

STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION



NPDES PERMIT

issued to

Summit Corporation of America 1430 Waterbury Road Thomaston, CT 06787

Location Address:

1430 Waterbury Road Thomaston, CT 06787

Facility ID: 140-011

Permit ID: CT0001180

Receiving Stream: Naugatuck River

Permit Expires: December 20, 2012

SECTION 1: GENERAL PROVISIONS

- This permit is reissued in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes (A) ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and section 402(b) of the Clean Water Act, as amended, 33 USC 1251, et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer an N.P.D.E.S. permit program.
- Summit Corporation of America, ("Permittee"), shall comply with all conditions of this permit including the (B) following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and

Section 22a-430-3 General Conditions

- (a)Definitions
- (b)General
- (c)Inspection and Entry
- (d)Effect of a Permit
- (e)Duty
- (f)Proper Operation and Maintenance
- (g)Sludge Disposal
- (h)Duty to Mitigate
- (i)Facility Modifications; Notification
- (j)Monitoring, Records and Reporting Requirements
- (k)Bypass
- (1)Conditions Applicable to POTWs
- (m)Effluent Limitation Violations (Upsets)
- (n)Enforcement
- (o)Resource Conservation
- (p)Spill Prevention and Control
- (q)Instrumentation, Alarms, Flow Recorders
- (r)Equalization

Section 22a-430-4 Procedures and Criteria

- (a)Duty to Apply
- (b)Duty to Reapply
- (c)Application Requirements
- (d)Preliminary Review
- (c)Tentative Determination
- (f)Draft Permits, Fact Sheets
- (g)Public Notice, Notice of Hearing
- (h)Public Comments
- (i)Final Determination
- (j)Public Hearings
- (k)Submission of Plans and Specifications. Approval.
- (I)Establishing Effluent Limitations and Conditions
- (m)Case by Case Determinations
- (n)Permit issuance or renewal
- (o)Permit Transfer
- (p)Permit revocation, denial or modification
- (q)Variances
- (r)Secondary Treatment Requirements
- (s)Treatment Requirements for Metals and Cyanide
- (t)Discharges to POTWs Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Environmental Protection ("Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner, at least 30 days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the Permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (H) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the Regulations of Connecticut State Agencies.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and section 22a-430-3(a) and 22a-430-6 of the RCSA, except for "No Observable Acute Effect Level (NOAEL)" which is redefined below.
- (B) In addition to the above, the following definitions shall apply to this permit:
 - "----" in the limits column on the monitoring table means a limit is not specified but a value must be reported on the DMR.
 - "Annual" in the context of any sampling frequency found in Section 5, shall mean the sample must be collected in the month of January.
 - "Average Monthly Limit"; means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in section 22a-430-3(a) of the RCSA.
 - "Critical Test Concentration (CTC)" means the specified effluent dilution at which the Permittee is to conduct a single-concentration Aquatic Toxicity test.
 - "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or, the arithmetic average of all grab sample results defining a grab sample average.
 - "Daily Quantity" means the quantity of waste discharged during an operating day.
 - "Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.
 - "In stream Waste Concentration (IWC)" means the concentration of a discharge in the receiving water after mixing has occurred in the allocated zone of influence.
 - "Maximum Daily Limit", means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l): otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in section 22a-430-3(a) of the RCSA.
 - "NA" as a Monitoring Table abbreviation means "not applicable".
 - "NR" as a Monitoring Table abbreviation means "not required".
 - "No Observable Acute Effect Level (NOAEL)" means any concentration equal to or less than the critical test concentration in a single concentration (pass/fail) toxicity test conducted pursuant to section 22a-430-3(j)(7)(A)(i) RCSA demonstrating greater than 50% survival of test organisms in 100% (undiluted) effluent and 90% or greater survival of test organisms at the CTC.
 - "Quarterly", in the context of a sampling frequency, means sampling is required in the months of January, April, July, and October.
 - "Range During Sampling" ("RDS"), as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or, 2) a Grab Sample

Average. For those Permittees with continuous monitoring and recording pH meters. Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Range During Month" ("RDM"), as a sample type, means the lowest and the highest values of all of the monitoring data for the reporting month.

"Semi-Annual" in the context of a sampling frequency, means the sample must be collected in the months of January and July.

"ug/l" means micrograms per liter.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner has issued a final determination and found that modification of the existing system or installation of a new system would protect the waters of the state from pollution. The Commissioner's decision is based on Application No. 200401067 for permit reissuance received on April 2, 2004 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

- (A) No discharge shall contain, or cause in the receiving stream, a visible oil sheen or floating solids; or, cause visible discoloration or foaming in the receiving stream.
- (B) No discharge shall cause acute or chronic toxicity in the receiving water body beyond any zone of influence specifically allocated to that discharge in this permit.
- (C) The temperature of any discharge shall not increase the temperature of the receiving stream above 85°F, or, in any case, raise the normal temperature of the receiving stream more than 4°F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

(A) The discharges shall not exceed and shall otherwise conform to the specific terms and conditions listed below. The discharges are restricted by, and shall be monitored in accordance with, the tables below. Tables A and B shall be effective from the day of permit issuance until one day before the Final Compliance Date set forth below; Tables C and D shall become effective on the date occurring three (3) years and six (6) months after the day of permit issuance ("Final Compliance Date"); and Table E shall be effective throughout the term of the permit.

Discharge Serial Number 004				Table A	e A				
Wastewater Description: Moto	Till Edition					Monitoria			
pretreated cyanide bearing wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver, gold, tin, palladium, tin-lead, and lead plating wastewaters, scrubber wastewaters Monitoring Location Description: Immediately following the final clarifier	r Finishing stewaters), on: Immed	Wastewater (cl. building mainte iately following	eaning, stripping, nance wastewater the final clarifier	masking wastewaters s, scrubber wastewat	; copper, bronze, nickel, s ers	liver, gold, tin, pal	on: 1 ladium, tin-lead, and	l lead plating wast	waters,
			FLOW/TIM	FLOW/TIME BASED MONITORING					
PARAMETER				E BASED MONITO	KING	INSTAI	INSTANTANEOUS MONITORING	FORING	
	UNITS	Average Monthly Limit	Maximum Daily Limit	Sample//Reporting Frequency ²	Sample Type or Measurement to be	Instantaneous limit or	Sample// Reporting	Sample Type or	Minimum Level Test
Aluminum, Totai	l/gm	2.0	0.4	1.	геропеа	required range	Frequency 2	measurement	Š
Biochemical Oxygen Demand	10/9	73.7		weekiy	Daily Composite	6.0	N.R.	Grah	
Cadmium, Total	5/94	4.2.7		Monthly	Daily Composite	ΑN	N.		
Cadmium	1,0/0	0.00	0.5	Semi-Annually	Daily Composite	0.75		CV.	
Chloroform	1/04	0.023	0.046	Semi-Annually	Daily Composite	C	N.Y.	Grab	*
Chromium, Total	1/01	Y.		Monthly	Daily Composite	4 7	N.	NA	
Copper, Total	1/2/11	1.0	2.0	Semi-Annually	Daily Composite	2.0	N.Y.	Grab	
Copper	1/0/1	0.4/4	0.876	Weekly	Daily Composite	2.0	NR	Grab	*
Cyanide, Amenable	1/50	0.59	1.10	Weekly	Daily Composite	1.32	N.	Grab	*
Cyanide, Total	1/20	0.1	0.2	Weekly	Grab Sample Average	200	NR	NA	
Cyanide, Total	7/2/	0.22	0.4	Weekly	Grab Sample Average	0.5	ZR	Grab	
Flow. Average and Maximum	Ng _N	0.193	0.386	Weekly	Grab Sample Average	0.0	NR	Grab	*
Daily 1	pd8	330,000	400 000	Continuous//	מפויותוים אבו שלב	NA.	N.S.	NA	
Flow, Day of Sampling	paz	₹Z	400,000	Monthly	Daily Flow	Y Y	N N	Υ Z	
Flow, Duration	Ë	₹ Z	400,000	Weekly	Daily Flow	AN AN	QN		
Fluoride, Total	mg/l	20.0	00%	Weekly	Total hours	ΑN	a'N	AZ.	
Gold, Total	l/gm	0.1	0.50	Weekly	Daily Composite	45.0	~Z	NA Australy	
Indium, Total	mg/l	AN		Weekly	Daily Composite	0.75	N.R.	Or In	
I and Trees	mg/l	3.0	5.0	Weekly	Daily Composite	NA	N. N.	Grab	
Lead, 10tal	mg/l	0.016	0.048	Wookly	Daily Composite	7.5	N.W.	Og IC	
Nieles T	kg/d	0.045	0.089	Weekly	Daily Composite	0.072	N.	* Herry	
Nickel, 10tal	mg/l	0.653	1.21	Weekly	Daily Composite	NA	NR	G Z	
Nitrogen, Ammonia (Total as N)	mg/l	10.0	20.0	Weekly	Daily Composite	1.82	NR	*	T
Nitrogen, Nitrate (Total as N)	l/gm	NA		Weekly	Daily Composite	30.0	NR	+	
Livingen, Munte (Total as N)	mg/l	NA		Weekly	Dail: Composite	NA	NR	Grah	
				7,000	Dally Composite	AN	NR	Grab	T
			דר					3,5,5	

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				Toble 4					
Nitrogen TVN CT.				I able A (continued)	ontinued)				
(10tal as N)	l/gm	NA	!	Wookly	0 ::- 0			ļ	
Nitrogen, Total 5	1			r centry	Dally Composite	Y Y	N.	qu.i.	
	Kg/d	17.7	N A	Weekly	Daily Composite	414		OB I	
Oil and Grease, Total	l/gm	10.0	15.0	Westell		V _V	N K	ΑΝ	
Palladium Total				weekiy	Grab Sample Average	20.0	2		
, Total	l/gm	Y X	:	Weekly	Daily			Orab	
pH, Continuous	113				Carly Colliposite	Ϋ́	NR	Grab	
		N.	AN A	Z.	***				
PH, Day of Sampling	10	YIX			₹ <u>₹</u>	0.6 - 0.9	Continuous,/	WO W	
Silver, Total		Y.	NA	ZR	٩N		Monthly	303	
0:1	mg/i	0.10	0.43	West	201	0.0 - 9.0	Weckly	DUG	
Silver	kg/d	0.027	730 0	weekiy	Daily Composite	0.75	072	SUN (
Surfactants, Anionic	1/500	770.0	0.034	Weekly	Daily Composite	2	YA!	Grab	*
Tin. Total	1/8/1	NA.	***	Monthly	Daily Composite	<u> </u>	N.	ΥN	
Total Besiding Chlamin	1/gm	2.0	4.0	Weekly	Deil. Composite	NA	NR	Grab	
Trill of the state	mg/i	0.327	0.665	Wests	Dally Composite	0.0	ZZ.	4	
lotal Suspended Solids	mg/l	20.0	30.0	Weekly	Grab Sample Average	0.1	07	OF IO	
Total Toxic Organics 4	l/om	VIV	20.0	Weekly	Daily Composite	45.0	N. S.	Crab	*
Zinc, Total	1,000	\$.	NA A	NR	ΨZ	2.0	¥Z	Grab	
Zinc	1/811	1.0	2.0	Weekly		0:-	Monthly	Grab	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	kg/d	0.559	1.12	West	Dally Composite	3.0	ZZ.		
Table A Footnotes and Remarks:				weekly	Daily Composite	AN	97	Side	*
Footnotes:							N.	AN	

For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each month. ² The first entry in this column is the 'Sample Frequency'. If a 'Reporting Frequency' does not follow this entry and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

³ Minimum Level Test refers to Section (6) Paragraph (A)(3) of this permit.

⁴ Refer to Section (8), Paragraph (D) of this permit.

Department of Environmental Protection, December 2000. The Permittee shall calculate total nitrogen by combining analytical results for nitrate, nitrite, and total Kjehldahl nitrogen and daily flow, as ⁵ The limit on Total Nitrogen shall become effective on August 1, 2009 per requirements of A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound, prepared in conformance with Section 303(d) of the Clean Water Act and the Long Island Sound Study by New York State Department of Environmental Conservation and Connecticut applicable. The samples for these parameters shall be obtained on the same day of operation, in accordance with the frequency specified above.

The limits in Tables A and B shall be effective from the day of permit issuance until one day before the Final Compliance Date defined in Section 5(A).

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Dicohomos Cont. 1.1.		TABLE B	E B			
Westernage Serial Number (USN); 001-1			Monitoring Location: T	ion: T		
wastewater Description: Metal Finishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver sold tin nollodium sincered.	(cleaning,	stripping, maski	ng wastewaters;	opper, bronze, ni	ckel, silver gold tin nallac	in the state of
Monitoring Location Description: Immediately following final clarifier	wastewater	s), building mai	ntenance wastew	aters, scrubber w	astewater	num, tin-tead, and
Allocated Zone of Influence (ZOI): 484,704 gnh						
	17.11			In stream Was	In stream Waste Concentration (IWC): 2.8%	%8
PARAMETER	Onits	Maximum Daily Limit	Maximum Instantaneous Limit	Sampling Frequency	Sample Type	Minimum Level
Aquatic Toxicity, Daphnia pulex ¹ LC ₅₀	%	> 56	Ϋ́	Troit C	:	See Section 6
Aquatic Toxicity, Pimephales promelas 11 C.	6	100		Çualıcııy	Daily Composite	
	°	000	ν V	Quarterly	Daily Composite	
Aquatic Toxicity, Daphnia pulex LC ₅₀	%	NA	> 18.8	Æ	Grah	
Aquatic Toxicity, Pimephales promelas 1 LC50	%	NA	> 18.8	æ		
Aluminum, Total	mg/l	0.4	TIN.	NII.	Crab	
Cadmium, Total	1/200	o la	NA	Quarterly	Daily Composite	
Chromium Total	118/11	0.0	Ϋ́	Semi-	Daily Composite	*
Circumani, 10tal	mg/l	2.0	NA AN	Semi		
Chlorine, Total Residual	ma/l	0,666		Annually	Daily Composite	*
Chloroform, Total	11/8/11	0.000	NA	Quarterly	Grab Sample Average	*
Copper, Total	1/gill	- 6	NA	Quarterly	Daily Composite	
Cyanide, Amenable	1.00	0.88	NA	Quarterly	Daily Composite	*
Cyanide, Total		0.2	NA	Quarterly	Grab Sample Average	
Blineida Tant	mg/l	4.0	AN	Quarterly	Grab Sample Average	*
Gold Total	mg/l	30:0	NA	Quarterly	Daily Composite	;
Cold, 10tal	mg/l	0.5	ĄN	Onstarly	oury composite	
Indium, Total	mg/l	+	· Z	Qualifelly	Daily Composite	
Iron, Total	l/am	0.5		Quarterly	Daily Composite	
Lead, Total	me/l	0.048	Y.	Quarterly	Daily Composite	
Nickel, Total	mo/l	25.5	¥V.	Quarterly	Daily Composite	*
		17:1	NA	Quarterly	Daily Composite	*

		TABLE B (continued)	ontinued)			
Discharge Serial Number (DSN): 001-1			Monitoring Location: T	ation: T		
Wastewater Description: Metal Finishing Wastewater lead, and lead plating wastewaters, pretreated cyanide	(cleaning,	stripping, maski astewaters), buil	ishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver, gold, pretreated cyanide bearing wastewaters), building maintenance wastewaters, scrubber wastewaters	copper, bronze, ni	ishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver, gold, tin, palladium, tin- pretreated cyanide bearing wastewaters), building maintenance wastewaters, scrubber wastewater	ladium, tın-
	ing final c	larifier				
Allocated Zone of Influence (ZOI): 484,704 gph				In stream Waste	In stream Waste Concentration (IWC): 2 8%	%0%
	11-11					9/0
PARAMETER	Onits	Maximum	Maximum	Sampling	Sample	Minimum
		, mm3	Instantaneous	requency	Type	Level
		Limit	Limit			Analysis
Nitrogen Ammonia (Total of M)	,				_	See Section 6
cedi, minimia (19tal as IV)	mg/	20.0	NA VA	Quarterly	Daily Composite	
Nitrogen, Nitrate (Total as N)	l/gm		AN	Ougrteriv	Daily Composite	
Nitrogen, Nitrite (Total as N)	1/204				Sany Composite	
Nitrocon TVN (Trans.)	, S		ΥN	Quarterly	Daily Composite	
Mudgell, ININ (10tal as IN)	mg/i	-	NA	Quarterly	Daily Composite	
Oil and Grease, Total	mg/l	15.0	AN	Quarterly	Grah Samula A warang	
Palladium, Total	l/øm		V.		Olab Sample Avelage	
Silver Total			UNI	Quarteriy	Daily Composite	
orici, rotal	mg/l	0.43	V V	Quarterly	Daily Composite	*
Surfactants, Anionic	mg/l		Ϋ́	Quarterly	Daily Composite	
Tin, Total	l/gm	4.0	ΨX	Ouarterly	Doily Composite	
Total Suspended Solids	l/am	30.0	V.Z		Cally Colliposite	
Zinc. Total	,		V.	Çuarteriy	Daily Composite	
, com	mg/l	2.0	NA	Quarterly	Daily Composite	*
Remarks:						÷

Note: All analysis shall be on the same sample. The results of the Toxicity Tests shall be recorded as the LC30 value on the DMR.

² The limits in Tables A and B shall be effective from the day of permit issuance until one day before the Final Compliance Date defined in Section 5(A).

				T.1.1.					
Discharge Serial Number: 001-1) anne	ار				
Wastewater Description: Metal Finishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver, cold, tin, nalladium, tin, lond, and lon	ishing Wa	stewater (cleanin	g, stripping, mas	king wastewaters; cop	per, bronze, nickel, silver.	Monitoring Location: 1	on: 1 m fin-load and land al		
Monitoring Location Description: Immediately following the final clarifier	fing main mmediate	tenance wastewa	ters, scrubber wa	stewaters		minate (iii) base	m, un-teau, and lead pl	anng wastewater	s, pretreated
DADAMETED			FLOW/TIME	E BASED MONITORING	RING	INSTA	INSTANTANEOUS MONITORING	ORING	
NG GEORGE	UNITS	Average Monthly Limit	Maximum Daily Limit	Sample//Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample// Reporting Frequency 2	Sample Type or measurement	Minimum Level Test
Aluminum, Total	mg/l	2.0	4.0	11/00/11	0	0		to be reported	
Biochemical Oxygen Demand (5-day)	kg/d	42.7		Monthly	Daily Composite	0.9	NR	Grab	
Cadmium, Total	mg/l	0.1	5.0	Semi-Application	Daily Composite	NA	NR	NA	
Cadmium	kg/d	0.023	0.046	Semi-Annually	Daily Composite	0.75	NR NR	Grab	*
Chloroform	l/gm	NA		Monthly	Daily Composite	AN	NR	٧V	
Chromium, Total	l/gm	0.1	2.0	Semi-Annually	Daily Composite	AZ.	N.	Grab	
Copper, Total	mg/l	0.474	0.876	Weekly	Daily Composite	3.0	NR R	Grab	*
Copper	kg/d	0.228	0.457	Weekly	Daily Composite	1.32	NR	Grab	*
Cyanide, Amenable	mg/l	0	0.0	Weekly	Dally Composite	NA	NR	AN	
Cyanide, Total	mø/l	0.22	7.0	weekly	Grab Sample Average	0.3	NR	Grab	
Cyanide, Total	10/07	0.102	4.0	weekly	Grab Sample Average	9.0	NR	Grab	*
	ng.	0.173	0.380	Weekly	Grab Sample Average	NA	NR	× Z	
Flow, Average and Maximum Daily 1	bdg	330,000	400,000	Continuous// Monthly	Daily Flow	NA	2 2	\$ Z	
Flow, Day of Sampling	pd8	NA	400,000	Weekly	Daily Flour	1		C.	
Flow, Duration	hr.	AN		Weekly	Tetal	NA.	N.	NA	
Fluoride, Total	mg/l	20.0	30.0	Wookly	1 otal nours	NA	NR	N.A	
Gold, Total	mg/l	0.1	0.5	Weekly	Dally Composite	45.0	NR.	Grab	
Indium, Total	mg/l	NA		Woold	Daily Composite	0.75	NR	Grab	
Iron, Total	mg/l	3.0	5.0	Weekly	Daily Composite	NA	NR	Grab	
Lead, Total	mg/l	0.016	0.048	Weekly	Dally Composite	7.5	NR	Grab	
Lead	p/ax	0 007	0.013	Weekly	Daily Composite	0.072	N.	Grab	*
Nickel, Total	l/om	0.653	12.1	weckly	Daily Composite	VA	~Z	ź	
Nickel	ko/d	0.033	17.1	Wcekly	Daily Composite	1.82	NR	Grah	*
Nitrogen, Ammonia (Total as N)]/om	10.0	700	Weekly	Daily Composite	NA	NR	4Z	
Nitrogen, Nitrate (Total as N)	mo/l	2.2	20.0	Weekly	Daily Composite	30.0	N.R.	Grah	
Nitrogen, Nitrite (Total as N)	mo/l	C AZ		Weekly	Daily Composite	NA	NR	Grab	
Nitrogen, TKN (Total as N)	1/04	V.V.	•	weekly	Daily Composite	NA	NR	Grah	
	1,81	Y.		Weekly	Daily Composite	VN.	××	Circle Circle	
								Oruc	

				Table C (continued)	ntinned)				
Nitrogen, Total 5	ko/d	17.7	11/4	On O argur	nanna				
Oil and Crass Tatal	200	/-/1	INA	Weekly	Daily Composite	NA	alv	1.7	
Oil aild Ofease, 10tal	l/gm	10.0	15.0	Weekly	Grah Sample Average		VIX.	4.V.	
Palladium, Total	l/am	ΑN		11/1-1	Sian Saining Average	70.07	Y.V.	Grab	
	0	-		weekly	Daily Composite	√ Z	20	Sea.	
DH. Continuous	:	414	;						
		AN	A V	N.	٧Z	0.0 - 0.9	Continuous/		
pH. Day of Sampling	110	417					Monthly	KUM	
9	.0.0	Y.	ΨZ —	Z Z	→				
Silver, Total	mo/l	- 0	0.43			0.0 - 9.0	Weekly	RDS	
5.1.5	0	7.0	0.43	Weekly	Daily Composite	0.75	dix.	(
Silver	kg/d	0.027	0.054	Wookly		21.0	ואא	Crab	*
Surfactants. Anionic	1/200	V.V		Weekly	Daily Composite	AA	<u>د</u> ک	ΑN	
		INA		Monthly	Daily Composite	< Z	41.4		
lin, iotal	mg/	2.0	4.0	Month	2000	22	Y.Y.	Grab	
Total Residual Chlorine	1/6#	0 116	220	WCCKIY	Daily Composite	0.0	NR	Grab	
Total Suspended Solids			0.232	weekly	Grab Sample Average	1.0	22	411.	
child positions and	1/8	70.0	30.0	Weekly	Daily Composite	15.0		Giab	
Total Toxic Organics 4	mg/l	AN	VIV	div	Suri Composite	45.0	NR	Grab	
Zinc Total			CV.	IVR	NA	1.0	Monthiv	465	
	1/8111	1.0	2.0	Weeklv	Daily Composite	,		Clab	
Zinc	kg/d	0.028	0.055	Weekly	Della Composito	0.0	YZ.	Grab	*
Table C Footnotes and Demarks:			2225	WCCNIY	Daily Composite	- YZ	~ Z	4.7	

C Footnotes and Remarks:

For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each month.

² The first entry in this column is the 'Sample Frequency'. If a 'Reporting Frequency' does not follow this entry and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'

 3 Minimum Level Test refers to Section (6) Paragraph (A)(3) of this permit.

⁴ Refer to Section (8), Paragraph (D) of this permit.

⁵ The limit on Total Nitrogen shall become effective on August 1, 2009 per requirements of A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound, prepared in conformance with Section 303(d) of the Clean Water Act and the Long Island Sound Study by New York State Department of Environmental Conservation and Connection Department of Environmental Protection, December 2000. The Permittee shall calculate total nitrogen by combining analytical results for nitrate, nitrite, and total Kjehldahl nitrogen and daily flow, as applicable. The samples for these parameters shall be obtained on the same day of operation, in accordance with the frequency specified above.

Remarks:
The limits in Tables C and D shall become effective the on the date occurring three (3) years and six (6) months after the day of permit issuance ("Final Compliance Date").

		TABLED	ED			
Discharge Serial Number (DSN): 001-1			Monitoring Location: T	on: T		
Wastewater Description: Metal Finishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze, nickel, silver, gold tin nalladium tin load and lead plating wastewaters	(cleaning	, stripping, mask	ing wastewaters; c	opper, bronze, n	ickel, silver, gold tin nalla	dium tin land and
Monitoring Location Description: Immediately following final clarifier	wastewate ving final	rs), building ma	intenance wastewa	iters, scrubber w	astewaters	יסומוו, וווו-זכמט. מחט
Allocated Zone of Influence (ZOI): 162.532 onh	,					
				In stream Was	In stream Waste Concentration (IWC): 7.8%	7.8%
PARAMETER	Units	Maximum Daily Limit	Maximum Instantaneous Limit	Sampling Frequency	Sample Type	Minimum Level Analysis
Aquatic Toxicity, Daphnia pulex ¹ NOAEL = 52	%	> 90	NA	Ouarterly	Daily Composite	See Section 6
Aquatic Toxicity, Pimephales promelas ¹ NOAEL = 52	%	> 90	AN	Ouarterly	Daily Composite	
Aquatic Toxicity, Daphnia pulex Survival in 100%	%	> 50	NA	Ouarterly	Daily Composite	
Aquatic Toxicity, Pimenhales promelas						
Survival in 100%	%	> 50	N A	Quarterly	Daily Composite	
Aquatic Toxicity, Daphnia pulex LC30	%	NA	> 52	NR.	Grab	
Aquatic Toxicity, Pimephales promelas ¹ LC ₅₀	%	NA	> 52	a N	100	
Aluminum, Total	1/04	0	11.0		Grab	
Cadmium. Total	1.18.11 1.	4.0	NA	Quarterly	Daily Composite	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/l	0.5	ΝΑ	Semi-	Daily Composite	*
	l/gш	2.0	NA A	Semi-	Daily Composite	*
Chlorine, Total Residual	l/gm	0.232	NA	Ouarterly	Grah Samule Average	
Chloroform, Total	l/gm	****	4Z	Onarterly	Della Campic Avelage	*
Copper, Total	l/gm	0.876	ĄZ	Quarterly	Daily Composite	
Cyanide, Amenable	mg/l	0.2		Value really	Daily Composite	*
Cyanide, Total	mg/l	0.4	VIII.	Cualiteriy	Grab Sample Average	
Fluoride, Total	1/om	30.0	YV.	Quarterly	Grab Sample Average	*
Gold, Total	. A	20.0	A.	Quarterly	Daily Composite	
	ı/gııı	0.5	NA	Quarterly	Daily Composite	

		TABLE D (continued)	continued)			
Discharge Serial Number (DSN): 001-1			Monitoring Location: T	n: T		
Wastewater Description: Metal Finishing Wastewater	(cleaning	stripping, mask	ing wastcwaters: co	opper bronze n	nishing Wastewater (cleaning, stripping, masking wastewaters; copper, bronze niekol silvar and in all all	-
Monitoring Location Description: Immediately following final clarifier	vastewate	rs), building ma	intenance wastewat	ers, scrubber w	astewaters	num, tm-lead, and
Allocated Zone of Influence (ZOI): 162 532 mk						
(-0.1): 104,004 gp11				In stream Was	In stream Waste Concentration (IWC): 7.8%	7.8%
PARAMETER	Units	Maximum Daily	Maximum	Sampling Frequency	Sample	Minimum
		Limit	Limit	r i	Type	Level Analysis
Indium, Total	l/am		42			See Section 6
Iron. Total			ΨNI	Quarterly	Daily Composite	
sod Total	mg/l	5.0	NA	Quarterly	Daily Composite	
Mister Total	mg/l	0.048	ΥN	Quarterly	Daily Composite	*
Nitro	mg/l	1.21	Ϋ́	Quarterly	Daily Composite	*
Milliogen, Ammonia (total as N)	mg/l	20.0	Ϋ́Α	Quarterly	Daily Composite	
Nitrogen, Mittate (10tal as N)	mg/l		NA	Quarterly	Daily Composite	
Nitrogen, Infilite (10fal as N)	mg/l		NA	Quarterly	Daily Composite	
Oil and Greece Trace	mg/l	-	NA AN	Quarterly	Daily Composite	
On and Orease, 10tal	mg/l	15.0	NA	Quarterly	Grab Sample Average	
Silver Total	l/gm	•	NA	Quarterly	Daily Composite	
Surfactores A -:-:	mg/l	0.43	NA	Quarterly	Daily Composite	*
Surfaciants, Anionic	mg/l		NA	Quarterly	Daily Composite	
lin, lotal	mg/l	4.0	AN	Quarterly	Daily Composite	
10tal Suspended Solids	mg/l	30.0	ΑN	Ouarterly	Daily Composite	
Zinc, Total	mg/l	0.044	NA	Ouarterly	Daily Composite	
Remarks:					anis combosite	*

Note: All analysis shall be on the same sample.

The results of the Toxicity Tests shall be recorded in % survival on the DMR.

² The limits in Tables C and D shall become effective on the date occurring three (3) years and six (6) months after the day of permit issuance ("Final Compliance Date")

				Table F					
Discharge Serial Number: 001-A				T another In	;				
Wastewater Description: Pretreated Cvanide-hearing Wastewater	ding Wast	onto to to			Monite	Monitoring Location: 1			
Monitoring Location Description: Immediately following examine treatment prior to dilution with one other	lowing cv	anide treatment	nrior to dilution	with one other mest					
		company of	orior to anathor	with any other wast	estream				
			LOW/TIME B	FLOW/TIME BASED MONITORING	5	INSTANTA	INSTANTANEOUS MONITORING	TORING	
PARAMETED									Minimum
	UNITS	UNITS Average Monthly Limit	Maximum Daily Limit	Sample//Reporting Measurement to limit or required be reported	Sample Type or Measurement to be reported	Instantaneous limit or required	Sample Reporting	Sample Type or measurement	-
						0	(allapha)	to be reported	_
Cyanide, Amenable	l/gm	0.32	98.0	Weekly	Grab Sample	0.86	≅Z.	Grah	
Table E Footnotes:					Avelage				

The first entry in this column is the 'Sample Frequency'. If a 'Reporting Frequency' does not follow this entry and the 'Sample Frequency' is more frequency' is more frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.

² Minimum Level Test refers to Section (6) Paragraph (A)(3) of this permit.

- (1) All samples shall be comprised of only the wastewater described in this table. Samples shall be collected prior to combination with receiving waters or wastewater of any other type, and after all approved treatment units, if applicable. All samples collected shall be representative of the discharge during standard operating conditions.
- (2) In cases where limits and sample type are specified but sampling is not required by this permit, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Environmental Protection personnel, the Permittee, or other parties.
- (3) The limits imposed on the discharges listed in this permit take effect on the issuance date of this permit, hence any sample taken after this date which, upon analysis, shows an exceedance of permit limits will be considered non-compliance.

The monitoring requirements begin on the date of issuance of this permit if the issuance date is on or before the 12th day of a month. For permits issued on or after the 13th day of a month, monitoring requirements begin the 1st day of the following month.

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

(A) Chemical Analysis

- (1) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved pursuant to the Code of Federal Regulations, Part 136 of Title 40 (40 CFR 136) unless an alternative method has been approved in writing pursuant to 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (2) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (3) The Minimum Levels specified below represent the concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Section 5 Tables A. B, C and D. Analyses for these parameters must include check standards within ten percent of the specified Minimum Level or calibration points equal to or less than the specified Minimum Level.

Parameter Cadmium, Total Chlorine, Total Residual Chromium, Total Copper, Total Cyanide, Total Lead, Total Nickel, Total Silver, Total Zinc, Total	Minimum Level 0.5 ug/l 20.0 ug/l 5.0 ug/l 5.0 ug/l 10.0 ug/l 5.0 ug/l 2.0 ug/l
	10.0 ug/l

- (4) The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible consistent with the requirements of this section of the permit.
- (5) Effluent analyses for which quantification was verified during the analysis at or below the minimum levels specified in this section and which indicate that a parameter was not detected shall be reported

- as "less than x" where 'x' is the numerical value equivalent to the analytical method detection limit for that analysis.
- (6) Results of effluent analyses which indicate that a parameter was not present at a concentration greater than or equal to the Minimum Level specified for that analysis shall be considered equivalent to zero (0.0) for purposes of determining compliance with effluent limitations or conditions specified in this permit.

(B) Acute Aquatic Toxicity Test

- (1) Samples for monitoring of Aquatic Toxicity shall be collected and handled as prescribed in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA/821-R-02-012).
 - (a) Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 4 degrees Centigrade until Aquatic Toxicity testing is initiated.
 - (b) Effluent samples shall not be dechlorinated, filtered, or, modified in any way, prior to testing for Aquatic Toxicity unless specifically approved in writing by the Commissioner for monitoring at this facility.
 - (c) Chemical analyses of the parameters identified in Section 5 Tables B and D, with the exception of any parameters that are required to be monitored on an annual basis, shall be conducted on an aliquot of the same sample tested for Aquatic Toxicity.
 - (i) At a minimum, pH, specific conductance, total alkalinity, total hardness, and total residual chlorine shall be measured in the effluent sample and, during Aquatic Toxicity tests, in the highest concentration of test solution and in the dilution (control) water at the beginning of the test and at test termination. If Total Residual Chlorine is not detected at test initiation, it does not need to be measured at test termination. Dissolved oxygen, pH, and temperature shall be measured in the control and all test concentrations at the beginning of the test, daily thereafter, and at test termination.
 - (d) Tests for Aquatic Toxicity shall be initiated within 24 hours of sample collection.
- (2) Monitoring for Aquatic Toxicity to determine compliance with the permit limit on Aquatic Toxicity (invertebrate) above shall be conducted for 48-hours utilizing neonatal <u>Daphnia pulex</u> (less than 24-hours old).
- (3) Monitoring for Aquatic Toxicity to determine compliance with the permit limit on Aquatic Toxicity (vertebrate) above shall be conducted for 48-hours utilizing larval <u>Pimephales promelas</u> (1-14 days old with no more than 24-hours range in age).
- (4) Tests for Aquatic Toxicity shall be conducted as prescribed for static non-renewal acute tests in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA/821-R-02-012), except as specified below.
 - (a) Definitive (multi-concentration) testing, with LC50 as the endpoint, shall be conducted to determine compliance with limits on Aquatic Toxicity and monitoring conditions and shall incorporate, at a minimum, the following effluent concentrations:

- (i) For Aquatic Toxicity Limits expressed as LC50 values of 33% or greater: 100%, 75%, 50%, 25%, 12.5%, and 6.25%
- (b) For Aquatic Toxicity Limits and for monitoring only conditions, expressed as an NOAEL value, Pass/Fail (single-concentration) tests shall be conducted at a specified Critical Test Concentration (CTC) equal to the Aquatic Toxicity Limit, or 100% in the case of monitoring only conditions, as prescribed in section 22A-430-3(j)(7)(A)(1) of the Regulations of Connecticut State Agencies, except that five replicates of undiluted effluent and five replicates of effluent diluted to the CTC shall be included.
- (c) Organisms shall not be fed during the tests.
- (d) Copper nitrate shall be used as the reference toxicant in tests with freshwater organisms.
- (e) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50 mg/L (plus or minus 5 mg/L) as CaCO3 shall be used as dilution water in tests with freshwater organisms.
- (5) Compliance with limits on Aquatic Toxicity shall be determined as follows:
 - (a) For limits expressed as a minimum LC50 value, compliance shall be demonstrated when the results of a valid definitive Aquatic Toxicity test indicates that the LC50 value for the test is greater than the Aquatic Toxicity Limit.
 - (b) For limits expressed as an NOAEL value, compliance shall be demonstrated when the results of a valid pass/fail Aquatic Toxicity test indicates there is greater than 50% survival in the undiluted effluent and 90% or greater survival in the effluent at the specified CTC.
- (C) The Permittee shall annually monitor the chronic toxicity of DSN 001-1 in accordance with the following specifications.
 - (1) Chronic toxicity testing of the discharge shall be conducted annually during July, August, or September of each year during a period when the streamflow in the Naugatuck River is at or below 150 cfs as measured at the USGS gauging station 01206900 located in Thomaston, CT.
 - (2) Chronic toxicity testing shall be performed on the discharge in accordance with the test methodology established in "Short term Methods For Estimating The Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms" (EPA-821-R-02-013) as referenced in 40CFR 136 for Cerio daphnia survival and reproduction and Fathead Minnow larval survival and growth.
 - (3) Chronic toxicity tests shall utilize a minimum of six effluent dilutions prepared using a dilution of 100% effluent, 64% effluent, 32% effluent, 16% effluent, 8% effluent, 4% effluent, 0 % effluent with both:
 - (a) Naugatuck River water collected immediately upstream of the area influenced by the discharge used as site water control (0% effluent) and dilutent, and
 - (b) A laboratory water control consisting of synthetic freshwater prepared in accordance with EPA-821-R-02-012 at a hardness of 50±5 mg/l.

- Daily composite samples of the discharge and grab samples of the Naugatuck River for use as site water control and dilution water shall be collected at a minimum of: day 0, for test solution renewal on day 1 and day 2 of the test; day 2, for test solution renewal on day 3 and day 4 of the test; and day 4, for test solution renewal on day 5, 6, and 7 of the test. Samples shall not be dechlorinated, pH or hardness adjusted, or chemically altered in any way.
- (6) All samples of the discharge and the Naugatuck River water used in the chronic toxicity test shall, at a minimum, be analyzed and results reported in accordance with the provisions listed in Section 6(A) of this permit for the following parameters:

pH
Hardness
Alkalinity
Biological Overson David

Biological Oxygen Demand (5-day)

Conductivity

Chlorine (Total residual)

Cyanide (Total)

Nitrogen, Ammonia (Total as N)

Nitrogen, Nitrate (Total as N)

Nitrogen, Nitrite (Total as N)

Aluminum (Total recoverable and dissolved)
Copper (Total recoverable and dissolved)
Iron (Total recoverable and dissolved)
Lead (Total recoverable and dissolved)
Nickel (Total recoverable and dissolved)

Surfactants, Anionic Total Suspended Solids

Zinc (Total recoverable and dissolved)

SECTION 7: LIMITATIONS FOR AQUATIC TOXICITY BASED ON ACTUAL FLOWS

- (A) In lieu of demonstrating compliance with the specific Maximum Daily Toxicity Limits in Section 5 Tables B and D, the Permittee may recalculate the IWC based on actual flows provided:
 - (1) the Permittee maintains an accurate record of measured discharge flows and hours of operation for all days on which a discharge occurs; and
 - (2) the total daily flow for any single operating day does not exceed the average of the daily flows for the thirty consecutive operating days prior to the sampling date by more than 25 per cent.
- (B) The In Stream Waste Concentration (IWC) shall be calculated as follows:
 - (1) The measured average daily flow in gallons per hour shall be tabulated for each of the prior 30 operating days and the arithmetic average for the 30 day period calculated.
 - (2) The IWC (in gallons per hour) specific for the thirty consecutive operating days prior to the sampling date shall be calculated by dividing the 30 day average hourly flow by the sum of the 30-day average flow and the zone of influence (ZOI) allocated to the discharge:

IWC (%) =
$$\frac{30 \text{ day average hourly flow}}{30 \text{ day average hourly flow + ZOI}} \times 100$$

- (3) The alternative Maximum Daily Toxicity Limit shall be determined by the IWC calculated above:
 - (a) For IWC equal to or less than 5%, the LC50 value shall be greater than or equal to the IWC times 20.
 - (b) For IWC greater than 5%, and less than 15%, the NOAEL value shall be an NOAEL equal to the IWC times 6.7.

- (c) For IWC equal to or greater than 15%, the NOAEL value shall be an NOAEL equal to 100%.
- (d) Demonstration of compliance with these alternative Maximum Daily Limits shall be performed as specified in Section 6(B) of this permit.
- (C) Compliance with the alternative Maximum Daily Toxicity Limits based on actual flows shall be determined as follows:

 (1) For alternative limits expressed as a Minimum Lozar and the limits and the limits expressed as a Minimum Lozar and the limits and the limits expressed as a Minimum Lozar and the limits and the limits and the limits and the limits expressed and the limits and the limits
 - (1) For alternative limits expressed as a Minimum LC50 value in accordance with Section (7)(B)(3)(a) above, compliance shall be demonstrated when the LC50 value for a valid definitive Aquatic Toxicity Test, conducted pursuant to the requirements specified in Section (6)(B) of this permit, is greater than the alternative limit.
 - (2) For alternative limits expressed as an NOAEL value in accordance with Section (7)(B)(3)(b) above, compliance shall be demonstrated when the results of a valid pass/fail Aquatic Toxicity Test, conducted pursuant to the requirements specified in Section (6)(B) of this permit, indicates greater than 50% survival in the undiluted effluent and 90% or greater survival in the effluent at a CTC equal to the alternative limit.

SECTION 8: REPORTING REQUIREMENTS

(A) The results of chemical analyses and any aquatic toxicity test required above shall be entered on the Discharge Monitoring Report (DMR), provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) at the following address. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at this address by the last day of the month following the month in which samples are collected.

Bureau of Materials Management and Compliance Assurance Water Permitting and Enforcement Division (Attn: DMR Processing) Connecticut Department of Environmental Protection 79 Elm Street Hartford, CT 06106-5127

(B) Complete and accurate aquatic toxicity test data, including percent survival of test organisms in each replicate test chamber, LC50 values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, including measured daily flow and hours of operation for the 30 consecutive operating days prior to sample collection if compliance with a limit on Aquatic Toxicity is based on toxicity limits based on actual flows described in Section 7, shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR) and sent to the Bureau of Water Planning and Land Reuse at the following address. The ATMR shall be received at this address by the last day of the month following the month in which samples are collected. Chronic toxicity reports shall be received within sixty (60) days of test completion.

Bureau of Water Planning and Land Reuse (Attn: Aquatic Toxicity)
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(C) If this permit requires monitoring of a discharge on a calendar basis (e.g. Monthly, quarterly, etc.), but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR and ATMR, as scheduled, indicating "NO DISCHARGE". For those Permittees whose required monitoring is discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

(D) For any table above that requires Total Toxic Organics (TTO) monitoring, the Permittee may, in lieu of analyzing for Total Toxic Organics, include a statement on the DMR, at the frequency required, certifying compliance with your Solvent Management Plan if such plan has been approved by the Commissioner in accordance with section 22a-430-4(l) of the RCSA and by 40CFR433 (Metal Finishing). If such approval has been granted and the reports include the compliance statement, the minimum frequency of sampling shall be reduced to semi-annually in the months of January and July.

SECTION 9: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any sample analysis indicates that an Aquatic Toxicity effluent limitation in Section 5 of this permit has been exceeded, or that the test was invalid, another sample of the effluent shall be collected and tested for Aquatic Toxicity and associated chemical parameters, as described above in Section 5 and Section 6, and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing), at the address listed above, within 30 days of the exceedance or invalid test. Results of all tests, whether valid or invalid, shall be reported.
- (B) If any two consecutive test results or any three test results in a twelve month period indicates that an Aquatic Toxicity Limit has been exceeded, the Permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report to Bureau of Water Planning and Land Reuse (Attn: Aquatic Toxicity) for the review and approval of the Commissioner in accordance with section 22a-430-3(j)(10)(c) of the RCSA describing proposed steps to eliminate the toxic impact of the discharge on the receiving water body. Such a report shall include a proposed time schedule to accomplish toxicity reduction and the Permittee shall comply with any schedule approved by the Commissioner.
- (C) The Permittee shall notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division, within 72 hours and in writing within thirty days of the discharge of any substance listed in the application but not listed in the permit if the concentration or quantity of that substance exceeds two times the level listed in the application.

SECTION 10: COMPLIANCE SCHEDULE

- (A) On or before thirty (30) days after the date of issuance of this permit, the Permittee shall retain one or more qualified consultants acceptable to the Commissioner to prepare the documents and implement or oversee the actions required by this section of the permit and shall, by that date, notify the Commissioner in writing of the identity of such consultants. The Permittee shall retain one or more qualified consultants acceptable to the Commissioner until the actions required by this section of the permit have been completed, and within ten (10) days after retaining any consultant other than one originally identified under this paragraph, Permittee shall notify the Commissioner in writing of the identity of such other consultant. The consultant retained to perform the studies and oversee any remedial measures required to achieve compliance with Section 5 limitations shall be a qualified professional engineer licensed to practice in Connecticut acceptable to the Commissioner. The Permittee shall submit to the Commissioner a description of a consultant's education, experience and training that is relevant to the work required by this permit within ten (10) days after a request for such a description. Nothing in this paragraph shall preclude the Commissioner from finding a previously acceptable consultant unacceptable.
- (B) On or before one hundred eighty (180) days after the date of issuance of this permit, the Permittee shall submit a report for the Commissioner's review and written approval summarizing a study to determine the effectiveness of remedial actions taken to achieve compliance with the goals of Section 5(c)(1)(E)(i) of the General Permit for the Discharge of Stormwater Associated with Industrial Activity. At a minimum, such report shall:

- (1) identify best management practices and remedial actions implemented in compliance with and in addition to the March 2000 *Stormwater Compliance Plan* and its addendums prepared for Summit Corporation by HRP Associates;
- (2) provide analyses from a minimum of four (4) of the most recent consecutive sampling events, conducted according to the requirements of Section 5(c) of the General Permit for the Discharge of Stormwater Associated with Industrial Activity, of the discharge from DSNs 003-1 and 004-1; and based on the analyses presented.
- (3) evaluate the need for implementing supplemental remedial measures to further improve site stormwater quality, and provide a schedule for the implementation of such measures.
- (C) The Permittee shall achieve compliance with the effluent limitation for Total Nitrogen in Section 5, Tables A and C of this permit as soon as possible, but in no event later than August 1, 2009, in accordance with the following:
 - On or before five hundred forty-five (545) days after the date of issuance of this permit, the Permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough report which describes and evaluates alternative actions which may be taken by the Permittee to achieve compliance with the effluent limitation for Total Nitrogen in Section 5, Tables A and C of this permit. Such report shall:
 - (a) evaluate alternative actions to achieve compliance with Section 5, Table A and C limits for Total Nitrogen including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero discharge systems, water conservations measures, and other internal an/or end-of-pipe treatment technologies;
 - (b) state in detail the most expeditious schedule for performing each alternative;
 - (c) list all permits and approvals required for each alternative, including but not limited to any permits required under sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368 or 22a-430 of the Connecticut General Statutes;
 - (d) propose a preferred alternative or combination of alternatives with supporting justification; and
 - (e) propose a detailed program and schedule to perform all actions required by the preferred alternative including but not limited to a schedule for submission of engineering plans and specifications on any internal and/or end of pipe treatment facilities, start and completion of any construction activities related to any treatment facilities, and applying for and obtaining all permits and approvals required for such actions.
 - (2) <u>Implementation of Approved Actions</u>. The Permittee shall perform the approved actions in accordance with the approved schedule, but in no event shall the approved actions be completed later than August 1, 2009. Within fifteen (15) days after completing such actions, the Permittee shall certify to the Commissioner in writing that the actions have been completed as approved.
- (D) The Permittee shall achieve compliance with the effluent limitations contained in Section 5, Tables C and D of this permit as soon as possible, but in no event later than the Final Compliance Date, in accordance with the following:
 - (1) Scope of Study. On or before nine (9) months after the date of issuance of this permit, the Permittee shall submit for the Commissioner's review and written approval a scope of study for the investigation of its ability to consistently achieve compliance with the effluent limitations contained in Section 5,

Tables C and D of this permit. Such scope shall include proposed sampling and analytical measures to supplement the aquatic toxicity monitoring required under Section 5. Table B of this permit during the investigation, and a schedule for conducting the investigation required by this paragraph and a date by which the report required by Section 10(D)(3) of this permit will be submitted to the Commissioner.

- (2) <u>Performance of Investigation</u>. The Permittee shall perform the investigation and other actions specified in the approved scope of study and the approved schedule.
- (3) Investigation Report and Implementation Plan. In accordance with the schedule approved by the Commissioner pursuant to Section 10(D)(1) of this permit but no later than one (1) year and six (6) months after the date of issuance of this permit, the Permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough report which describes in detail the investigation performed pursuant to Section 10(D)(2) of this permit and which:
 - (a) compiles the aquatic toxicity monitoring data generated from investigations and monitoring performed and made publicly available by the Commissioner or performed by the Permittee after the date of issuance of this permit, and assesses the Permittee's ability to comply with the effluent limits of Section 5, Tables C and D, including verification of whether the Permittee is achieving compliance with the Maximum Instantaneous Limits of Section 5, Table D. Should such investigation reveal that the Permittee is unable to meet aquatic toxicity limits, then the report shall include for the review and approval of the Commissioner a Toxicity Reduction Evaluation (TRE) performed in accordance with Methods of Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures (2nd Edition);
 - (b) evaluates alternative actions to achieve compliance with such limits including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero discharge systems, water conservation measures, and other internal and/or end-of-pipe treatment technologies;
 - (c) states in detail the most expeditious schedule for performing each alternative;
 - (d) lists all permits and approvals required for each alternative, including but not limited to, any permits required under sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368, 22a-430 or 22a-430b of the Connecticut General Statutes:
 - (e) proposes a preferred alternative or combination of alternatives with supporting justification; and
 - (f) proposes a detailed program and schedule to perform all actions required by the preferred alternative including but not limited to a schedule for submission of engineering plans and specifications on any internal and/or end-of-pipe treatment facilities, start and completion of any construction activities related to any treatment facilities, and applying for and obtaining all permits and approvals required for such actions.
 - (g) proposes a study that shall be the basis of the report required under Section 10(D)(6), evaluating the effectiveness of remedial actions performed. Such proposal shall at a minimum include four sampling events, taken a minimum of one month apart, analyzed in accordance with this permit.
- (4) Progress Reports. The Permittee shall submit to the Commissioner quarterly status reports beginning sixty (60) days after the date of approval of the report referenced in Section 10(D)(3) above. Status reports shall include, but not be limited to, a summary of all effluent monitoring data collected by the Permittee during the previous ninety (90) day period and a detailed description of progress made by the Permittee in performing actions required by this section of the permit in accordance with the approved schedule including, but not limited to, development of engineering plans and specifications,

construction activity, contract bidding, operational changes, preparation and submittal of permit applications, and any other actions specified in the program approved pursuant to Section 10(D)(3) above.

- (5) Implementation of Approved Actions. The Permittee shall perform the approved actions in accordance with the approved schedule, but in no event shall the approved actions be completed later than two (2) years and six (6) months after the date of issuance of this permit. Within fifteen (15) days after completing such actions, the Permittee shall certify to the Commissioner in writing that the actions have been completed as approved.
- Evaluation of Approved Actions. On or before six (6) months from the completion of all approved remedial actions taken pursuant to Section 10(D)(5), the Permittee shall submit a report based on the study required under Section 10(D)(3)(g) summarizing the effectiveness of such remedial actions. After completing this study, and until the Final Compliance Date, the Permittee shall continue to evaluate the effectiveness of such remedial actions by sampling and analyzing this discharge for the parameters identified in Section 5, Table D on a bimonthly or other schedule more frequent than required by this permit and by reporting the results in the Permittee's DMR and ATMR in accordance with section 22a-430-3(j)(6) of RCSA and Sections 8 and 9 of this permit.
- (E) Approvals. The Permittee shall use best efforts to submit to the Commissioner all documents required by this section of the permit in a complete and approvable form. If the Commissioner notifies the Permittee that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and the Permittee shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within thirty (30) days of the Commissioner's notice of deficiencies. In approving any document or other action under this Compliance Schedule, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this section of the permit. Nothing in this paragraph shall excuse noncompliance or delay.
- (F) <u>Dates</u>. The date of submission to the Commissioner of any document required by this section of the permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this section of the permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" as used in this section of the permit means calendar day. Any document or action which is required by this section only of the permit, to be submitted, or performed, by a date which falls on, Saturday, Sunday, or, a legal Connecticut or federal holiday, shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or legal Connecticut or federal holiday.
- Motification of noncompliance. In the event that the Permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this section of the permit or of any document required hereunder, the Permittee shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Permittee shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Permittee shall comply with any dates that may be approved in writing by the Commissioner. Notification by the Permittee shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.
- (H) Notice to Commissioner of changes. Within fifteen days of the date the Permittee becomes aware of a change in any information submitted to the Commissioner under this section of the permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the Permittee shall submit the correct

or omitted information to the Commissioner.

(I) <u>Submission of documents</u>. Any document, other than a discharge monitoring report, required to be submitted to the Commissioner under this section of the permit shall, unless otherwise specified in writing by the Commissioner, be directed to:

Michelle L. Gore
Department of Environmental Protection
Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127

This permit is hereby issued on 12/21/07.

Gina McCarthy

GM/mlg