

283 Manny's Corners Road Amsterdam, New York 12010 Telephone (518) 842-7961 Fax No. (518) 843-6136

August 1, 2007

Arcadis of New York, Inc. Attention: Jessica Mauro 465 New Karner Road, 1st Floor Albany, New York 12205-3839

> Re: Industrial Wastewater Discharger Permit Former Mohawk Finishing Site, Amsterdam, NY

Dear Jessica:

Upon review of your application by Gary Kerzic, Town Engineer we find your request to discharge pre-treated groundwater to sanitary sewer acceptable.

If you have any questions, please give me a call.

Sincerely. Town Cler

Infrastru Transmitta To: Mr. Thor Town of 283 Man	icture, en	n Road	cilities	ARCADIS of 1 465 New Karr First Floor Albany New York 122 Copies: Tel 518.452.7 File Fax 518.452.4	er Road 05-3839 826
^{From:} Jessica I	Mauro			^{Date:} May 23, 2007	
Subject: Former M Amsterd		nishing Products	Site,	ARCADIS Project No.: AY000273.0005	
	nding you: led		Und ans amples	er Separate Cover Via the Following Items:	Drder
Copies	Date	Drawing No.	Rev.	Description	Action*
1	5/23/07			Industrial Wastewater Discharge Permit Application	
1	5/23/07			Amsterdam POTW Substances of Concern, Former Mohawk Finishing Products Site, Amsterdam, NY	
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Mr. Thomas P. DiMezza Town Supervisor Town of Amsterdam 283 Manny's Cors. Road Amsterdam, New York 12010

Subject:

Request To Discharge Pre-Treated Groundwater To Sanitary Sewer System, Former Mohawk Finishing Products, Amsterdam NY.

Dear Mr. DiMezza:

ARCADIS and its engineering subcontractor, ARCADIS G&M of New York Architectural and Engineering Services, P.C. have been retained by Mohawk Finishing to design a remediation system for the Former Mohawk Finishing (Site) located in Amsterdam, New York (see Figure 1). The remediation activities at this Site are pursuant to the Voluntary Cleanup Agreement (Index No. #A4-0425-0006) entered into between Mohawk Finishing Products and the New State Department of Environmental Conservation (NYSDEC) in May 2001. As part of the remediation process, co-produced groundwater will be generated. The former Mohawk Finishing property is currently owned by the Power Pallet Company.

ARCADIS is requesting permission to discharge pre-treated co-produced groundwater to the local sanitary sewer system located on the property which then discharges to a main sanitary sewer located within County Route 30. The following describes the remedial process and the pre-treated waste stream in which we would like to discharge to the sanitary sewer system:

- § The remedial process is a vacuumed enhance recovery (VER) system which will be operated to cleanup volatile organic compounds, n-butyl acetate, and naphtha (see Table 1).
- § The co-produced groundwater will be extracted from the soil and will be transferred by a high vacuum pump from the recovery wells to collection and treatment system. The collection and treatment system process description is as follows. The liquid and vapor phase will be separated by a liquid knockout tank in which the liquid phase will be transferred to a coalescing oil/water separator where any free phase light non-aqueous phase liquids (LNAPLs) will be decanted off and disposed of separately. The co-produced groundwater will be transferred through a

ARCADIS of New York, Inc. 465 New Karner Road First Floor Albany New York 12205-3839 Tel 518.452.7826 Fax 518.452.4398 www.arcadis-us.com

ENVIRONMENT

Date: May 23, 2007

Contact: Marc W. Sanford

Phone: 518 452 7826 Ext. 15

Email: marc.sanford@arcadisus.com

Our ref: AY000273.0005

ARCADIS

Mr. DiMezza May 23, 2007

cartridge filter bag to remove any solids and then be treated with two granular activated carbon (GAC) vessels placed in prior to discharge to the sanitary sewer system (see Drawing No. 1 Process Flow Diagram).

§ The designed maximum flows of pre-treated groundwater discharged to the sanitary sewer system would be as follows; the designed maximum daily flow is estimated at 14,400 gallons per day which corresponds to an average daily maximum flowrate of 10 gallons per minute (gpm). The discharges would be monitored by using a totalizing type flow meter. The flow meter would be placed on the system effluent line, would be an in-line meter designed for recording instantaneous and cumulative flows, and would have a flow register that is adequately sealed to eliminate fogging and condensation. The system flows will be monitored and recorded monthly.

We look forward to your approval. If there are any questions or comments regarding this request, please do not hesitate to contact us.

Sincerely,

ARCADIS of New York, Inc.

Marc W. Safal

Marc W. Sanford Principal Scientist

Copies: File TOWN OF AMSTERDAM

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

TOWN OF AMSTERDAM INDUSTRIAL WASTEWATER DISCHARGE PERMIT QUESTIONNAIRE

PLEASE TYPE OR PRINT CLEARLY

I. GENERAL INFORMATION

1.	Facility Name:	Power Pallet Inc., Former Mohawk Finishing Products		
2.	Facility Address:	4715 State Highway 30 Amsterdam, New York		
3.	Mailing Address:465	New Karner Road, First Floor Albany, New York 12205		
4.	Primary SIC Code: Form Secondary SIC Code(s): Applicable sub-categori	t making/ recycling/ former wood finishing products her wood finishing products code 2851 / 2860 Les under the National Categorical		
	Agricultural, fore or fishing Mining or quarryir X Manufacturing Retail or Wholesal Other (Specify) Additionally, briefl	Construction Transportation Finance or Real e Trade State y describe the nature of the e principal steps used to process		
5.		In Operation Under Construction Proposed		
6.	Status of Discharge cov Existing Increase	ered by this application: Decrease New		
7.	Number of employees at	this facility:		
8.	Name, title, address a contact regarding this	nd telephone number of person to survey:		

Marc Sanford, ARCADIS Principal Scientist/Project Manager,

____ 465 New Karner Road, First Floor, Albany, NY 12205

9. Name and location of any other facilities in the Town Service Area: N/A

II. PLANT OPERATIONAL CHARACTERISTICS

1. Complete table below listing products manufactured or handled and maximum daily production (units per day):

<u>Name</u>	Maximum Quantity	Units	Name	Maximum Quantity	<u>Units</u>
N/A					

2.	Complete table consumed and max	: below ximum daj	listing : ly product	raw material ion (units pe	ls used or er day):
3.	List any flammal liquefied petr facility:N/A	oleum a	ases pres	ent or used	t at vour
4.	Number of build:	ings at t	his facili	ty: N/A	
5.	Annual number of	f days op	peration: _	N/A	
6.	Number of shifts	s pr work	day: N/A		
7.	Number of workda	ays per w	eek: N/A		
8.	Average number hours/week: lst N/A 2nd 3rd		Start Time Start Time	er shift (Ba , lst , 2nd , 3rd	sed on 40
9.	Average number of 20 hours or more lst N/A 2nd 3rd	≥ per wee	k: Start Time Start Time	, 1st	: (Based on
: :					

10.	Are there scheduled shutdowns? Yes		No	If Yes,
11.	Is production seasonal? YesNo month(s) of peak productionN/A	•	If yes,	explain
12.	Remarks: <u>N/A</u>			

III. WATER CONSUMPTION AND SOURCES

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IV.

Complete the table below listing from each source the 1. past year's (four quarters) water consumption. Consumption, in cubic feet (cf), can be taken directly from utility bills. Where flow is unmetered, give estimate and so indicate. The surfaces are coded as follows: (C) Public water supply; (W) Private wells; (S) Individual surface intakes; (O) Other.

Quarterly		Source		
<u>Dates</u>	(C) cf	(W) cf	(S) or (O)	cf
N/A				
		<u></u>		
		·		
			<u>.</u>	
TOTAL				
TOTAL		<u></u>		
Total Annual I	Water Consum	ed. all source	N/A	
		,		
Private Well	Inventory:			
How monte print			N/A	
How many priva How many priva			N/A	
		- abanaonear		
Well Identific	cation P	ump Capacity	Well Depth	
N/A				
				_
	<u> </u>	· <u>····</u> ····		-
Remarks:	N/A			
				-
				-

IV. WATER USAGE (Refer to Section III-1)

1. Complete the table below:

		Annual Consumption <u>(cf)</u>	Max. Daily Consumption (cf/day)	Sources (W,S,C,O)
Domestic	:	N/A		
Cooling:	Evaporated	N/A	······	·····
Cooling:	Discharged	N/A		
Process:	Into product	N/A	·	
Process:	Discharged	N/A	······································	
Fire		N/A	······································	
Other: TOTAL				. <u></u>
TOTAL				
2.	Remarks: N/A			
				·····

V. WASTEWATER DISCHARGE

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 Complete the table below listing the quantity of wastewater discharged to the City sewer system (if quantity given in gallons, please note):

Wastewater Discharge (cf)

Source	Avg. Daily	Max. Daily	Peak 15 Minutes	Duration Discharge (hrs./day)
Domestic	N/A	N/A	N/A	N/A
Cooling*	N/A	N/A	N/A	N/A
Process	14,400 gallons	N/A	N/A	N/A
Drain	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A
TOTAL	N/A	N/A	N/A	<u>N/A</u>

NOTE: *Indicate contact or non-contact cooling water.

- Type of discharge for process wastewater: Batch X; Continuous . If batch, number of gallons discharged per batch: 40 _.
- 3. Is there more than one discharge point to the City sewer system? Yes No X. If yes, please explain:

- 4. Location of each discharge connection to the Town sewer: 4715 State Highway 30 Amsterdam, NY 12010
- 5a. Has this facility applied for a variance from Categorical Standards for Fundamentally Different Factors per 40 CRF 403.13?

X NO ____Applied ____Received ____Denied

b. Has this facility applied for alternative discharge limits per 40 CFR403.15?

X No ____Applied ____Received ____Denied

c. Has this facility applied for alternative discharge limits per 40 CFR 403.6(e)?

X No Applied Received Denied

If any of the above have been applied for or received, provide the appropriate documentation on the discharge.

6. Known or expected concentrations or quantity* in the discharge wastewater of:

5-Day Biochemical Oxygen Demand	<pre><5 mg/l orlb/day</pre>
Chemical Oxygen Demand	<100 mg/l orlb/day
Total Suspended Solids	<10 mg/l orlb/day

See Attached Table 1.

- NOTE:* Where quantity or concentration is requested, provide data based on actual sampling results where available. If actual sampling data is not available, provide best estimate based upon knowledge of the process. The Town may advise of sampling that is required to allow completion of the review of this application.
 - 8. Does this facility discharge wastewater including, but not limited to, process wastewater, cooling water, blowdown, sanitary sewage or stormwater run-off, to waters of the United States? Yes____ No_X_.

If yes, do you have an SPDES Discharge Permit?

If yes, do you have an SPDES Discharge Permit?

Yes No SPDES Permit No. NA

- 9. Is this facility covered by a promulgated National Categorical Pretreatment Standard? Yes No_X_.
- 10. (Answer only if response to No. 9 is "Yes"). Does the discharge comply with Standard? Yes____ No___.

If the response to No. 10 is "No", then provide compliance schedule of efforts to comply with the requirements of the National Categorical Pretreatment Standards.

11. Remarks:____N/A

VI. PRETREATMENT

- Does this facility currently pretreat any wastewater prior to discharge to the City sewer system? Yes____ No_X_. If yes, indicate type)s) used:
 - AdsorptionNeutralizationBiologicalOil and grease removalChemical stabilizationSedimentationFiltrationOther (specify)Flow equalizationOther (specify)

See Attached Drawing 1. 2. Please briefly describe the waste stream and function of treatment units. Prepare and attach flow diagram if necessary. Liquid phase portion of process: Oil water separator > two 5 micron cartridge filter _______ > two granular activated carbon vessels in series

- 3. Residual waste matter produced from treatment operations and quantity: N/A
- 4. Residual waste matter disposal: N/A _____On-site dumping (show location on sketch) _____On-site processing (describe)______ Hauling or barging scavenger (fill in information below) Hauler's Name:______Address:______

5. Remarks:

The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is complete and accurate.

(Signed): . Sar Name: Moure U Title: Principal Scientist

Date:

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Application approved and Permit issued.

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(Signed):

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Town or Governing Participant

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TABLE I

NYSDEC SUBSTANCES OF CONCERN

POLLUTANT

m 4 19 4 1 1 1
Class A - Halogenated Hydrocarbons
A01. Methyl chloride
A02. Methylene chloride
A03. Chloroform
A04. Carbon tetrachloride
A05. Freon/Genatron
A06. Other halomethanes
A07. 1, 1, 1-Trichlorethane
A08. Other haloethanes
A09. Vinyl fluoride
AlO. Vinyl chloride
All. Dichloroethylene
Al2. Trichloroethylene
Al3. Terrachloroethylene
Al4. Chlorinated propane
A15. Chlorinated propene
Al6. Hexachlorobutadiene
Al7, Hexachlorocyclopentadiene
A18. Chlorinated benzene
Al9. Chlorinated toluene
A20, Fluorinated toulene
A21. Polychlorinated biphenyl (PCB)
A22. Chlorinated naphthalene
A23. Dechlorane (C10Cl12)
A24, Hexachlorocyclohexane (BHC)
A99. Halogenated hydrocarbons not
specified above
Class B - Halogenated Organics (other than hydrocarbons)
BOI. Phosgene
B02. Methyl chloromethyl ether
B03. bis-chloromethyl ether
B04. Other chloroalkyl ethers
BOS. Benzoyl chloride
B06. Chlorothymol
B07. Chlorinated phenol
B08. Chlorinated cresols or xylenols
B09. Chlorendic acid
BlO. Chloroaryl ethers
Bll. Dichlorophene or hexachlorophene
Bl2, Chlorinated aniline (including
methylene bis(2-chlorogniline))
Bl3. Dichlorobenzidine

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TABLE 1 (Continued)

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Class B (continued)
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-1 (T_{rescale} (C_{resc}) (C_{resc})
B17. Dichlorovinyl sulfonyl pyridine
- the method second thy EB10 = DULUAL LULUA
a subject of the subj
B21. Tetrachloro-isophthalonitrile
B99. Halogenated organics not
specified above
spectited doord
Class C - Pesticides (includes herbicides, algaecides, biocides,
climicides and mildeweites?
and <u>Alderin</u> Dieldrin
and chlorodane and metabolices
co/ Endosulfan/Thiodan and meraborrees
nee matrix and metabolices
CO6. Heptachlor and metabolites
CO7, Malathion
COB, Methoxychlor
CO9. Parathlon
ClO. Toxaphene
Cll. Sevin
Cl2. Kelthane
Cl3. Dizainon
C14. Dichane
C15. Carbaryl
C16. Silvex
C17. Dichlocarbamaces
C18, Maneb
C19. Dioxathion
C2O. Tandex/Karbutilate
C21. Carbofurans
C22. Pentac
C23. Folper
C24. Dichlone
C25. Rorenone
C26. Lindane/Isotox
C27. Simazine
C28. Methoprene C99. Pesticides not specified
C99, Pesticides interspectrum
above

TABLE I (Continued)

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Class D - Aromatic Hydrocarbons
DO1. Benzene
DO2. Toluene
D03. Xylene
DO4. Biphenyl
DO5. Naphthalene
D06. Ethylbenzene
D07. Styrene
DO%. Acenaphthehe
D09. Fluoranthene
D99. Aromatic hydrocarbons not
specified above
specified above
Class E - Tars
EOI. Coal tar
E02. Petroleum tar
E99. Tars not specified above
Class F - Substituted Aromatics (other than hydrocarbons and non-
Class F - Substituted Arbinatics (Other chan motore
halogenated)
FO1. Phenol, cresol, or xylenol
FO2. Catechol, resorcinol, or
hydroquinone
FO3. Nitrophenols
F04. Nitrobenzenes
FO5. Nitrotoluenes
FO6. Aniline
F07. Toluidines
FO8. Nitroanilines
F09. Nitroanisole
F10. Toluene dilsocyanate
rii Dimethylamino azobenzene
F12. Benzoic Acid (and Benzoate salts)
F13. Phrhalic, isophrhalic or
terephthalic acid
F14. Phthalic anhydride
F15. Phthalate esters
F16. Phenoxyacetic acid
F17. Phenylphenols
P18. Nitrobiphenyls
F19. Aminobiphenyls
(including benzidine)
F20. Diphenylhydrazine
noi Nachthuismines
F21. Naphthylamines
F22. Carbazole
F23. Acetylaminoflurene
F24. Dyes and organic pigments
F25. Pyridine
F99. Substituted aromatics not
specified above



TABLE I (Continued)

Class G - Miscellaneous GO1. Asbestos GO2, Acrolein GO3. Acrylonitrile GO4. Isophorone GO5. Nicrosamines GO6. Ethyleneimine G07. Propiolactone GO8. Nitrosodimethylamine G09. Dimethyl hydrazine GlO. Maleic anhydride Gll. Methyl isocyanate G12, Epoxides G13. Nitrofurans G14. Cyanide

Class M - Metals and their Compounds MO1. Antimony MO2. Arsenic MO3. Beryllium MO4. Cadmium M05. Chromium M06. Copper MO7. Lead MO8. Mercury M09. Nickel M10. Selenium M11. Silver M12. Thallium MI3. Zinc M99. Metals not specified above



ARCADIS

Table 1. Amsterdam POTW Substances of Concern, Former Mohawk Finishing Products Site, Amsterdam, New York

Desemptor	Danga of	Expected
Parameter	Range of Influent	Expected Effluent
	Concentrations	Concentrations
	Pre-Treatment	
Alcohols (mg/L)	Pre-Treatment	Post-Treatment
	ND	- 10
Methanol		< 10
Ethanol	ND	< 10
Isopropanol	ND	< 10
Isobutanol	ND	< 10
Volatile Organics (ug/L)		
Chloromethane	ND	< 0.50
Vinyl chloride	ND - 4.45	< 0.80
Bromomethane	ND	< 1.2
Chloroethane	ND	< 0.80
1,1-Dichloroethene	ND - 0.55	< 0.70
Carbon disulfide	ND	< 0.90
*Acetone	180 - 620	180 - 620 ¹
Methylene chloride	ND - 79	< 0.40
trans-1,2-Dichloroethene	ND - 0.92	< 0.50
1,1-Dichloroethane	ND - 18	< 0.60
Vinyl acetate	ND	< 0.20
cis-1,2-Dichloroethene	ND - 47	< 0.60
*2-Butanone (MEK)	41 - 4,200	41 - 4,200 ²
Chloroform	ND	< 0.70
1,1,1-Trichloroethane	ND	< 0.40
Carbon tetrachloride	ND	< 1.0
Benzene	ND	< 0.40
1,2-Dichloroethane	ND	< 0.60
Trichloroethene	ND - 25	< 0.70
1,2-Dichloropropane	ND	< 0.90
Bromodichloromethane	ND	< 0.40
cis-1,3-Dichloropropene	ND	< 0.50
4-Methyl-2-pentanone (MIBK)	ND - 24	< 0.70
Toluene	ND	< 0.30
trans-1,3-Dichloropropene	ND	< 0.80
1,1,2-Trichloroethane	ND	< 0.60
Tetrachloroethene	3.8 - 18	< 0.50
2-Hexanone	ND	< 0.80
Dibromochloromethane	ND	< 0.50
Chlorobenzene	ND	< 0.40
Ethylbenzene	ND - 1.63	< 1.0
Styrene	ND	< 0.50
Bromoform	ND	< 0.80
1,1,2,2-Tetrachloroethane	ND	< 0.40
Xylenes (total)	13 - 28	< 1.0
1,2,4-Trimethylbenzene	15-299	< 0.60
Organics (mg/L)		
n-Butyl acetate	0	< 0.10
Naphtha	118 - 11,000	0.1

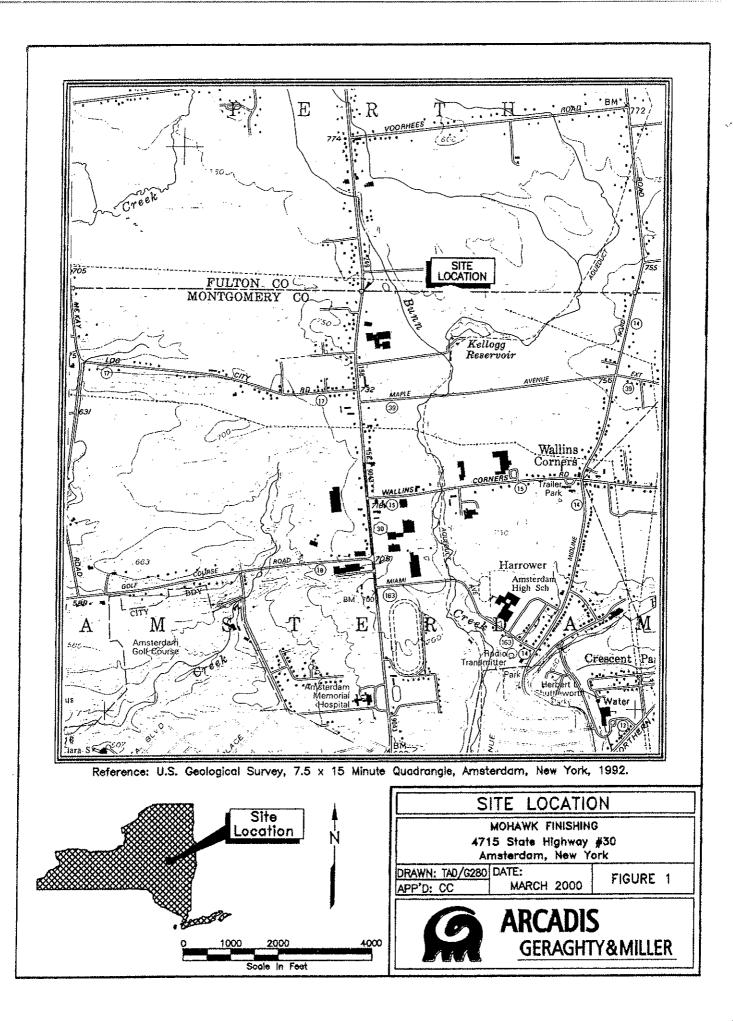
Notes:

Acetone is unlikely to be removed/adsorbed by carbon filtration.
 MEK is removed moderately.

Definitions:

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ND - Non Detect, result less than laboratory detection limit



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