CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
A	**GENERAL REQUIREMENTS**		
A.1	REVIEW FEE		Fee paid
A.2	FIVE COPIES OF REPORT		Five copies submitted
A.3	PROFESSIONAL ENGINEER CERTIFICATION		Stacy McAnulty is a Wisconsin Professional Engineer. Certification pages will be included in the RFI Report.
A.4	HYDROGEOLOGIST CERTIFICATION		Gwen Porus is a NR 600 Hydrogeologist. Certification pages will be included in the RFI Report.
A.5	FIGURES		
A.5.a	Numbered, referenced, titled, legible		Complete in RFI Workplan
A.5.b	North arrows, legend, scales		Complete in RFI Workplan
A.5.c	Scales appropriate		Complete in RFI Workplan
A.5.d	Figures between 24 x 36 and 8 1/2 x 11		Complete in RFI Workplan
A.5.e	USGS datum for elevation		Complete in RFI Workplan
A.5.f	Site grid referenced to State Plane Coordinate System		Local grid will be referenced to State Plane Coordinate System in RFI Report.
A.5.g	Site plan will be used as base map	RMT (1993c), Sec. 4.1, Fig. 4-2, p. 17	
A.5.h	Site plan/grid will be referenced on cross sections		No cross sections included in RFI Workplan. RFI Report cross sections will be referenced to local grid.
A.6	TABLE OF CONTENTS	Behind cover of RFI Workplan (RMT, 1993c)	Included in RFI Workplan
A.7	APPENDICES References cited Field methods	 RMT (1993c) Sec. 9, p. 40 RMT (1993c) App. A, Att. 1 - Field Sampling Plan	Included in RFI Workplan

* References cited list included at end of table.

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
B	**DESCRIPTION OF CURRENT CONDITIONS**		
B.1	GENERAL FACILITY INFORMATION		
B.1.a	Project name	RMT (1993c), Sec. 1	Included in RFI Workplan
B.1.b	Names, addresses, and phone numbers of facility owner and consultants	RMT (1993c), Sec. 3.2	CCP Contact: Craig Bostwick (816/391-6000)
B.1.c	Present property owner		Cook Composites and Polymers Co.
B.1.d	Description of location	RMT (1993c), Sec. 4, p. 11	
B.1.e	Township and range location		NE 1/4 of NE 1/4, Sec. 35, T11N, R21E
B.1.f	Total acreage	RMT (1993c), App. A, Sec. 3.2.2, p. 3 of 30	11.5 acres
B.2	LAND USE		
B.2.a	Identify adjacent property owners	Hatcher (1988), Fig. 1-3	Shows abutters in 1987.
B.2.b	Describe present land use	RMT (1993c), Sec. 4, p. 11	Wisconsin Bureau of Endangered Resources will be contacted during implementation of RFI.
B.2.c	Wetlands		There are no wetlands on the property.
B.2.d	History of adjacent properties		Disposal of degreasing sludge containing TCE is alleged to have occurred in unlined pits at the former Northern Signal facility approximately 200 feet west of the CCP facility. 7,000 gallons of gasoline were spilled on the ground surface at the Tri-Par facility approximately 250 feet northwest of the CCP facility.
B.3	REGIONAL INFORMATION		
B.3.a	Existing topography	RMT (1993c), Sec. 4, p. 11	Figure 4-1 contains portions of the topographic quadrangle maps that cover the CCP facility and its environs.
B.3.b	Surface water	RMT (1993c), Sec. 4, p. 11	
B.3.c	Regional geology	RMT (1993c), Sec. 4.3, p. 14	

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
B.3.d	Regional hydrogeology, local water supply wells	RMT (1993c), Sec. 4.3, p. 14 RMT (1993e), Sec. 4.1, Fig. 4-1, p. 12	On-site depth to the water table in the glacial drift is between 5 and 10 feet and is variable over time.
B.3.e	Data from USGS, WDNR, SEWRPC	Hatcher (1988), p. 2-7A6 to p. 2-7A9	Wells logs for municipal wells in Saukville will be included in the RFI Report. A literature review of regional data germaine to the CCP RFI will be included in the RFI Report.
B.4	SITE-SPECIFIC INFORMATION		
B.4.a	Site history		
B.4.a.i.	Facility history	RMT (1993c), Sec. 4, p. 11	
B.4.a.ii.	Waste types	RMT (1993c), Sec. 4, p.11; App. A, Sec. 3, p.7 of 30	
B.4.a.iii.	Waste handling methods	RMT (1993c), Sec. 4.4, p.16; App. A, Sec. 3, p.7 of 30	
B.4.a.iv.	Identify areas of concern	RMT (1993c), Sec. 4.4, p. 16	
B.4.a.v.	Waste characteristics		MSDS data sheets for the waste streams (spirit solvents and reaction water) will be included in the RFI Report at the CCP facility. CCP facility maintains MSDS fact sheets on-site for all of the finished products and raw materials that are used or manufactured at the site.
B.4.a.vi.	Dates and locations of waste spills and remedial actions	Hatcher (1988), Fig. 2-1, p. 2-2 RMT (1993c), App. A, Sec. 3.3.2, p. 8 of 30	Additional actions documented in RMT (1993a), RMT (1993c), and RMT (1993d).
B.4.b	Site Geology		
B.4.b.i	Grain-size, USCS classification	RMT (1993a), Att. D RMT (1993e), App. C	RFI Report will include a summary table describing results of physical soils tests.
B.4.b.ii	Lateral and vertical extent of soil units	Minnesota Geophysical Associates, Inc. (1989)	Seismic reflection survey performed to elucidate location of Karst feature in dolomite. No geologic cross sections prepared to date; RFI Report will describe the lateral and vertical extent of soil units.

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
B.4.b.iii	Joints and fractures	Minnesota Geophysical Associates, Inc. 1989.	Karst feature identified in dolomite during seismic reflection survey. Insufficient data available to describe on-site jointing and fracturing; if jointing/fracturing emerges as a data gap during implementation of the RFI, additional data will be collected as necessary and appropriate.
B.4.b.iv	Soils testing data	RMT (1993a), Att. D RMT (1993e), App. C	RFI Report will include a summary table describing results of physical soils testing.
B.4.c	Site Hydrogeology	RMT (1993c), Sec. 4.3, p. 14	General discussion of site hydrogeology.
B.4.c.i	Hydraulic conductivity		No slug tests performed to date; aquifer testing during RFI will be used to characterize bulk hydraulic characteristics of groundwater flow system near CCP.
B.4.c.ii	Confining units		No effective confining units are known to exist at the site.
B.4.c.iii	Hydraulic connection	RMT (1993c), Sec. 5.4, p. 28	Interconnection between units will be evaluated during aquifer test.
B.4.c.iv	Water supplies	RMT (1993c), Sec. 5.4, p. 29	Niagara Dolomite is the aquifer used for the Saukville municipal water supply.
B.4.c.v	Depth to groundwater Seasonal variation	RMT (1993e), Sec. 3.4, p. 7	Depth to water in the glacial deposits is between 5 and 10 feet below ground surface under pumping conditions. Seasonal variations will be assessed in the RFI Report.
B.4.c.vi	Perched groundwater		None known to exist on-site.
B.4.c.vii	Local and regional groundwater flow	RMT (1993c), Sec. 4.3, p. 14 and 15	
B.4.c.viii	Horizontal and vertical gradients		Not calculated explicitly; groundwater flow has a significant downward vertical component, based on the distribution of aromatic hydrocarbons in the subsurface and observed head levels at the facility. Gradients will be calculated in the RFI Report.

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
B.4.c.ix	Saturated thickness and flow rates		Saturated thickness of the till at the site varies from 10 feet to about 200 feet. Groundwater fluxes will be calculated as part of the RFI Report.
B.4.d	Supporting Information		
B.4.d.i	WDNR forms		Much of the subsurface investigation performed at the site to date was performed in the middle and early 1980s, prior to NR 141. Work performed since 1990 has included appropriate WDNR forms.
B.4.d.i.a)	Soil boring log	Hatcher (1988), App. 2 RMT (1993a), App. A RMT (1993e), Att. A	Contains 12 boring logs, not in NR 141 format. RMT reports include appropriate forms.
B.4.d.i.b)	Well construction log	Hatcher (1988), App. 6 RMT (1993e), App. A	
B.4.d.i.c)	Well development form		No data available.
B.4.d.i.d)	Facility monitoring ID form		Monitoring data submitted to WDNR in electronic format so paper TADs are not submitted.
B.4.d.i.e)	Well information form	Hatcher (1988), App. 6A	
B.4.d.i.f)	Borehole abandonment form	RMT (1993a), Att. B	
B.4.d.ii	Soil tests	RMT (1993a), Att. D RMT (1993e), App. C	
B.4.d.iii	Pump test results	Preliminary aquifer testing conducted at city wells by Hatcher (approximately 1988) is not well documented. No data available.	Aquifer testing will be a major thrust of the RFI and will be discussed at length in the RFI Report, including assessment of previous tests performed at the site.
B.4.d.iv	In-field hydraulic conductivity tests		No tests have been performed to date at the site.
B.4.d.v.	Water level measurements	RMT (1993b), Table 2, p. 9	Included in annual groundwater monitoring reports.
B.4.d.vi	All new data		As previously submitted.

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
B.4.e	Figures		
B.4.e.i	Existing conditions	RMT (1993c), Fig. 4-2, p. 17	While the site plan in the RFI Workplan does not contain all of the information requested under Sec. A.4.e.i in the outline, Figure 4-2, p. 17 in the RFI Workplan shows site boundaries, boring and wells locations, and the locations of nearby municipal wells. The remaining data will be added to the site plan for the RFI Report, as appropriate.
B.4.e.i.a)	Utilities, paving, sewers	Hatcher (1988), Fig. 1-6, p. 1-4 - Paving Hatcher (1988) Fig. 3-35A, p. 3-18A - Sewers	Utilities will be added in RFI response.
B.4.e.i.b)	Property boundaries	Hatcher (1988), Fig. 1-5, p. 1-7	
B.4.e.i.c)	Fence, gates	Hatcher (1988), Fig. 1-5, p. 1-7	
B.4.e.i.d)	100-year floodplain	Hatcher (1988), Fig. 1-3, p. 1-4	
B.4.e.i.e)	Wetlands		Not applicable
B.4.e.i.f)	Surrounding land use	Hatcher (1988), Fig. 1-2, p. 1-3	
B.4.e.i.g)	Public and private water supply wells	(RMT, 1993c) Sec. 4.1, Fig. 14-1, p. 12	Public wells near the site are included
B.4.e.i.h)	Boring and well locations		Included in RFI Workplan
B.4.e.i.i)	Waste storage	RMT (1992), Table 1	Past disposal practices at the 18 areas of potential concern were documented. The RFI is focused on 3 on-site and 2 off-site areas of concern, as agreed with USEPA and WDNR.
B.4.e.i.j)	Other TSDs	RMT (1992), Table 1	Past disposal practices at the 18 areas of potential concern were documented. The RFI is focused on 3 on-site and 2 off-site areas of concern, as agreed with USEPA and WDNR.
B.4.e.i.k)	Areas of releases		Included
B.4.e.ii	Geologic cross sections		None prepared to date. The RFI Report will contain geologic cross sections as specified in Task 1 under Sec. A.4.e.ii.

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	**TOPIC**	**REFERENCES**	**COMMENTS**
B.4.e.iii	Water table maps	RMT (1993b), App. B. Figs. 3A and 3B	
B.4.e.iv	Bedrock contour map		Not prepared to date. The RFI report will contain contour map of the bedrock surface. Seismic reflection surveys were performed to better define the bedrock surface (Minnesota Geophysical Associates Inc. 1989). This data will be used in development of the bedrock surface map.
B.5	NATURE AND EXTENT	RMT (1993c), Sec. 4.3, p. 15 RMT (1993b), App. C, Figs. 5A, 5B, and 6	Discussion Isoconcentration maps
B.6	SUMMARY OF REMEDIAL ACTIONS TAKEN	Hatcher (1988), Sec. 3.3, p. 37 RMT (1993b), Sec. 3.4 RMT (1993e) RMT (1993a); RMT (1993d)	Groundwater extraction system Groundwater remediation progress Pilot-scale SVE results Hazardous waste incinerator closure
B.7	DATA EVALUATION AND RECOMMENDATIONS		
B.7.a	Soils affected Groundwater standards exceeded	RMT (1993a), RMT (1993d), RMT (1993e) RMT (1993b)	Hazardous waste incinerator area evaluation; other areas being evaluated as discussed in RMT (1993c), Sec. 4.4, p. 16
C	**PRELIMINARY EVALUATION OF CORRECTIVE MEASURES**		No laboratory or bench-scale studies scheduled. Pilot-scale SVE performed in 1993 (RMT, 1993e) for NR 600 closure of former hazardous waste incinerator.
D	**FACILITY INVESTIGATION WORKPLAN**		
D.1	PROJECT MANAGEMENT PLAN	RMT (1993c), Sec. 3, p. 7	
D.2	ENVIRONMENTAL SETTING		
D.2.a	Soils and bedrock	RMT (1993c), Sec. 5.1.1, p. 19; Table 5-1, p. 20	
D.2.a.i	Number, depth, and location	RMT (1993c), App. A, Att. 1, p.1 of 16; Table 1-1, p.2 of 16, Fig. 1-1, p. 3; Fig. 1-2, p.4 of 16	
D.2.a.ii	Sample interval and collection techniques	RMT (1993c), App. A, Att. 1, Table 1-1, p.2 of 16 RMT (1993c), App. A, Att. 1, Sec. 2.1.1, p. 1 of 21	Sample collection will be performed substantially in accordance with ASTM D-1586

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.2.a.iii	Sample description		Sample description will be performed substantially in accordance with ASTM D-2488
D.2.a.iv	Grain-size tests		Collection of additional samples for grain-size analysis at this time is not necessary.
D.2.a.v	Number of samples for laboratory hydraulic conductivity		No laboratory hydraulic conductivity tests were planned during the RFI. Aquifer parameters will be assessed during analysis of the aquifer test data.
D.2.a.vi	Bedrock core collection		No bedrock coring was planned for the RFI.
D.2.a.vii	Timeframe for retention of samples		Lithologic soil samples will be disposed 6 months after the draft RFI Report is submitted to WDNR.
D.2.b	Monitoring well installation		
D.2.b.i	Number of wells		One existing monitoring well, W-8, will be replaced.
D.2.b.ii	Well construction techniques		Will be in accordance with NR 141.
D.2.b.iii	Single-well response test		No single-well response tests will be performed. Aquifer parameters will be derived from analysis of the aquifer test data.
D.2.b.iv	Water level readings	RMT (1993b) RMT (1993c), App. A, Att. 1, Sec. 2.5	Obtained during quarterly monitoring. Water level readings during aquifer test.
D.2.c	Other investigative work	RMT (1993c), App. A. Att. 1, Sec. 2.5	Aquifer test and computer modeling procedures
D.2.d	Field direction	RMT (1993c), App. A, Sec. 4.5, p. 3 of 3	Site coordinator will be an NR 600 hydrogeologist
D.3	CONTAMINANT CHARACTERIZATION		
D.3.a	Data validation	RMT (1993c), App. A, Sec. 11.2, p. 1 of 4	
D.3.a.i	Chain-of-custody procedures	RMT (1993c), App. A, Sec. 7.1 and Sec. 7.2	Field and laboratory chain-of-custody procedures
D.3.a.i.a)	Identification of sample receiver	RMT (1993c), App. A, Att. 2, Sec. 1.07, p. 1 of 4, Revision 2	
D.3.a.i.b)	Laboratory sample custody log	RMT (1993c), App. A, Att. 3, Sec. 1.07, p. 2 of 4, Revision 2	
D.3.a.i.c)	Laboratory sample custody procedure	RMT (1993c), App. A, Att. 2, Sec. 1.07, Revision 2 RMT (1993c), App. A, Sec. 6.4, p. 32	Sample custody Document control

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.a.ii	Sample storage and hold times	RMT (1993c), App. A, Sec. 6, Table 6-1, p. 2 of 2	
D.3.a.iii	Sample preparation methods	RMT (1993c), App. A, Sec. 9.2, p. 9 of 12 RMT (1993c), App. A, Sec. 9.1, p. 1 of 12	Laboratory methods Field methods
D.3.a.iv	Analytical procedures		
D.3.a.iv.a)	Scope and application	RMT (1993c), App. A, Att. 1, p. 3 RMT (1993c), Sec. 5, Table 5-1, p. 20 RMT (1993c), Sec. 5, Table 5-2, p. 21	Portable GC analyses Soil laboratory analyses Groundwater laboratory analyses
D.3.a.iv.b)	Sample matrix	RMT (1993c), Sec. 5.1, p. 19	
D.3.a.iv.c)	Potential interferences		High concentrations of BTEX in groundwater necessitate numerous dilutions to quantify levels in groundwater, resulting in raised detection limits in some samples.
D.3.a.iv.d)	Precision and accuracy	RMT (1993c), Sec. 9.1 RMT (1993c), App. A, Att. 4	Field measurements Laboratory measurements
D.3.a.iv.e)	Method detection limits	RMT (1993c), App. A, p. 10 to 21 of 31	Reporting limits for laboratory analyses proposed in RFI Workplan
D.3.a.v	Calibration frequency	RMT (1993c), App. A, Sec. 8	
D.3.a.vi	Data reduction and reporting	RMT (1993c), App. A, Sec. 11.1 and Sec. 11.3	
D.3.a.vii	Internal QC	RMT (1993c), App. A, Sec. 10	
D.3.a.vii.a)	Method blanks	RMT (1993c), App. A, Sec. 10.2	
D.3.a.vii.b)	Laboratory control samples	RMT (1993c), App. A, Att. 4	
D.3.a.vii.c)	Calibration check samples	RMT (1993c), App. A, Sec. 8, Table 8-4, p. 14 of 18	
D.3.a.vii.d)	Replicate sample	RMT (1993c), App. A, Sec. 3, Table 3-4, p. 22 of 31 RMT (1993c), App. A, Sec. 3, Table 3-5, p. 24 of 31 RMT (1993c), App. A, Att. 1, Sec. 2.3	Shows QC soil samples Shows QC groundwater samples Field QC sample preparation

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TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.a.vii.e)	Matrix spikes	RMT (1993c), App. A, Sec. 3, Table 3-4, p. 22 of 31 RMT (1993c), App. A, Sec. 3, Table 3-5, p. 24 of 31	Soil QC samples Groundwater QC samples
D.3.a.vii.f)	"Blind" QC samples	RMT (1993c), App. A, Sec. 3, Tables 3-4 and 3-5	Field duplicate samples will be blind.
D.3.a.vii.g)	Control charts	RMT (1993c), App. A, Att. 4	
D.3.a.vii.h)	Surrogate samples	RMT (1993c), App. A, Sec. 10, p. 2 of 2	
D.3.a.vii.i)	Zero and span gases	RMT (1993c), App. A, Att. 1, Sec. 4.8, p. 7 of 7	Isobutylene standard gas will be used for calibration of PIDs.
D.3.a.vii.j)	Reagent QC checks		Method blanks will serve as QC checks or reagents. If the reagents are dirty, the method blanks will show it. Additionally, the lab uses commercially prepared standards for instrument calibration. If the reagents are dirty, the calibration process would show it.
D.3.a.viii	Preventive maintenance	RMT (1993c), App. A, Sec. 13	
D.3.a.ix	Corrective action	RMT (1993c), App. A, Sec. 15	
D.3.a.x	Turnaround time		Normal laboratory turnaround times will be used during analysis of the samples collected during the RFI.
D.3.b	Source Characterization		
D.3.b.i	Amount and location of waste	RMT (1993c), Sec. 5.2	
D.3.b.ii	Number and location of samples	RMT (1993c), Sec. 5, Tables 5-1, 5-2, and Figs. 5-1, 5-2, and 5-3	
D.3.b.iii	Type of sampling (composite vs. grab)		Grab
D.3.b.iv	Specific sampling procedures	RMT (1993c), App. A, Att. 1, Sec. 2	

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TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.b.v	Analytes	RMT (1993c), App. A, Sec. 3, Tables 3-4 and 3-5	
D.3.b.vi	Analytical method and detection limits	RMT (1993c), App. A, Sec. 3, Tables 3-1, 3-2, 3-3.1, 3-3.2, 3-3.3, and 3-3.4	
D.3.c	Groundwater		
D.3.c.i	Water levels	RMT (1993c), App. A, Att. 1, Sec. 5.1	
D.3.c.i.a)	Type of equipment		Air lines, pressure transducers, and electric water level indicators.
D.3.c.i.b)	Decontamination procedures		Plopper tapes and water level indicators will be decontaminated with other groundwater sampling equipment as in RMT (1993c), App. A, Att. 1, Sec. 7.4, p. 2.
D.3.c.ii	Well development	RMT (1993c), App. A, Att. 1, Sec. 2.4, p. 12 of 21	
D.3.c.ii.a)	Sequence		Only one well will be developed
D.3.c.ii.b)	Type of equipment		Bailer or pump
D.3.c.ii.c)	Amount of water to be removed		Ten well volumes if it does not purge dry; five well volumes if it does purge dry.
D.3.c.ii.d)	Chemical analysis to confirm development		None planned. This well likely will purge dry, and stabilization criteria would not be applicable.
D.3.c.ii.e)	Decontamination procedures		Decon bailers as in RMT (1993c), App. A, Att. 1, Sec. 7.4, p. 2.
D.3.c.iii	Sample withdrawal procedures	RMT (1993c), App. A, Att. 1, Sec. 2.2.1, p. 6 of 21	
D.3.c.iii.a)	Sequence		Wells will be sampled sequentially from cleanest to dirtiest areas.
D.3.c.iii.b)	Type of equipment	RMT (1993c), App. A, Att. 1, Sec. 2.2.1	

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TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.c.iii.c)	Timing	RMT (1993c), App. A, Att. 1, Sec. 2.2.1, p. 6 of 21	Wells sampled immediately after purging.
D.3.c.iii.d)	Decontamination procedures		Wells that do not have dedicated sampling equipment will be sampled with separate pre-cleaned bailers.
D.3.c.iv	In-field measurements	RMT (1993c), App. A, Sec. 3.4.2.1, p. 26	
D.3.c.iv.a)	Identify measurements to be made		Specific conductance, pH, temperature, VOCs in soil headspace.
D.3.c.iv.b)	Type of equipment	RMT (1993c), App. A, Sec. 9.1	
D.3.c.iv.c)	Calibration Procedures	RMT (1993c), App. A, Sec. 8.1	
D.3.c.iv.d)	Sequence of in-field measurements		Field measurements will be made after purging. Sequence of measurements will not affect results. Remove references to temperature compensation knobs in specific conductance measurements.
D.3.c.v	Field filtration		Field filtration procedures in QAPP have been updated
D.3.c.v.a)	Equipment for in-line filtering		Sketch attached; Gelman barrel filter and peristaltic pump with Tygon tubing.
D.3.c.v.b)	Type of filter		0.45-micron cellulose acetate barrel filter
D.3.c.v.c)	Description of filtering procedures		Sample is retrieved using a bailer and bottom discharged to an intermediate vessel. Sample is pumped from the intermediate vessel through the barrel filter via the peristaltic pump, and discharged directly to the sample bottle.
D.3.c.v.d)	Volume of sample filtered before sample collection		250 to 500 mL
D.3.c.v.e)	Decontamination		Sampling equipment (intermediate vessel, Tygon tubing, in-line filter) is dedicated for one use and is then disposed.

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TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.c.vi	Sample preservation	RMT (1993c), App, A, Sec. 6.3, Table 6.3, p. 2 of 2	
D.3.c.vii	Chain-of-custody procedures		
D.3.c.vii.a)	Sample bottle labeling	RMT (1993c), App. A, Att. 1, Sec. 3.3, Fig. 3-1, p. 3 of 9	
D.3.c.vii.b)	Seals		Coolers will be sealed with tape before shipping
D.3.c.vii.c)	Field notebook data	RMT (1993c), App. A, Att. 1, Sec. 3.4, p. 4 of 9	
D.3.c.vii.d)	Chain-of-custody forms	RMT (1993c), App. A, Att. 1, Sec. 3.4, Fig. 3-2, p. 5 of 9	
D.3.c.vii.e)	Description of work order	RMT (1993c), App. A, Att. 2, Sec. 1.07, Fig. 1.07-2	Sample acknowledgement form included
D.3.c.viii	QA/QC procedures		
D.3.c.viii.a)	Overall Field QA/QC	RMT (1993c), App. A, Att. 1, Sec. 10	
D.3.c.viii.b)	Number of blanks and duplicates	RMT (1993c), Sec. 3, Tables 3-4 and 3-5	
D.3.c.ix	Sampling plan	RMT (1993c), App. A, Att. 1	
D.3.c.ix.a)	Well locations	RMT (1993c), App. A, Att. 1, Sec. 2.2, Fig. 1-3, p. 15 of 16	
D.3.c.ix.b)	Parameter list	RMT (1993c), App. A, Att. 1, Table 1-2	
D.3.c.ix.c)	Sampling containers	RMT (1993c), App. A, Att. 1, Sec. 1, p. 11 of 16	
D.3.c.ix.d)	Proposed analytical methid	RMT (1993c), App. A. Attachment 1, Table 1-2a through 1-2d, Table 1-3	
D.3.c.ix.e)	Proposed detection limits	RMT (1993c), App. A, Tables 3-1 through 3-3, Table 3-5	

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.d	Soils		
D.3.d.i	Field-screening	RMT (1993c), App. A, Att. 1, Sec. 3.4.2.1, p. 26 of 30	
D.3.d.ii	Calibration for field-screening	RMT (1993c), App. A, Att. 2, Sec. 1.07	RMT portable gas chromatograph standard operating procedures.
D.3.d.iii	Other procedures		None cited
D.3.d.iv	Soil sampling techniques		
D.3.d.iv.a)	Types of sampling devices	RMT (1993c), App. A, Att. 1, Sec. 2.1.1 and 2.1.2	
D.3.d.iv.b)	Type of sampling		Grab
D.3.d.iv.c)	Decontamination procedures	RMT (1993c), App. A, Att. 1, Sec. 7.3	Drilling equipment will be used for collection of soil samples at depth. Surface soil sampling equipment will be dedicated for each sample.
D.3.d.iv.d)	Sampling container	RMT (1993c), App. A. Att. 1, Sec. 6, Table 6-1	
D.3.d.iv.e)	Sample preservation	RMT (1993c), App. A, Att. 1, Sec. 6, Table 6-1	
D.3.d.iv.f)	Number and location of samples	RMT (1993c), App. A, Att. 1, Sec. 1, Table 1-1, Figs. 1-1 and 1-2	
D.3.d.iv.g)	Analytes and detection limits	RMT (1993c), App. A, Sec. 9.2, Tables 9-2 and 9-3; RMT (1993c), App. A, Sec. 3, Table 3-3 and 3-4	Methods and report limits
D.3.d.v	Chain-of-custody		
D.3.d.v.a)	Bottle labeling	RMT (1993c), App. A, Att. 1, Sec. 3.3, Fig. 3-1	
D.3.d.v.b)	Sample seals		Coolers will be sealed with tape before shipping
D.3.d.v.c)	Field notebook data	RMT (1993c), App. A, Att. 1, Sec. 3.4, p. 4 of 9	
D.3.d.v.d)	Chain-of-custody forms	RMT (1993c), App. A, Att. 1, Sec. 3.4, Fig. 3-2	
D.3.d.v.e)	Sample analysis request sheet	RMT (1993c), App. A, Att. 2, Sec. 1.07, Fig. 1.07-2	Sample acknowledgement form included

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.d.vi	Describe laboratory testing procedures	USEPA (1990), Methods listed in RMT (1993c), App. A, Sec. 9.2, Tables 9-2 and 9-3	
D.3.e	Surface water and sediment sampling		Surface water and sediment do not appear to be affected by the potential releases that may have occurred at the facility, and are not being evaluated as part of the RFI at this site.
D.3.f	Air contamination		Air contamination is not a significant contributor to soil and groundwater affected by the potential releases at the facility site, and consequently is not included in the RFI Workplan.
D.3.g	Pore gas contamination	RMT (1993d)	SVE pilot-scale test; air emissions from the SVE system will be evaluated during design of the SVE system.
D.3.g.i	Screening techniques	RMT (1993c), Sec. 5.2, p. 26	Pore gas assessed in Area 5 (churchyard and ball field), using a portable GC on soil headspace samples.
D.3.g.ii	Calibration procedures	RMT (1993c), App. A, Att. 2, Sec. 1.07, Sec. 12	Portable GC SOP
D.3.g.iii	Sampling techniques		
D.3.g.iii.a)	Instrumentation for sample collection		None. Pore gas analyses will be performed on soil headspace.
D.3.g.iii.b)	Type of sampling	RMT (1993c), App. A, Att. 1, Sec. 1.1, Table 1-1	Soil samples collected with split-spoons.
D.3.g.iii.c)	Decontamination procedures	RMT (1993c), App. A, Att. 1, Sec. 7.4, p. 2 of 2	
D.3.g.iii.d)	Sample preservation		None. Samples will be analyzed on-site immediately after being collected.
D.3.g.iii.e)	Number and location of samples	RMT (1993c), Sec. 5.1.1, Table 5-1 and Figs. 5-1 and 5-2	
D.3.g.iii.f)	Constituents and detection limits	RMT (1993c), App. A, Att. 2, Sec. 1.07, Table 1	

CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	TOPIC	REFERENCES	COMMENTS
D.3.g.iv	Chain-of-custody procedures		
D.3.g.iv.a)	Description of sample containers	RMT (1993c), App. A, Att. 2, Sec. 2.1.1, p. 2 of 21	40-mL VOA vials
D.3.g.iv.b)	Field notebook data	RMT (1993c), App. A, Att. 1, Sec. 3.4, p. 4 of 9	
D.3.g.iv.c)	Chain-of-custody reporting forms	(RMT 1993c), App. A, Att. 1, Sec. 3.4, Fig 3-2	Screening samples will not have chain-of-custody documentation because they will go directly from the drilling area to the analyst. Soil samples selected for laboratory analyses based on the field-screening results will have chain-of-custody documentation, but will not be pore gas samples as such.
D.3.g.v	Laboratory analyses		No laboratory analyses for pore gas constituents.
D.4	INVESTIGATIVE WASTE MANAGEMENT PLAN	RMT (1993c), App. A, Att. 1, Sec. 8	
D.5	ECOLOGICAL ASSESSMENT		
D.5.a	Wetlands		No wetlands have been defined on or adjacent to the facility.
D.5.b	Endangered or threatened species		The Wisconsin Bureau of Endangered Resources will be contacted during implementation of the RFI.
D.5.c	Critical habitat		The facility is in a residential industrial area. No critical habitats are known to exist in the immediate vicinity of the site.
D.5.d	Special resources		No state natural areas or prime agricultural lands will be affected by implementation of the RFI Workplan. Similarly, no historical or archaeological areas are known to exist on-site.
D.5.e	Dominant aquatic and terrestrial plant and animal species in the area		Available information will be gathered from the Wisconsin Bureau of Endangered Resources during implementation of the RFI.

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CROSSWALK BETWEEN DRAFT RFI WORKPLAN AND WDNR GUIDANCE DOCUMENT FOR HAZARDOUS WASTE FACILITY INVESTIGATIONS (CONTINUED)			
TASK 1 OUTLINE SECTION	**TOPIC**	**REFERENCES**	**COMMENTS**
D.6	HEALTH AND SAFETY PLAN	RMT (1993c), App. B.	
D.7	COMMUNITY RELATIONS PLAN		A draft community relations plan submitted to USEPA by Freeman Chemical in 1990. CCP would like to open a discussion with WDNR on an appropriate scope for community relations at the Saukville facility.
E	**PROGRESS REPORTS**		Progress letters will be submitted every other month to the WDNR during implementation of the RFI Workplan.

REFERENCES CITED:

Hatcher, Inc. 1988. Corrective Measures Activities Task 1 - Description of past and current conditions, site construction documentation report. Freeman Chemical Corporation, Saukville, Wisconsin, Revision 1. February 15, 1988.

Hatcher-Sayre, Inc. 1989. Revised project plans for Tasks 3, parts A, B, and C.

Minnesota Geophysical Associates, Inc. 1989. Seismic Reflection Survey for Hatcher-Sayre, Inc. Freeman Chemical Company Site, Saukville, Wisconsin. February 1989.

RMT, Inc. 1992. Letter to Robert Smith, USEPA from RMT, Inc. on behalf of Cook Composites and Polymers Co. Responses to USEPA Comments from the July 24, 1992, letter

RMT, Inc. 1993a. Semivolatiles investigation report for closure of the former hazardous waste incinerator and storage area. Cook Composites and Polymers. Saukville, Wisconsin. January 1993.

RMT, Inc. 1993b. 1992 groundwater monitoring annual report. Cook Composites and Polymers. Saukville, Wisconsin. February 1993.

RMT, Inc. 1993c. Draft site investigation and continuing interim corrective measures workplan. Cook Complsits and Polymers. Saukville, Wisconsin. February 1993.

RMT, Inc. 1993d. Closure plan modification. Cook Composites and Polymers Co., Saukville, Wisconsin. April 1992.

RMT, Inc. 1993e. Results of soil vapor extraction pilot scale test. Cook Composites and Polymers. Saukville, Wisconsin. September 1993.