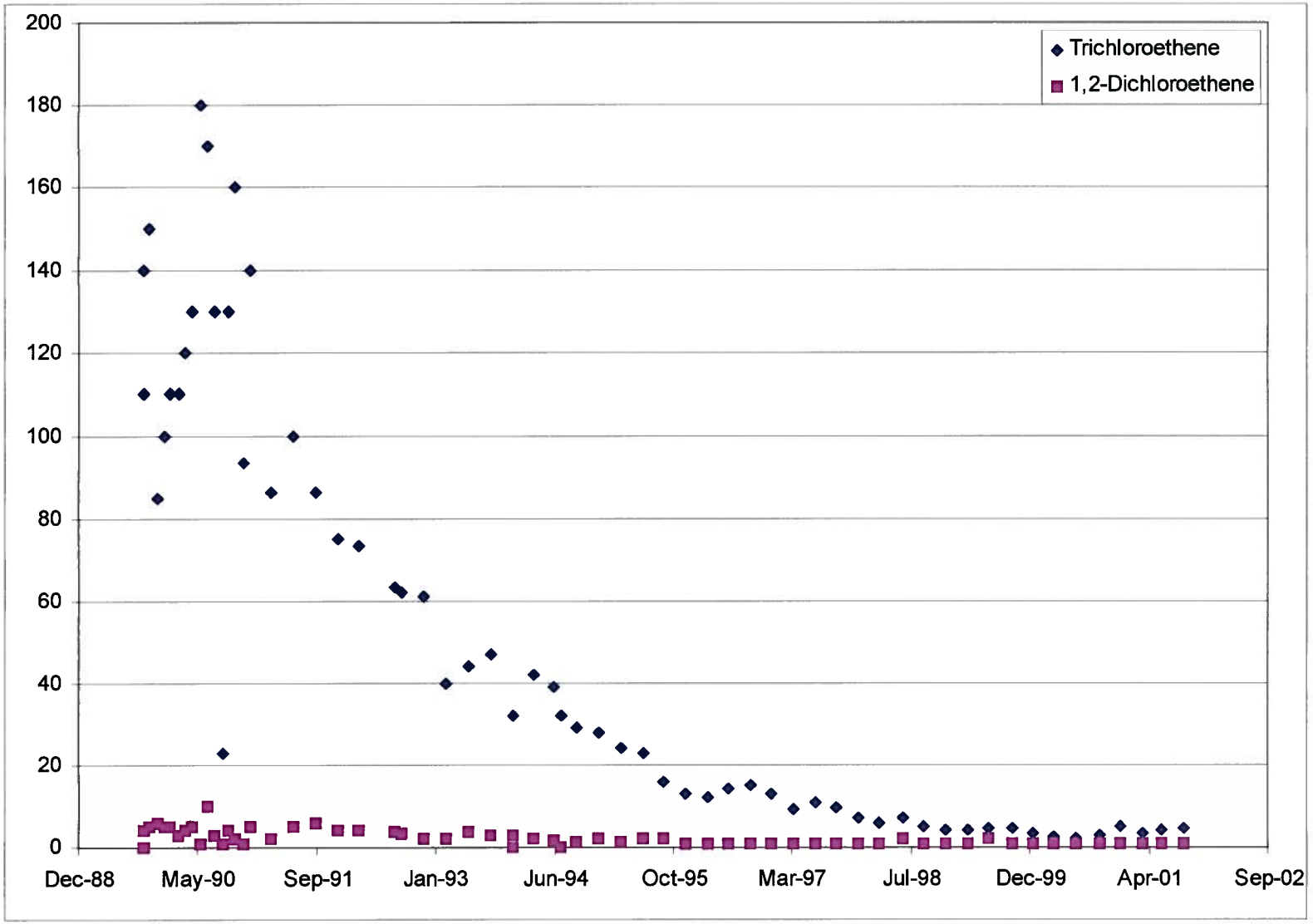


figure A-14

CONCENTRATION TRENDS AT PW-DISCH
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

CONESTOGA-ROVERS
& ASSOCIATES

620 S. Capitol Avenue, Suite 330, Lansing, Michigan 48933
Telephone: 517-316-2397 Facsimile: 517-316-2398
www.CRAworld.com

March 3, 2010

Reference No. 017360-10

Ms. Darlene Stringer
Michigan Department of Natural Resources and Environment
Remediation and Redevelopment Division
350 Ottawa Avenue NW, Unit 10
Grand Rapids, Michigan 49503-2341

Dear Ms. Stringer:

Re: October 2009 Semi-Annual Groundwater Monitoring Report
Grand Rapids Metal Plant
Wyoming, Michigan

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this October 2009 Semi-Annual Monitoring Report (Report), on behalf of Motors Liquidation Company (MLC) (formerly known as General Motors Corporation), for the Grand Rapids Metal Plant located at 300 36th Street S.W. in Wyoming, Michigan (Site). The purpose of the Report is to present the results of the October 2009 semi-annual groundwater sampling event conducted at the Site. Sampling was conducted in accordance with the 2005 Groundwater Monitoring Work Plan submitted on April 12, 2005 to the Michigan Department of Natural Resources and Environment (MDNRE) and verbally approved on April 28, 2005.

2.0 GROUNDWATER MONITORING PROGRAM

The scope of work (SOW) for the semi-annual groundwater monitoring program conducted at the Site includes: the collection and analysis of groundwater/water samples for Target Compound List (TCL) volatile organic compounds (VOCs) from existing monitoring wells and culvert locations; the collection and analysis of groundwater samples from monitoring wells 85-3, 85-5B, 85-6, and 86-1 for TCL semi-volatile organic compounds (SVOCs); the measurement of static groundwater levels in all monitoring wells; and the measurement of free product levels in select Site monitoring wells. Based on discussions with the MDNRE, the groundwater treatment system was shut down indefinitely in February 2005.

The results of the implementation of the SOW are presented in the subsections below.

2.1 OCTOBER 2009 SEMI-ANNUAL SAMPLE COLLECTION AND ANALYSIS

A total of 46 groundwater samples, including quality assurance/quality control (QA/QC) samples, were collected from monitoring wells MW1-03 through MW7-03, MW8-04 through MW10-04, MW11S-05, MW11D-04, MW13-04 through MW15-04, MW17-06, 85-1, 85-2, 85-3, 85-5B, 85-6, 85-7, 86-1, 86-3, 87-1, 87-2, 87-4, 87-5, 87-8, 87-9, 87-10, 87-11, 87-13, 88-2, 88-3, 88-4, purge well 86-2, and from culvert locations C-1, C-2, and C-3 between October 6, 2009 and October 8, 2009 for analysis of TCL VOCs. In addition, samples collected from monitoring wells 85-3, 85-5B, 85-6, and 86-1 were analyzed for TCL SVOCs. Table 1 presents a summary of the samples collected during the October 2009 semi-annual sampling event.

Prior to groundwater sample collection, static water levels were measured and recorded for the monitoring wells. Well caps were unlocked and removed allowing the water levels in the wells to stabilize. Static water levels and free product levels were measured to the top of each riser. Table 2 presents static water levels for October 6, 2009. No measurable free product was detected in monitoring wells 85-3, 85-5B, 85-6, or 86-1 during the October 2009 semi-annual sampling event. Figure 1 presents the approximate groundwater flow direction for October 6, 2009.

Dedicated ¼-inch diameter polyethylene tubing is utilized in each of the wells to be sampled. The bottom intake of the tubing was set in the middle of the screened interval for each of the wells. All wells were purged with a peristaltic pump using low-flow purge (LFP) techniques. Wells were purged between 100 and 200 mL per minute with continuous monitoring to confirm less then 0.3 feet of drawdown of the water level. Groundwater quality measurements were recorded in consecutive timed intervals using a Horiba and a HF Scientific turbidity meter. Groundwater quality parameters included pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Upon groundwater stabilization, based on three consecutive similar readings, groundwater samples were collected. Groundwater quality measurements are presented in Table 3.

Water samples collected from the culvert locations C-1, C-2 and C-3 were collected using a new disposable polyethylene sampling bottle in each location.

Collected groundwater samples and water samples were containerized in laboratory-provided containers, labeled, placed on ice, and shipped under chain-of-custody (COC) protocol to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. Table 4 presents an analytical summary of parameters for groundwater and water samples collected during the October 2009 semi-annual sampling event. Figure 2 presents select TCL VOC concentrations in groundwater and water samples collected during the October 2009 semi-annual sampling event. Figures 3, 4, 5, and 6 present concentration isocontours for trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC), respectively, in groundwater samples collected during the October 2009 monitoring event.

Analytical data is presented in Attachment A. A QA/QC data validation was conducted on the analytical data and a memorandum summarizing the results of the data validation is presented in Attachment B. Historical analytical results are presented in Attachment C.

3.0 ADDITIONAL MONITORING

The April 2010 semi-annual groundwater sampling event will not be conducted in April. It is anticipated that the existing monitoring wells will be sampled in Summer/Fall 2010 in conjunction with the implementation of an evaluation and investigation of the Grand Rapids Metal Plant property as a whole.

Please contact the undersigned at (517) 316-2397 or David Favero at (217) 522-6714, should you have any questions regarding this Report.

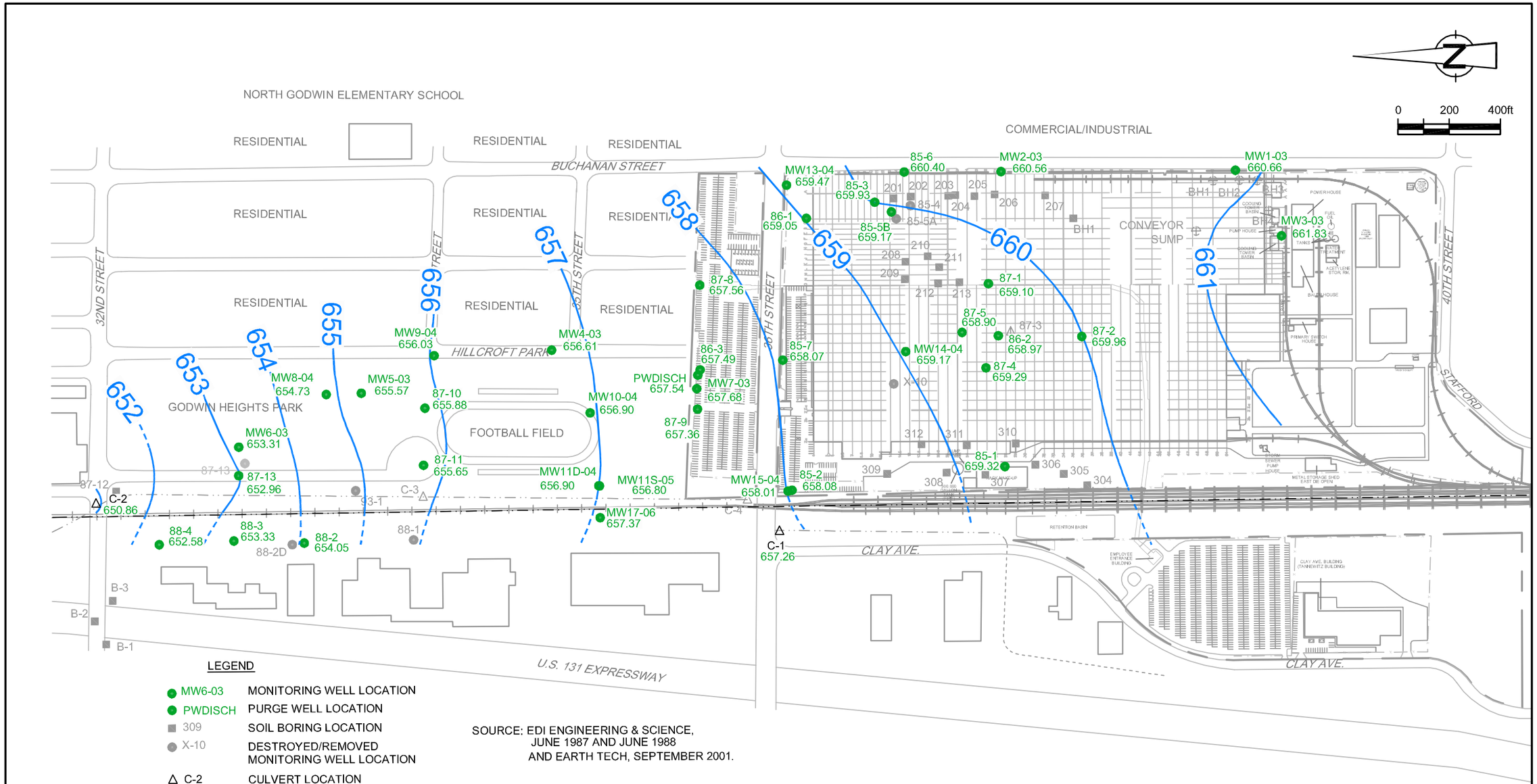
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

for Jennifer L. Quigley

KTA/lkc/12/Det.
Encl.

c.c.: David Favero, MLC



LEGEND

MW6-03	MONITORING WELL LOCATION
PWDISCH	PURGE WELL LOCATION
309	SOIL BORING LOCATION
X-10	DESTROYED/REMOVED MONITORING WELL LOCATION
C-2	CULVERT LOCATION
87-3	AIR PURGE WELL
BH1	APPROXIMATE LOCATION OF DEWATERING WELLS
	APPROXIMATE SITE BOUNDARY
	FENCE
	RAILROAD
	COLE DRAIN
652	GROUNDWATER ELEVATION CONTOUR
652	INFERRED ELEVATION CONTOUR
653.31	GROUNDWATER ELEVATION

SOURCE: EDI ENGINEERING & SCIENCE, JUNE 1987 AND JUNE 1988 AND EARTH TECH, SEPTEMBER 2001.

figure 1

OCTOBER 6, 2009
GROUNDWATER CONTOURS
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-10(STRI012)GN-DE001 FEB 25/2010

Nº	Revision	Date	Initial

N

0 100 200ft

LEGEND

COLE DRAIN

TCL VOC	Criteria (mg/L) (1)
cis-1,2-Dichloroethene	0,07
Tetrachloroethene	0,005
Trichloroethene	0,005
Vinyl chlorde	0,002

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

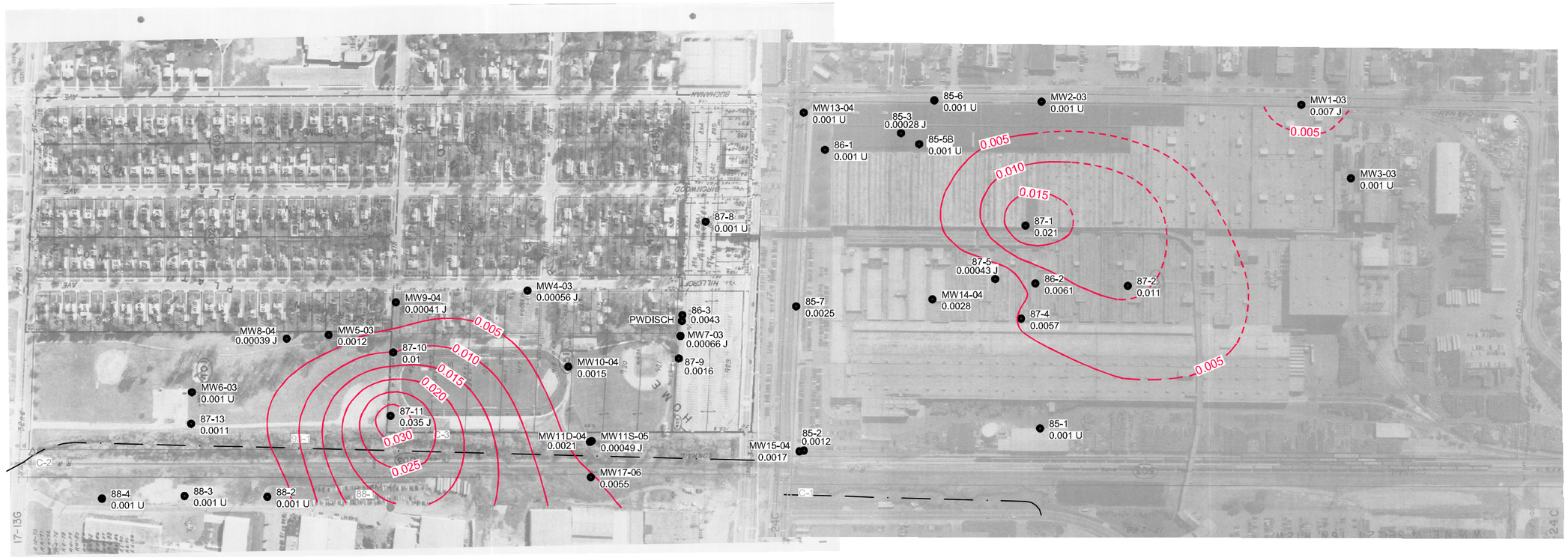
SELECT VOC CONCENTRATIONS - OCTOBER 2009

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.O.	L.C.	APRIL 2009	
Scale: 1"=200'	Project Nº: 017360-10	Report Nº: STRI012	Drawing Nº: figure 2

017360-10(STRI012)GN-DE002 FEB 25/2010



LEGEND

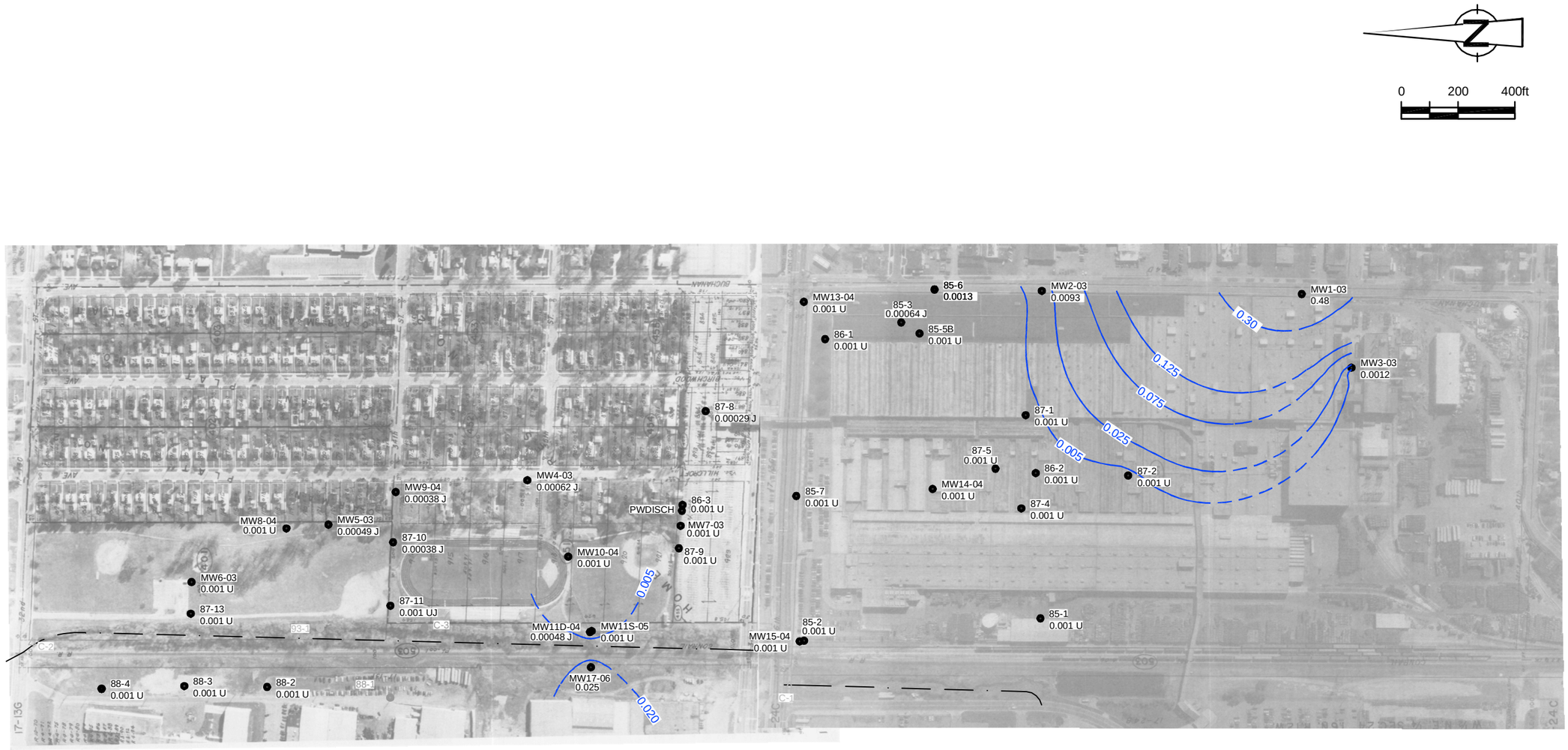
● MW6-03	MONITORING WELL LOCATION
● PWDISCH	PURGE WELL LOCATION
● X-10	DESTROYED/REMOVED MONITORING WELL LOCATION
△ C-2	CULVERT LOCATION
——0.005——	TRICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
– – –0.005– – –	INFERRED TRICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
—— · —— ——	COLE DRAIN

Parameter	Criteria (mg/L) (1)
Trichloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 3

TRICHLOROETHENE ISOCONTOURS - OCTOBER 2009
GRAND RAPIDS METAL PLANT
Wyoming, Michigan



LEGEND

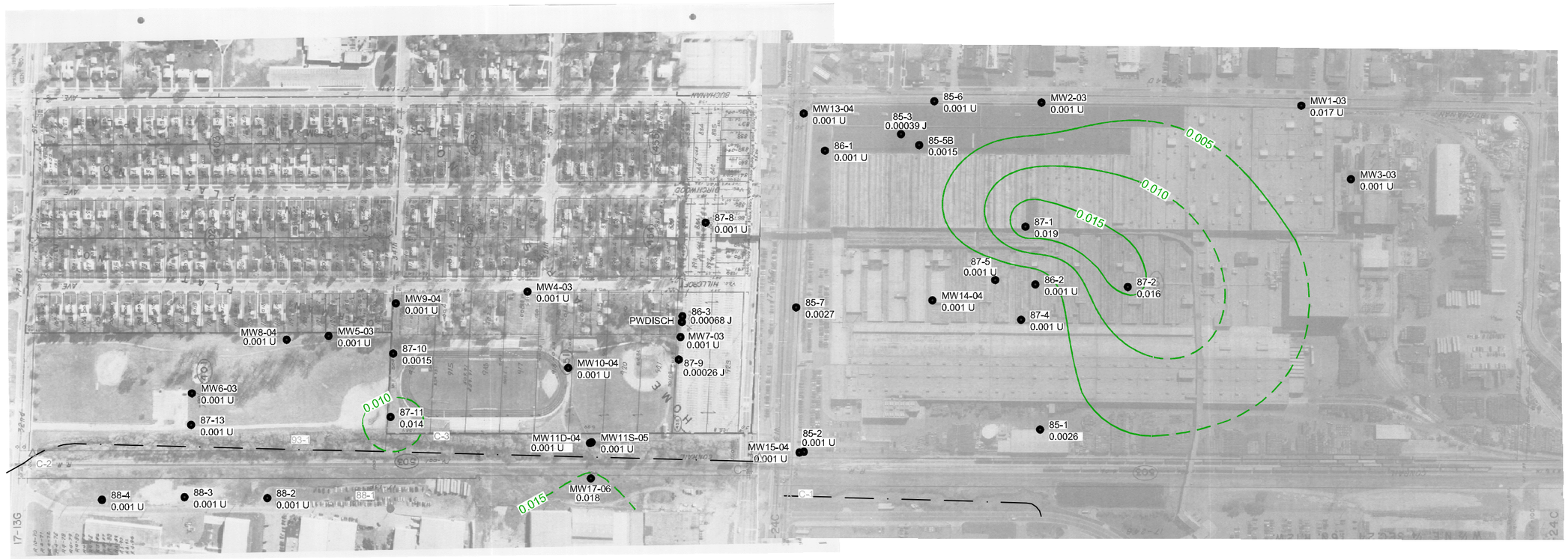
- MW6-03 — MONITORING WELL LOCATION
- PWDISCH — PURGE WELL LOCATION
- X-10 — DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 — CULVERT LOCATION
- 0.020 — TETRACHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- -0.020 — INFERRED TETRACHLOETHENE CONCENTRATION CONTOUR LINE (mg/L)
- COLE DRAIN

Parameter	Criteria (mg/L) (1)
Tetrachloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 4

TETRACHLOROETHENE ISOCONTOURS - OCTOBER 2009
GRAND RAPIDS METAL PLANT
Wyoming, Michigan



LEGEND

- MW6-03 — MONITORING WELL LOCATION
- PWDISCH — PURGE WELL LOCATION
- X-10 — DESTROYED/REMOVED MONITORING WELL LOCATION
- C-2 — CULVERT LOCATION
- 0.005 — CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- ·0.005· — INFERRED CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- COLE DRAIN

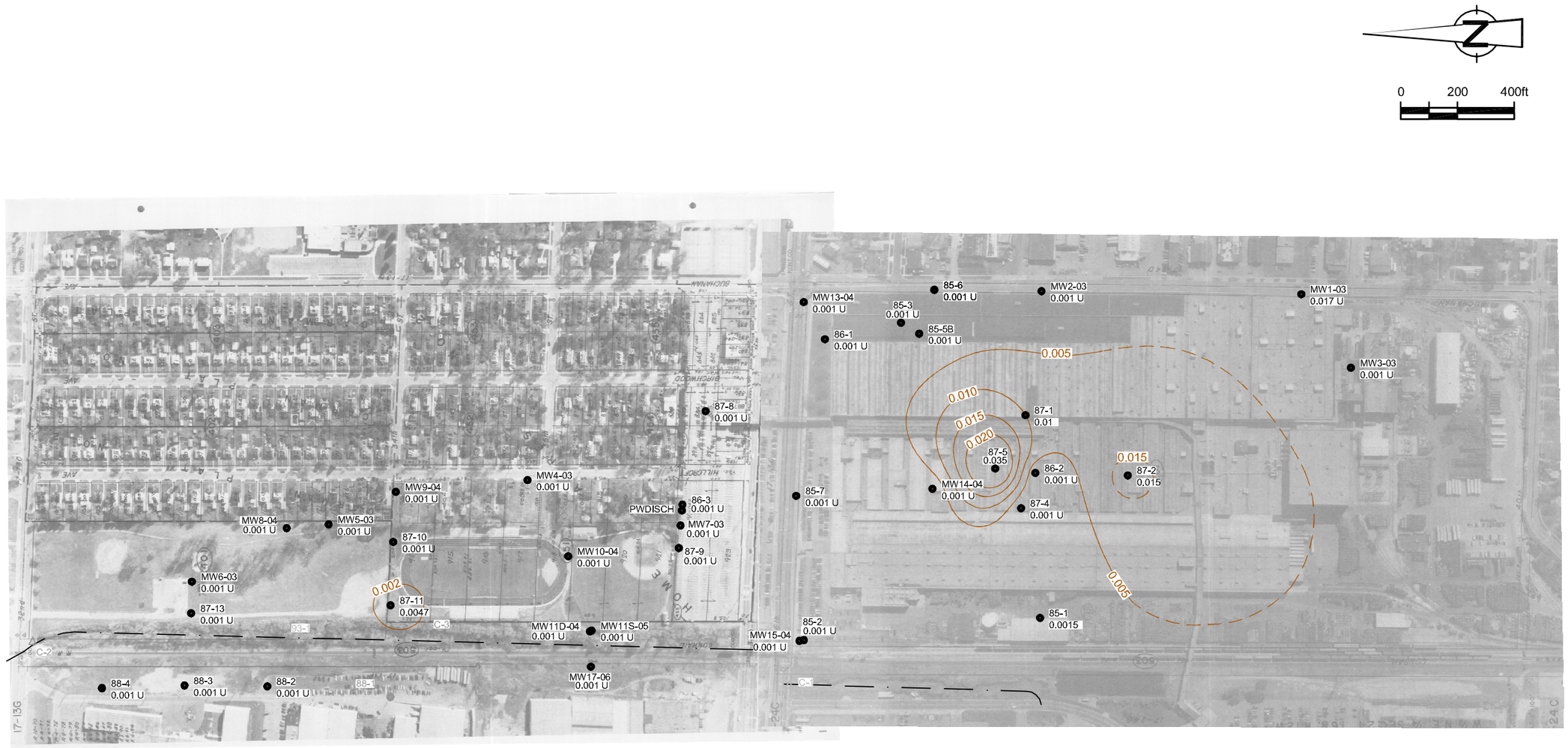
Parameter	Criteria (mg/L) (1)
Cis-1,2-Dichloroethene	0.070

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 5

CIS-1,2-DICHLOROETHENE ISOCONTOURS - OCTOBER 2009
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-10(STRI012)GN-DE005 FEB 26/2010



LEGEND

- MW6-03 — MONITORING WELL LOCATION
- PWDISCH — PURGE WELL LOCATION
- X-10 — DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 — CULVERT LOCATION
- ——0.020—— VINYL CHLORIDE CONCENTRATION CONTOUR LINE (mg/L)
- — — —0.020— — INFERRED VINYL CHLORIDE CONCENTRATION CONTOUR (mg/L)
- —— · —— COLE DRAIN

Parameter	Criteria (mg/L) (1)
Vinyl Chloride	0.002

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 6

VINYL CHLORIDE ISOCONTOURS - OCTOBER 2009
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Identification	*Sample Location*	*Matrix*	*QC Sample*	*Analysis*
GW-17360-100609-DR-276	C-1	Water		1
GW-17360-100609-DR-277	C-1	Water	Duplicate (-276)	1
GW-17360-100609-DR-278	C-2	Water		1
GW-17360-100609-DR-279	C-3	Water		1
GW-17360-100609-DR-280	MW17-06	Water	MS/MSD	1
GW-17360-100609-DR-281	85-7	Water		1
GW-17360-100609-DR-282	MW15-04	Water		1
GW-17360-100609-DR-283	85-2	Water		1
GW-17360-100609-DR-284	87-9	Water		1
GW-17360-100609-DR-285	MW7-03	Water		1
GW-17360-100609-DR-286	86-3	Water		1
GW-17360-100609-DR-287	87-8	Water		1
GW-17360-100609-DR-288	MW2-03	Water		1
GW-17360-100609-DR-289	MW1-03	Water		1
TB-17360-100609	Trip Blank	Water		1
GW-17360-100609-DR-290	85-6	Water		2
GW-17360-100609-DR-291	85-6	Water	Duplicate (-290)	2
TB-17360-100709	Trip Blank	Water		1
GW-17360-100709-DR-292	85-5B	Water		2
GW-17360-100709-DR-293	85-3	Water		2
GW-17360-100709-DR-294	86-1	Water		2
GW-17360-100709-DR-295	MW13-04	Water		1
GW-17360-100709-DR-296	MW14-04	Water		1
GW-17360-100709-DR-297	87-5	Water		1
GW-17360-100709-DR-298	86-2	Water		1
GW-17360-100709-DR-299	87-4	Water		1
GW-17360-100709-DR-300	87-2	Water		1
GW-17360-100709-DR-301	87-1	Water		1
GW-17360-100709-DR-302	MW3-03	Water		1
GW-17360-100709-DR-303	85-1	Water		1
GW-17360-100809-DR-304	88-2	Water		1
GW-17360-100809-DR-305	88-3	Water		1
GW-17360-100809-DR-306	88-3	Water	Duplicate (-305)	1
GW-17360-100809-DR-307	88-4	Water		1
GW-17360-100809-DR-308	87-10	Water		1
GW-17360-100809-DR-309	87-11	Water	MS/MSD	1
GW-17360-100809-DR-310	87-13	Water		1
GW-17360-100809-DR-311	MW6-03	Water		1
GW-17360-100809-DR-312	MW9-04	Water		1
GW-17360-100809-DR-313	MW8-04	Water		1
GW-17360-100809-DR-314	MW5-03	Water		1
GW-17360-100809-DR-315	MW4-03	Water		1
GW-17360-100809-DR-316	MW11D-04	Water		1
GW-17360-100809-DR-317	MW11S-05	Water		1
GW-17360-100809-DR-318	MW10-04	Water		1
GW-17360-100809-DR-319	MW10-04	Water	Duplicate (-318)	1

Notes:

TCL - Target Compound List
VOC - Volatile Organic Compounds
SVOC - Semi-Volatile Organic Compounds
QC - Quality Control
MS/MSD - Matrix Spike /Matrix Spike Duplicate
1 - Sampling analysis includes TCL VOCs.
2 - Sampling analysis includes TCL SVOCS and TCL VOCs.

TABLE 2

STATIC WATER LEVELS AND FREE PRODUCT THICKNESS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Location Identification	*Thickness of Product (ft.)*	*Depth to Water (ft. BTOR)* [1]
85-1		15.71
85-2		13.55
85-3	[2]	20.98
85-5B	[2]	21.66
85-6	[2]	19.19
85-7		19.77
86-1	[2]	20.87
86-2		21.97
86-3		18.31
87-1		21.64
87-2		20.77
87-4		21.62
87-5		21.49
87-8		19.22
87-9		15.77
87-10		11.88
87-11		10.60
87-13		10.61
88-2		11.75
88-3		11.03
88-4		8.62
93-1		--
PWDISCH		20.25
C-1		5.35
C-2		7.95
C-3		--
MW1-03		18.02
MW2-03		20.04
MW3-03		14.91
MW4-03		22.51
MW5-03		20.25
MW6-03		12.08
MW7-03		17.11
MW8-04		19.60
MW9-04		21.97
MW10-04		9.39
MW11D-04		6.37
MW11S-05		6.78
MW13-04		18.79
MW14-04		21.88
MW15-04		13.68
MW17-06		7.34

Notes:

[1] Depth to water measurements collected on October 6, 2009
[2] No product was observed in the wells.
- - No water level measurement was taken.
ft. BTOR- Feet below top of riser

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Location	*Water Level (ft. BTOR)*	*Time (hours:minutes)*	*Purge Rate (mL/per min.)*	*pH (Units)*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mv)*	*DO (mg/L)*	*Turbidity (NTU)*
MW1-03	18.03	15:45	120	7.16	14.85	0.876	116	2.18	1.91
	18.03	15:50	120	7.14	14.95	0.877	114	2.15	NA
	18.03	15:55	120	7.14	14.82	0.876	115	2.22	1.45
MW2-03	20.05	15:00	120	7.13	15.31	1.760	101	2.31	2.93
	20.05	15:05	120	7.15	15.45	1.760	103	2.27	NA
	20.05	15:10	120	7.13	15.30	1.760	106	2.38	1.53
MW3-03	14.94	12:20	100	7.37	15.40	1.016	73	3.30	1.19
	14.94	12:25	100	7.34	15.40	1.019	74	3.31	NA
	14.94	12:30	100	7.33	15.40	1.016	75	3.31	2.10
MW4-03	22.52	13:20	150	7.31	16.20	1.680	115	3.49	1.31
	22.52	13:25	150	7.28	16.20	1.680	115	3.56	NA
	22.52	13:30	150	7.28	16.20	1.680	115	3.62	1.10
MW5-03	20.26	11:35	150	7.40	14.20	1.970	96	2.72	0.96
	20.26	11:40	150	7.37	14.30	1.970	96	2.70	NA
	20.26	11:45	150	7.37	14.30	1.960	95	2.65	1.34
MW6-03	12.08	10:50	150	7.67	13.70	1.442	51	4.33	0.92
	12.08	10:55	150	7.66	13.60	1.466	54	4.36	NA
	12.08	11:00	150	7.65	13.7	1.485	56	4.31	0.82
MW7-03	17.15	14:00	120	7.14	17.22	3.970	95	2.25	1.14
	17.15	14:05	120	7.15	17.33	3.980	98	2.28	NA
	17.15	14:10	120	7.16	17.27	3.990	104	2.24	0.98
MW8-04	19.60	11:20	150	7.54	14.00	2.050	60	3.73	0.57
	19.60	11:25	150	7.51	14.20	2.060	60	3.87	NA
	19.60	11:30	150	7.51	14.20	2.060	60	3.84	0.69

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Location	*Water Level (ft. BTOR)*	*Time (hours:minutes)*	*Purge Rate (mL/per min.)*	*pH (Units)*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mv)*	*DO (mg/L)*	*Turbidity (NTU)*
MW9-04	21.98	11:05	120	7.27	15.84	2.100	89	3.31	1.39
	21.98	11:10	120	7.27	15.85	2.090	89	3.30	NA
	21.98	11:15	120	7.31	15.74	2.090	90	3.35	0.45
MW10-04	9.41	13:45	150	7.38	15.50	1.630	98	0.74	0.83
	9.41	13:50	150	7.38	15.60	1.630	90	0.66	NA
	9.41	13:55	150	7.38	15.60	1.640	86	0.63	NA
	9.41	14:00	150	7.37	15.70	1.640	81	0.60	0.87
MW11S-05	6.81	13:45	100	7.19	17.41	1.680	30	0.16	1.43
	6.81	13:50	100	7.15	17.51	1.680	25	0.15	NA
	6.81	13:55	100	7.14	17.54	1.680	20	0.14	1.52
MW11D-04	6.40	13:30	120	7.50	14.95	1.990	32	0.20	1.33
	6.40	13:35	120	7.46	14.85	1.960	33	0.20	NA
	6.40	13:40	120	7.46	14.71	1.950	29	0.19	0.94
MW13-04	19.26	11:20	150	7.40	14.10	2.30	54	4.10	4.90
	19.26	11:25	150	7.39	14.10	2.31	57	3.86	NA
	19.26	11:30	150	7.40	14.20	2.30	59	3.84	1.73
MW14-04	21.9	8:10	150	7.26	17.80	1.491	30	0.56	1.04
	21.9	8:15	150	7.27	17.78	1.490	34	0.54	NA
	21.9	8:20	150	7.29	17.78	1.490	39	0.52	1.14
MW15-04	13.71	12:35	100	7.02	16.40	2.260	-43	0.56	8.21
	13.71	12:40	100	7.06	16.10	2.230	-31	0.53	6.26
	13.71	12:45	100	7.07	16.00	2.200	-20	0.55	5.30
	13.71	12:50	100	7.10	15.40	2.190	-9	0.62	4.60
	13.71	12:55	100	7.10	15.40	2.250	-8	0.63	NA
	13.71	13:00	100	7.07	15.20	2.320	-10	0.59	3.97
MW17-06	7.34	10:25	100	6.62	14.00	2.030	56	0.42	1.34
	7.34	10:30	100	6.75	14.10	2.040	52	0.33	NA
	7.34	10:35	100	6.82	14.10	2.040	48	0.26	NA
	7.34	10:40	100	6.88	14.10	2.050	39	0.25	NA
	7.34	10:45	100	6.92	14.10	2.050	31	0.22	NA
	7.34	10:50	100	***6.95***	14.10	2.060	11	0.21	NA
	7.34	10:55	100	6.97	14.10	2.060	-2	0.2	NA
	7.34	11:00	100	6.98	14.10	2.060	-6	0.19	0.71

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Location	*Water Level (ft. BTOR)*	*Time (hours:minutes)*	*Purge Rate (mL/per min.)*	*pH (Units)*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mv)*	*DO (mg/L)*	*Turbidity (NTU)*
85-1	15.85	12:55	120	7.20	13.97	0.905	-150	0.16	2.11
	15.85	13:00	120	7.17	13.91	0.900	-148	0.14	NA
	15.85	13:05	120	7.15	13.90	0.899	-147	0.14	1.77
85-2	13.58	13:15	100	6.97	15.40	2.640	-20	0.20	1.70
	13.58	13:20	100	6.95	15.40	2.620	-23	0.14	NA
	13.58	13:25	100	6.93	15.40	2.630	-25	0.13	NA
	13.58	13:30	100	6.92	15.40	2.630	-27	0.12	1.31
85-3	20.77	09:00	100	7.25	18.50	1.232	-161	0.16	5.47
	20.77	09:05	100	7.25	18.50	1.234	-166	0.16	4.08
	20.77	09:10	100	7.23	18.50	1.233	-170	0.15	3.32
85-5B	21.11	08:00	100	7.81	21.00	1.386	-146	0.25	3.14
	21.11	08:05	100	7.80	21.00	1.413	-177	0.2	NA
	21.11	08:10	100	7.73	21.10	1.447	-189	0.19	NA
	21.11	08:15	100	7.62	21.10	1.485	-193	0.15	NA
	21.11	08:20	100	7.49	21.20	1.550	-191	0.14	NA
	21.11	08:25	100	7.37	21.10	1.600	-184	0.13	NA
	21.11	08:30	100	7.31	21.10	1.630	-180	0.14	NA
	21.11	08:35	100	7.30	21.00	1.650	-177	0.14	2.63
85-6	19.16	15:30	150	7.50	14.70	2.240	56	3.61	20.6
	19.16	15:35	150	7.48	14.30	2.190	17	3.48	15.1
	19.16	15:40	150	7.46	14.20	2.140	9	3.73	13.5
	19.16	15:45	150	7.45	14.20	2.120	11	3.76	10.3
	19.16	15:50	150	7.43	14.20	2.120	9	3.70	9.63
	19.16	15:55	150	7.43	14.30	2.100	9	3.53	9.49
85-7	19.78	12:40	150	7.04	18.70	1.670	6	0.20	2.94
	19.78	12:45	150	7.03	18.66	1.670	2	0.20	NA
	19.78	12:50	150	7.04	18.67	1.670	-1	0.18	1.20
86-1	20.87	10:00	100	7.31	13.50	1.920	-28	2.53	32.80
	20.87	10:10	100	7.35	13.30	1.930	-25	2.65	16.50
	20.87	10:15	100	7.35	13.40	1.930	-23	2.29	13.10
	20.87	10:20	100	7.37	13.50	1.920	-20	2.46	9.91
	20.87	10:25	100	7.38	13.60	1.920	-18	2.04	7.20
	20.87	10:30	100	7.42	13.60	1.930	-15	2.02	7.32
	20.87	10:35	100	7.44	13.60	1.930	-13	2.16	7.16

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Location	*Water Level (ft. BTOR)*	*Time (hours:minutes)*	*Purge Rate (mL/per min.)*	*pH (Units)*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mv)*	*DO (mg/L)*	*Turbidity (NTU)*
86-2	21.97	9:20	100	7.31	19.41	1.390	-83	1.84	24.1
	21.97	9:25	100	7.32	19.41	1.390	-82	1.85	23.4
	21.97	9:30	100	7.34	19.43	1.392	-76	1.91	22.8
86-3	19.81	14:05	100	7.34	18.30	1.940	-136	0.22	1.72
	19.81	14:10	100	7.36	18.30	1.930	-146	0.17	NA
	19.81	14:15	100	7.38	18.20	1.920	-143	0.16	NA
	19.81	14:20	100	7.37	18.20	1.910	-139	0.15	1.25
87-1	21.68	12:00	120	7.33	21.49	1.640	-109	0.13	1.67
	21.68	12:05	120	7.30	21.51	1.650	-107	0.13	NA
	21.68	12:10	120	7.33	21.51	1.650	-105	0.12	0.76
87-2	21.2	11:20	100	7.44	18.08	1.282	-200	0.14	7.01
	21.2	11:25	100	7.42	18.04	1.285	-198	0.15	5.09
	21.2	11:30	100	7.43	18.12	1.284	-196	0.14	3.43
87-4	21.9	10:10	120	7.50	18.52	1.466	-104	1.78	5.53
	21.9	10:15	120	7.42	18.49	1.477	-82	2.48	4.50
	21.9	10:20	120	7.42	18.50	1.478	-84	2.59	4.16
	21.9	10:25	120	7.42	18.59	1.478	-77	2.54	3.64
87-5	21.71	8:50	120	6.87	18.96	1.189	-149	0.16	2.25
	21.71	8:55	120	6.89	19.05	1.178	-158	0.15	NA
	21.71	9:00	120	6.91	19.04	1.187	-161	0.15	NA
	21.71	9:05	120	6.89	19.12	1.192	-166	0.14	2.28

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Location	*Water Level (ft. BTOR)*	*Time (hours:minutes)*	*Purge Rate (mL/per min.)*	*pH (Units)*	*Temperature (°C)*	*Conductivity (mS/cm)*	*ORP (mv)*	*DO (mg/L)*	*Turbidity (NTU)*
87-8	19.22	14:40	100	7.53	16.5	2.320	44	2.01	1.03
	19.22	14:45	100	7.47	16.4	2.340	55	2.42	NA
	19.22	14:50	100	7.43	16.5	2.370	63	2.51	NA
	19.22	14:55	100	7.36	16.4	2.400	74	3.11	NA
	19.22	15:00	100	7.34	16.3	2.410	79	3.20	NA
	19.22	15:05	100	7.32	16.3	2.420	83	3.32	1.02
87-9	15.78	13:45	120	7.27	17.30	1.327	37	0.29	0.49
	15.78	13:50	120	7.30	17.30	1.330	36	0.44	NA
	15.78	13:55	120	7.28	17.27	1.332	39	0.46	0.42
	15.78	14:00	120	7.29	17.29	1.334	42	0.48	0.64
87-10	11.90	9:50	120	7.33	16.11	1.740	36	0.16	0.62
	11.90	9:55	120	7.33	16.16	1.740	37	0.15	NA
	11.90	10:00	120	7.30	16.22	1.730	37	0.15	0.87
87-11	10.65	10:15	100	7.36	15.09	1.710	-30	0.14	2.19
	10.65	10:20	100	7.36	15.27	1.710	-34	0.12	NA
	10.65	10:25	100	7.35	15.36	1.710	-37	0.12	2.31
87-13	10.61	10:10	150	7.27	14.00	2.010	-98	0.20	4.44
	10.61	10:15	150	7.20	14.00	2.040	-86	0.15	NA
	10.61	10:20	150	7.19	14.00	2.050	-81	0.14	NA
	10.61	10:25	150	7.26	14.00	2.140	-81	0.13	1.87
88-2	11.73	8:50	150	7.32	15.40	1.444	-3	0.27	1.06
	11.73	8:55	150	7.30	15.40	1.468	2	0.21	NA
	11.73	9:00	150	7.29	15.40	1.474	5	0.18	NA
	11.73	9:05	150	7.28	15.30	1.478	7	0.17	NA
	11.73	9:10	150	7.27	15.30	1.480	9	0.16	0.50
88-3	11.03	9:05	150	7.43	16.04	0.816	95	3.05	1.01
	11.03	9:10	150	7.45	15.96	0.815	97	3.07	NA
	11.03	9:15	150	7.50	16.06	0.818	96	3.10	1.17
88-4	8.83	9:35	150	7.57	15.50	2.830	-10	0.16	2.18
	8.83	9:40	150	7.60	15.40	2.830	-12	0.15	NA
	8.83	9:45	150	7.62	15.50	2.830	-14	0.15	2.36

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*85-1*	*85-2*	*85-3*	*85-5B*	*85-6*	*85-6*	*85-7*	*86-1*	*86-2*	*86-3*	*87-1*	*87-2*	*87-4*	*87-5*
Sample Identification (GW-17360-		*100709-DR-303*	*100609-DR-283*	*100709-DR-293*	*100709-DR-292*	*100609-DR-290*	*100609-DR-291*	*100609-DR-281*	*100709-DR-294*	*100709-DR-298*	*100609-DR-286*	*100709-DR-301*	*100709-DR-300*	*100709-DR-299*	*100709-DR-297*
Sample Date		*10/7/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/7/2009*	*10/7/2009*
Sample Type							*Duplicate*								
	Units														
Semi-Volatile Organic Compounds															
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	0.004 U	0.016 U	0.004 U	0.004 U	--	0.004 U	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	0.01 U	0.04 U	0.01 U	0.01 U	--	0.01 U	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	0.004 U	0.016 U	0.004 U	0.004 U	--	0.004 U	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	0.00061 J	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Acetophenone	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Anthracene	mg/L	--	--	0.005 U	0.00089 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Atrazine	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	0.01 U	0.04 U	0.01 U	0.01 U	--	0.01 U	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	0.001 U	0.0037 J	0.001 U	0.001 U	--	0.001 U	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	0.002 U	0.0038 J	0.002 U	0.002 U	--	0.002 U	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	0.002 U	0.0038 J	0.002 U	0.002 U	--	0.002 U	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	0.005 U	0.0032 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	0.005 U	0.0028 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	0.01 U	0.04 U	0.01 U	0.01 U	--	0.01 U	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	0.004 U	0.016 U	0.004 U	0.004 U	--	0.004 U	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	0.005 U	0.02 U	0.0013 J	0.0016 J	--	0.005 U	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Caprolactam	mg/L	--	--	0.01 U	0.04 U	0.01 U	0.01 U	--	0.01 U	--	--	--	--	--	--
Carbazole	mg/L	--	--	0.01 U	0.0018 J	0.01 U	0.01 U	--	0.01 U	--	--	--	--	--	--
Chrysene	mg/L	--	--	0.005 U	0.0041 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	0.002 U	0.008 U	0.002 U	0.002 U	--	0.002 U	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	0.00043 J	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	0.005 U	0.01 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Fluorene	mg/L	--	--	0.00049 J	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	0.002 U	0.0025 J	0.002 U	0.002 U	--	0.002 U	--	--	--	--	--	--
Isophorone	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Naphthalene	mg/L	--	--	0.00039 J	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	0.004 U	0.016 U	0.004 U	0.004 U	--	0.004 U	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	0.02 U	0.08 U	0.02 U	0.02 U	--	0.02 U	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	0.005 U	0.0063 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Phenol	mg/L	--	--	0.005 U	0.02 U	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Pyrene	mg/L	--	--	0.005 U	0.0072 J	0.005 U	0.005 U	--	0.005 U	--	--	--	--	--	--
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	0.001 U	0.0064	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.0011	0.001 U	0.001 U	0.001 U	0.001 U	0.00039 J	0.001 U	0.001 U	0.00022 J	0.0012	0.001 U	0.001 U	0.0037
1,1-Dichloroethene	mg/L	0.001 U	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00092 J	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*85-1*	*85-2*	*85-3*	*85-5B*	*85-6*	*85-6*	*85-7*	*86-1*	*86-2*	*86-3*	*87-1*	*87-2*	*87-4*	*87-5*
Sample Identification (GW-17360-		*100709-DR-303*	*100609-DR-283*	*100709-DR-293*	*100709-DR-292*	*100609-DR-290*	*100609-DR-291*	*100609-DR-281*	*100709-DR-294*	*100709-DR-298*	*100609-DR-286*	*100709-DR-301*	*100709-DR-300*	*100709-DR-299*	*100709-DR-297*
Sample Date		*10/7/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/6/2009*	*10/7/2009*	*10/7/2009*	*10/7/2009*	*10/7/2009*
Sample Type							*Duplicate*								
	Units														
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.0008 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.00017 J	0.00018 J	0.001 U	0.00042 J	0.00053 J	0.001 U	0.001 U	0.001 U	0.00025 J	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.0026	0.001 U	0.00039 J	0.0015	0.001 U	0.001 U	0.0027	0.001 U	0.001 U	0.00068 J	0.019	0.016	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.00042 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.0031 J	0.0016 J	0.0012 J	0.0013 J	0.005 U	0.005 U	0.005 U	0.0029 J	0.00019 J	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.00064 J	0.001 U	0.0013	0.0013	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00038 J	0.001 U	0.001 U	0.001 U	0.0034	0.0033	0.001 U	0.0039
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.0012	0.00028 J	0.001 U	0.001 U	0.001 U	0.0025	0.001 U	0.0061	0.0043	0.021	0.011	0.0057	0.00043 J
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.0015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01	0.015	0.001 U	0.035
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.0014 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*87-8*	*87-9*	*87-10*	*87-11*	*87-13*	*88-2*	*88-3*	*88-3*	*88-4*	*C-1*	*C-1*	*C-2*	*C-3*	*MW1-03*
Sample Identification (GW-17360-		*100609-DR-287*	*100609-DR-284*	*100809-DR-308*	*100809-DR-309*	*100809-DR-310*	*100809-DR-304*	*100809-DR-305*	*100809-DR-306*	*100809-DR-307*	*100609-DR-276*	*100609-DR-277*	*100609-DR-278*	*100609-DR-279*	*100609-DR-289*
Sample Date		*10/6/2009*	*10/6/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*
Sample Type									*Duplicate*			*Duplicate*			
	Units														
Semi-Volatile Organic Compounds															
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.0014	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00023 J	0.017 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.00036 J	0.00088 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.0003 J	0.00029 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*87-8*	*87-9*	*87-10*	*87-11*	*87-13*	*88-2*	*88-3*	*88-3*	*88-4*	*C-1*	*C-1*	*C-2*	*C-3*	*MW1-03*
Sample Identification (GW-17360-		*100609-DR-287*	*100609-DR-284*	*100809-DR-308*	*100809-DR-309*	*100809-DR-310*	*100809-DR-304*	*100809-DR-305*	*100809-DR-306*	*100809-DR-307*	*100609-DR-276*	*100609-DR-277*	*100609-DR-278*	*100609-DR-279*	*100609-DR-289*
Sample Date		*10/6/2009*	*10/6/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/6/2009*
Sample Type									*Duplicate*			*Duplicate*			
	Units														
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.42 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.83 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.83 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.42 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Bromodichloromethane	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.00032 J	0.00031 J	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.00066 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.0005 J	0.001 U	0.00017 J	0.001 U	0.001 U	0.00063 J	0.00067 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.00026 J	0.0015	0.014	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011	0.0011	0.0016	0.0026	0.017 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00055 J	0.00055 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Methyl acetate	mg/L	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.17 UJ
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Methyl Tert Butyl Ether	mg/L	0.00029 J	0.005 U	0.0081	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00032 J	0.005 U	0.083 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Tetrachloroethene	mg/L	0.00029 J	0.001 U	0.00038 J	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0041	0.0043	0.0017	0.0046	0.48
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.00024 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Trichloroethene	mg/L	0.001 U	0.0016	0.01	0.035 J	0.0011	0.001 U	0.001 U	0.001 U	0.001 U	0.0009 J	0.001	0.0011	0.0013	0.007 J
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.0047	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00024 J	0.00062 J	0.017 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.033 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*MW2-03*	*MW3-03*	*MW4-03*	*MW5-03*	*MW6-03*	*MW7-03*	*MW8-04*	*MW9-04*	*MW10-04*	*MW10-04*	*MW11D-04*	*MW11S-05*	*MW13-04*	*MW14-04*
Sample Identification (GW-17360-		*100609-DR-288*	*100709-DR-302*	*100809-DR-315*	*100809-DR-314*	*100809-DR-311*	*100609-DR-285*	*100809-DR-313*	*100809-DR-312*	*100809-DR-318*	*100809-DR-319*	*100809-DR-316*	*100809-DR-317*	*100709-DR-295*	*100709-DR-296*
Sample Date		*10/6/2009*	*10/7/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/6/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/7/2009*	*10/7/2009*
Sample Type											*Duplicate*				
	Units														
Semi-Volatile Organic Compounds															
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 J	0.001 U	0.001 U	0.0005 J	0.0005 J	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00053 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*MW2-03*	*MW3-03*	*MW4-03*	*MW5-03*	*MW6-03*	*MW7-03*	*MW8-04*	*MW9-04*	*MW10-04*	*MW10-04*	*MW11D-04*	*MW11S-05*	*MW13-04*	*MW14-04*
Sample Identification (GW-17360-		*100609-DR-288*	*100709-DR-302*	*100809-DR-315*	*100809-DR-314*	*100809-DR-311*	*100609-DR-285*	*100809-DR-313*	*100809-DR-312*	*100809-DR-318*	*100809-DR-319*	*100809-DR-316*	*100809-DR-317*	*100709-DR-295*	*100709-DR-296*
Sample Date		*10/6/2009*	*10/7/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/6/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/8/2009*	*10/7/2009*	*10/7/2009*
Sample Type											*Duplicate*				
	Units														
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.00049 J	0.00062 J	0.001 U	0.001 U	0.001 U	0.00017 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.0018	0.0022	0.00028 J	0.00082 J	0.001 U	0.0014	0.00021 J	0.00022 J	0.0014	0.0015	0.00016 J	0.001 U	0.00044 J	0.00033 J
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.0048 J	0.0035 J	0.005 U	0.005 U	0.0023 J	0.0019 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.0093	0.0012	0.00062 J	0.00049 J	0.001 U	0.001 U	0.001 U	0.00038 J	0.001 U	0.001 U	0.00048 J	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.00056 J	0.0012	0.001 U	0.00066 J	0.00039 J	0.00041 J	0.0015	0.0015	0.0021	0.00049 J	0.001 U	0.0028
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*MW15-04*	*MW17-06*	*Trip Blank*	*Trip Blank*
Sample Identification (GW-17360-		*100609-DR-282*	*100609-DR-280*	*TB-17360-100609*	*TB-17360-100709*
Sample Date		*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/7/2009*
Sample Type					
	Units				
Semi-Volatile Organic Compounds					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--
Acenaphthene	mg/L	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--
Acetophenone	mg/L	--	--	--	--
Anthracene	mg/L	--	--	--	--
Atrazine	mg/L	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--
Caprolactam	mg/L	--	--	--	--
Carbazole	mg/L	--	--	--	--
Chrysene	mg/L	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--
Fluoranthene	mg/L	--	--	--	--
Fluorene	mg/L	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--
Isophorone	mg/L	--	--	--	--
Naphthalene	mg/L	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--
Phenanthrene	mg/L	--	--	--	--
Phenol	mg/L	--	--	--	--
Pyrene	mg/L	--	--	--	--
Volatile Organic Compounds					
1,1,1-Trichloroethane	mg/L	0.0063	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.00077 J	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.00028 J	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U

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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*MW15-04*	*MW17-06*	*Trip Blank*	*Trip Blank*
Sample Identification (GW-17360-		*100609-DR-282*	*100609-DR-280*	*TB-17360-100609*	*TB-17360-100709*
Sample Date		*10/6/2009*	*10/6/2009*	*10/6/2009*	*10/7/2009*
Sample Type					
	Units				
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 UJ	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.0033 J	0.0031 J
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.018	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.025	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.00058 J	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Trichloroethene	mg/L	0.0017	0.0055	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Trifluorotrichloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

ATTACHMENT A

ANALYTICAL DATA

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 17360-10

GM GRAND RAPIDS SSOW# E030020
SDG #: 9J07288

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TESTAMERICA LABORATORIES, INC.

Denise D. Heckler
Project Manager

October 30, 2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CASE NARRATIVE

9J07288

The following report contains the analytical results for forty-four water samples and two quality control samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the GM GRAND RAPIDS SSOW# E030020 Site, project number 17360-10. The samples were received October 07, 2009 and October 09, 2009, according to documented sample acceptance procedures.

This SDG consists of (2) laboratory ID's: A9J070288 and A9J090242.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.2 and 2.9°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for GW-17360-100609-DR-280 and GW-17360-100809-DR-309 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 9292286 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GC/MS SEMIVOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES (continued)

The matrix spike/matrix spike duplicate(s) for batch(es) 9283014 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) GW-17360-100709-DR-292 had elevated reporting limits due to matrix interferences.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100609-DR-276 10/06/09 10:30 001				
cis-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.1	1.0	ug/L	SW846 8260B
Trichloroethene	0.90 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-277 10/06/09 10:35 002				
cis-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.3	1.0	ug/L	SW846 8260B
Trichloroethene	1.0	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-278 10/06/09 10:40 003				
cis-1,2-Dichloroethene	1.6	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.32 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.7	1.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
Vinyl chloride	0.24 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-279 10/06/09 10:50 004				
cis-1,2-Dichloroethene	2.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.6	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.23 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
Vinyl chloride	0.62 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-280 10/06/09 11:00 005				
cis-1,2-Dichloroethene	18	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.58 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	25	1.0	ug/L	SW846 8260B
Trichloroethene	5.5	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-281 10/06/09 12:50 006				
1,1-Dichloroethane	0.39 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.7	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.5	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100609-DR-282 10/06/09 13:00 007				
1,1-Dichloroethane	0.77 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.28 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	6.3	1.0	ug/L	SW846 8260B
Trichloroethene	1.7	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-283 10/06/09 13:30 008				
1,1-Dichloroethane	1.1	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.40 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	6.4	1.0	ug/L	SW846 8260B
Trichloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-284 10/06/09 14:00 009				
Chloroform	0.50 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.26 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-285 10/06/09 14:10 010				
Bromodichloromethane	0.17 J	1.0	ug/L	SW846 8260B
Chloroform	1.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.40 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.66 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-286 10/06/09 14:20 011				
1,1-Dichloroethane	0.22 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.68 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.9 J	5.0	ug/L	SW846 8260B
Trichloroethene	4.3	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-287 10/06/09 15:05 012				
Methyl tert-butyl ether	0.29 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.29 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-288 10/06/09 15:10 013				
Bromodichloromethane	0.49 J	1.0	ug/L	SW846 8260B
Chloroform	1.8	1.0	ug/L	SW846 8260B
Tetrachloroethene	9.3	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100609-DR-289 10/06/09 15:55 014				
Methylene chloride	15 J,B	83	ug/L	SW846 8260B
Tetrachloroethene	480	17	ug/L	SW846 8260B
Trichloroethene	7.0 J	17	ug/L	SW846 8260B
TB-17360-100609 10/06/09 015				
Acetone	3.3 J	25	ug/L	SW846 8260B
GW-17360-100609-DR-290 10/06/09 16:00 016				
bis(2-Ethylhexyl) phthalate	1.3 J	5.0	ug/L	SW846 8270C
Chloroform	0.17 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.2 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.3	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-291 10/06/09 16:05 017				
bis(2-Ethylhexyl) phthalate	1.6 J	5.0	ug/L	SW846 8270C
Chloroform	0.18 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.3 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.3	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TB-17360-100709 10/07/09 001				
Acetone	3.1 J	25	ug/L	SW846 8260B
GW-17360-100709-DR-292 10/07/09 08:35 002				
Anthracene	0.89 J	20	ug/L	SW846 8270C
Benzo(a)anthracene	3.7 J	4.0	ug/L	SW846 8270C
Benzo(a)pyrene	3.8 J	8.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	3.8 J	8.0	ug/L	SW846 8270C
Benzo(ghi)perylene	3.2 J	20	ug/L	SW846 8270C
Benzo(k)fluoranthene	2.8 J	20	ug/L	SW846 8270C
Carbazole	1.8 J	40	ug/L	SW846 8270C
Chrysene	4.1 J	20	ug/L	SW846 8270C
Fluoranthene	10 J	20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	2.5 J	8.0	ug/L	SW846 8270C
Phenanthrene	6.3 J	20	ug/L	SW846 8270C
Pyrene	7.2 J	20	ug/L	SW846 8270C
Acetone	4.8 J	25	ug/L	SW846 8260B
2-Butanone	0.80 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SW846 8260B
Ethylbenzene	0.20 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.42 J	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.6 J	5.0	ug/L	SW846 8260B
Xylenes (total)	1.4 J	2.0	ug/L	SW846 8260B
GW-17360-100709-DR-293 10/07/09 09:10 003				
Acenaphthene	0.61 J	5.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	1.9 J,B	5.0	ug/L	SW846 8270C
Dibenzofuran	0.43 J	5.0	ug/L	SW846 8270C
Fluorene	0.49 J	5.0	ug/L	SW846 8270C
Naphthalene	0.39 J	5.0	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.39 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	3.1 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.64 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.28 J	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-294 10/07/09 10:35 004				
Chloroform	0.42 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100709-DR-295 10/07/09 11:30 005				
Chloroform	0.44 J	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-296 10/07/09 08:20 006				
Chloroform	0.33 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.8	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-297 10/07/09 09:05 007				
1,1-Dichloroethane	3.7	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.9	1.0	ug/L	SW846 8260B
Trichloroethene	0.43 J	1.0	ug/L	SW846 8260B
Vinyl chloride	35	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-298 10/07/09 09:30 008				
Chloroform	0.53 J	1.0	ug/L	SW846 8260B
Trichloroethene	6.1	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-299 10/07/09 10:25 009				
Chloroform	0.25 J	1.0	ug/L	SW846 8260B
Trichloroethene	5.7	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-300 10/07/09 11:30 010				
cis-1,2-Dichloroethene	16	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.3	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B
Vinyl chloride	15	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-301 10/07/09 12:10 011				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.92 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	19	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.4	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.19 J	5.0	ug/L	SW846 8260B
Trichloroethene	21	1.0	ug/L	SW846 8260B
Vinyl chloride	10	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100709-DR-302 10/07/09 12:30 012				
Bromodichloromethane	0.62 J	1.0	ug/L	SW846 8260B
Chloroform	2.2	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-303 10/07/09 13:05 013				
cis-1,2-Dichloroethene	2.6	1.0	ug/L	SW846 8260B
Vinyl chloride	1.5	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-305 10/08/09 09:15 015				
Bromodichloromethane	0.32 J	1.0	ug/L	SW846 8260B
Chloroform	0.63 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.55 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-306 10/08/09 09:20 016				
Bromodichloromethane	0.31 J	1.0	ug/L	SW846 8260B
Chloroform	0.67 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.55 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-308 10/08/09 10:00 018				
1,1-Dichloroethane	0.36 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.30 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	8.1	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	10	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-309 10/08/09 10:25 019				
Chloroform	0.17 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.88 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.29 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	14	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.24 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.4	1.0	ug/L	SW846 8260B
Trichloroethene	35	1.0	ug/L	SW846 8260B
Vinyl chloride	4.7	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100809-DR-310 10/08/09 10:30 020				
Carbon disulfide	0.66 J	5.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-312 10/08/09 11:15 022				
Chloroform	0.22 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.9 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.41 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-313 10/08/09 11:30 023				
Chloroform	0.21 J	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	0.53 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.3 J	5.0	ug/L	SW846 8260B
Trichloroethene	0.39 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-314 10/08/09 11:45 024				
Chloroform	0.82 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	3.5 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.49 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-315 10/08/09 13:30 025				
Chloroform	0.28 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	4.8 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.62 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.56 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-316 10/08/09 13:40 026				
Chloroform	0.16 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.48 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.1	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-317 10/08/09 13:55 027				
Trichloroethene	0.49 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-100809-DR-318 10/08/09 14:00 028				
Chloroform	1.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-319 10/08/09 14:05 029				
Chloroform	1.5	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

9J07288

PARAMETER	ANALYTICAL METHOD
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SAMPLE SUMMARY

SAMPLE SUMMARY

9J07288 : A9J070288

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LL50T	001	GW-17360-100609-DR-276	10/06/09	10:30
LL50X	002	GW-17360-100609-DR-277	10/06/09	10:35
LL500	003	GW-17360-100609-DR-278	10/06/09	10:40
LL501	004	GW-17360-100609-DR-279	10/06/09	10:50
LL502	005	GW-17360-100609-DR-280	10/06/09	11:00
LL503	006	GW-17360-100609-DR-281	10/06/09	12:50
LL505	007	GW-17360-100609-DR-282	10/06/09	13:00
LL507	008	GW-17360-100609-DR-283	10/06/09	13:30
LL51M	009	GW-17360-100609-DR-284	10/06/09	14:00
LL51N	010	GW-17360-100609-DR-285	10/06/09	14:10
LL51P	011	GW-17360-100609-DR-286	10/06/09	14:20
LL51R	012	GW-17360-100609-DR-287	10/06/09	15:05
LL51W	013	GW-17360-100609-DR-288	10/06/09	15:10
LL51X	014	GW-17360-100609-DR-289	10/06/09	15:55
LL511	015	TB-17360-100609	10/06/09	
LL512	016	GW-17360-100609-DR-290	10/06/09	16:00
LL513	017	GW-17360-100609-DR-291	10/06/09	16:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

9J07288 : A9J090242

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LMAM0	001	TB-17360-100709	10/07/09	
LMAM3	002	GW-17360-100709-DR-292	10/07/09	08:35
LMAM4	003	GW-17360-100709-DR-293	10/07/09	09:10
LMAM5	004	GW-17360-100709-DR-294	10/07/09	10:35
LMAM6	005	GW-17360-100709-DR-295	10/07/09	11:30
LMAM7	006	GW-17360-100709-DR-296	10/07/09	08:20
LMAM9	007	GW-17360-100709-DR-297	10/07/09	09:05
LMANC	008	GW-17360-100709-DR-298	10/07/09	09:30
LMANF	009	GW-17360-100709-DR-299	10/07/09	10:25
LMANG	010	GW-17360-100709-DR-300	10/07/09	11:30
LMANJ	011	GW-17360-100709-DR-301	10/07/09	12:10
LMANL	012	GW-17360-100709-DR-302	10/07/09	12:30
LMANN	013	GW-17360-100709-DR-303	10/07/09	13:05
LMANQ	014	GW-17360-100809-DR-304	10/08/09	09:10
LMANV	015	GW-17360-100809-DR-305	10/08/09	09:15
LMANX	016	GW-17360-100809-DR-306	10/08/09	09:20
LMAN1	017	GW-17360-100809-DR-307	10/08/09	09:45
LMAN2	018	GW-17360-100809-DR-308	10/08/09	10:00
LMAN3	019	GW-17360-100809-DR-309	10/08/09	10:25
LMAPW	020	GW-17360-100809-DR-310	10/08/09	10:30
LMAP1	021	GW-17360-100809-DR-311	10/08/09	11:00
LMAP4	022	GW-17360-100809-DR-312	10/08/09	11:15
LMAP7	023	GW-17360-100809-DR-313	10/08/09	11:30
LMAQA	024	GW-17360-100809-DR-314	10/08/09	11:45
LMAQC	025	GW-17360-100809-DR-315	10/08/09	13:30
LMAQE	026	GW-17360-100809-DR-316	10/08/09	13:40
LMAQJ	027	GW-17360-100809-DR-317	10/08/09	13:55
LMAQL	028	GW-17360-100809-DR-318	10/08/09	14:00
LMAQN	029	GW-17360-100809-DR-319	10/08/09	14:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING AND RECEIVING DOCUMENTS

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 2

ID # Nº D 6115

SSOW Ref. Code: EO30020-R1-

Required Client Information:

Company: CRA, Inc.	Report To: P. Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GM-Grand Rapids
Fax: 734-453-5201	Project Number: 17360-10
Email:	

Laboratory: TESTAMERICA	
Laboratory Location: N. Canton, OH	
Laboratory Contact: D. Heckler	
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	MS/MSD	Remarks/Lab ID
1.	GW-17360-100609-DR-276	WG	10/6/09	1030	3		3					V		
2.	-277			1035	3		3					V		
3.	-278			1040	3		3					V		
4.	-279			1050	3		3					V		
5.	-280			1100	9		9					V	X	
6.	-281			1250	3		3					V		
7.	-282			1300	3		3					V		
8.	-283			1330	3		3					V		
9.	-284			1400	3		3					V		
10.	-285			1410	3		3					V		
11.	-286			1420	3		3					V		
12.	-287			1505	3		3					V		
13.	-288			1510	3		3					V		
14.	-289			1555	3		3					V		
15.	TB-17360-100609	WQ		—	1		1					V		
	TOTAL NUMBER OF CONTAINERS				49									

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED EX	1	D Rivers / CRA	10/6/09	1800	Chris Lyal	10/7/09	9:15
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: D. Rivers / J York

Sampler Signature: Date: 10/6/09

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 2 OF 2

ID # Nº D 6085

SSOW Ref. Code: E030020-R1

Required Client Information:

Company: CRA, Inc.	Report To: P. Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GM-Grand Rapids
Fax: 734-453-5201	Project Number: 17360-10
Email:	

Laboratory:	TEST AMERICA
Laboratory Location:	N. Canton, OH
Laboratory Contact:	D. Healey
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	TCL SVOCs	Remarks/Lab ID
1.	GW-17360-100609-DR-290	WG	10/6/09	1600	5	2	3					X	X	
2.	" " " " -291	WG	"	1605	5	2	3					X	X	
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														
	TOTAL NUMBER OF CONTAINERS				10									

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	D Rivers / CRA	10/6/09	1800		10/7/09	9:15
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: D Rivers / J. Yorick

Sampler Signature: Date: 10/6/09

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 440070288
North Canton Facility

Client CRA Project GM GRAND RAPIDS By: (Signature)
Cooler Received on 10/7/09 Opened on 10/7/09
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # 241-926 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☒ None ☐ Other
6. Cooler temperature upon receipt 2.6 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 031909-HNO_3; *Sulfuric Acid Lot#* 100108-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 2

ID # Nº D 6148

SSOW Ref. Code: E030020-R1

Required Client Information:

Company: CRA, Inc.	Report To: P. Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GM-Grand Rapids
Fax: 734-453-5201	Project Number: 17360-70
Email:	

Laboratory:	TEST AMERICA
Laboratory Location:	N. Canton, OH
Laboratory Contact:	D. Heckler
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	TCL SVOCs	Remarks/Lab ID
1.	TB-17360-100709	WQ	10/7/09	—	1	1						X		
2.	GW-17360-100709-DR-292	WG		835	5	2	3					X	X	
3.	-293			910	5	2	3					X	X	
4.	-294			1035	5	2	3					X	X	
5.	-295			1130	3		3					X		
6.	-296			820	3		3					X		
7.	-297			905	3		3					X		
8.	-298			930	3		3					X		
9.	-299			1025	3		3					X		
10.	-300			1130	3		3					X		
11.	-301			1240	3		3					X		
12.	-302			1230	3		3					X		
13.	-303			1305	3		3					X		
14.	-100809-DR-304		10/8/09	910	3		3					X		
15.	-305			915	3		3					X		
	TOTAL NUMBER OF CONTAINERS				49									

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED EX	1	D Rivers/CRA	10/8/09	1500		10/9/09	9:20
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: D. Rivers; J. York

Sampler Signature: D Rivers Date: 10/8/09

North Canton

Distribution: WHITE - Fully Executed Copy; YELLOW - Receiving Laboratory Copy; PINK - Shipper; GOLDENROD - Sampler Copy

REV. 0 (6.04)

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 2 OF 2

ID # Nº D 6149

SSOW Ref. Code: E03002a-R1

Required Client Information:

Company: CRA, Inc.	Report To: P. Wiseman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GM - Grand Rapids
Fax: 734-453-5201	Project Number: 17360-10
Email:	

Laboratory:	TEST AMERICA
Laboratory Location:	N. Canton, OH
Laboratory Contact:	D. Hedtler
Requested Due Date:	TAT: STD
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method: TCL VOCs	MS/MSD	Remarks/Lab ID
1.	GW-17360-100809-DR-306	WG	10/8/09	920	3		3					Y		
2.	-307			945	3		3					Y		
3.	-308			1000	3		3					Y		
4.	-309			1025	9		9					X	X	
5.	-310			1030	3		3					X		
6.	-311			1100	3		3					X		
7.	-312			1115	3		3					X		
8.	-313			1130	3		3					X		
9.	-314			1145	3		3					X		
10.	-315			1330	3		3					X		
11.	-316			1340	3		3					X		
12.	-317			1355	3		3					X		
13.	-318			1400	3		3					X		
14.	-319			1405	3		3					X		
15.														
	TOTAL NUMBER OF CONTAINERS				42									

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED EX	1	D Rivers / CRA	10/8/09	1500			
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: D Rivers; J. York

Sampler Signature: D Rivers Date: 10/8/09

North Canton

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: AJ090242

Client CRA Project GM Grand Rapids By: (Signature)

Cooler Received on 10/9/09 Opened on 10/9/09

FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other

TestAmerica Cooler # Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 031909-HNO_3; Sulfuric Acid Lot# 082509-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
241-820	2.2	IR	ice
241-1004	2.9	"	"

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMS VOLATILE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-276

GC/MS Volatiles

Lot-Sample #...: A9J070288-001 **Work Order #...:** LL50T1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 10:30 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**1.1**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-276

GC/MS Volatiles

Lot-Sample #...: A9J070288-001 **Work Order #...:** LL50T1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**4.1**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.90 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-277

GC/MS Volatiles

Lot-Sample #...: A9J070288-002 **Work Order #...:** LL50X1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 10:35 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**1.1**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-277

GC/MS Volatiles

Lot-Sample #...: A9J070288-002 **Work Order #...:** LL50X1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**4.3**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.0**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-278

GC/MS Volatiles

Lot-Sample #...: A9J070288-003 **Work Order #...:** LL5001AA **Matrix.....:** WG
Date Sampled...: 10/06/09 10:40 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**1.6**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**0.32 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-278

GC/MS Volatiles

Lot-Sample #...: A9J070288-003 **Work Order #...:** LL5001AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**1.7**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.1**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**0.24 J**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-279

GC/MS Volatiles

Lot-Sample #...: A9J070288-004 **Work Order #...:** LL5011AA **Matrix.....:** WG
Date Sampled...: 10/06/09 10:50 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**2.6**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-279

GC/MS Volatiles

Lot-Sample #...: A9J070288-004 **Work Order #...:** LL5011AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**4.6**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	**0.23 J**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.3**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**0.62 J**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-280

GC/MS Volatiles

Lot-Sample #...: A9J070288-005 **Work Order #...:** LL5021AA **Matrix.....:** WG
Date Sampled...: 10/06/09 11:00 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**18**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**0.58 J**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-280

GC/MS Volatiles

Lot-Sample #...: A9J070288-005 **Work Order #...:** LL5021AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**25**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**5.5**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-281

GC/MS Volatiles

Lot-Sample #...: A9J070288-006 **Work Order #...:** LL5031AA **Matrix.....:** WG
Date Sampled...: 10/06/09 12:50 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**0.39 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**2.7**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**0.38 J**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-281

GC/MS Volatiles

Lot-Sample #...: A9J070288-006 **Work Order #...:** LL5031AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**2.5**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-282

GC/MS Volatiles

Lot-Sample #...: A9J070288-007 **Work Order #...:** LL5051AA **Matrix.....:** WG
Date Sampled...: 10/06/09 13:00 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**0.77 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	**0.28 J**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-282

GC/MS Volatiles

Lot-Sample #...: A9J070288-007 **Work Order #...:** LL5051AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	**6.3**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.7**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-283

GC/MS Volatiles

Lot-Sample #...: A9J070288-008 **Work Order #...:** LL5071AA **Matrix.....:** WG
Date Sampled...: 10/06/09 13:30 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**1.1**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	**0.40 J**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-283

GC/MS Volatiles

Lot-Sample #...: A9J070288-008 **Work Order #...:** LL5071AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	**6.4**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.2**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-284

GC/MS Volatiles

Lot-Sample #...: A9J070288-009 **Work Order #...:** LL51M1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 14:00 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.50 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**0.26 J**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-284

GC/MS Volatiles

Lot-Sample #...: A9J070288-009 **Work Order #...:** LL51M1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.6**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-285

GC/MS Volatiles

Lot-Sample #...: A9J070288-010 **Work Order #...:** LL51N1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 14:10 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.17 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**1.4**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-285

GC/MS Volatiles

Lot-Sample #...: A9J070288-010 **Work Order #...:** LL51N1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	**0.40 J**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.66 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-286

GC/MS Volatiles

Lot-Sample #...: A9J070288-011 **Work Order #...:** LL51P1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 14:20 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**0.22 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**0.68 J**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**2.9 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-286

GC/MS Volatiles

Lot-Sample #...: A9J070288-011 **Work Order #...:** LL51P1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**4.3**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-287

GC/MS Volatiles

Lot-Sample #...: A9J070288-012 **Work Order #...:** LL51R1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 15:05 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**0.29 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-287

GC/MS Volatiles

Lot-Sample #...: A9J070288-012 **Work Order #...:** LL51R1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.29 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-288

GC/MS Volatiles

Lot-Sample #...: A9J070288-013 **Work Order #...:** LL51W1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 15:10 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.49 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**1.8**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-288

GC/MS Volatiles

Lot-Sample #...: A9J070288-013 **Work Order #...:** LL51W1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**9.3**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-289

GC/MS Volatiles

Lot-Sample #...: A9J070288-014 **Work Order #...:** LL51X1AA **Matrix.....:** WG
Date Sampled...: 10/06/09 15:55 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 16.67 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	420	ug/L	18
Benzene	ND	17	ug/L	2.2
Bromodichloromethane	ND	17	ug/L	2.5
Bromoform	ND	17	ug/L	11
Bromomethane	ND	17	ug/L	6.8
2-Butanone	ND	420	ug/L	9.5
Carbon disulfide	ND	83	ug/L	2.2
Carbon tetrachloride	ND	17	ug/L	2.2
Chlorobenzene	ND	17	ug/L	2.5
Chloroethane	ND	17	ug/L	4.8
Chloroform	ND	17	ug/L	2.7
Chloromethane	ND	17	ug/L	5.0
Cyclohexane	ND	17	ug/L	2.0
Dibromochloromethane	ND	17	ug/L	3.0
1,2-Dibromo-3-chloro-propane	ND	17	ug/L	11
1,2-Dibromoethane	ND	17	ug/L	4.0
1,2-Dichlorobenzene	ND	17	ug/L	2.2
1,3-Dichlorobenzene	ND	17	ug/L	2.3
1,4-Dichlorobenzene	ND	17	ug/L	2.2
Dichlorodifluoromethane	ND	17	ug/L	5.2
1,1-Dichloroethane	ND	17	ug/L	2.5
1,2-Dichloroethane	ND	17	ug/L	3.7
1,1-Dichloroethene	ND	17	ug/L	3.2
cis-1,2-Dichloroethene	ND	17	ug/L	2.8
trans-1,2-Dichloroethene	ND	17	ug/L	3.2
1,2-Dichloropropane	ND	17	ug/L	3.0
cis-1,3-Dichloropropene	ND	17	ug/L	2.3
trans-1,3-Dichloropropene	ND	17	ug/L	3.2
Ethylbenzene	ND	17	ug/L	2.8
2-Hexanone	ND	830	ug/L	6.8
Isopropylbenzene	ND	83	ug/L	2.2
Methyl acetate	ND	170	ug/L	6.3
Methylene chloride	**15 J,B**	**83**	**ug/L**	**5.5**
Methylcyclohexane	ND	17	ug/L	2.2
4-Methyl-2-pentanone	ND	830	ug/L	5.3
Methyl tert-butyl ether	ND	83	ug/L	2.8
Styrene	ND	17	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-289

GC/MS Volatiles

Lot-Sample #...: A9J070288-014 **Work Order #...:** LL51X1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	17	ug/L	3.0
Tetrachloroethene	**480**	**17**	**ug/L**	**4.8**
Toluene	ND	17	ug/L	2.2
1,2,4-Trichloro-benzene	ND	83	ug/L	2.5
1,1,1-Trichloroethane	ND	17	ug/L	3.7
1,1,2-Trichloroethane	ND	17	ug/L	4.5
Trichloroethene	**7.0 J**	**17**	**ug/L**	**2.8**
Trichlorofluoromethane	ND	17	ug/L	3.5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	17	ug/L	4.7
Vinyl chloride	ND	17	ug/L	3.7
Xylenes (total)	ND	33	ug/L	4.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100609

GC/MS Volatiles

Lot-Sample #...: A9J070288-015 **Work Order #...:** LL5111AA **Matrix.....:** WQ
Date Sampled...: 10/06/09 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.3 J**	**25**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100609

GC/MS Volatiles

Lot-Sample #...: A9J070288-015 **Work Order #...:** LL5111AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Volatiles

Lot-Sample #...: A9J070288-016 **Work Order #...:** LL5121AA **Matrix.....:** WG
Date Sampled...: 10/06/09 16:00 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.17 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**1.2 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Volatiles

Lot-Sample #...: A9J070288-016 **Work Order #...:** LL5121AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**1.3**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Volatiles

Lot-Sample #...: A9J070288-017 **Work Order #...:** LL5131AA **Matrix.....:** WG
Date Sampled...: 10/06/09 16:05 **Date Received..:** 10/07/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9288558
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.18 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**1.3 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Volatiles

Lot-Sample #...: A9J070288-017 **Work Order #...:** LL5131AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**1.3**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100709

GC/MS Volatiles

Lot-Sample #...: A9J090242-001 **Work Order #...:** LMAM01AA **Matrix.....:** WQ
Date Sampled...: 10/07/09 **Date Received..:** 10/09/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.1 J**	**25**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100709

GC/MS Volatiles

Lot-Sample #...: A9J090242-001 **Work Order #...:** LMAM01AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Volatiles

Lot-Sample #...: A9J090242-002 **Work Order #...:** LMAM31AA **Matrix.....:** WG
Date Sampled...: 10/07/09 08:35 **Date Received..:** 10/09/09
Prep Date.....: 10/15/09 **Analysis Date..:** 10/15/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**25**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	**0.80 J**	**25**	**ug/L**	**0.57**
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**1.5**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	**0.20 J**	**1.0**	**ug/L**	**0.17**
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	**0.42 J**	**5.0**	**ug/L**	**0.13**
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**1.6 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Volatiles

Lot-Sample #...: A9J090242-002 **Work Order #...:** LMAM31AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	**1.4 J**	**2.0**	**ug/L**	**0.28**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	79	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Volatiles

Lot-Sample #...: A9J090242-003 **Work Order #...:** LMAM41AA **Matrix.....:** WG
Date Sampled...: 10/07/09 09:10 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**0.39 J**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**3.1 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Volatiles

Lot-Sample #...: A9J090242-003 **Work Order #...:** LMAM41AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.64 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.28 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Volatiles

Lot-Sample #...: A9J090242-004 **Work Order #...:** LMAM51AA **Matrix.....:** WG
Date Sampled...: 10/07/09 10:35 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.42 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Volatiles

Lot-Sample #...: A9J090242-004 **Work Order #...:** LMAM51AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-295

GC/MS Volatiles

Lot-Sample #...: A9J090242-005 **Work Order #...:** LMAM61AA **Matrix.....:** WG
Date Sampled...: 10/07/09 11:30 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.44 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-295

GC/MS Volatiles

Lot-Sample #...: A9J090242-005 **Work Order #...:** LMAM61AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-296

GC/MS Volatiles

Lot-Sample #...: A9J090242-006 **Work Order #...:** LMAM71AA **Matrix.....:** WG
Date Sampled...: 10/07/09 08:20 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.33 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-296

GC/MS Volatiles

Lot-Sample #...: A9J090242-006 **Work Order #...:** LMAM71AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**2.8**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-297

GC/MS Volatiles

Lot-Sample #...: A9J090242-007 **Work Order #...:** LMAM91AA **Matrix.....:** WG
Date Sampled...: 10/07/09 09:05 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**3.7**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	**3.9**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-297

GC/MS Volatiles

Lot-Sample #...: A9J090242-007 **Work Order #...:** LMAM91AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.43 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**35**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-298

GC/MS Volatiles

Lot-Sample #...: A9J090242-008 **Work Order #...:** LMANC1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 09:30 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.53 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-298

GC/MS Volatiles

Lot-Sample #...: A9J090242-008 **Work Order #...:** LMANC1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**6.1**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-299

GC/MS Volatiles

Lot-Sample #...: A9J090242-009 **Work Order #...:** LMANF1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 10:25 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.25 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-299

GC/MS Volatiles

Lot-Sample #...: A9J090242-009 **Work Order #...:** LMANF1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**5.7**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-300

GC/MS Volatiles

Lot-Sample #...: A9J090242-010 **Work Order #...:** LMANG1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 11:30 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**16**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**3.3**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-300

GC/MS Volatiles

Lot-Sample #...: A9J090242-010 **Work Order #...:** LMANG1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**11**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**15**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-301

GC/MS Volatiles

Lot-Sample #...: A9J090242-011 **Work Order #...:** LMANJ1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 12:10 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**1.2**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	**0.92 J**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	**19**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**3.4**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**0.19 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-301

GC/MS Volatiles

Lot-Sample #...: A9J090242-011 **Work Order #...:** LMANJ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**21**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**10**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-302

GC/MS Volatiles

Lot-Sample #...: A9J090242-012 **Work Order #...:** LMANL1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 12:30 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.62 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**2.2**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-302

GC/MS Volatiles

Lot-Sample #...: A9J090242-012 **Work Order #...:** LMANL1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**1.2**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-303

GC/MS Volatiles

Lot-Sample #...: A9J090242-013 **Work Order #...:** LMANN1AA **Matrix.....:** WG
Date Sampled...: 10/07/09 13:05 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	**2.6**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-303

GC/MS Volatiles

Lot-Sample #...: A9J090242-013 **Work Order #...:** LMANN1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**1.5**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-304

GC/MS Volatiles

Lot-Sample #...: A9J090242-014 **Work Order #...:** LMANQ1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 09:10 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-304

GC/MS Volatiles

Lot-Sample #...: A9J090242-014 **Work Order #...:** LMANQ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-305

GC/MS Volatiles

Lot-Sample #...: A9J090242-015 **Work Order #...:** LMANV1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 09:15 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.32 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.63 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	**0.55 J**	**1.0**	**ug/L**	**0.18**
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-305

GC/MS Volatiles

Lot-Sample #...: A9J090242-015 **Work Order #...:** LMANV1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-306

GC/MS Volatiles

Lot-Sample #...: A9J090242-016 **Work Order #...:** LMANX1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 09:20 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.31 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.67 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	**0.55 J**	**1.0**	**ug/L**	**0.18**
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-306

GC/MS Volatiles

Lot-Sample #...: A9J090242-016 **Work Order #...:** LMANX1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-307

GC/MS Volatiles

Lot-Sample #...: A9J090242-017 **Work Order #...:** LMAN11AA **Matrix.....:** WG
Date Sampled...: 10/08/09 09:45 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-307

GC/MS Volatiles

Lot-Sample #...: A9J090242-017 **Work Order #...:** LMAN11AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-308

GC/MS Volatiles

Lot-Sample #...: A9J090242-018 **Work Order #...:** LMAN21AA **Matrix.....:** WG
Date Sampled...: 10/08/09 10:00 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**0.36 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	**0.30 J**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	**1.5**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**8.1**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-308

GC/MS Volatiles

Lot-Sample #...: A9J090242-018 **Work Order #...:** LMAN21AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.38 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**10**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-309

GC/MS Volatiles

Lot-Sample #...: A9J090242-019 **Work Order #...:** LMAN31AA **Matrix.....:** WG
Date Sampled...: 10/08/09 10:25 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.17 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	**0.88 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	**0.29 J**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	**14**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**0.24 J**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-309

GC/MS Volatiles

Lot-Sample #...: A9J090242-019 **Work Order #...:** LMAN31AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	**1.4**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**35**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	**4.7**	**1.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-310

GC/MS Volatiles

Lot-Sample #...: A9J090242-020 **Work Order #...:** LMAPW1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 10:30 **Date Received..:** 10/09/09
Prep Date.....: 10/16/09 **Analysis Date..:** 10/16/09
Prep Batch #...: 9292076
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	**0.66 J**	**5.0**	**ug/L**	**0.13**
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-310

GC/MS Volatiles

Lot-Sample #...: A9J090242-020 **Work Order #...:** LMAPW1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.1**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-311

GC/MS Volatiles

Lot-Sample #...: A9J090242-021 **Work Order #...:** LMAP11AA **Matrix.....:** WG
Date Sampled...: 10/08/09 11:00 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-311

GC/MS Volatiles

Lot-Sample #...: A9J090242-021 **Work Order #...:** LMAP11AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-312

GC/MS Volatiles

Lot-Sample #...: A9J090242-022 **Work Order #...:** LMAP41AA **Matrix.....:** WG
Date Sampled...: 10/08/09 11:15 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.22 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**1.9 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-312

GC/MS Volatiles

Lot-Sample #...: A9J090242-022 **Work Order #...:** LMAP41AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.38 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.41 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-313

GC/MS Volatiles

Lot-Sample #...: A9J090242-023 **Work Order #...:** LMAP71AA **Matrix.....:** WG
Date Sampled...: 10/08/09 11:30 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.21 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	**0.53 J**	**1.0**	**ug/L**	**0.14**
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**2.3 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-313

GC/MS Volatiles

Lot-Sample #...: A9J090242-023 **Work Order #...:** LMAP71AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.39 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-314

GC/MS Volatiles

Lot-Sample #...: A9J090242-024 **Work Order #...:** LMAQA1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 11:45 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.82 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**3.5 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-314

GC/MS Volatiles

Lot-Sample #...: A9J090242-024 **Work Order #...:** LMAQA1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.49 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**1.2**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-315

GC/MS Volatiles

Lot-Sample #...: A9J090242-025 **Work Order #...:** LMAQC1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 13:30 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.28 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	**4.8 J**	**5.0**	**ug/L**	**0.17**
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-315

GC/MS Volatiles

Lot-Sample #...: A9J090242-025 **Work Order #...:** LMAQC1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.62 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.56 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-316

GC/MS Volatiles

Lot-Sample #...: A9J090242-026 **Work Order #...:** LMAQE1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 13:40 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**0.16 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-316

GC/MS Volatiles

Lot-Sample #...: A9J090242-026 **Work Order #...:** LMAQE1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.48 J**	**1.0**	**ug/L**	**0.29**
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**2.1**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-317

GC/MS Volatiles

Lot-Sample #...: A9J090242-027 **Work Order #...:** LMAQJ1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 13:55 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-317

GC/MS Volatiles

Lot-Sample #...: A9J090242-027 **Work Order #...:** LMAQJ1AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**0.49 J**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-318

GC/MS Volatiles

Lot-Sample #...: A9J090242-028 **Work Order #...:** LMAQL1AA **Matrix.....:** WG
Date Sampled...: 10/08/09 14:00 **Date Received..:** 10/09/09
Prep Date.....: 10/17/09 **Analysis Date..:** 10/17/09
Prep Batch #...: 9292286
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL **Final Wgt/Vol..:** 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	**1.4**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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