PRELIMINARY ASSESSMENT COLUMBUS MCKINNON CORPORATION

PREPARED UNDER

RECEIVED

JAN 15 1988

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8710-95 CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

DECEMBER 4, 1987

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

REVIEWED/APPROVED BY:

PAULINE DOHERTY PROJECT MANAGER

RONALD MAMAN

FIT OFFICE MANAGER



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

02-8710-95-PA Rev. No. 0

Columbus McKinnon Corporation Site Name	NYD002105534 EPA Site ID Number
Fillmore and Freemont Street Tonawanda, NY 14150 Address	02-8710-95 TDD Number
Date of Site Visit: November 09, 19	987
SITE DESCRIPTION	
York, manufactures chains. From 1930 to of water-soluble waste cutting oils. Haz processes are stored in drums on site and sh	e facility located in Tonawanda, Erie County, New 1965, the site was used to dispose of 27,000 gallons cardous wastes generated during manufacturing nipped to a secure landfill. During an inspection in of waste on a gravel and dirt yard was noted.
Niagara River approximately 1 mile west of	s used for recreational purposes. It flows into the f the site. Drinking water intakes for Tonawanda, 3 stream miles of the site. Groundwater is not used
A NYSDEC Consent Order was drafted in Columbus McKinnon.	October 1986 but has not yet been signed by
PRIORITY FOR FURTHER ACTION: H	ligh Medium X No Further Action_
RECOMMENDATIONS	
of the Ellicott Creek which is used for rec	ommended. There is a potential for contamination treational purposes. Ellicott Creek flows into the where the drinking water intakes for Tonawanda, d.
Prepared by: Pauline Doherty of NUS Corporation	Date: December 4, 1987

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFIC	ATION
01 STATE	02 SITE NUMBER
N137	2021105511

						JA	000210	155 34
II. SITE NAME AND LOCATION								
01 SITE NAME (Legal, common, or descriptive name of sit	e) 02	STREET, RO	UTE N	D., OR SPECIFIC LO	CATION IDENTIFIER			
Columbus McKinnon Corporation		Fillmore and	Freemor	nt Street				
03 CITY		04 STATE	05 ZII	CODE	06 COUNTY	07 CO	YTNL	08 CONG
						со	DE	DIST
^T onawarda		NY		14150	Erie	02	9	33
00.000000000000000000000000000000000000	+					<u>-</u>		
09 COORDINATES								•
LATITUDE LONGITUDE								
43° <u>01′ 03</u> ″ <u>078° 52′ 16″ W</u>								
10 DIRECTIONS TO SITE (Starting from nearest public n	oad)							
From Youngmann Expressway (Rte. 290) heading west ta		ities Memorial I	Highway	north. Continue for app	roximately 1 mile Take a ii	eft onto Fillmo	re Street	:
			,					
III. RESPONSIBLE PARTIES					-			
III. RESPONSIBLE PARTIES			02.5	TREET (O. sierres en ali				
01 OWNER (if known)				TREET (Business, maili	ng, residential)			
Columbus McKinnon Corporation				ne Freemont Street				
03 CITY		04 STATE	05 ZIF	CODE	06 TELEPHONE NUN	BER		
Tonawanda		NA		4150	(716) 696-3200			
07 OPERATOR (if known and different from owner)			08 S1	REET (Business, mailin	g, residential)			
Same as above.								
							Γ	
09 CITY		04 STATE	11 ZII	CODE	12 TELEPHONE NUI	JBER		
13. TYPE OF OWNERSHIP (Check one)								
x A. PRIVATE B. FEDERAL:			_ C	. STATE	_ D COUNTY	_ E. MU	INICIPA	L
(Ag	ency nam	e)						
_ F OTHER:			_ G	. UNKNOWN				
(Specify)								
14 OWNER/OPERATOR NOTIFICATION ON FILE	(Check al	l that apply)						
_ A. RCRA 3001 DATE RECEIVED:	B. UNC	ONTROLLE	O WAST	TE SITE (CERCLA 103c)	DATE RECEIVED:		<u>×</u> C.	NONE
MONTH DAY Y	AR				MC	NTH DAY YE	AR	
IV. CHARACTERIZATION OF POTENTIAL HAZA	RD							
01 ON SITE INSPECTION		Check all that a	pply)					
× YES DATE: 05/09/86				CONTRACTOR	C. STATE	× D. OTH	ER CO	NTRACTOR
MONTH DAY YEAR						_		
_ NO	_					(Specify)	-	
_		CONTRACT	OR NA	ME(S): Advanced Env	ironmental Systems and Co	nestoga-Rove	rs and As	sociates
02 SITE STATUS (Check one)			T 02	YEARS OF OPERAT	ION			
· · · · · · · · · · · · · · · · · · ·	. UNKN	OWN	03	PEARS OF OFERA	/		v I	JNKNOWN
_ 5.11ACTIVE 5	. 01411114	O 1111		BEGINNIN	S YEAR ENDING YEA	D	Ž (JINKINO VVIN
04 DESCRIPTION OF SUBSTANCES POSSIBLY PR	ECENIT	KNOWN	D ALLE		TEAN CINDING TEA			
The Columbus McKinnon Site was used from 1930 to 196	·	•			na oils. Analysis of onwson	maatal campi	r (500 At	tachmant ()
					ng oils. Analysis of environ	mental sample	s (see At	tachment A)
05 DESCRIPTION OF POTENTIAL HAZARD TO EI	IVIRON	IMENT AND	/OR PO	PULATION				
The local population could be exposed through the inges	ion of co	ntaminated surf	face wate	er, the direct contact wit	h contaminated surface wa	ter and soil, a	nd/or (Se	e Attachment A)
V. PRIORITY ASSESSMENT								
01 PRIORITY FOR INSPECTION (Check one If high o	r medium	ıs checked, com	nplete Pa	rt 2 - Waste Information	and Part 3 - Description of	Hazardous Co	nditions a	and Incidents)
_ A. HIGH <u>x</u> B. MEDIUM		_ (C. LOW	•	_ D.	NONE		
(Inspection required promptly) (Inspection required	ed)	(Inspect or	n time av	ailable basis) (No	further action needed, com	olete current d	dispositio	n form)
VI. INFORMATION AVAILABLE FROM								
01 CONTACT 02 OF (Agency:Organization) 08 TELEPHONE NUMBER						VUMBER		
Diana Messina	-	EPA Region 2, E					321-6776	
		T				(201)		
04 PERSON RESPONSIBLE FOR SITE INSPECTION	FORM	05 AGENC	Y	06 ORGANIZATIO	N 07 TELEPHONE N	UMBER	08 D	ATE
Pauline Doherty		U S EPA	4	NUS Corp., FIT 2	(201) 225-6160			12'04 87

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ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED

has indicated the presence of PCBs, volatile organics, and metals.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

the inhalation of contaminated air. There is also a potential for contamination of flora and fauna.

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS											
				STE QUANTITY AT SITE			03 WASTE CHARACTERISTICS (Check all that apply)				
X A. SOLIDB. POWDER, FX C. SLUDGE	SOLID _ E. SLURRY must be POWDER, FINES			be independent) TONS Unknown			TOXIC CORROSIV		_ I HIGHLY VOLATILE _ EXPLOSIVE E K REACTIVE		
D OTHER			YARDS DRUMS Unknown		cnown	<u>x</u>	D. PERSISTEN	NT H IGNITABLE	_ L ·NCOMPATIBLE _ M NOT APPLICABLE		
III. WASTE TYPE											
CATEGORY	SUBSTANCE NAME		01 GRC	01 GROSS AMOUNT		02 UNIT C	F MEASU	RE 03 COMMENTS	03 COMMENTS		
SLU	SLUDGE										
OLW	OILY WASTE		27.	.000		gal		Columbus McKinnon m	anufactures chains. From		
SOL	SOLVENTS							1930 to 1965, waste oil	was disposed of on site		
PSD	PESTICIDES							Hazardous wastes are s	tored in drums and shipped		
осс	OTHER ORGANIC CHEM	MICALS	220)		gal ye	ar	to a secure landfill An	inspection in 1982 noted the		
IOC	INORGANIC CHEMICAL	.S	4 5			tons ye	ear	storage of many corrod	ding drums of waste on a		
ACD	ACIDS		374	ı		tons ve	ear	gravel and dirt yard.	gravel and dirt yard.		
BAS	BASES										
MES	HEAVY METALS		174	1		metric	tons/year				
IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)											
01 CATEGORY	02 SUBSTANCE NAME	03 CAS N	UMBER	04 STOR	AGE/DI	SPOSAL N	METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION		
ЮС	Sulfuric Acid	7664	-93-9	9 Tank				Unknown			
осс	Tetrachloroethene	127-	18-4 Drum		m			Unknown			
IOC	Iron Sulfate	7720	78-7 Drum		m			Unknown			
MES	Chromium	7440	-47-3	Drum				Unknown			
OLW	PCB	1336	-36-3	Land	and Disposal			>50	ppm		
		_									
V. FEEDSTOCKS	(See Appendix for CAS Numbers)									
CATEGORY	01 FEEDSTOCK NAME 02 CA		2 CAS NU	MBER	CATE	GORY	01	FEEDSTOCK NAME	02 CAS NUMBER		
FDS					FDS						
FDS					FC	os					
FDS					FC	DS					
FDS			F	DS							
VI. SOURCES OF	INFORMATION (Cite specific	references, e	e.g. state file	es, sample an	alysis, rep	ports)					

02-8710-95-PA

Rev. No. 0

RCRA Inspection Form, Columbus McKinnon, NYSDEC, June 15, 1983.

Potential Hazardous Waste Site Identification and Preliminary Assessment, U.S. EPA, November 16, 1981

Columbus McKinnon Site Investigation, Conestoga-Rovers and Associates Limited and Advanced Environmental Systems, July 23, 1986.

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE

02 SITE NUMBER

TAKTS BESCHILLION OF TIALARDON			NY S	102175534
II. HAZARDOUS CONDITIONS AND INCIDENTS				
01 × A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:0	02 X OBSERVED (DATE. 1 14.85) 04 NARRATIVE DESCRIPTION		_ POTENTIAL	_ ALLEGED
On January 14, 1985, Advanced Environmental Systems, Inc. collected a grorganics; however, groundwater is not used for drinking purposes.	roundwater sample from an on-site monitoring well	l. Analysis	revealed contamination	on with volatile
01 x B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Approx. 90,000	02 × OBSERVED (DATE: 10/8/82) 04 NARRATIVE DESCRIPTION		_ POTENTIAL	_ ALLEGED
Sediment samples collected from Ellicott Creek on October 8, 1982, reveal River approximately 1 mile west of the site. The drinking water intakes for stream miles of the site			·	,
01 × C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 _ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION		x POTENTIAL	_ ALLEGED
There is potential for air contamination through the volatilization of comp				
01 _ D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 _ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION)	_ POTENTIAL	_ ALLEGED
There is no potential for fire or explosive conditions due to the nature of the	e wastes.			
01 <u>x</u> E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: Unknown	02 _ OBSERVED (DATE: 04 NARRATIVE DESCRIPTION		\underline{x} POTENTIAL	_ ALLEGED
There is potential for direct contact through contaminated surface water	The Ellicott Creek lies adjacent to the site and is use	ed tor recre	eational purposes.	
01 × F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: <1 (Acres)	02 <u>x</u> OBSERVED (DATE: <u>5/9/86</u>) 04 NARRATIVE DESCRIPTION		_ POTENTIAL	_ ALLEGED
A site inspection was conducted on May 9, 1986 by Advanced Environment organic compounds and metals.	tal System and Conestoga-Rovers & Associates. Anal	lysis of soil	I samples indicated the	presence of volatile
01 xG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: Approx. 90,000	02 _OBSERVED (DATE:04 NARRATIVE DESCRIPTION)	x POTENTIAL	_ ALLEGED
The contaminants detected in Ellicott Creek could potentially migrate to the of Tonawanda, North Tonawanda and Lockport are within 3 stream miles		ig water 1	The intakes for the con	nmunity water systems
01 x H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 _OBSERVED (DATE:04 NARRATIVE DESCRIPTION)	<u>x</u> POTENTIAL	_ ALLEGED
The potential for worker exposure exists through the inhalation of contain	ninated air and direct contact with contaminated soi	il.		
01 x I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: Unknown	02 _OBSERVED (DATE:04 NARRATIVE DESCRIPTION)	× POTENTIAL	_ ALLEGED
The local population could be exposed through the ingestion of contaminal contaminated air	ated surface water, the direct contact with contamin	nated surfa	ace water and soil, or t	he inhalation of

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS O1 STATE O2 SITE NUMBER 0002105534

	ID	EN	TII	FIC	ΑT	10	N
_				$\overline{}$			_

		NY 5002103334
II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTINUED)		
01 <u>k</u> J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE)	× POTENTIAL ALLEGED
There is potential for damage to flora. Contaminants could affect the vegetati	ion along and in Ellicott Creek.	
01 x K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 _ OBSERVED (DATE:)	x POTENTIAL _ ALLEGED
There is potential for damage to fauna. Contaminants could affect the large m	nouth bass, northern pike, and various species of pan	fish and carp that reportedly inhabit Ellicott
01 <u>×</u> L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE:)	x POTENTIAL ALLEGED
There is potential for food chain contamination through the ingestion of possi	bly contaminated plants or animals. Ellicott Creek is	used for recreational fishing.
01 x M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums)	02 <u>x</u> OBSERVED (DATE: <u>9/22/82</u>)	_ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 14,678	04 NARRATIVE DESCRIPTION	
A NYSDEC inspection conducted on September 22, 1982, revealed the storage of the waste oils disposed of on the site.	of corroding waste drums on a gravel and dirt yard. 1	There is also no known containment system for
01 × N. DAMAGE TO OFF-SITE PROPERTY 04 NARRATIVE DESCRIPTION	02 <u>x</u> OBSERVED (DATE: <u>10/8/82</u>)	_ POTENTIAL _ ALLEGED
Sediment samples collected on October 8, 1982 by the Erie County Department	t of Environment and Planning from Ellicott Creek ind	dicated PCB contamination.
01 × O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs	02 _ OBSERVED (DATE:)	x POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION		
There is potential for the contamination of the city sewer system through surfa	ace runoff of PCB-contaminated soils.	
01 _ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE:)	_ POTENTIAL _ ALLEGED
There is no potential for illegal or unauthorized dumping; Columbus McKinno	on is an active facility and entry is restricted.	
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLI	EGED HAZARDS	
No other known, potential, or alleged hazards.		
III. TOTAL POPULATION POTENTIALLY AFFECTED: > 150,000	-	
IV. COMMENTS		
No Comments.		
V. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sa	ample analysis, reports)	
Water Quality Management Program, Environmental Inventory. Report 4 Erie an OW-2 Groundwater Sample Split with the DEC and Analyzed for Volatiles and PCI County of Erie D.E.P. Memorandum from E.J. Sciascia to P. Buechi, NYSDEC, Subje	Bs, Columbus McKinnon Corporation, Advanced Envii	

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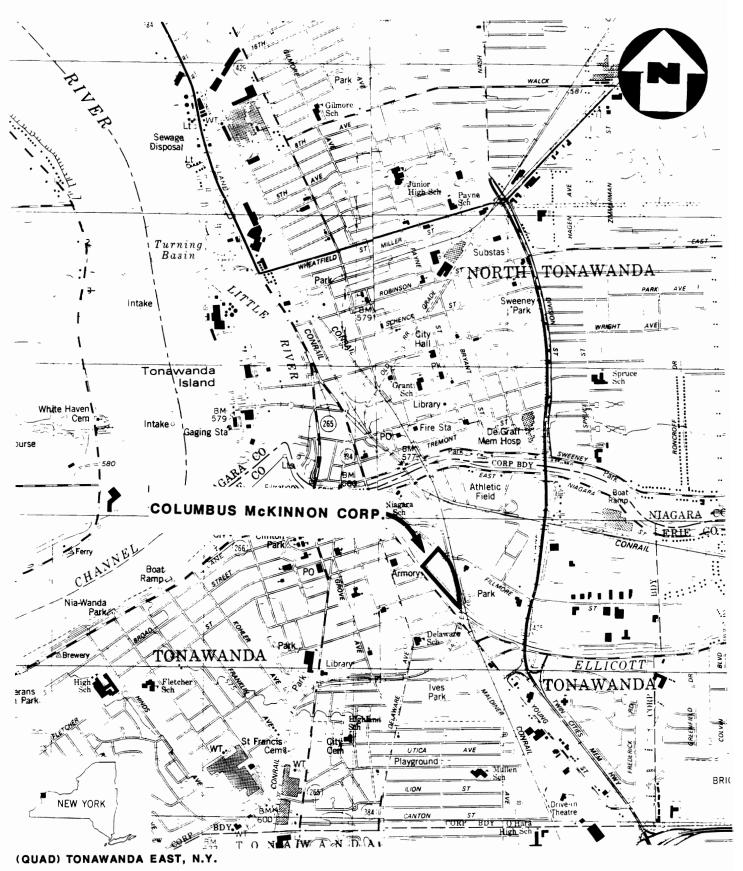
ATTACHMENT

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

V. SOURCES OF INFORMATION (Cite Specific references, e.g. state files, sample analysis, reports)

General Science Corporation, Graphical Exposure Modelling System, Landover, MD. 1986.

APPENDIX A MAPS AND PHOTOGRAPHS



SITE LOCATION MAP

COLUMBUS McKINNON CORP., TONAWANDA, N.Y.

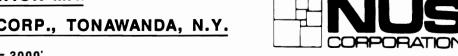


FIGURE 1

SITE MAP COLUMBUS McKINNON CORP., TONAWANDA, N.Y.

(NOT TO SCALE)



PHOTOGRAPH LOG

COLUMBUS MCKINNON CORPORATION TONAWANDA, NEW YORK

OFF SITE RECONNAISSANCE - NOVEMBER 9, 1987

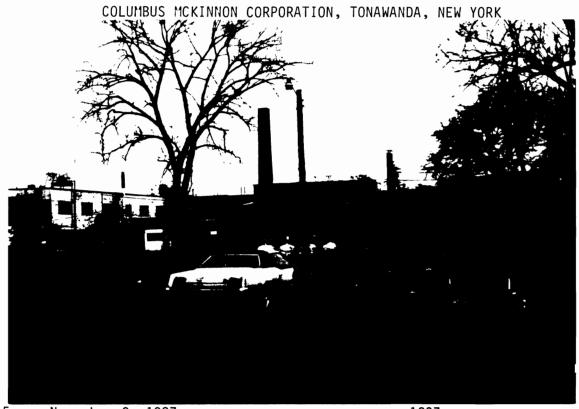
COLUMBUS MCKINNON CORPORATION TONAWANDA, NEW YORK TDD NO. 02-8710-95 NOVEMBER 9, 1987

PHOTOGRAPH INDEX

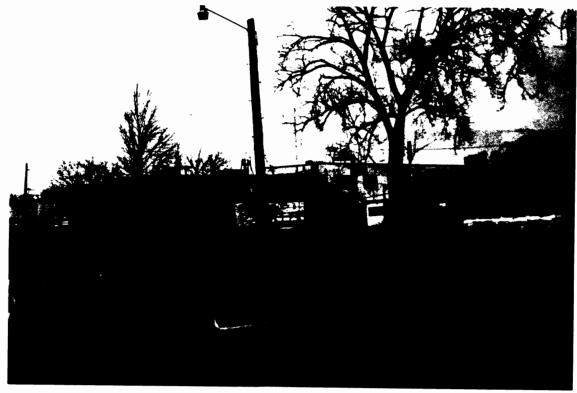
ALL PHOTOGRAPHS TAKEN BY DONNA RESTIVO

Photo Number	Description	Time
1P-15	View from Young Street facing north at the site.	1207
1P-16	View from Young Street facing northwest at the complex.	1209
1P-17	View from the corner of Young and Freemont Sts. facing north.	1213
1P-18	View from the corner of Young and Freemont Sts. facing northeast.	1214



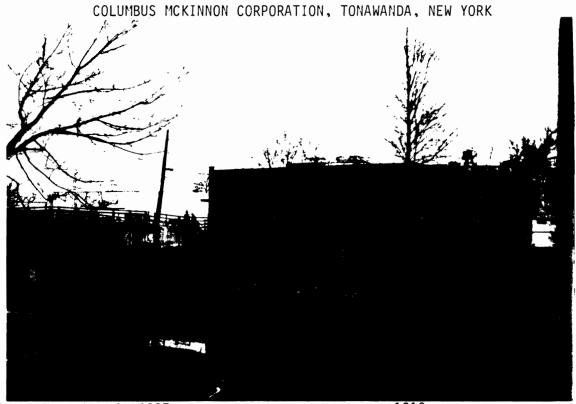


1P-15 November 9, 1987 1207 View from Young Street facing north at the site. Photographer: Donna Restivo.



1P-16 November 9, 1987 1209
View from Young Street facing northwest at the complex.
Photographer: Donna Restivo.





1P-17 November 9, 1987
View from the corner of Young and Freemont Sts. facing north.
Photographer: Donna Restivo.



1P-18 November 9, 1987
View from the corner of Young and Freemont Sts. facing northeast.
Photographer: Donna Restivo.

APPENDIX B BACKGROUND INFORMATION

02-8710-95

COLUMBUS MCKINNON

Lat: 43°01'03"N Long: 78°52'16"W

Data List of Dataset: MYCC Number of Records = 6

REC	\$‡	1	b/Ob	1	HOUSE	1		DISTANCE		SECTOR
	1	j	592	i	250]	~ _	0.400000	 	
	22	1 3,	641 3049	1	1180	1	0,5	0.810000	1	
	3		648 11007	į	4156	j	1	1.60000	į	
	4		721 33073	i	12271	í	2	3.20000	ł	
	5	192	218 44497	ł	15397	i	3	4.80000	١	
	6	1150	755 58537	1	21459	1	4	6.40000	l	
			, , -				1			

> cumulative Total

0004.F 02 87.7.45

> OSRIRF 10/12/87 Page 1 of 5

PRELIMINARY ASSESSMENT OFF SITE RECONNAISSANCE INFORMATION REPORTING FORM

Date: $\frac{11/2}{9/87}$
Site Name: Columbus Mc Kinnon Corp TDD: 02-8710-95
Site Address: Fillmore and Fremont St. Street, Box, etc.
Tonawanda
County
New York State
NUS Personnel: Name Discipline Donna Restivo Toxicologist
DR Geory Gilliland Geologist
Weather Conditions (clear, cloudy, rain, snow, etc.): Slightly Cloudy
Estimated wind direction and wind speed:
Estimated temperature: 40-95
Signature: Robert Self Date: 11/8/87
Countersigned: Date: 11/9/87

PRELIMINARY ASSESSMENT

INFORMATION REPORTING FORM

Date:
Site Name: Columbus Mckinnon Corp TDD: 02-8710-95
Site Sketch:
Indicate relative landmark locations (streets, buildings, streams, etc.). Provide locations from which photos are taken.
Fillmere Significant Colarisms (organization) of the state of the stat
Signature: //olar. // Date: //9/8) Countersigned: Postico Date: //9/87

PRELIMINARY ASSESSMENT

INFORMATION REPORTING FORM

Date:
Site Name: Columbus McKinnon Corp. TDD: 02-8710-95
Notes (Periodically indicate time of entries in military time): Low Re Columbus M Kennen Corp appears to be a large endertual park. The sign
lead. I think M'Kinnar own the property
projections Ellicall creek boardes the who the South and the Seven
or not sweeton steets. The Tragana Kine
in appear 5.1 mile wat of the site. The
Elliett crele flavour the coston diection,
NER:
Signature: Polis Date: 1/9/87 Countersignature: Ponna J. Resture Date: 1/9/87

PRELIMINARY ASSESSMENT INFORMATION REPORTING FORM

Date:						
Site Name:	Cdumbus	McKinn	on Cop.	TDD: _	02-8	710-95
Notes (Cont	:'d) :		·			
		-				
					9,	
		map/				
	E d'es	,				-44
. A Bersonsenson over on and Sa	ggs	.3 _(1).	wastines	and reference was stabilly	and the second s	
	tional sheets if signature on ea		Provide si	te name,	TDD num	ber, signature,
Signature: _				Date: _		
Countersign	ature:			Date: _		

PRELIMINARY ASSESSMENT INFORMATION REPORTING FORM

Date:	19/8?			
Site Name:	Colimbi	s McKin	nnon Corp TDD:_	02-8710-95
Photolog:				
Frame/Photo Number IP-/5(5)	<u>Date</u> /207	<u>Time</u> ///9	Photographer	Description View off Towns st. Looking North At site.
IP-16(5)	1209		D.R.	View off of Young St. locking North west At compley.
[P-17cs)	12/3		D. K.	View off of corner of Young & Fremont looking Lort
[P-18(s)]	1214		D.R.	View off of corner of Young a freeword looking No. the East at ithe
Attach additionand countersig			Provide site name,	TDD number, signature,
Signature: <u>k</u>	Poheld	Pers	Date: _	11/9/87
Countersignati	ure: Dom	na O. Ro.	A LARO Date:	11/9/87

SEPA

T2070-2 (10-79)

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION

SITE NUMBER (to be as-

2

N/0000 0 = 360

Continue On Reverse

NOTE: This form is completed for each potential hazardous was submitted on this form is based on available records and may be and on-site inspections.				
GENERAL INSTRUCTIONS: Complete Sections I and III through Assessment), File this form in the Regional Hazardous Waste Loadency; Site Tracking System; Hazardous Waste Enforcement Ta	og File and sub	omit a copy to: U.	S. Enviro	nmental Protection
I. SITE IDE	NTIFICATION			
A. SITE NAME	_	other identifier)		
Columbus McKinnon .	tremont	1,		
101 awanda	D. STATE	14150	F. COUNT	TY NAME
G. OWNER/OPERATOR (if known) 1. NAME	/		. 2. TEL ES	HONE NUMBER
Columbus WKinner Co-P.			71969	16 -3341
H. TYPE OF OWNERSHIP				
1. FEDERAL 2. STATE 3. COUNTY 4. MUNIC	_		JNKNOWN	
Les than one acre paral of plant property used to	in warte oil d	hiparal from 1	930 - 19	165. Also about 250
J. HOW IDENTIFIED (4.4., citizen'e complainte, OSHA citatione, etc.)				K. DATE IDENTIFIED (mo., day, & yr.)
L. PRINCIPAL STATE CONTACT				
Peter Buechi			716)6	42 - 1826
II. PRELIMINARY ASSESSMEN	NT (complete, ti	hia section last)		
1. HIGH 2. MEDIUM 3. LOW 4. NONE	5. U	INKNOWN		
B. RECOMMENDATION				
1. NO ACTION NEEDED (no hexard)		NATE SITE INSPECTATIVELY SCHEDU		
3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR:	b. WILL	BE PERFORMED	BY:	
b. WILL BE PERFORMED BY:	_/ —			
	¥4. SITE II	NSPECTION NEED!	ED (low pric	ority)
C. PREPARER INFORMATION				
1. NAME		PHONE NUMBER	- 1	3. DATE (mo., day, & yr.)
M. Mausthan	1:64-	-1573		11/16/81
III. SITE IN	FORMATION			
A. SITE STATUS 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)		nat include such incl		"midnight dumping" where ete dieposal has occurred.)
B. IS GENERATOR ON SITE? 1. NO 2. YES (epecity generation)	rator's four-digit	t SIC Code):		
C. AREA OF SITE (In acres) D. IF APPARENT SERIOUSNI	ESS OF SITE IS			
I Han one	:•)	Ž. LONGITU	DE (deg.—a	nin.—20C.)
E. ARE THERE BUILDINGS ON THE SITE?	, hig \$ the	· · · · · · · · · · · · · · · · · · ·		
				

Cor	tinued From Front											
				7. (HARACTERIZATIO	ON	OF SITE ACTIVIT	Υ				
Ind	icate the major site	activity(ies) and deta	ils	relating to each ac	tiv	ity by marking 'X' i	n ti	se appr	priate boxe	8.	
×	A. TRANSPORT	TER	x.	B. 9	STORER	×	C. TREATE	R	ŀ	x. (5. (DISPOSER
	1. RAIL		1. PILE			\exists	1. FILTRATION			1. LANDFI	LL	
	2. SHIP		2. SURFA	CE	MPOUNDMENT	ŀ	2. INCINERATION			2. LANDF	R	4
	3. BARGE		3. DRUM	<u> </u>		4	. VOLUME REDUCT!	ON		D. OPEN D	UM	•
	4. TRUCK		4. TANK	A 8	OVE GROUND	4	4. RECYCLING/RECO	VE	RY	4. SURFAC	•	MPOUNDMENT
Ц	S. PIPELINE		8. TANK.	BE	LOW GROUND	4	8. CHEM./ PHYS. TRE	AT	MENT	S. MIDNIGH	17	DUMPING
لِــا	6. OTHER (epecify):		6. OTHE	(pecify):	-	. BIOLOGICAL TREA			S. INCINE	_	
					-	-+	7. WASTE OIL REPRO			<u></u>		NOITSELNI GNUC
						_	6. SOLVENT RECOVE 6. OTHER (specify):	RY		land disp		ocity):
E.	E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED											
					V. WASTE RELATI	ED	INFORMATION					
Ш		2. LIQUIE	D3	. sc	OLID 4. SI	LU	DGE5. G	AS				
	6. TOXIC]2. CORRO]7. REACT			GNITABLE 4. R		DIOACTIVES. H	IGH	LY VOI	ATILE		
	WASTE CATEGORIE . Are records of waste		e? Specify its	ms	such as manifests, in	V 01	ntories, etc. below.					
2	. Estimate the amou	unt(speci	fy unit of med	18u	re)of waste by cate	go	ry; mark 'X' to indic	ate	which	wastes are p	re	sent.
	a. SLUDGE		OIL		c. SOLVENTS	Ť	d. CHEMICALS	Г		DLIDS		f. OTHER
AM	OUNT	27,000			AOUNT		MOUNT	^^	CUNT		۸۱	MOUNT
		gal.	MEASURE	Š	IT OF MEASURE	Űĺ	NIT OF MEASURE	UN	IT OF	MEASURE	U۱	HT OF MEASURE
×	(1) PAINT, PIGMENTS	X' 71) OIL	Y Es	'X'	(1) HALOGENATED SOLVENTS	Ľ	(1) A CIDS	'x'	(1) FLY	ASH	'×	(1) LABORATORY PHARMACEUT.
	(2) METALS SLUDGES	(2) 0 T	HER <i>(opocity):</i> •		(2) NON-HALOGNIDA SOLVENIS	L	(2) PICKLING LIQUORS		(2) ASB	ESTOS	L	(2) HOSPITAL
	(3) POTW			_	(3) OTHER(epocity):	L	(3) CAUSTICS	L	(3) MIL MIN	LING/ E TAILINGS	L	(3) RADIOACTIVE
	(4) ALUMINUM SLUDGE					L	(4) PESTICIDES	L	(4) FER	ROUS TG. WASTES		(4) MUNICIPAL
	(5) OTHER(epecify):					L	(8) DYES/INKS			FERROUS TG. WASTES	H	(5) OTHER (specify):
						L	(6) CYANIDE	۲	(6) OTH	ER(epocity):		
					·	L	(7) PHENOLS					
						L	(8) HALOGENS					
						L	(9) PCB					
)						L	(10) METALS	-				
						\vdash	(11) OTHER (apocity)	1				

 	
Minued From Page	2

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hezerd).

PcB

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

		VI. HAZ	ARD DESCRIPTI	ON
. A. TYPE OF HAZARD	B. POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo.,day,yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION 5. OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
8. OF SURFACE WATER	X			Ellicott Creek
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17- SEWER, STORM DRAIN PROBLEMS				
16. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES			•	
21. MIDNIGHT DUMPING				
22. OTHER (opecify):				

Continued From Front		2			-
		·	II. PERMIT INFO	PMATION	
A. INDICATE ALL APPLI	CABLE PER			nma I I VI	
1. NPDES PERMIT	2. SPC	C PLAN	3. STATE PERMIT(epecify):	
4. AIR PERMITS	5. LOC	AL PERMIT	6. ACRA TRANSPO	RTER	
7. RCRA STORER	_ & RCR	RA TREATER	9. RCRA DISPOSER	ı	
10. OTHER (epocify)	:		,		
B. IN COMPLIANCE?		-/	/		
1. YES	2. NO		3. UNKNOWN		
4. WITH RESPECT T	O (list regul	etion neme & number	r):		
		VIII. I	PAST REGULATOR	RY ACTIONS	
A. NONE	B. YE	S (summerize below,)		
_					
		IX. INSPEC	CTION ACTIVITY	(pest or on-going)	
A. NONE	☐ 8. YES	(complete items 1,2		,	
1		2 DATE OF	3. PERFORMED		
1. TYPE OF ACTIV	"177	PAST ACTION (mo., day, & yr.)	BY: (EPA/State)	4. DESCRIPTION	
					•
		X. REM	EDIAL ACTIVITY	(past or on-going)	
A. NONE	□ B. YE	S (complete items 1,			
1. TYPE OF ACTIV		2. DATE OF PAST ACTION	S. PERFORMED BY:	4. DESCRIPTION	
		(mo., day, & yr.)	(EPA/State)		
			·		

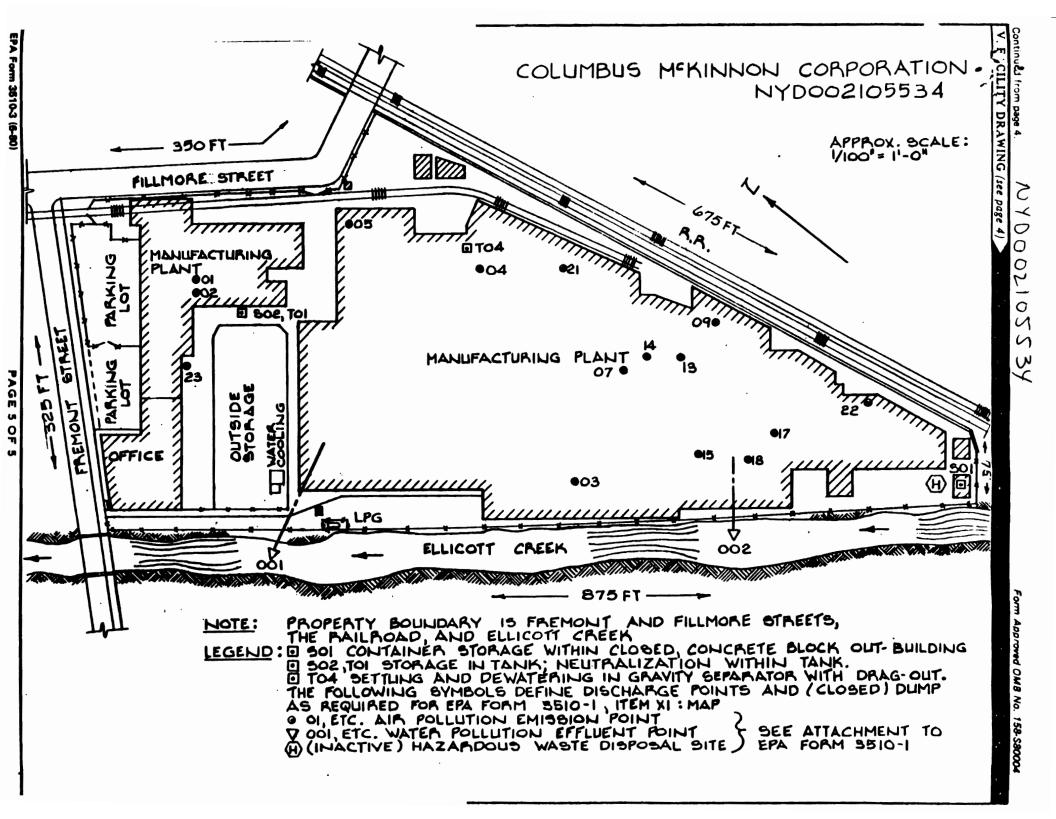
EPA Form T2070-2 (10-79)

information on the first page of this form.

PAGE 4 OF 4

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II)

Columbus Makingon has undertaken rampling Amalysis of Aruns, sail serings, to rediment samples of the creek of - acids & THO. They will then proporty clear the site with DEC's agreement.



MYDOOZIO 5534

123. COLUMBUS MCKINNON CORPORATION (Literature review)

NYSDEC 915016

General information and chemical-migration potential. -- The Columbus McKinnon Corporation site, in the city of Tonawanda, was used during 1930-65 to dispose of 27,000 gallons of water-soluble waste-cutting oils in an open pit 20 ft by 20 ft adjacent to Ellicott Creek (fig. B-17). The area has since been covered with soil and graded.

The geology, direction of ground-water flow, and results of the chemical analyses indicate a major potential for contaminant migration toward Fllicott Creek, but the rate of migration has not been determined. Additional information would be needed to determine the rate of movement in both the saturated and unsaturated zone.

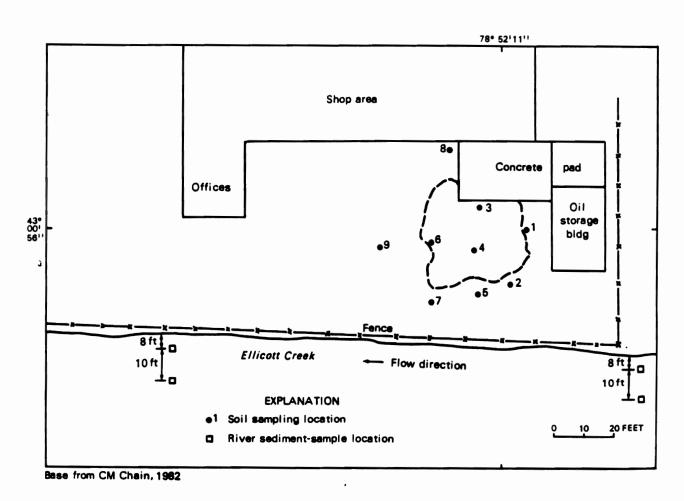


Figure B-17. Location of sampling holes at Columbus McKinnon Corporation, site 123, Tonawanda.

Hemorandum 8/7/84 Requesting
Consent Order - Remedial
Actions

Geologic information.—The site consists of fill overlying silt and fine sand. No deep test holes were drilled on the site, but the underlying bedrock is assumed to be Camillus Shale. Nine shallow test borings were drilled to a depth of 8 ft in 1981; all indicated only fill or fill overlying silt and fine sand.

Hydrologic information. -- No information was obtained from the borehole-drilling program. However, the direction of ground-water flow is probably toward Ellicott Creek.

Chemical information.—CM Chain collected several soil samples for poly-chlorinated biphenyls (PCB's) and total halogenated organics (THO) analysis. Locations of the boreholes are shown in figure B-17; results are given in tables B-17 and B-18. CM Chain also collected four stream-sediment samples for PCB and THO analysis; results are given in table B-19.

Source of data.--CM CHAIN, Division Columbus McKinnon Corporation, 1982, Closure plans for inactive landfill site, Tonawanda, New York: CM Chain, 22 p., 6 tables, 3 figs.

Table B-17.--Total polychlorinated biphenyl concentration in soil samples from Colombus McKinnon Corporation, site 123, Tonawanda, N.Υ. [Locations are shown in fig. B-17; concentrations are in μg/kg. Dashes indicate that samples were not taken.]

Depth of									
sample				Bore	ehole nu	ımber			
(ft)	1	2	3	4	5	6	7	8	9
0.0	124,100	1.610	164,000	78,800	2.560	59,800	1,290	<500	125,000
0.42 - 2.0				459,000					
1.0 - 1.8				•	201,000				
.84 - 1.68						13,600			
1.0 - 2.0		217,000							
1.25 - 2.5							549,000		
2.0 - 4.0									8,940
2.0 - 4.5			250						
3.3 - 3.5								210	
4.0 - 4.5					27,600				
4.0 - 5.5		74,300		165,000		7,100	53,00		560
3.5 - 5.5								150	
4.5 - 5.5			310						
5.5 - 7.0		49,100	230	141,000	17,100)	58,800	360	40
5.5 - 7.6						6,050	•		

Data from CM CHAIN, Division of Columbus McKinnon Corporation
Refusal due to concrete

Table B-18.--Concentrations¹ of total halogenated organic compounds (THO) in soil samples from Columbus McKinnon Corporation, site 123, Tonawanda, N.Y.² (Except for borehole 1, THO was from composite of samples from each borehole).

[Locations are shown in fig. B-17. Concentrations are in $\mu g/kg$.]

Borehole number	Total halogenated organics	Borehole number	Total halogenated organics
1	14,900	6	1,200
2	14,600	7	3,400
3	4,300	8	<100
4	19,000	9	4,000
5	2,600		

Total halogenated organics (THO) qualitative scan is used as an approximation of halogenated compounds based on a lindane standard curve.

Table B-19.--Concentration of polychlorinated biphenyls and total halogenated organic compounds in soil samples from Columbus McKinnon Corporation, site 123, Tonawanda, N.Y. [Concentrations are in µg/kg. Locations are shown in fig. B-17.]

Sample location	Total polychorinated biphenyls	Total halogenated organics
Upstream and 5.0 ft from bank	130,000	21,300
Upstream and 15.0 ft from bank	113,000	27,400
Downstream and 5.0 ft from bank	<390	37,000
Downstream and 15.0 ft from bank	570	52,000

¹ Data obtained from CM CHAIN, Division of Columbus McKinnon Corporation.

Data from CM CHAIN, Division of Columbus McKinnon Corporation.

600 Delaware Ave., Buffalo, NY 14202-1073 716/847-4552

October 17, 1986

Mr. John Dicky Columbus McKinnon Corporation One Fremont Street Tonawanda, NY 14150

Dear Mr. Dicky:

Order on Consent File No. 86-151

Enclosed is an Order on Consent pursuant to Article 27, Title 13 of the Environmental Conservation Law.

You may choose to execute the enclosed Order and return it to me or you may attend an informal conference to discuss the violation and Order. This conference would be held on Thursday, October 24, 1986 at 10:30 a.m. in our Buffalo offices. Please let me know on or before October 22, 1986 if you plan on attending this conference and/or signing the Order.

Very truly yours,

James Charles Asst. Regional Attorney

JC:ib

Enclosure

cc: Mr. Buechi

STATE OF NEW YORK: DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of a Remedial Action Plan to Mitigate
Any Threat to the Environment Caused by the Disposal of
Industrial and Hazardous Wastes by:

ORDER

ON CONSENT

COLUMBUS MC KINNON CORPORATION One Fremont Street Tonawanda, New York 14150 File No. 86-151 R9-1902-86-10

Respondent

.

WHEREAS:

adjacent to the site.

- 1. The New York State Department of Environmental
 Conservation (the "Department") is responsible for the enforcement of Article 27, Title 13, of the Environmental Conservation
 Law of the State of New York (the "ECL") entitled "Inactive
 Hazardous Waste Disposal Sites".
- 2. Columbus McKinnon Corporation (the "Respondent"), is a corporation organized and existing under the laws of the State of New York and is doing business in the State of New York in that Respondent owns a manufacturing facility in Tonawanda, New York.
 - 3. Respondent owns property at One Fremont Street, Tonawanda New York (the "Site"). A map of the Site is attached hereto and is hereby incorporated into this Order as Appendix "A".
- 4. Beginning approximately in 1930 and continuing to about 1965 Respondent disposed of hazardous and industrial wastes on the Site. Beginning in 1981, Respondent conducted environmental investigations at the site to define the extent and character of contamination at the site. These studies confirmed the presence of hazardous wastes in the soil on the site and in Ellicott Creek

- 5. As used herein, "hazardous wastes" shall mean hazardous wastes, any hazardous constituents thereof, and any toxic degradation products of such wastes and of each constituent.
- 6. The Site is an inactive hazardous waste disposal site, as that term is defined in ECL Section 27-1301(2).
- 7. The Department alleges the hazardous and industrial wastes, hazardous waste constituents, and toxic degradation products thereof at the Site constitute a significant threat to the environment.
- 8. Pursuant to Section 27-1313(3)(a) whenever the

 Commissioner of Environmental Conservation "finds that hazardous wastes at an inactive hazardous waste disposal site constitute a significant threat to the environment, he may order the owner of such site and/or any person responsible for the disposal of hazardous waste at such site (i) to develop an inactive hazardous waste disposal site remedial program, subject to the approval of the Department at such site, and (ii) to implement such program within reasonable time limits specified in the Order." In addition:

 "The Commissioner, after investigation, notice and an opportunity to be heard, may issue, modify and revoke orders prohibiting violations of any of the provisions of Article 27 or of any rule or regulation promulgated pursuant thereto and requiring the taking of such remedial measures as may be necessary or appropriate."

 ECL Section 71-2727(1).
- 9. The Department and Respondent acknowledge the goals of this Order to be that Respondent shall develop and implement a remedial action program to mitigate the threat to the environment

posed by the prior disposal of hazardous and industrial wastes at the site.

10. Respondent, having waived its right to a hearing herein as provided by law, and having consented to the issuance and entry of this Order, agrees to be bound by provisions, terms and conditions hereof.

NOW, having considered this matter and being duly advised, IT IS ORDERED THAT:

I. All proposals, reports, plans, remedial programs and supplements and revisions thereto required by this Order shall address on-Site contamination caused by the disposal of hazardous and industrial materials at and in the vicinity of the Site, and shall be prepared, designed and executed in accordance with Requisite Technology. As used in this Order, Requisite Technology means engineering, scientific and construction principles and practices subject to the Department's approval, which (a) are technologically feasible, and (b) will most effectively identify and remedy any present or potential threat to the human health and the environment posed by the disposal of hazardous and industrial wastes at and in the vicinity of the Site.

The failure of Respondent to submit or undertake a proposal, report, construction or any supplement or revision thereof, which is in accordance with Requisite Technology shall constitute a violation of this Order.

In fulfilling the obligations of this Order, Respondent may incorporate, as appropriate, portions of proposals, reports, protocols and plans previously submitted to the Department.

TANUMY 2, 1997
On or before November 1, 1986 the Respondent shall submit to the Department a Remedial Action Plan, when implemented, would mitigate and eliminate any threat to the environment posed by the brior disposal of hazardous and industrial wastes at the site.

Failure of the Respondent to submit the Remedial Action Plan by the above specified date shall result in a penalty not to exceed \$10,000.

Within thirty (30) days after its receipt of the Remedial Action Plan, the Department shall determine if the Plan has been prepared in accordance with the terms, provisions and conditions of this Order, and shall provide written notification to Respondent of its approval or disapproval of the Report.

If the Department disapproves the Plan, the Department shall notify Respondent in writing of the Department's objections. Within fifteen (15) days after its receipt of notice of disapproval Respondent shall revise the Plan and/or supplement the Plan in accordance with the terms, provisions and conditions of this Order and shall submit to the Department a Plan which has been revised in accordance with the Department's objections (the "Revised Plan").

Within fifteen (15) days after its receipt of the Revised Plan, the Department shall determine if the Revised Plan is in accordance with the terms, provisions and conditions of this Order and shall provide written notification to Respondent of its approval br disapproval of the Revised Plan per paragraph VIII.

The Remedial Action Plan or the Revised Remedial Action Plan whichever is approved by the Department, shall, become incorporated and made a part of this Order, and shall be attached hereto as

Appendix B and shall constitute the approved Remedial Action Plan for the Site.

III. Within thirty (30) days after receipt of the Department's approval of the Remedial Action Plan, or within such greater period as the Department may allow for good cause shown, Respondent shall submit to the Department a remedial design engineering report (the "Remedial Design").

Failure of the Respondent to submit the Remedial Design Engineering Report in accordance with the above specified schedule shall result in a penalty not to exceed \$10,000.

The Remedial Design shall include, but not be limited to, the following:

- a. A description of the means of effectuating the alternative technology(ies) selected which collectively constitute the Remedial Action Program ("Remedial Action Program"), and the quality control and quality assurance procedures and protocols to be applied to construction, to include, but not be limited to:
- l. The disposition of hazardous wastes, and any soil or other materials contaminated thereby.
- Collection, treatment and disposal of contaminated groundwater, leachate, air, and construction wastes.
 - 3. Physical security and posting of the Site;
- 4. Health and safety of persons living and/or working at or in the vicinity of the areas being remediated;
- 5. Quality control and quality assurance procedures and protocols to be applied to Remedial Program construction and operations; and

- 6. Comprehensive air monitoring on-Site during implementation of the Remedial Program;
- 7. A time schedule for the construction of the elements of the Remedial Program;
- 8. The parameters, conditions, procedures and protocols to determine the effectiveness of the Remedial Program, including a schedule for periodic sampling of existing and planned groundwater monitoring wells on-Site;
- 9. A description of the operation, maintenance and monitoring activities, procedures and protocols to be undertaken during the period commencing upon completion of the construction of the elements of the Remedial Program, including a provision for submission to the Department of periodic monitoring and evaluation reports measuring the effectiveness of the Program; and
- 10. A contingency response Remedial Program to be implemented in the event that any element of the Remedial Program fails to operate in accordance with the Remedial Design, prior to the date ten (10) years after satisfactory completion of construction pursuant thereto, or for such other period to protect public health or the environment.
- ll. "Contract-ready" documents for the construction of the elements of the Remedial Program, including plans and specifications prepared and certified by a licensed professional engineer registered in the State of New York which shall satisfy all applicable state and federal laws and rules and regulations.

IV. Within thirty (30) days after its receipt of the Remedial Design, the Department shall determine if the design was prepared in accordance with the terms, provisions and conditions of this Order and shall provide written notification of its approval or disapproval.

If the Department disapproves the Remedial Design, the Department shall notify Respondent in writing of the Department's objections. Within fifteen (15) days after its receipt of notice of disapproval, Respondent shall revise the Remedial Design and shall submit to the Department a Remedial Design which has been revised in accordance with the Department's objections (the "Revised Remedial Design").

Within fifteen (15) days after its receipt of the Revised

Remedial Design, the Department shall determine if the Revised

Remedial Design is in accordance with the terms, provisions and conditions of this Order, and shall provide written notification to Respondent of its approval or disapproval of the Revised Remedial Design per Paragraph VIII.

The Remedial Design or the Revised Remedial Design, which is approved by the Department shall become incorporated in and made a part of this Order, and shall be attached hereto as Appendix C.

Such Remedial Design shall hereafter be referred to as the "Approved Remedial Design".

V. Within such period as may be allowed therefore by the Approved Remedial Design, Respondent shall complete construction pursuant to Remedial Design, and within forty-five (45) days thereafter, Respondent shall submit to the Department as built

drawings and the certification that construction was completed in accordance with the Approved Remedial Design. Such certification shall be made by a licensed Professional Engineer registered in the State of New York.

Within forty-five (45) days after receipt of the as built drawings and certification, the Department shall review the same and provide comments to the Respondent.

If the Department acknowledges that the implementation is complete and in accordance with the Approved Remedial Design then, notwithstanding any provision contained in this Order to the contrary, for a period of ten (10) years from the date of the Department's written acknowledgement that Respondent has completed the implementation of the construction and other elements of the approved Remedial Design, or for such other lesser period of time as directed by the Department, Respondent shall maintain and monitor the areas at which the Approved Remedial Design is implemented. shall collect, treat and dispose of any leachate generated thereat. and shall provide for physical security thereat (the "Post-Closure Period") in accordance with the Approved Remedial Design. During the Post-Closure Period, Respondent shall provide the Department with periodic monitoring reports, as set forth in the Approved Remedial Design. The Department's acknowledgement of completion of implementation shall be in recordable form and shall be acknowledged by the Department before a notary public.

VII. No later than fifteen (15) days after the issuance of this Order by the Department, Respondent shall post or deposit with the Department an approvable surety in a form acceptable to the Department, in the sum of \$750,000.00. Such surety shall be non-cancellable, non-diminishable, non-reducible and non-impairable until the Department acknowledges completion of the elements of the Remedial Program pursuant to Paragraph VI, and, thereafter, shall be in the sum of \$30,000.00 for so long as the Post-Closure Period shall run.

Should Respondent at any time fail to fulfill any of the terms hereof, the issuer of the surety instrument shall, upon demand by the Department, pay over to the Department a sufficient portion necessary to procure substitute performance of such terms; provided, however, that in no event shall the acceptance of any payment constitute a waiver by the Department of any right to relief that the Department may have.

VIII. If the Department disapproves a revised submission, the Department and Respondent shall meet within ten (10) days of the Respondent's receipt of the Department's disapproval notification to resolve the Department's objections to the revised submission. In the event that the Department and Respondent cannot resolve the Department's objections to the revised submission, the Department may take any action and pursue any remedy to which it is entitled by law.

IX. At its option, the Department shall have the right to obtain, for the purpose of comparative analysis, "split samples" or "duplicate samples" of all substances and materials sampled by

Respondent pursuant to this Order. As used herein: "split samples" shall mean whole samples divided into aliquots; "duplicate samples" shall mean multiple samples, collected at the same time from exactly the same location, using the same sampling apparatus, collected into identical containers prepared identically, filled to the same volume, and thereafter identically handled and preserved.

- X. Respondent shall provide notice to the Department of any excavating, drilling, sampling or construction activities to be conducted pursuant to the terms of this Order at least two (2) working days in advance of such activities.
- XI. Respondent shall permit any duly designated officer, employee consultant, contractor or agent of the Department to enter upon the site or areas in the vicinity of the Site which may be under the control of Respondent, and any areas necessary to gain access thereto, for inspection purposes and for the purpose of making or causing to be made such sampling and tests as the Department deems necessary, and for ascertaining Respondent's compliance with the provisions of this Order.
- XII. Respondent shall obtain whatever permits, easements, rights-of-way, rights-of-entry, approvals or authorizations which are necessary in order to perform the Investigation and all of Respondent's other obligations pursuant to this Order.

 Respondent shall promptly notify the Department in the event of Respondent's inability to obtain such authorizations on a timely basis. In such event, the Department shall use its best efforts, consistent with its legal authority to asist in obtaining, as appropriate, all such authorizations which Respondent was unable to

obtain. If, despite Respondent's best efforts described in this paragraph, Respondent does not obtain the aforementioned authorizations on a timely basis, the time for performance of its obligations pursuant to this Order shall be extended as appropriate.

XIII. Any laboratory used by the Respondent shall have Department

XIII. Any laboratory used by the Respondent shall have Department approval.

XIV. Respondent shall not suffer any penalty under any of the provisions, terms and conditions hereof, or be subject to any proceedings or actions for any remedy or relief, if it cannot comply with any requirements of the provisions hereof because of an act of God, war, riot, or other condition as to which negligence or willful misconduct on the part of Respondent was not a proximate cause, provided, however, that Respondent shall immediately notify the Department in writing within five (5) days when it obtains knowledge of any such condition and request an appropriate extension or modification of the provisions hereof.

XV. The failure of Respondent to comply with any provision of this Order shall constitute a default and a failure to perform an obligation under this Order and under the ECL.

XVI. Nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting (1) any legal or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against anyone other than Respondent, its directors, officers, employees, servants, agents, successors and assigns; (2) the Department's right to enforce, at law or in equity, the terms and conditions of this

Order against Respondent, its directors, officers, employees, servants, agents, successors and assigns in the event that Respondent shall fail to fulfill any of the provisions hereof; and (3) the Department's right to bring any action, at law or in equity against Respondent, its directors, officers, employees, servants, agents, successors, and assigns with respect to areas or resources that may have been affected or contaminated as a result of the release or migration of hazardous or industrial wastes from the Site or from areas in the vicinity of the Site.

XVII. The terms of this Order shall not be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers, either at common law or as granted pursuant to statute or regulation.

XVIII. Respondent shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless for all claims, suits, actions, damages and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of the provisions hereof by Respondent, its directors, officers, employees, servants, agents, successors or assigns, except to the extent the same results from the negligence of the Department.

XIX. The effective date of this Order shall be the date this Order is signed by the Commissioner or his designee.

XX. If, for any reason, Respondent desires that any provision of this Order be changed, Respondent shall make timely written application therefor to the Commissioner, setting forth reasonable grounds for the relief sought.

XXI. Within thirty (30) days after the effective date of this Order, Respondent shall file a Declaration of Covenants and Restrictions with the real property records of the Erie County Clerk's Office, for the purpose of providing notice of this Order to all potential future purchasers of any portion of the Site.

Said Declaration must indicate that any successor in title to any portion of the Site shall be responsible for implementing the provisions of this Order.

XXII. In the event that Respondent proposes to convey the whole or any part of its ownership interest in this Site, Respondent shall, not less than twenty (20) days prior to the consummation of such proposed conveyance, notify the Department in writing of the identity of the transferee and of the nature and date of the proposed conveyance. In advance of such proposed conveyance.

Respondent shall notify the transferee in writing, with a copy to the Department, of the applicability of this Order.

- XXIII. A. All communication required hereby to be made between the Department and Respondent shall be made in writing and transmitted by United States Postal Service return receipt requested, or hand delivered to the address as listed hereinunder.
- B. Communication to be made from Respondent to the DEC, shall be made as follows:
- 1. Two copies to the Regional Director, Region 9, 600 Delaware Avenue, Buffalo, New York 14202-1073.
- 2. Two copies to the Director Division of Solid and Hazardous Waste, Room 209, 50 Wolf Road, Albany, New York 12233.

C. Communication to be made from the Department to Respondent shall be made as follows:

John Dicky
Columbus McKinnon Corporation
One Fremont Street
Tonawanda, New York 14150

- D. The Department and Respondent respectively reserve the right to designate other or different addresses on notice to the other.
- E. No informal advice or guidance by the

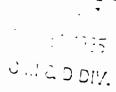
 Department's officers or employees or representatives upon any
 plan, report, proposal, study or other document, or modifications
 or additions thereto, submitted by Respondent to the Department,
 shall relieve Respondent of any obligation it may have to obtain
 the Department's formal written approval of the same.
- XXIV. The provisions of this Order shall be deemed to bind
 Respondent, its officers, directors, agents, servants, employees,
 successors and assigns.
- XXV. Nothing herein shall be construed to bind any entity not specifically bound by the terms of this Order.
- XXVI. The provisions hereof shall constitute the complete and entire Order between Respondent and the Department concerning the Site. No terms, conditions, understandings or agreements purporting to modify or vary the terms hereof shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestions or comments by the Department

regarding reports, proposals, plans, specifications, schedules or any other writing submitted by Respondent shall be construed as relieving Respondent to its obligations to obtain such formal approvals as may be required by this Order.

DATED:

, New York

HENRY G. WILLIAMS
Commissioner
New York State Department of
Environmental Conservation



"OW-2 GROUNDWATER SAMPLE SPLIT WITH THE DEC AND ANALYSED FOR VOLATILES AND PCB'S"

Report Prepared For

COLUMBUS MCKINNON CORPORATION
CM CHAIN DIVISION

Ву

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

W. Joseph McDougall, Ph.D. Technical Evaluation

February 18, 1985 AES Job RI

SCOPE OF WORK

Mr. Peter Buechi, P.E., Associate Sanitary Engineer for the New York State Department of Environmental Conservation, required that a groundwater sample from OW-2 be split with the DEC and analyzed for priority pollutant volatiles and PCB'S. This request was made January 3, 1985 at a meeting at the DEC office.

COLLECTION OF SAMPLES

Dr. W. Joseph McDougall of AES purged the well OW-2 to dryness; approximately 2.5 gallons of purged groundwater was obtained. On January 14, 1985, sample splits of the groundwater were obtained with Mr. Ahmad Tayyebi of the DEC. The samples for AES were transported in an insulated chest with blue ice, directly to the laboratory.

ANALYTICAL METHODOLOGY

The sample for Volatile Organics Analysis was spiked at AES. All the VOA vials were coded and air-freighted to Compuchem Laboratories.

The extractable fraction was analyzed for PCB'S and Pesticides.

TYPE OF ANALYSIS: GC - TEST CONTROLS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	TYPE	ORIGINAL CONC.	ADDED CONC.	EXPECTED CONC.	REPORTED CONC.	PERCENT RECOVERY	95% CONFIDENTINE
FCB 1254	75-SPK	<0.10	5.62	5.62	6.50	115.6	
LINDANE	75-SPK	<0.02	79.76	79.76	94.99	119.1	

TYPE OF ANALYSIS: GC - TEST CONTROLS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

ANALYSIS	TYPE	ORIGINAL CONC.	ADDED CONC.	EXPECTED CONC.	REPORTED CONC.	PERCENT RECOVERY	95% CONFIDENC. INTERVAL
TRICHLOROETHYLENE TETRACHLOROETHYLENE TRANS-1,2-DICHLOROETHYLENE CAPBON TETRACHLORIDE BENGENE VINYL CHLORIDE	75-SPK 75-SPK 75-SPK 75-SPK 75-SPK 75-SPK	<10 <10 100 <10 <10 115	190 170 160 180 190 160	190 170 260 180 190 275	130 110 190 100 130 250	68.4 64.7 73.1 55.6 68.4 90.9	1 1

TYPE OF ANALYSIS: GC - QUALITY CONTROL DUPLICATE *

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

ANALYSIS	SAMPLE	ORIGINAL CONC. "	DUPL.	AVERAGE CONC.	RANGE	REL. % DIFF.	1
VINYL CHLORIDE TRANS-1,2-DICHLOROETHYLENE	75 75	120 100	110 100	115 100	10	8.7	,

^{*}All compounds not listed were below determinable limits Relative Percent Difference = Ringe/Average X 100

TYPE OF ANALYSIS: GC - QUALITY CONTROL DUPLICATE

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	SAMPLE	ORIGINAL CONC.	DUPL. CONC.	AVERAGE CONC.	RANGE	REL. % DIFF.
FCL 1260	75	<0.12	<0.12	NA	NA	NA
FCB 1254	75	<0.10	<0.10	NA	NA	NA
ICB 1242	75	<0.11	<0.11	NA	NA	` NA
ENDRIN	75	<0.02	<0.02	NA	NA	NA
LINDANE	75	<0.02	<0.02	NA	NA	NA
HETHOLYCHLOR	75	<0.04	<0.04	NA	NΛ	NА
TOXAPHENE	75	<1.67	<1.67	NA	` NA	NA

TYPE OF ANALYSIS: PCBs AND PESTICIDES UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C. M. CHAIN A.E.S. JOB CODE 03RI

ANALYSIS	METHOD	REF	SAMPLE IDENT	IFICATION	
			DETERMINABLE LIMITS	75 0W-2 1-14-85	
LINDANE (GAMMA BHC)	608	1	0.02	BDL	•
INDRIN	"	ï	0.02	BDL	
TOXALHENE	**	**	1.67	BDL	
METEOXYCHLOR	"	11	0.04	\mathtt{BDL}	
PCB 1260	"	**	0.12	BDL	· ·
I'CB 1254	"	***	0.10	\mathtt{BDL}	
FCB 1242	**	"	0.11	\mathtt{BDL}	

SUSAN M. CERQUETTI/
G. C. DIVISION

TYPE OF ANALYSIS: VOLATILE ORGANICS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	METHOD	REF	SAMPLE I	DENTI	FICATION		
			DETERMINAB LIMITS	LE	75 1-14-85 OW-2	76 1-14-85 FIELD BLK	
1,1,2,2-TETRACHLORETHYLENE	624	1		10	BDL	BDL	
ETHYLENE	**	"		10	BDL	BDL	
1,1,2,2-TETRACHLOROETHANE	"	"		10	BDL	BDL	
TOLUENE	**	**		10	BDL	BDL	
CHLOROBENZENE	"	"		10	BDL ·	BDL	•
ETHYLBUNZEHE	"	"		10	\mathtt{BDL}	BDL	
2-CHLOROETHYL VINYL ETHER	**	**		10	BDL	BDL	

SUSAN M. CERQUETTI

TYPE OF ANALYSIS: VOLATILE ORGANICS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

	ANNLYSIS	METHOD	REF	SAMPLE IDENT	IFICATION		
_				DETERMINABLE LIMITS	75 1-14-85 OW-2	76 1-14-85 FIELD BLK	
	CHLOROHETHARE	624	1	10	BDL	BDL	
	TINYL CHLORIDE	"	**	10	115	BDL	
	HLOROETHANE	"	"	10	BDL	BDL	
	BEOMOMETHANE	"	**	10	\mathtt{BDL}	BDL	
	MCROLUIN	**	"	100	BDL.	BDL	
	CRYLONITRILE	"	11	100	\mathtt{BDL}	\mathtt{BDL}	
	ILTHYLENE CHLORIDE	"	"	10	BDL	BDL	
	TRICHLOROFLUOROMETHANE	"	"	10	BDL	BDL	
	, 1-DICHLOROETHYLENE	"	"	10	BDL	BDL	
4	1,1-DICHLOROETHAME	"	"	10	BDL	BDL	
	TRANS-1,2-DICHLOROETHYLENE		"	10	. <u>100</u> .		
	CHLOROFORM L, 2-DICHLOROETHANE		"	10	BDL	BDL	
	1,1,1-TRICHLOROETHANE	"	"	10	BDL	BDL	
	CARBOH TETRACHLORIDE	"	"	10	BDL	BDL	
	ROHOLI CHLOROMETHANE	"	"	10 10	BDL	BDL	
	1,2-DICHLOROPROPANE	"	"	10	BDL	BDL	
	FRANS-1,3-DICHLOROPROPENE	**	.,	10	BDL	BDL	
	IRICHLOROETHYLENE	"	11	10	BDL BDL	BDI. BDL	
	BENGLESE		•	10	BDL	BDL	
	CIS-1,3-DICHLOROPROPENE	**		10	EDI.	BDL	
	1,1,2-TRICHLOROETHANE	"	"	10	BDL	BDL	
	DIEL GEOCHLOROMETHANE		•	10	BDL	BDL	
	I KONCI CRII		"	10	BDL	BDL	
	• • • •			10	221	DUB	

SUSAN M. CERCUETTI I
G. C. DIVISION

The site was used by Occidental Chemical (Durez Division) and Bell Aerospace for the disposal of 25,000 tons of phenolic molding compounds, 50 tons of oil and grease, and 50,000 tons of domestic refuse.

Contaminant migration would be expected from this site. The fill is fairly permeable, enabling groundwater to move freely toward the Niagara River. Downward movement of contaminants through the clay unit is unlikely because of its very low permeability.

The geology of the site consists of fill overlying a Holocene lacustrine clay which overlies a bedrock of Camillus Shale. The depth to bedrock is approximately 7.6 metres (25 feet).

In 1982, the USGS installed a monitoring well and collected a sample along with a sample from each of four existing wells. The samples were analyzed for arsenic, cadmium, chromium, copper, lead, mercury, and nickel as well as for organic compounds using a GC/MS acid-base neutral scan.

Elevated levels of lead and nickel were quantified as indicated in the following listing. Organic compounds including a number of priority pollutants were also quantified.

	Concentration	(ug/L)
<u>Parameter</u>	<u>Maximum</u>	Mean
Lead	150	99
Nickel!/	20	7
Pheno11/	1,914	405
Naphthalenel/	50	10
Butylbenzyl phthalatel/	21	4
2-Ethylhexyl phthalate	8	2
2,4-Dimethylphenoll/	5	1
m-Cresol	370	113
p-Creso1	18	4

L/ EPA priority poliutant

COUNTY OF ERIE DEPARTMENT OF ENVIRONMENT AND PLANNING DIVISION OF ENVIRONMENTAL CONTROL

* * * MEMORANDUM * * *

FROM: E. Joseph Sciascia

DATE: 10/7/85

TO: Peter Buechi, NYSDEC

SUBJECT: Columbus McKinnon

May 29, 1985 Sediment Sampling Results

(July 26, 1985 Report)

Thank you for a copy of the subject report for our review. Please consider the following comments:

1) On October 8, 1982, sediment samples were collected directly into sample jars (affixed to an extending fiberglass surveyor's pole). Samples were collected at approximately 5 feet and 15 feet from the creek. Sampling results showed problem levels of PCB's at stations #3 and #4.

Sample ID	PCB's (PPM)
3 - 5 feet	107.01
3 - 15 feet	127.37
4 - 5 feet	365.97
4 - 15 feet	222.20

On October 29, 1982 additional sediment samples were collected apparently using the same sampling technique. However, results of sampling in areas other than what was done on October 8, 1982 showed all sample concentrations below 50 ppm (the action level).

2) On July 6, 1983, another round of sediment samples was collected. This time a boat was used to collect samples. Sampling was done further out in the creek than the previous sampling. Apparently a similar sample collection technique was used. All samples showed less than 50 ppm of PCB's. This lead to the conclusion that PCB's were essentially only present within 25 feet of the creek bank in sediment at levels of concern in the vicinity of station #3 and #4 near the oil storage building. Fine grain size of the sediment at these locations lead to a major concern with potential PCB migration from the area.

Peter Buechi October 7, 1985 Page 2

3) Most recent samples collected on May 29, 1985 were collected as part of preparation for an overall remedial plan. However, samples were collected using a different method. This time, samples were collected using a split spoon sampling device (2 foot long, 2 inches in diameter). Samples were collected at approximately the same locations as the October 8, 1982 sampling apparently to determine the depth of contamination. Sample results indicate very low levels of PCB's (substantially less than 50 ppm).

DISCUSSION

Our review assumes valid sample collection and analytical techniques were used and that quality control measures were acceptable. Sample results to data may be consistant with expectation considering the different sampling techniques used. The first sampling appears to represent a thin layer of the sediment surface. It is questionable whether a person standing on shore could collect a sample six inches deep.

Follow-up sampling results on May 29, 1985 may be representative of the entire cross section (six inches) depth. This may account for the substantially lower concentrations of PCB's found. If this is the case, then it does appear that the additional sampling may be necessary to adequately characterize the thin surface layer of sediment. Additional sampling would also indicate whether contaminant migration (through transport) has occurred.

CONCLUSION

- Sample results from the May 29, 1985 indicate that contamination is either limited to the very surface of creek sediment or has migrated downstream.
- 2) Additional sampling (or analysis of existing samples) of the surface sediment appears to be necessary before any definitive conclusions can be made about contamination depth or migration.
- 3) Assuming PCB's are still present in the sediment surface at levels of concern, any removal efforts should be tailored to prevent the spread of contaminates to other areas.

TECHNICAL COMMENTS

1) There are inconsistancies between narrative description on sample location and depth as compared to the tabulated results.

Peter Buechi October 7, 1985 Page 3

2) Resulty much higher than the determinable limits are shown as less than (<) values. Apparently dilution problems caused this. The report should reflect this notation for all such values. Only a few are so identified by an asterisk.

E. JOSEPH SCIASCIA, P.E.

Joseph Sussia

Sr. Environmental Quality Engineer

EJS/bb

cc: A. T. Voell

CM 1) Joes Fyx

COLUMBUS MCKINNON CORPORATION CHAIN DIVISION ONE FREMONT STREET TONAWANDA, NEW YORK 14150 718/696-3200

Séptember 25, 1985

New York State Dept. of Environmental Conservation Mr. Ahmad Tayyebi 600 Delaware Avenue Buffalo, NY 14202-1073

Subject: Groundwater Sample Test Results

Dear Mr. Tayyebi:

Attached you will find one copy of "OW-2 Groundwater Sample Split with the DEC and Analysed for Volatiles and PCB's" report prepared by Advanced Environmental Systems, Inc. dated February 18, 1985. I apologize for the oversight in not sending you a copy of this report. At our December 1984 meeting we discussed Calculated Loading to Ellicott Creek, CM Chain, Tonawanda, New York, report and that report contained the results of groundwater analysis in October 1983.

I believe the above gives you the complete information with respect to groundwater analysis.

If there is anything further that you will need, please call me at your convenience.

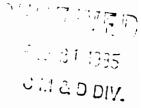
Sincerely,

John Dicky, Mamager

Chainmaker Manufacturing and

Development Division

JD:asc Enc.



"OW-2 GROUNDWATER SAMPLE SPLIT WITH THE DEC AND ANALYSED FOR VOLATILES AND PCB'S"

Report Prepared For

COLUMBUS MCKINNON CORPORATION
CM CHAIN DIVISION

Ву

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

W. Joseph McDougall, Ph.D.
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The extractable fraction was analyzed for PCB'S and Pesticides.

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UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

	ANALYSIS	METHOD	REF	SAMPLE IDENT	IFICATION		
_				DETERMINABLE LIMITS	75 1-14-85 OW-2	76 1-14-85 FIELD BLK	
							,
	CHLOROMETHANE	624	1	10	\mathtt{BDL}	/ BDL	
	INYL CHLORIDE	"	11	10	115 /	BDL	
	CHLOROETHANE	"	11	10	\mathtt{BDL}	\mathtt{BDL}	
	BROMOMETHANE	**	"	10	\mathtt{BDL}	\mathtt{BDL}	
	ACROLEIN	"	"	100	BDL ·	\mathtt{BDL}	
	CRYLONITRILE	11	"	100	\mathtt{BDL}	\mathtt{BDL}	
	ETHYLENE CHLORIDE	"	"	10	\mathtt{BDL}	\mathtt{BDL}	
	RICHLOROFLUOROMETHANE	"	11	10	\mathtt{BDL}	\mathtt{BDL}	
	,1-DICHLOROETHYLENE	"	"	10	\mathtt{BDL}	BDL	
	,1-DICHLOROETHANE	11	"	10	\mathtt{BDL}	/ BDL	
	RANS-1,2-DICHLOROETHYLENE	"	"	10	100 4	BDL	
	CHLOROFORM	**	"	10	BDL	\mathtt{BDL}	
	,2-DICHLOROETHANE	**	**	10	\mathtt{BDL}	\mathtt{BDL}	
	,1,1-TRICHLOROETHANE	"	"	10	\mathtt{BDL}	\mathtt{BDL}	
	CARBON TETRACHLORIDE	"	"	10	\mathtt{BDL}	BDL	
	BRCMODICHLORGMETHANE	"	"	10	\mathtt{BDL}	\mathtt{BDL}	•
	,2-DICHLOROPROPANE	**	"	10	\mathtt{BDL}	BDL	
	TRANS-1,3-DICHLOROPROPENE	**	"	10	BDL	\mathtt{BDL}	
Γ	RICHLOROETHYLENE	11	11	10	BDL	BDL	
	BENZENE	11	11	10	BDL	BDL	
	CIS-1,3-DICHLOROPROPENE	"	11	10	\mathtt{BDL}	\mathtt{BDL}	
	,1,2-TRICHLOROETHANE	"	"	10	\mathtt{BDL}	BDL	
	DI BROMOCHLOROMETHANE	"	"	10	\mathtt{BDL}	BDL	
ł	PROMOFORM	11	11	10	BDL	\mathtt{BDL}	
							/

SUSAN M. CERQUETTI

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UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	METHOD	REF	SAMPLE IDEN	TIFICATION		
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						`
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ETHYLENE	**	"	10	BDL	BDL	
1,1,2,2-TETRACHLOROETHANE	••	**	10	BDL	BDL	
TOLUENE	"	**	10	BDL	BDL	
CHLOROBENZENE	••	11	10	BDL	BDL	
ETHYLBENZENE	"	"	10	BDL	BDL	
2-CHLOROETHYL VINYL ETHER	**	**	10	BDL	BDL	

SUSAN M. CERQUETTI

TYPE OF ANALYSIS: PCBs AND PESTICIDES UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C. M. CHAIN A.E.S. JOB CODE 03RI

ANALYSIS	METHOD	REF	SAMPLE IDENT	IFICATION	
			DETERMINABLE LIMITS	75 0W-2 1-14-85	
LINDANE (GAMMA BHC) ENDRIN TOXAPHENE METHOXYCHLOR PCB 1260 PCB 1254 PCB 1242	608	1 ""	0.02 0.02 1.67 0.04 0.12 0.10 0.11	BDL BDL BDL BDL BDL BDL BDL BDL	·

SUSAN M. CERQUETTIA

TYPE OF ANALYSIS: GC - QUALITY CONTROL DUPLICATE

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	SAMPLE	ORIGINAL CONC.	DUPL. CONC.	AVERAGE CONC.	RANGE	REL. % DIFF.
FCB 1260	75	<0.12	<0.12	NA	NA	NA
PCB 1254	75	<0.10	<0.10	NA	NA	· NA
PCB 1242	75	<0.11	<0.11	NA	NA	NA
ENDRIN .	75	<0.02	<0.02	NA	NA	NA
LINDANE	75	<0.02	<0.02	NA	NA	NA
METHOXYCHLOR	75	<0.04	<0.04	NA	NA	NA
TOXAPHENE	75	<1.67	<1.67	NA	NA	NA

TYPE OF ANALYSIS: GC - QUALITY CONTROL DUPLICATE *

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

ANALYSIS	SAMPLE	ORIGINAL CONC.	DUPL. CONC.	AVERAGE CONC.	RANGE	REL. % DIFF.
VINYL CHLORIDE TRANS-1,2-DICHLOROETHYLENE	75 75	120 100	110 100	115	10	8.7

^{*}All compounds not listed were below determinable limits Relative Percent Difference = Range/Average X 100

TYPE OF ANALYSIS: GC - TEST CONTROLS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 01RI

ANALYSIS	TYPE	ORIGINAL CONC.	ADDED CONC.	EXPECTED CONC.	REPORTED CONC.	PERCENT RECOVERY	95% CONFIDENC. INTERVAL
TRICHLOROETHYLENE TETRACHLOROETHYLENE TRANS-1,2-DICHLOROETHYLENE CARBON TETRACHLORIDE BENZENE VINYL CHLORIDE	75-SPK 75-SPK 75-SPK 75-SPK 75-SPK 75-SPK	<10 <10 100 <10 <10	190 170 160 180 190 160	190 170 260 180 190 275	130 110 190 100 130 250	68.4 64.7 73.1 55.6 68.4 90.9	. I.

TYPE OF ANALYSIS: GC - TEST CONTROLS

UNITS OF MEASURE: MICROGRAMS/LITER, OR PPB

CLIENT: C M CHAIN A.E.S. JOB CODE 02RI

ANALYSIS	TYPE	ORIGINAL CONC.	ADDED CONC.	EXPECTED CONC.	REPORTED CONC.	PERCENT RECOVERY	95% CONFIDENTINE INTERVAL
PCB 1254 LINDANE	75-SPK 75-SPK	<0.10	5.62 79.76	5.62 79.76	6.50 94.99	115.6	4.7-22.8-13

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Jack Tygert Peter Buechi Columbus McKinnon Site

November 19, 1986

On November 14, 1986, a meeting was held with representatives from Columbus McKinnon to discuss the consent order previously sent to the firm. In attendance were the writer, James Charles, John Dicky, Joseph McDougall, and Columbus McKinnon's attorney, Morgan Grant. A summary of the meeting follows:

- Columbus McKinnon (CM) has concluded that containment is the preferred remedial alternative. None of the treatment alternatives studied as well as excavation/removal are feasible due to cost. These alternatives range in cost from \$1.5 to \$3 million.
- CM will submit a review of all remedial alternatives that will include costs as well as advantages and disadvantages of each. This report will be submitted with the remedial action plan.
- CM's containment plan will include:
 - Installation of a concrete or steel sheet pile barrier along the creek.
 - Removal of contaminated sediments by vacuuming creek bottom. Water and sediments will be decanted with water treated by sand filtration and granular carbon prior to discharge to stream or city sewer system.
 - Dewatered sediments would be placed on site.
 - Outlying areas with PCB's would be excavated and brought back to main site.
 - Asphalt cap would be placed over entire site.
 - Existing wells would be removed.
 - Long term monitoring and maintenance program for the cap.
 - Health and safety plan.
- I advised CM that I saw possible problems with discharge of water back to the creek and removal of monitoring wells. Also expressed surprise that they had rejected all treatment options and reverted to containment approach. Approval of containment approach would not be granted until review of CM alternatives assessment is completed and assessment is accepted.

- Following dates were agreed to for submission of documents by CM:
 - November 26 CM attorney to submit proposed revisions to consent order language and revised bonding amounts.
 - January 2, 1987 CM to submit remedial action plan and alternatives assessment.

Following the meeting, CM was contacted by James Charles and requested to submit alternatives assessment document by December 1 so that it might be reviewed prior to submission of remedial action plan. CM attorney agreed to this.

vam

cc: Mr. John Willson Ahmad Tayyebi The second

CM CHAIN
SITE INVESTIGATION

233 Formular Curevine

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JUL 28 1986

CM

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July 23, 1986

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1.0 INTRODUCTION

On May 9, 1986, a Site investigation was conducted by Advanced Environmental Systems (AES) and Conestoga-Rovers & Associates Limited (CRA), on behalf of CM Chain. The investigation was conducted on a portion of property formerly owned by CM Chain located east of the Erie Railroad and north of Fillmore Avenue, at 233 Fillmore Avenue. The area investigated, consisted of an alleged disposal site on the property measuring approximately 100 ft. by 120 ft.in size. The Site is believed to have been utilized in the past by CM Chain for refuse disposal.

The purpose of the Site investigation was to provide preliminary information concerning composition, existing cover material, areal and vertical extent of waste disposal and identification of potential avenues of chemical migration.

Six (6) shallow trenches were dug in order to determine the vertical and areal limits of the disposal area. The excavating was accomplished by a rubber-tired backhoe equipped with a 2 ft. wide bucket. Figure 1 illustrates the Site and presents the locations of the trenches.

2.0 SITE WORK

The initial phase of the Site investigation was conducted under the supervision of John Dicky of CM Chain and David Black of CRA. Also present during much of the Site work was Ahmad Tayyebi, Assistant Sanitary Engineer with Region 9 of the New York State Department of Environmental Conservation (NYSDEC).

Trenches 1 and 2 were excavated to determine the southern areal limit and the depth of the disposal area. Observation of the soil profile of both trenches indicated a constant profile from north to south consisting of a saturated lower layer of black cinders and gravel, 9 to 18 inches in thickness overlaying native clayey silt soils. Above the cinders, various layers of dry fill were noted including bricks, steel fragments, silt and gravel. The total thickness of fill is approximately 4 ft.

Due to the uniform nature of the soil profile from one end of each trench to the other, it was impossible to visually define the horizontal extent of the disposal area. According to CM Chain personnel, the disposal area ended at the roadway to the south, which originates at an opening in the building and runs east as shown in Figure 2.

A soil sample was taken from the north end of trench #2 and a water sample was collected from the north end of trench #1.

Trench #3 was dug north of trenches #1 and #2 to determine the depth in that vicinity of the disposal area. The soil horizon at trench #3 revealed a 4 ft. layer of fill including a 12 inch layer of saturated black cinders and gravel immediately overlying the native clayey silt soils. The upper 3 ft. of fill was similar in nature to that of trenches #1 and #2.

A soil sample was collected from trench #3.

Trenches #4, #5 and #6 were excavated to determine the depth of fill and the eastern boundary of the disposal area. From trenches #5 and #6 it was determined that the disposal area extended approximately 120 ft. east of the building.

Inspection of the soil profiles revealed by trenches #4, #5 and #6 indicated that the depth of fill in that area ranged from 2 ft. to 4 ft. thick, overlying native sandy brown and gray clayey silt soils. The fill consisted of dark brown silty soils and gravel, brick, concrete blocks,

3.0 SAMPLING

A total of four (4) soil samples were taken. Samples were taken from the north end of trench #2, the mid-section of trench #3 and from the west end of trenches #4 and #5. All samples were taken from within the apparent limits of the disposal area. Trench #1 was not sampled as it was near trench #2 and likewise trench #6 was not sampled as it was essentially an extension of trench #5.

Soil samples were collected from the backhoe bucket as potential caving-in of the trench prevented entry into the trench. Soils retained for analytical purposes were collected from the entire fill material horizon. Each soil sample consisted of a composite of these soils.

The four (4) soil samples were composited at the laboratory by AES into one (1) sample. The soil sample and the water sample were then analyzed for the full priority pollutant list, minus asbestos and dioxin, plus a library search. The analytical results, presented in Appendix B, are further discussed in Section 6.0.

Each soil sample location was also sampled by the NYSDEC Site Representative, Ahmad Tayyebi.

A water sample was taken of water which collected in trench #1.

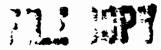
5.0 POTENTIAL CHEMICAL MIGRATION PATHWAYS

The potential for chemical migration via surface runoff is nominal as surface runoff is minimal due to the flatness of the terrain and the nature of the surface cover. Vegetative cover is sparse and the upper fill layers are very coarse, thus infiltration is expected to be high.

The potential chemical migration pathway of most concern, is the saturated layer of cinders and gravel which overlies the native soils. This layer is very porous and tends to collect infiltration. The areal limits of the cinder layer was not determined during this program, but evidently extends beyond the disposal area boundary.

The bedding of the sewer, watermain, electrical conduit and any other underground utility which cross or approach the former disposal area, may act as potential chemical migration pathways. Figure 2 shows the approximate locations of known underground utilities in the area.





New York State Department of Environmental Conservation

MEMORANDUM

TO:

Peter Buechi - Region 9

FROM: SUBJECT: David Vitale - Western Site Investigation Columbus McKinnon Plant Site - #91506

Tonawanda, Niagara County, New York

DATE:

March 30, 1984

We have reviewed the Groundwater and Additional Sampling Program report prepared by Advanced Environmental Systems, Inc. There are concerns which we feel have not been adequately addressed. The following are our comments:

- Number 3 on Page 14 mentions sediment transport as the major concern. This sediment erosion should be throughly investigated to determine its transport path. Depending upon the findings of transport studies, a biological investigation may be in order.
- Number 4 on Page14 is a surprising recommendation in view of the significant levels of solvents in Well #3. We feel that the detection of these levels merit further investigation of the area.
- Number 5 on Page 14 is considered to be premature. Other remediation options should be fully investigated. Findings of the above noted further investigation may effect the available remedial options as well as the unique access conditions.
- Number 6 on Page 14 is vauge. The proposed embankment stabilization should be fully described. In addition, the area requiring such stabilization should be designated.
- 5. Air Pollution potential is not addressed in this report and should be evaluated.

Please refer any comments to me at (518) 457-9538.

bcc: N. Nosenchuck (2)

M. O'Toole

C. Goddard

W. Demick

Files

DV:sjc

New York State Department of Environmental Division of Solid and Hazardous Waste 50 Wolf Road, Albany, New York 12233

RECEIVED

Part I

AUG 091984

General Information and Classific	cation of Facility BUREAU OF
Note: 365.00 indicates reference to New Yo	MAZARDOUS WASTE OPERATION
COMPANY NAME: CC:UMBUS MICHANON	EPA I.D. NUMBER:
COMPANY ADDRESS: FILLIMORE & FREMONTS	TOUALIALIA
COMPANY CONTACT OR OFFICIAL:	E/A MILARED.
TAGAL HENTLEY	E/A NUMBER:
TITLE: HOR OF FRANT ENDR.	INSPECTOR'S NAME:
PHONE: (7/6)-696-3321	TITLE/ORGANIZATION/REGION:
	NEW C
OTHER ENVIRONMENTAL PERMITS HELD BY FACILITY:	
NPDESAIROTHER	TIME OF INSPECTION: 1:30
Identification of Hazardous Waste - 366	DON'T
(1) Is there reason to believe the facility ha waste on-site? If yes, what leads you to is hazardous waste? Check appropriate box	believe it
ACompany admits that its waste is hazard the inspection.	lous during
BCompany admitted the waste is hazardous notification and/or Part A permit appli	
CEPA testing has shown characteristicsHas revealed hazardous constituents[Please attach analysis report]366.4(a)2(Col_Appendix VIII)	() ignitability 366.3b () corrosivity 366.3c () reactivity 366.3d () EP taxicity 366.3e
DThe waste material is listed in the reg from non-specific sources 366.4b	ulations as a hazardous waste

__The waste material is listed in the regulations as a hazardous waste

from specific sources. 366.4c

F.	The material or product is listed in the regulations as discarded commercial chemical products, off-specification species, containers, residues and spill residues thereof. 366.4d
G.	Company is unsure, but they have reason to believe that waste materials are hazardous. (Explain)
(2)	Is there reason, other than those above, for you to believe that there are hazardous waste on site? (Explain)
(3)	The facility appears on the notification listing as a (check each appropriate category):
	Vgenerating facility
	treatment, storage or disposal facility
	transport facility
(4)	The facility should be classified and inspected as a (check each appropriate category):
	generating facility
	treatmentstoragedisposal facility
	transport facility
	small-quantity generator
	exempt facility
(5)	If the facility is a treatment, storage or disposal facility, have they submitted a:
	Part A application
	Part 8 application
	Has the facility been granted a hazardous waste Part B permit?
	If so, when does it expire:
	Have any variances been granted - 360.1(g)
	. If so, explain:

maj	entify the hazardous wastes that are on-site, and estimate the approxi- te quantity of each (use waste code CAS Number, DOT Number or EPA Number
) Des	scribe the activities that result in the generation of hazardous waste.
Ger	nerator Status Identification 365.1
1.	Not a generator.
2.	Not a solid waste. 366.1(g)1
3.	Not a hazardous waste. 366.1(g)2
4.	Exclusions to hazardous waste list. 366.4-366.6 IDENTIFY:
5.	Exemption for used engine lubricating oil. 365.1(e)2 - Complete Part II, 18
6.	Exemption for farmers. 365.1(3)3. If so, does he
7.	Exemption for publicly owned treatment works. 365.1(e)4
8.	Samples shipped to laboratories solely for analysis. 365.1(e)5
9.	Residues of hazardous waste in empty containers. 365.1(e)6
10.	Hazardous wastes which are exempted-generated in a product or raw material storage tank, transport vehicle or vessel, pipeline or manufacturing unit in use unless a surface impoundment. 365.1(e)7
11.	Generated or produced in raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste treatment manufacturing unituntil it exits. The unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials. 365.1(e)7
12.	Small quantity generator - generates less than 100 kg/mo and stores less than 100 kg. $365.1(e)(1)i$ - Complete Part II, 18
13.	Small quantity generator - generates less than 100 kg/mo and stores more than 100 kg but less than 1,000 kg 365.1(e)(1)ii - Complete Part II. 10

	accord manage	s are not placed in containers which are managed in dance with 365.2(a)(8) of this Part - Standards for ement of containers or in tanks which are managed cordance with paragraph 365.2(a)(9) of this Part
	Standard: 365.2(a)	s for management of tanks. If not, complete Part III. (7)(ii)b
rio	clear	ate upon which each period of accumulation begins is not ly marked and visible for inspection on each container. c, complete Part III - 365.2(a)(7)(ii)c
to serve	<u> </u>	container is not properly labeled and marked according to caphs 365.2(a)4 and 365.2(a)5 of this Part. If not, etc Part III - 365.2(a)(7)(ii)d
		tions (TSD) - 360.1(f) (for facilities and operations that do inage hazardous waste or waste oil)
	1	Solid waste generated from a one-family residence If so, hazardous waste generated and disposed of within the property boundaries of such residence.
	2	Solid waste generated from a farm. If so, solid waste generated and disposed of within the property boundaries of such farm.
	3	Solid waste used in normal farming operation. Disposal of waste pesticides. If so:
		(a) Is it disposed by the farmer who generated them?
•		(b) Does the farmer comply with Section 325.4?
		(c) Does the farmer comply with Section 325.5?
		Transfer, storage, treatment, incineration and processing facilities located at, and used for solid waste generated at apartment houses, schools, parks, industries, hospitals, commercial establishments, individual residences and farms. Except establishments which temporarily store more than 275 gallons of liquid waste and dot not discharge in compliance with a permit issued pursuant to Environmental Conservation Law Article 17, and are located in a geographical area overlying a sole source aquifer.
	5	Transfer, storage, incineration and processing facilities, except composting facilities, located at publicly owned treatment works and used for solid waste.

ie-drume		All such wastes are not shipped off-site to a permitted treatment, storage or disposal (SD) facility in 90 days or less or treated on-site of generation in 90 days or less - 365.2(a)(7)(ii)a
v-drume	В.	The date upon which each period of accumulation begins is not clearly marked and visible for inspection on each container - 365.2(a)(7)(ii)d
	c.	Standards for management of containers - 365.2(a)8
		1. What type of containers are used for storage? Describe the size, type and quantity and nature of waste (e.g., 12 fifty-five gallon drums of waste acetone)55 - 156
		The containers do not appear to be in good condition and are in danger of leaking. (If containers are leaking, describe the type, condition and number that are leaking or corroded. Be detailed and specific)-365.2(a)(8)iii or 360.8(c)(8) i.
		Hazardous waste stored in containers are not made of compatible materials in accordance with paragraph 365.2(a)3 - 365.2aa)(3)i or 360.3(c)(3)ii (If not, please explain).
		4 All containers except those in use are not closed - 365.2(a)(S)ii or 360.8(c)(8)(iii)a
		5 Containers holding hazardous wasta appear to be opened, handled or stored in a manner which may rupture the container or cause it to leak - 365.2(a)(8)iii or 360.8(c)(8)(iii)b
		6 The storage area is not inspected at least weekly - 365.2(a)(3)iv or 360.8(c)(8)(iv)
		7 Containers holding ignitable and reactive wastes are not located at least 15 meters (50 feet) from the facility's property line - 365.2(a)(3)v or 360.8(c)(8)(v)
		S The generator does not comply with the following special requirements related to storage of ignitable, reactive or incompatible wastes 365.2 (a)(8)vi:
		Special requirements related to storage of ignitable, reactive or incompatible wastes - 365.2(a)10

	ignition or reaction of ignitable or reactive waste - 365.2(a)(10)i
	(B) Generator has not placed "No Smoking" signs conspicuously wherever there is a hazard from ignitable or reactive waste 365.2(a)(10)i
	(C) The storage of ignitable or reactive wastes, and the mixture or comingling of incompatible wastes, on incompatible wastes and materials, is not conducted to prevent:
	(a) the generation of extreme heat or pressure, fire or explosion, or violent reaction - 365.2,a)(10)(ii) or 360.8(c)(9)(i)a
	(b) production of uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health - 365.2(a)(10)(ii)b or 360.8(c)(9)(i)a
	(c) production of uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions - 365.2(a)(10)(ii)c or 360.8(c)(9)(i)a
	(d) the damage to the structural integrity of the device or facility containing the waste - 365.2(a)(10)(ii)d or 360.8(c)(9)(i)a
	(e) $\underline{\hspace{1cm}}$ a threat to human health or the environment - 365.2(a)(10)(ii)e or 360.8(c)(9)(i)a
٥.	Standards for management of tanks - 365.2(a)9
	1. What are the approximate number and size of tanks containing hazardous waste?
	2. Identify the waste treated/stored in each tank. Include whether they are above or below ground.
	If the tanks are below ground, they cannot be entered for inspection
	General Operating Requirements - 365.2(a)(9)1
	Hazardous wastes or treatment reagents are placed in the tank, such that they could cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail before the end of its intended life - 365.2(a)(9)(i)a or 360.8(c)(9)(i)b. If so, please explain.

(3)	The waste is not stored or t is protected from any materi cause the waste to ignite or 360.8(c)(9)(v)(a)2	reated in such a way that it all or conditions which may react-365.2(a)(9)(iii)(a)2 or
(4)	The tank is not used solely emergencies-365.2(a)(9)(iii)	for (a)3 or 360.8(c)(9)(v)(a)3
(5)	The ignitable or reactive was comply with the National Fire (NFPA's) buffer zone requirer Tables 2-1 thru 2-6 of the "I Code, 1977."	e Protection Association's ments for tanks, contained in
(6)	Incompatible wastes or incompare placed in the same tank r 365.2(a)(10)ii - 365.2(a)(9)(with 360.8(c)(1)(v)b - 360.8(not in compliance with (iv)a or not in compliance
	Incompatible wastes are place previously held an incompatible compliance with 365.2(a)(10) in compliance with 360.8(c)(1	ole waste or material not in ii - 365.2(a)(9)(iv)b or not
(8)	The generator has abandoned unhazardous waste and has not related discharge control equipment structures all hazar waste residues.	revoved from such tanks and uipment and discharge con-
4. Manifest Records	- 365.2(5)	
a manifest	t appear, from the available in copy available for <u>each</u> hazar ade - 365.2(b)(5)i.	
If "checke	d" or "don't know," please ela	borate.
monthly ba	he approximate size of an aver sis) since March 9, 1982. Alf	age shipment made (on a 5.0-20.06 1/062/1127
C. Indicate to	ransporter name and Part 364 P	ermit Number
D. Each manifest	(or a representative sample) check information missing): -	does not have the following
	Generator Transporter	1 Transporter 2 TSDF
1 Name of 2 EPA ID No. of 3 Mailing Address 4 Telephone No. of 5 Manifest Docume	of	

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New York State Department of Environmental Conservation Division of Solid and Hazardous Waste 50 Wolf Road, Albany, New York 12233

NOT FOR RELEASE TO COMPANY, PROTECTED INFORMATION

PART V

Comments, Conclusions and Recommendations Section

Facility Name Colory low now Co.
EPA I.D. No. 114D 082 105 534
Date of Inspection Color 9, 1954
General Comments and Conclusions (cite appropriate State regulations in violation)
(Cite appropriate State regulations in violation)
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Dool		700#	182	Manuable relite
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Facility Information

Name: COLUMBUS MERINNON

Address: FILLMORE & MERMONT STS.

TONAMANO,2

EPA ID#: NYT 002 105 534

Late of Inspection: JUNE 15, 1983

Participating Personnel

State or EPA Personnel: A. D.M. KENZIE

Facility Personnel: MIKE CHRZANOWSKI, TEXTINEL MICE THE BENT KEY, HOR FROM ENGE.

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"JL 22 1503

Pepcit Prepared by Name: A.D.M. KENZIE

Agency: N. U.S. D.E.C.

Telephone #: (7/6) 754-75.39

Approved for the Director by:

BI	UKE	AU U	•
HAZARDOUS	WA	STE C	PERATIO
DIVISION			
201110.0			

Summary of Findings

Columbus no Kinnon manufactures aini. The wine + has strek. stirage ahed becomes quation The aust must unio acid is used for probling (sunt himse) lives it proposentially attacked the is on of the + ditioned by give phosphote & boal cratings. The wine to their cut bent into a link + weiter Lut has not been me tal platen.

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Summary of Findings (2)

Fraility Promistion and Commissions
Facility Description and Operations
- a leak just ahead of the discharge value in
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Definition of this in-pertion (less than 24 liques septice) waste observe secural of these items. I his has berindone. On suspection 9/32/87- hind susted a gravel or dist stonage your containing 75+ correding driving your containing 75+ quested that D.E.C. serify the semoner of these wastes 6/83.

Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)

2) This is a successful 1982 figure + is for less than the fermit application quantity:

act = 9,000 lyp. 15 fermit app = 524,000 lyp.

3) The corrier solids are percipitated in suitable tes resulting from the sulfuric acid servoused of the iron spide on the susty. Last & wire stock used for chisin manus facture. Dirt is also washed off the wire stock + Collected with this waste.

(4) The firees conting this wester has been discortinued. For a while C-M cinomium plated the mandrels throughout the plant on which the chain is wound. Wear was not sufficiently reduced so the procedure land on site) was discontinued, 174 metric tous per year of chrome waster was created by this plating process.

Beauce it has additional copacity. The fore ces (degreesing) was discontinued last fusinces.

Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)
violed up. C-M said they would soud
picked up. C-M said they would soud this dring to CECOS as pour as possible since it is the only hagardons waste on site over 90 dasp.
since it is the only hazardous waite on
site over 90 dars
D 16062 is exampt under 261.6(a) (3)(i) - spent- fielde liquer used in a waste water treat- ment Vlant.
pielle liquer used in a waste water treat-
mont plant.
7) This is a measured 1982 ligure + inter
neater than the keisuit application quentity
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(8) 5000 gal of sport field liquor was on
hand during this inspection. It will be
pert of the presently insenting value is a.
fort of the press the mentery value is O.
44

a. If yes, what leads you to believe it is hazardous waste?

Check appropriate boxes:

Company admits that its waste is hazardous during the inspection.

Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.

The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)

The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)

The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)

Testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous

Company is unsure but there is reason to believe that waste materials

constituents (please attach analysis report)

are hazardous. (Explain)

Is there reason to believe that the facility has hazardous waste on-site?

New York State Department of Environmental Conservation 600 Delaware Avenue, Buffalo, New York 14202-1073



July 20, 1984

Mr. John Dicky, Manager Columbus-McKinnon Corporation Chain Division One Freemont Street Tonawanda, New York 14150

Dear Mr. Dicky:

This Department has reviewed the "Groundwater and Additional Sampling Program" report prepared by Advanced Environmental Systems, Inc. for Columbus-McKinnon Corporation. Please excuse our delay in responding to the report.

We generally concur with conclusions and recommendations Numbers 1 through 3 as presented on Page 14 of the subject report. However, we believe that there are several areas of concern that must be addressed prior to our acceptance of conclusions and recommendations Numbers 4 through 6 presented in the report. In addressing the following items, additional data will be developed that will assist in the development evaluation and selection of the final remedial plan for the site.

- An elevated level of total volatile halogenated organics was found in one of the monitoring wells. A lower level of total halogenated organics was also detected in this well. The specific parameters accounting for the levels of TVHO and THO detected were not determined during the subject investigation.

In order to determine the concentration of specific parameters in the groundwater on site, a sample should be collected from Well OW2-83 and analyzed for the organic priority pollutants. The results from this analysis can be used to define indicator parameters to be used in conducting further groundwater investigations discussed below.

Prior to collecting the well sample, it is requested that this office be provided with at least 24 hours notice so that we might obtain a split of the sample.

Mr. John Dicky, Manager July 20, 1984 Page 2

- Although the subject investigation identified the presence of organic contaminants in the groundwater, the extent of the groundwater contamination problem on site has not yet been determined.

Before a remedial plan for the site can be approved by this office, the nature and extent of the groundwater problem must be defined. It is therefore necessary to proceed with a more comprehensive groundwater investigation of the site. This investigation must be sufficiently broad to determine groundwater levels and flow direction, contaminant concentrations and loading to Ellicott Creek. The investigation should also determine if the inactive disposal site is the source of the groundwater contamination problem or if a broader problem exists across the plant site. The investigation should provide the data necessary to assess the significance of the groundwater problem, and to develop the necessary remedial action plan.

- The remedial program proposed for the site, i.e. capping of the PCB contaminated soils and stabilization of the creek bank, does not address the contaminated groundwater detected on site. As noted above, groundwater concerns must be considered in selecting the final remedial plan to be implemented at the site. It is suggested that options such as excavation, cutoff walls, and groundwater collection systems may have to be considered, dependent on the results of the requested groundwater investigation.

Considering that it has been some time since our last meeting, and that the points raised above will require further activity on your part, I would suggest that we meet during the week of August 132 1334 to review any questions you might have on the activities we desire to see implemented, your response to the requested activities and your schedule for moving alread with the additional investigations. Please contact Mr. Ahmad Tayyebi at 847-4590 terschedule a meeting date.

Yours truly.

* Peter J. Buechi, P.E.

Associate Sanitary Engineer

PJB: cag

cc: Mr. John McMahon, NYSDEC/Buffalo

Mr. Walter Demick, NYSDEC/Albany Mr. Ahmad Tayyebi, NYSDEC/Buffalo

Mr. Donald Campbell, Erie County Department of Environment & Planning



COLUMBUS MCKINNON CORPORATION CHAIN OIVISION ONE FREMONT STREET TONAWANDA, NEW YORK 14150 716,696-3200

September 25, 1985

New York State Dept. of Environmental Conservation Mr. Ahmad Tayyebi 600 Delaware Avenue Buffalo, NY 14202-1073

Subject: Groundwater Sample Test Results

Dear Mr. Tayyebi:

Attached you will find one copy of "OW-2 Groundwater Sample Split with the DEC and Analysed for Volatiles and PCB's" report prepared by Advanced Environmental Systems, Inc. dated February 18, 1985. I apologize for the oversight in not sending you a copy of this report. At our December 1984 meeting we discussed Calculated Loading to Ellicott Creek, CM Chain, Tonawanda, New York, report and that report contained the results of groundwater analysis in October 1983.

I believe the above gives you the complete information with respect to groundwater analysis.

If there is anything further that you will need, please call me at your convenience.

Sincerely,

John Dicky, Mana∕ger

Chainmaker Manufacturing and

Development Division

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New York State Atlas of Community Water System Sources

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE COUNTY

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NIAGARA COUNTY

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3	Country Estates Mobile Village	2	Wells	

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