



November 16, 2009 File #: 2282-0096-09-0086

Mr. Steven Scharf New York State Department of Environmental Conversation Division of Environmental Remediation Remedial Action, Bureau A 625 Broadway Albany, NY 12233-7015

SUBJECT: US NAVY CONTRACT NO. N62472-99-D-0032 CONTRACT TASK ORDER NO. 96 GM-38 GROUNDWATER REMEDIATION AT NWIRP BETHPAGE, NY <u>MONTHLY REPORT NO. 2 ON GROUNDWATER AND AIR DISCHARGE</u> FOR DER SITE # 1-01-001

Dear Mr. Scharf:

In accordance with groundwater treatment system operational requirements for DER Site # 1-01-001, Tetra Tech EC, Inc. (TtEC) on behalf of the United State Department of the Navy provides this monthly report of the groundwater and air discharge results for the GM-38 system. The enclosed data is for the second month of treatment system operations from October 12, 2009 thru November 6, 2009. Continuous plant operations began on September 14, 2009. The SPDES discharge criteria and air permit equivalent permit with application are also included for your reference as Attachments 2 and 3, respectively.

Please do not hesitate contact me with any questions at office phone # 215-702-4099 or via email <u>stavros.patselas@tetratech.com</u>.

Sincerely,

TtEC Project Manager

Attachments:

- Attachment 1 Groundwater and Air Sampling Results for Month #2 of Operations
- Attachment 2 NYSDEC memorandum dated June 6, 2008 with Effluent Limitations and Monitoring Requirements
- Attachment 3 NYSDEC letter dated July 24, 2009 for Air Permit Equivalent Approval



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 cc: Jean Occidental, NYSDEC Division of Water William Spitz, NYSDEC – Region 1 Water Engineer Gerard Ennis, Nassau County Department of Public Works Richard Pfaender, Town of Oyster Bay Lora Fly, Navy Mid-Atlantic RPM GM-38 Project Site File CTO 96 File

Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

SPDES Parameters	Daily Maximum	Units	We	ek 1	We	eek 2	We	ek 3	We	ek 4
Process Stream			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
Week Ending Date			10/2	16/09	10/2	23/09	10/3	30/09	11/	6/09
Sampling Date			10/1	14/09	10/2	21/09	10/2	28/09	11/	5/09
Average Flow Rate	1100	GPM		728		726		710		740
Total Flow		gallons		7,338,240		6,272,640		6,134,400		6,393,600
pH (range)	5.5 - 8.5	SU	6.2-6.6	6.2-6.8	5.9 - 6.7	7.4-7.7	5.9	6.4	5.9 - 6.5	6.5 - 8.2
1,1-Dichloroethane	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	5	μg/l	180	2.2	180	ND	140	ND	160	ND
trans 1,2-Dichloroethene	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	μg/l	260	1.2	210	ND	130	ND	190	ND
1,1,1-Trichloroethane	5	μg/l	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	μg/l	420	2.9	400	ND	300	ND	440	ND
Vinyl chloride	2	μg/l	45	ND	50	ND	28	ND	29 J	ND
Mercury	0.25	μg/l	ND	ND	ND	ND	ND	ND	ND	ND

J – Estimated result less than reporting limit.

ND – Not detected

NR – Not recorded

Please note that the treated effluent results for all VOCs should be ND based on the results for the effluent from the three LGAC adsorbers operating in parallel. Due to an incorrect position of one butterfly valve on the LGAC pipe rack, some of the air stripped process water was by-passing the LGAC adsorbers and mixing with the treated effluent resulting in detectable concentrations for cis 1,2-Dichloroethene, Tetrachloroethene, and Trichloroethene. However, compliance with the SDPES requirements was maintained throughout the reporting period.

Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

DAR Parameters	SGC	Units	W	eek 1	W	eek 2	W	eek 3	Week		Week 4	
Process Stream			Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent		
Week Ending Date			10/	/16/09	10/	23/09	10/	/30/09	11	/6/09		
Sampling Date			10/	/16/09	10/	21/09	10/	28/09	11	/6/09		
Average Flow Rate	8000	CFM		8,579		8,667		8,186		8,644		
Total Flow		ft ³		86,476,320		74,882,880		70,727,040		74,684,160		
Total Flow		m ³		2,448,783		2,120,487		2,002,805		2,114,860		
Trichloroethene	14000	$\mu g/m^3$	4500	ND	4000	ND	6500	78	4700	12.5		
Vinyl Chloride	180000	$\mu g/m^3$	310	7.25	300	10.35	360	19	280	15		
trans 1,2-Dichloroethene	-	$\mu g/m^3$	21	ND	21	ND	23	ND	20	ND		
cis 1,2-Dichloroethene		$\mu g/m^3$	2000	ND	1700	ND	2400	27.5	1700	4.15		
1,2-Dichloroethane	-	$\mu g/m^3$	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	37000	$\mu g/m^3$	ND	6.5	ND	ND	ND	ND	ND	ND		
Xylene		$\mu g/m^3$		ND	ND	ND	ND	ND	ND	ND		
1,1,2-Trichloroethane	-	$\mu g/m^3$	ND	ND	ND	ND	ND	ND	ND	ND		

ND – Not detected

SGC - Short-term Guideline Concentration

Navy GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant Bethpage, NY Monthly Report

DAR Parameters	Discharge	Units	Week 1	Week 2	Week 3	Week 4				
	Limit									
Controlled Emissions from Exhaust Stack										
Week Ending Date			10/16/09	10/23/09	10/30/09	11/6/09				
Sampling Date			10/16/09	10/21/09	10/28/09	11/6/09				
Average Flow Rate	8000	CFM	8,579	8,667	8,186	8,644				
Total Flow		ft^3	86,476,320	74,882,880	70,727,040	74,684,160				
Total Flow		m ³	2,448,783	2,120,487	2,002,805	2,114,860				
Trichloroethene	0.09	lb/hr	0.0	0.0	0.002392	0.000405				
Vinyl Chloride	0.01	lb/hr	0.000233	0.000336	0.000583	0.000486				
1,2-Dichloroethene	0.03	lb/hr	0.0	0.0	0.000843	0.000134				
1,2-Dichloroethane	BRT	lb/hr	0.0	0.0	0.0	0.0				
Toluene	BRT	lb/hr	0.000209	0.0	0.0	0.0				
Xylene	BRT	lb/hr	0.0	0.0	0.0	0.0				
1,1,2-Trichloroethane	BRT	lb/hr	0.0	0.0	0.0	0.0				

BRT - Below reporting thresholds

p.2

New York State Department of Environmental Conservation Division of Water Bureau of Water Permits, 4 th Floor 625 Broadway, Albany, New York 12233-3505 Phone: (518) 402-8111 • FAX: (518) 402-9029 Website: www.dec.state.ny.us MEMORANDUM	Alexander B., Grannis
TO:Steven Scharf, DERFROM:Jean Occidental, DOW, Bureau of Water PermitsJOSUBJECT:Naval Weapons Industrial Reserve Plant (NWIRP); DER SiteDRAINAGE BASIN:na	
DATE: June 6, 2008	

In response to your request and the permittee's SPDES Permit Equivalent Application dated April 27, 2008, attached is the effluent criteria for the above noted groundwater remediation discharge.

The Division of Water does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. The Division of Environmental Remediation will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. Additional Condition (1) identifies the contact to send all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of these discharges and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at (518) 402-8116.

Attachment

cc: (w/att) RWE, Region 1 C. Webber BWP Permit Coordinator Naval Weapons Industrial Reserve Plant

DER site # 1-01-001 Page 1 of 2

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning: _____ April 1, 2009

and lasting until: _____ April 1, 2014

the discharges from the treatment facility to Groundwater shall be limited and monitored by the operator as specified below:

Flow oH (range) .,1-Dichloroethane .,2-Dichloroethane .,1-Dichloroethene tis-1,2-Dichloroethene rans-1,2-Dichloroethene Fetrachloroethene	Limita	ations		Minimum Monitoring Requirements		
Outfall and Parameters	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type	
Treated Groundwater Remediat	tion Discharge from:	Recovery Wells 1	, 2, and 3			
Flow	Monitor	1100	GPM	Continuous	Recorder	
pH (range)	5.5 -	8.5	SU	Weekly	Grab	
1,1-Dichloroethane	NA	5	µg/I	Monthly ¹	Grab	
1,2-Dichloroethane	NA	0.6	µg/l	Monthly ¹	Grab	
1,1-Dichloroethene	NA	5	µg/I	Monthly ¹	Grab	
cis-1,2-Dichloroethene	NA	5	µg/l	Monthly ¹	Grab	
trans-1,2-Dichloroethene	NA	5	µg/l	Monthly ¹	Grab	
Tetrachloroethene	NA	5	µg/I	Monthly ¹	Grab	
1,1,1-Trichloroethane	NA	5	µg/l	Monthly ¹	Grab	
Trichloroethene	NA	5	hð\l	Monthly ¹	Grab	
Vinyl chloride	NA	2	µg/l	Monthly ¹	Grab	
Mercury	NA	0.25	hð\	Monthly ¹	Grab	

Footnotes:

(1)

The minimum measurement frequency shall be monthly following a period of 24 consecutive weekly sampling events showing no exceedances of the stated discharge limitations.

Naval Weapons Industrial Reserve Plant

DER site # 1-01-001 Page 1 of 2

Additional Conditions:

(1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Steven Scharf Division of Environmental Remediation NYSDEC, 625 Broadway Albany, NY 12233-7015 Phone: (518) 402-9620

With a copy sent to:

Regional Water Engineer NYSDEC - Region 1 Building 40, SUNY Campus Stony Brook, New York 11790-2356 Phone: (631) 444-0354

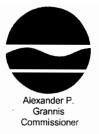
(2) Only site generated wastewater is authorized for treatment and discharge.

(3) Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

- (4) Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
- (5) This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

New York State Department of Environmental Conservation

Division of Environmental Remediation Bureau of Remedial Action A 625 Broadway, 11th Floor Albany, New York 12233-7015 Phone: (518) 402-9625 • Fax: (518) 402-9022 Website: <u>www.dec.state.ny.us</u>



July 24, 2009

Lora Fly, Project Manager Naval Facilities Engineering Command-Midlant 9742 Maryland Avenue Norfolk, VA 23511-3095

> RE: Naval Weapons Industrial Research Plant(NWJRP) Site-Bethpage, NYSDEC No. 1-30-003B. Grumman Aerospace Site, NYSDEC Site No. 1-30-003A

Dear Ms. Fly:

Tetra Tech FW, on behalf of the Department of the Navy (Navy), has submitted the enclosed New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources (DAR) Air Permit Application as a permit equivalent. This DAR Air permit equivalent is for the air stripper discharge at the GM 38 Area groundwater remediation system, Near Broadway and North Herman Avenue in Bethpage, NY. The NYSDEC Division of Environmental Remediation (DER) has reviewed the permit equivalent and, by means of this letter approves the GM 38 Area remedy air discharge for immediate operation.

The GM 38 Area remedial system utilizes the best available control technology (BACT) with activated carbon followed by potassium permanganate impregnated xeolite resin. The air discharge will be periodically monitored at start up and will be added for routine monitoring in the operation, maintenance and monitoring (OMM) plan, to be submitted shortly for Departmental review.

If you have any questions, please contact me at your earliest convenience at (518)402-9620.

Sincerely,

Steven M. Scharf, P.E.

Project Engineer Division of Environmental Remediation Bureau of Remedial Action A

Enclosure ec/w/enc:

J. Swartwout/S. Scharf/File
W. Parish, Region 1 NYSDEC
A. J. Shah, region 1 NYSDEC
S. Patselos, Tetra Tech FW
J. Cofman, Northrop Grumman]
edocs: Region 1, Nassau, Oyster Bay (T): Grumman Aerospace 130003A-OU2-OMM and NWIRP Bethpage 130003B-OU2-OMM

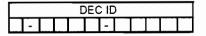


DEC ID	APPLICATION ID	OFFICE USE ONLY

Section	l - Certification		
Title \	/ Certification		
I certify under penalty of law that this document and all attachments were prep that qualified personnel properly gather and evaluate the information submitt information [required pursuant to 6 NYCRR 201-6.3(d)] I believe the informat submitting false information, including the possibility of fines and imprisonmen	ed. Based on my inquiry of the pe tion is, true, accurate and complet	erson or persons directly	responsible for gathering the
Responsible Official		Title	
Signature		Date	<u> </u>
State Fac	cility Certification		
I certify that this facility will be operated in conformance with all prov	visions of existing regulations.		
Responsible Official		Title	
Signature		Date	<u> </u>
Section II - Iden	tification Informatio	on	
Title V Facility Permit N/A New Significant Modification Administrative A Renewal Minor Modification General Permit Title Application involves construction of new facility		State Facility Permit New General Permit Title:_ construction of new er	N/A Modification nission unit(s)
	wner/Firm		
Name US Navy/NAVFAC Midlant Street Address 9742 Maryland Ave, Bldg Z-144			
City Norfolk	State VA	Country US	Zip 23511-3095
Owner Classification 🕅 Federal	□ State □ Muni □ Individual	,	Taxpayer ID
	Facility		🗅 Confidential
Name Naval Weapons Industrial Reserve Plant (N	WIRP) GM-38 Area		
Location Address Bethpage			
□ City / ⊠ Town / □ Village Oyster Bay, New York			Zip 11714
Projec	ct Description		C Continuation Sheet(s)
Air stripping of groundwater to remove VOCs			

Owner/Firm Co	Owner/Firm Contact Mailing Address										
Name (Last, First, Middle Initial) Fly, Lora			Phone No. (757) 444-0781								
Affiliation Department of the Na∨y	^{⊤itie} Remedia	IPM	Fax No.()								
Street Address 9742 Maryland Ave. Bldg Z-144											
City Norfolk	State VA	Country US	•	Zip 23511-3095							
Facility Cont	act Mailing Add	lress									
Name (Last, First, Middle Initial) Same			Phone No. ()							
Affiliation	Title		Fax No. ()								
Street Address											
City	State	Country		Zip							





Section III - Facility Information

	Classification									
🗅 Hospital	🗅 Residential	C Educational/Institutional	Commercial	🖄 Industrial	🗅 Utility					

		Affected States (Title V Only) N/A	
□ Vermont	Massachusetts Connecticut	□ Rhode Island	🗅 Pennsylvania	Tribal Land:
□ New Hampshire		□ New Jersey	🗋 Ohio	Tribal Land:

			 SIC Code	s			
9999							

Facility Description

Continuation Sheet(s

Groundwater Remediation by Air Stripping followed by Vapor-Phase GAC for emission control

Compliance Statements (Title V Only) N/A

i certify that as of the date of this application the facility is in compliance with all applicable requirements: If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at this facility that are operating in compliance with all applicable requirements complete the following:

This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those units referenced in the compliance plan portion of Section IV of this application.

For all emission units, subject to any applicable requirements that will become effective during the term of the permit, this facility will meet all such requirements on a timely basis.

Compliance certification reports will be submitted at least once a year. Each report will certify compliance status with respect to each requirement, and the method used to determine the status.

Facility Applicable Federal Requirements N/A Continuation She									nuation Sheet(s)
Title	Туре	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
	CERCLA	all su	bstantive	requirer	hents				
				_					

		🗆 Contir	nuation Sheet(s)						
Title	Туре	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause
						_			



DEC ID									
-			-						

Section III - Facility Information (continued)

			Fac	ility Complia	ance Certific	ation N/A		ontinuati	ion Sheet(s)		
				Rule (Citation						
Title	Туре	Part	Sub Part	Section	Sub Division	Paragraph	Sub Paragraph	Clause	Sub Clause		
Applicable	Federal Requirement	Capping	CA	AS No.		Co	Contaminant Name				
C State Only	Requirement										
				Monitoring	Information						
🗆 Ambient	Air Monitoring	🛛 Work P	ractice Inv	olving Specifi	ring Specific Operations						
				Desc	ription						
		_	_					_			
Work Prac			Process				Reference Test Method				
Туре	Code			Description							
		Para	ameter	Description			Manufacturer Na	ame/Mod	el No.		
	Code	<u> </u>		Description							
L	Limit			Cardi		Limi	t Units				
	Upper		ower	Code	Description						
	Averaging Method			Monitoring I			Reporting Requirements				
Code	Descript	tion	Code		Description	Co	de	Descript	ion		
	·				_						

	Facility Emissions Summary		🗆 Continu	ation Sheet(s)	
0.00.1		PTE		Actual	
CAS No.	Contaminant Name	(lbs/yr)	Range Code	(lbs/yr)	
NY075 - 00 - 5	PM-10				
NY075 - 00 - 0	PARTICULATES				
7446 - 09 - 5	SULFUR DIOXIDE				
NY210 - 00 - 0	OXIDES OF NITROGEN				
630 - 08 - 0	CARBON MONOXIDE				
7439 - 92 - 1	LEAD				
NY998 - 00 - 0	VOC	117			
NY100 - 00 - 0	НАР	110			
0079 - 01 - 6	Trichloroethylene	99			
00075 - 01 - 4	Vinyl Chloride	3.7			
00540 - 59 - 0	1,2-Dichloroethylene	7.3			



DEC ID										
-					-					

Section IV - Emission Unit Information

Emission Unit Description	Continuation Sheet(s)						
Air Stripper AS-1 for groundwater remediation, provided with activated carbon for emission control.							
The emission point is stack 00ST-1. The 2-stage VGAC is followed by a 3rd vessel containing							
a potassium permanganate zeolite media for increased VC capacity.							
a potassium permanganate zeonte media for increased vC capacity.							

	Continuation Sheet(s)			
Building	Building Name	Length (ft)	Width (ft)	Orientation
BLDG-1	Treatment Plant	75	75	0

			Emission Poir	nt	Con ⁻	Continuation Sheet(s)	
EMISSION PT.	00ST1						
Ground Elev.	Height	Height Above	Inside Diameter	Exit Temp.	Cross	Section	
(ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)	
90	40	15	36	80			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
19	8020			BLDG-1	50		
EMISSION PT.							
Ground Elev.	Height	Height Above	Inside Diameter	Exit Temp.	Cross Section		
(ft)	(ft)	Structure (ft)	(in)	(°F)	Length (in)	Width (in)	
		_	· · · · ·				
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

				Emission	Sourc	e/Control		Continuation Sheet(s		
Emission	Source	Date of Date of Date of			Control Type	Manut	Manufacturer's Name/Model			
ID	Туре	Construction Operation Removal Code Description		Operation Removal		Code Description		<u>No.</u>		
AS-1	I				048 Granular Act. Carbon Air Stri		ripping Column			
Design	Design Design Capacity Units			Waste Feed		Waste Type				
Capacity	Code		Description		Code Description		Code	Description		
Emission	Source	e Date of Date of Date of			Control Type	Manu	Manufacturer's Name/Model			
ID	Туре	Construction	Operation	Removal	Code	Description		No.		
Design		Design Ca	pacity Units			Waste Feed		Waste Type		
Capacity	Code	e Description				Code Description		Code Description		



DEC ID									
-			-						

		Process Ir	nformation		Continuation Sheet(s)						
EMISSION UNIT 0 - 00	E U 1				PROCESS PR 1						
		Descr	ription								
The remedial system	is air strippir	ng, using a pa	acked column	at a ground	water flow rate of						
1,100 gpm (plus 100	gpm recycle	, for a total o	f 1,200 gpm)	Vapor phase	e treatment includes						
the use of 3 vessels,	a 2-stage GA	AC unit, follow	ved by a 3rd y	vessel <u>contai</u>	ning a potassium						
permanganate impre	gnated zeolit	e for increase	ed VC capacit	ty. Prior to er	ntering the vapor-phase						
GAC adsorption system	n, the humidity	of the air strip	oper exhaust is	s reduced to ap	proximately						
	50 percent or less to optimize the efficiency of the vapor-phase GAC.										
Air Stripper AS-1: Existing. Type: Vertical, Cylindrical Construction: Aluminum											
Packing: 25-foot J	Packing: 25-foot Jaeger Tripack. Dimensions: 10.0 ft. Dia x 47 ft. H										
Source Classification	Total T	hruput		Thruput Qu	antity Units						
Code (SCC)	Quantity/Hr	Quantity/Yr	Code		Description						
Confidential Operating Schedule Building					Floor/Location						
 Operating at Maximum Ca Activity with Insignificant 		Hrs/Day	Days/Yr								
		<u>24</u>	365 Control Identifier	BLDG-1	Main						
AS-1		nission Source/C	control laentifier	(s)							
A3-1											
EMISSION UNIT					PROCESS						
		Docor	intion								
		Descr	Iption								
				_							
					×						
	<u> </u>										
	Total T			 Thruput Qu	antity Inita						
Source Classification Code (SCC)	Total T Quantity/Hr	Quantity/Yr	Code		Description						
	Quantity/H		Code								
Confidential		Operating	Schedule								
 Operating at Maximum Ca 	apacity	Hrs/Day	Days/Yr	Building	Floor/Location						
Activity with Insignificant I	Emissions										
	Er	nission Source/C	Control Identifier	(s)							



	DEC ID)	
-	-		

	_				10 - 1								- the state	
Emission	Emis	sion	rocess	Emissior	L	Emi	ssior	n Unit App	licable F	ederal Requ	urement		ontinuat	ion Sheet(s)
Unit	Poi	nt		Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
														
										1				
	-	_							_					
-														
												_		
Emission	Emiss	sion	rocess	Emissior		Emi	ssior	Unit Sta	te Only R	equirement	5		ontinuat	ion Sheet(s)
Unit	Poi	nt	TOCESS	Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
-														
-														
-														
				E	miss	sion U	Init	Compli	ance C	ertificatio	n	Ū Co	ontinuat	ion Sheet(s)
							R	ule Cita	ation					
Title	Тур	be			Sub Par	t S	ectior) Sub	Division	Paragraph	Sub	Paragraph	Clause	Sub Clause
6	NYC			12										
X App	licable F						te Or	ily Requir	ement	🗆 Cappir	ng			
Emission	Unit	missio Point	Pro	cess	Source		_	CAS No.				ontaminant Na	me	
0-00EL	J1 (00ST	T1 PF	R1 /	AS-1		0079		- 6		loroeth	ylene		
						Mo	nito	pring Int	ormatio	on				
🛛 🖾 İnte	ntinuous rmittent bient Air	Emis	sion Tes				ΩW	ork Practi	ce Involvi	s or Control ng Specific ntenance Pr	Operatio	Parameters ns s	as Surro	ogate
)escrip	tion					
Monthly o	arab sam	oles a	nalvzed	for VOCs	from t	he vap	-	<u> </u>		em influent.	effluent	and two inte	ermediat	e locations.
inoniny g	, us surry						51 p.1							e lo cutionisi
										_				
Work Prac	ctice				Proce	ss Mat	erial				D	eference Te	et Math	od
Туре		Cod	e			De	scrip	tion			ĸ		ระเพษเกต	ju ju
	-			Para	meter						Manu	Ifacturer Na	me/Mod	el No.
	Code						scrip	tion						
23				Conce	entrat	ion		-				_		
		l	Limit				~			Lir	nit Units			
	Upper			Lo	wer		Co	-				ription		
	3,125							55		rams per				
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0.03 7.3 02									_		0	2		



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	Emiss	ion Unit Emissions S	Summary	Continuation Sheet(s)
CAS No.		Contamin	ant Name	
00107-06-2	1,2-Dichloroethane			
	PTE Em		Ac	tual
ERP (lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
13.4	Below Reporting Th	reshold BRT		
CAS No.		Contamin	ant Name	
00108 - 88 - 3	Toluene			
ERP (lbs/yr)	PTE Em	issions	Ac	tual
ERP (IDS/yr)	(Ibs/hr)	(lbs/yr)	(Ibs/hr)	(lbs/yr)
72.7	BRT	BRT		
CAS No.		Contamin	ant Name	
01330-20-7	Xylene			
ERP (lbs/yr)	PTE Em	issions	Act	tual
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
77.1	BRT	BRT		
CAS No.		Contamin	ant Name	
	1,1,2-Trichloroethan	e		
ERP (lbs/yr)	PTEEm	issions	Act	tual
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
	BRT	BRT		

					Сс	mplian	ce Plar	1			ontinuati	on Sheet(s)
For any emis	ssion units	s which ar	e <u>notin c</u>	omplian	<u>ce</u> at th	e time of p	permit ap	plication, the	applica	nt shall comp	lete the	following
Consent Ord	ler		Certifie	ed progre	ess rep	orts are to	be subm	itted every 6	months	beginning_	1	/
Emission		Emission					Applicabl	e Federal Requ	irement			
Unit	Process	Source	Title	Туре	Part	Sub Part	Section	Sub Division	Parag.	Sub Parag.	Clause	Sub Clause
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		Remedi	al Measu	are / Inter	mediat	e Milestor	nes			R/i	Sc	Date heduled
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	Req	uest for Emission Reduction Cred	lits	Continuation Sheet(s)
EMISSION UNIT -				
		Emission Reduction Description		
	Con	taminant Emission Reduction Da		
		·	Red	uction Method
Baseline Period/	/	to//		Method
,	1			(lbs/yr)
CAS No.		Contaminant Name	Netting	Offset
<u> </u>				
	F	Facility to Use Future Reduction		
Name			APPLICATION	
Location Address				
City / Town / Village		State	Zip	
		se of Emission Reduction Credits		Continuation Sheet(s)
	<u>, , , , , , , , , , , , , , , , , , , </u>			
EMISSION UNIT -				
	<u> </u>	Branged Braiget Depaription		
		Proposed Project Description		
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		Proposed Project Description		
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			a	
	Cor	ntaminant Emissions Increase Dat		
CAS No.	Cor			2 (lbs/yr)
CAS No.	Cor	ntaminant Emissions Increase Dat Contaminant Name		(lbs/yr)
		ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance	PEP	
All facilities under the ownership of including any compliance certification	of this "ownership/	ntaminant Emissions Increase Dat Contaminant Name	PEP	d state regulations
All facilities under the ownership of	of this "ownership/ ation requirements	ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance firm" are operating <u>in compliance</u> with all ap s under Section 114(a)(3) of the Clean Air Ad	PEP plicable requirements and ct Amendments of 1990, c	d state regulations
All facilities under the ownership of including any compliance certification	of this "ownership/ ation requirements	ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance firm" are operating in compliance with all ap	PEP plicable requirements and ct Amendments of 1990, c	d state regulations
 All facilities under the ownership of including any compliance certifica schedule of a consent order. Name 	of this "ownership/ ation requirements	ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance firm" are operating <u>in compliance</u> with all ap s under Section 114(a)(3) of the Clean Air Ad	PEP plicable requirements and ct Amendments of 1990, c acility	d state regulations
 All facilities under the ownership or including any compliance certifica schedule of a consent order. 	of this "ownership/ ation requirements	ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance firm" are operating in compliance with all ap s under Section 114(a)(3) of the Clean Air Ac of Emission Reduction Credit - Fa	PEP	d state regulations
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All facilities under the ownership of including any compliance certifical schedule of a consent order.	of this "ownership/ ation requirements Source	ntaminant Emissions Increase Dat Contaminant Name Statement of Compliance firm" are operating <u>in compliance</u> with all ap s under Section 114(a)(3) of the Clean Air Ar of Emission Reduction Credit - Fa	PEP	d state regulations or are meeting the



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Supporting Documentation			
P.E. Certification (form attached)			
List of Exempt Activities (form attached)			
🔯 Plot Plan			
Methods Used to Determine Compliance (form attached)			
Calculations			
□ Air Quality Model (/)			
Confidentiality Justification			
Ambient Air Monitoring Plan (/)			
Stack Test Protocols/Reports (/)			
Continuous Emissions Monitoring Plans/QA/QC (/)			
□ MACT Demonstration (/)			
Operational Flexibility: Description of Alternative Operating Scenarios and Protoco	ls		
Title IV: Application/Registration			
ERC Quantification (form attached)			
Use of ERC(s) (form attached)			
Baseline Period Demonstration			
Analysis of Contemporaneous Emission Increase/Decrease			
□ LAER Demonstration (/)			
□ BACT Demonstration (/)			
Other Document(s):	(/	/)
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Emission Estimate **ATTACHMENT 1**

> · Feed Water Flow 1,100 gpm: max or normal 1,200 gpm: max or normal 273 m³/hr 13,592 m³/hr 50 250 m³/hr 8,000 cfm Air Flow Water Flow Including Recycle A/W vol ratio

88 4.8 ug/L x 1000 L/m³ x 250 m³ water/13,623 m³ air = EXAMPLE EMISSION CALC: Vinyl Chloride

ug/m³

		Toxicity			GW Conc.	onc.'	Effluent Conc	Conc ¹			Unc	ontrolled	Uncontrolled Stripper Exhaust	xhaust		
	Number	H/M/L ²	VOC ³	HAP⁴	wax ua/L	Avg ua/L	Max ud/L	Avg ua/L	Max lb/dav	Avg Ib/dav	Max b/hr	Avg lb/hr	Max gm/sec	am/sec	Max ua/m ³	Avg ua/m ³
1,1,1-Trichloroethane (Methyl Chloroform) 00071-55-6	0071-55-6		٥N	Yes	3	3.0	5	5	0.04	0.04	0.00	0.00	2.08E-04	2.08E-04	55	55
ğ	00079-00-5	Σ	Yes	Yes	3.5	0.3			0.05	0.00	0.00	0.00	2.43E-04	2.08E-05	64	9
б	00075-34-3		Yes	Yes	4	0.7			0.05	0.01	0.00	0.00	2.77E-04	4.85E-05	74	13
ŏ	00107-06-2	Σ	Yes	Yes	с С	1.0	0.3	0.1	0.04	0.01	0.00	0.00	1.87E-04	6.24E-05	55	18
1,1-Dichloroethylene (Vinylidene Chloride) 00075-35-4	0075-35-4	Σ	Yes	Yes	6	1.6			0.12	0.02	0.00	0.00	6.24E-04	1.11E-04	165	29
ŏ	00540-59-0	Σ	Yes	٥N	1,100	31.5	1.3	0.0	14.51	0.42	0.60	0.02	7.62E-02	2.18E-03	20,219	579
ŏ	00071-43-2	т	Yes	Yes	4	0.1			0.05	0.00	0.00	0.00	2.77E-04	6.94E-06	74	2
ŏ	00056-23-5	т	Yes	Yes	4	0.1			0.05	0.00	00.00	0.00	2.77E-04	6.94E-06	74	2
Chlorobenzene (Monochlorobenzene) 00	00108-90-7	Σ	Yes	Yes	,	0.1			0.01	0.00	0.00	0.00	6.94E-05	6.94E-06	18	2
б	0067-66-3	Σ	Yes	Yes	2	0.8			0.03	0.01	0.00	0.00	1.39E-04	5.55E-05	37	15
Ō	01634-04-4	Σ	Yes	Yes	2	0.1	,		0.03	0.00	0.00	0.00	1.39E-04	6.94E-06	37	2
ð	00127-18-4	Σ	Yes	Yes	006	33.8	0.9	0.0	11.88	0.45	0.49	0.02	6.24E-02	2.34E-03	16,543	621
ŏ	00108-88-3		Yes	Yes .	15	0.7			0.20	0.01	0.01	0.00	1.04E-03	4.85E-05	276	13
ŏ	00079-01-6	Σ	Yes	Yes	3,400	411.5	4.5	0.5	44.86	5.43	1.87	0.23	2.35E-01	2.85E-02	62,494	7,564
ŏ	00075-01-4	I	Yes	Yes	300	4.8	0.0	0.0	3.96	0.06	0.17	0.00	2.08E-02	3.33E-04	5,514	88
0	01330-20-7	Σ	Yes	Yes	16	0.2			0.21	0.00	0.01	0.00	1.11E-03	1.39E-05	294	4
					5,764	487.3	7.0	0.6	76.05	6.43	3.17	0.27				
					4,667	458.8	5.7	0.6	61.57	6.05	2.57	0.25				

Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
 Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Toxics Section, September 10, 2007.
 Source: 6 NYCRR Part 200 1(cg)
 Source: 6 NYCRR Part 200.1(ag)

2,347 lb/yr 2,209 lb/yr

Total Uncontrolled VOC Total Uncontrolled HAP

Emission Estimate **ATTACHMENT 1**

250 m³/hr 1,200 gpm: max or normal 273 m³/hr Feed Water Flow 1,100 gpm: max or normal Water Flow Including Recycle

Air Flow 8,000 cfm 13,592 m^{3/h}r V vol ratio 50

A/W vol ratio

Controlled Stripper Exhat

	CAS	Toxicity:			Control by	Max	Avg	Max	Avg
Name	Number	H/M/L ²	VOC ³ HAP ⁴	HAP⁴	GAC	lb/day	lb/day	gm/sec	gm/sec
1,1,1-Trichloroethane (Methyl Chloroform) 00071-55-6	00071-55-6		٥N	Yes	95%	0.00	0.00	1.04E-05	1.04E-05
1,1,2-Trichloroethane	00079-00-5	Σ	Yes	Yes	95%	0.00	00.0	1.21E-05	1.04E-06
1,1-Dichloroethane	00075-34-3		Yes	Yes	95%	0.00	00.00	1.39E-05	2.43E-06
1,2-Dichloroethane	00107-06-2	Σ	Yes	Yes	95%	0.00	0.00	9.36E-06	3.12E-06
1,1-Dichloroethylene (Vinylidene Chloride)	00075-35-4	Σ	Yes	Yes	95%	0.01	0.00	3.12E-05	5.55E-06
1,2-Dichloroethylene	00540-59-0	Σ	Yes	٥N	95%	0.73	0.02	3.81E-03	1.09E-04
Benzene	00071-43-2	Т	Yes	Yes	95%	0.00	00.00	1.39E-05	3.47E-07
Carbon Tetrachloride	00056-23-5	I	Yes	Yes	95%	0.00	0.00	1.39E-05	3.47E-07
Chlorobenzene (Monochlorobenzene)	00108-90-7	Σ	Yes	Yes	95%	0.00	0.00	3.47E-06	3.47E-07
Chloroform	00067-66-3	Σ	Yes	Yes	95%	0.00	0.00	6.94E-06	2.77E-06
Methyl Tert Butyl Ether	01634-04-4	Σ	Yes	Yes	95%	0.00	00.00	6.94E-06	3.47E-07
Tetrachloroethylene	00127-18-4	Σ	Yes	Yes	95%	0.59	0.02	3.12E-03	1.17E-04
Toluene	00108-88-3		Yes	Yes	95%	0.01	0.00	5.20E-05	2.43E-06
Trichloroethylene	00079-01-6	Σ	Yes	Yes	95%	2.24	0.27	1.18E-02	1.43E-03
Vinyl chloride	00075-01-4	I	Yes	Yes	95%	0.20	00.00	1.04E-03	1.66E-05
Xylenes	01330-20-7	Σ	Yes	Yes	95%	0.01	0.00	5.55E-05	6.94E-07
Total VOCs						3.80	0.32		
Total HAPs						3.08	0.30		
					Total Controlled VOC	olled VOC	117 lb/y	lb/yr	
					Total Controlled HAP	olied HAP	110	110 lb/yr	

Source: "GM-38 Groundwater Remedy Analysis Report", February 2003
 Source: DAR-1 AGC/SGC Tables, NYSDEC Division of Air Resources, Air Tox
 Source: 6 NYCRR Part 200.1(cg)
 Source: 6 NYCRR Part 200.1(ag)

ATTACHMENT 2 AIR SCREENING ANALYSIS: Annual

Predicted Annual Impact Maximum Percent of AGC Uncontrolled Controlled Uncontrolled Controlled 0.0% 0.3% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.4% 0.0% 9.3% 0.5%0.0% Pct 185.0% (ng/m³) ("m/gn) 0.0% 5.3% 0.1% 0.2% 0.0% 4.2% 0.0% 7.6% 0.0% 9.8% 0.0% 0.3% 0.0% 0.3% 0.0% Pct 32.456 405.7 0.0000 0.0003 0.0001 0.0001 0.0002 0.0035 0.0000 0.0038 0.0463 0.0005 (m/gn)) 0.0000 0.0000 0.0000 0.0001 0.0001 0.0000 1-Hour Impact Annual Impact 0.0020 0.0068 0.0036 0.0002 0.0007 0.0016 0.0709 0.0002 0.0002 0.0018 0.0761 0.0016 0.9252 0.0108 0.0002 (mg/m²) 0.0005 Uncontrolled Controlled 1.04E-05 2.43E-06 5.55E-06 2.77E-06 1.04E-06 3.12E-06 1.09E-04 3.47E-07 1.17E-04 2.43E-06 I.43E-03 1.66E-05 3.47E-07 3.47E-07 3.47E-07 6.94E-07 **Estimated Emissions** (s/s) ANNUAL IMPACTS COMPARED TO ANNUAL GUIDELINE CONCENTRATIONS (AGCs) 3.33E-04 2.08E-04 2.08E-05 4.85E-05 6.24E-05 1.11E-04 2.18E-03 6.94E-06 6.94E-06 5.55E-05 6.94E-06 2.34E-03 4.85E-05 6.94E-06 2.85E-02 .39E-05 (s/s) Guideline 1000.00 NYSDEC 3000.00 (ug/m³) 70.00 110.00 5000.00 100.00 1.40 0.04 AGC 0.63 0.13 0.07 0.04 1.00 0.500.11 CAS Number 00071-55-6 00079-00-5 00075-34-3 00075-35-4 00540-59-0 00056-23-5 00067-66-3 00108-88-3 00079-01-6 00107-06-2 00071-43-2 00108-90-7 01634-04-4 00075-01-4 00127-18-4 01330-20-7 ,1-Dichloroethylene (Vinylidene Chloride) 1,1,1-Trichloroethane (Methyl Chloroform) **BETHPAGE SCREENING ANALYSIS** Chlorobenzene (Monochlorobenzene) Pollutant Methyl tert-Butyl Ether Carbon Tetrachloride 1,1,2-Trichloroethane I,2-Dichloroethylene Tetrachloroethylene 1-Dichloroethane ,2-Dichloroethane Trichloroethylene Vinyl Chloride Chloroform Benzene Toluene Xylenes ATTACHMENT 2 AIR SCREENING ANALYSIS: Short term

Maximum Percent of SGC Uncontrolled Controlled (ug/m^3) 0.0% 0.0% (,m/bn) 0.0% 0.1% 0.0% 0.0% 0.0% 0.0% 0.0% Pct 405.7 32.456 0.0% 0.0% 0.0% 2.5% 0.0% 0.7% 0.0% 0.0% 0.0% Pct Uncontrolled Controlled Annual Impact 1-Hour Impact 0.013 1.546 **Predicted Short-term** (ng/m³) 0.005 0.006 0.004 0.006 0.006 0.003 0.003 1.265 0.004 0.001 0.021 0.422 0.023 Impact 30.915 25.298 (ng/m³) 0.113 0.076 0.113 0.113 0.056 0.084 0.098 0.253 0.028 0.056 95.541 0.422 8.441 0.450 Controlled SHORT-TERM IMPACTS COMPARED TO SHORT-TERM GUIDELINE CONCENTRATIONS (SGCs) .04E-05 1.21E-05 1.39E-05 1.39E-05 1.39E-05 3.47E-06 6.94E-06 3.12E-03 5.20E-05 9.36E-06 3.12E-05 3.81E-03 6.94E-06 .18E-02 1.04E-03 5.55E-05 (s/s) Estimated Emissions Incontrolled 6.24E-02 2.43E-04 7.62E-02 6.94E-05 1.04E-03 2.08E-04 2.77E-04 1.87E-04 6.24E-04 2.77E-04 1.39E-04 2.08E-02 2.77E-04 .39E-04 2.35E-01 1.11E-03 (s/s) 37000.00 14000.00 180000.00 Guideline NYSDEC 1300.00 1900.00 1000.00 4300.00 68000.00 150.00 SGC (mg/m³) CAS Number 00071-55-6 00079-00-5 00075-34-3 00540-59-0 00107-06-2 00075-35-4 00071-43-2 00056-23-5 00067-66-3 01634-04-4 00127-18-4 00108-88-3 00079-01-6 00075-01-4 01330-20-7 00108-90-7 ,1-Dichloroethylene (Vinylidene Chloride) ,1,1-Trichloroethane (Methyl Chloroform) **BETHPAGE SCREENING ANALYSIS** Chlorobenzene (Monochlorobenzene) Pollutant 1,1,2-Trichloroethane Methyl tert-Butyl Ether Carbon Tetrachloride 1,2-Dichloroethylene Tetrachloroethylene ,1-Dichloroethane .2-Dichloroethane Trichloroethylene Vinył Chloride Chloroform Benzene **Foluene** Xylenes ATTACHMENT 2 AIR SCREENING ANALYSIS: Short term

Maximum Percent of SGC Uncontrolled Controlled Uncontrolled Controlled (ng/m³) 0.0% 0.0% (,m/gn) 0.0% 0.0% 0.0% 0.1% 0.0% 0.0% 0.0% Pct 405.7 32.456 0.0% 0.0% 0.0% 2.5% 0.0% 0.7% 0.0% 0.0% 0.0% Pct 1-Hour Impact Annual Impact 0.005 0.006 0.013 1.546 0.006 0.006 0.003 0.003 1.265 0.004 0.004 0.001 0.422 0.023 (mg/m) 0.021 Predicted Short-term 4.777 mpact 30.915 25.298 0.113 0.113 0.056 0.056 95.541 (ng/m³) 0.084 0.098 0.113 0.076 0.253 0.028 0.422 0.450 8.441 SHORT-TERM IMPACTS COMPARED TO SHORT-TERM GUIDELINE CONCENTRATIONS (SGCs) Controlled 3.12E-05 5.20E-05 1.04E-03 .04E-05 1.39E-05 9.36E-06 3.81E-03 1.39E-05 1.39E-05 3.47E-06 6.94E-06 6.94E-06 3.12E-03 1.18E-02 5.55E-05 1.21E-05 (g/s) Estimated Emissions Uncontrolled 6.24E-02 2.43E-04 2.77E-04 6.94E-05 1.39E-04 1.04E-03 2.08E-02 1.87E-04 6.24E-04 7.62E-02 2.77E-04 2.77E-04 1.39E-04 1.11E-03 2.08E-04 2.35E-01 (g/s) 80000.00 Guideline 37000.00 14000.00 68000.00 1900.00 NYSDEC 1000.00 4300.00 300.00 150.00 SGC (mg/m³) **CAS Number** 00071-55-6 00079-01-6 00079-00-5 00075-34-3 00107-06-2 00075-35-4 00540-59-0 00071-43-2 00056-23-5 00067-66-3 01634-04-4 00127-18-4 00108-88-3 00075-01-4 00108-90-7 01330-20-7 I,1-Dichloroethylene (Vinylidene Chloride) ,1,1-Trichloroethane (Methyl Chloroform) **BETHPAGE SCREENING ANALYSIS** Chlorobenzene (Monochlorobenzene) Pollutant Methyl tert-Butyl Ether 1,1,2-Trichloroethane 1,2-Dichloroethylene Carbon Tetrachloride Tetrachloroethylene 1.1-Dichloroethane I.2-Dichloroethane Trichloroethylene Vinyl Chloride Chloroform Benzene Toluene Xylenes

03/16/09 11:26:15

*** SCREEN3 MODEL RUN *** *** VERSION DATED 96043 *** Bethpage GM-38 Air Stripper Uncontrolled SIMPLE TERRAIN INPUTS: SOURCE TYPE = POINT EMISSION RATE (G/S) = 1.00000 STACK HEIGHT (M) = 12.2000 STK INSIDE DIAM (M) = .9100 5.7700 STK EXIT VELOCITY (M/S) = STK GAS EXIT TEMP (K) = 294.0000 293.0000 AMBIENT AIR TEMP (K) = RECEPTOR HEIGHT (M) = .0000 URBAN/RURAL OPTION = URBAN BUILDING HEIGHT (M) = 7.6000 22.9000 MIN HORIZ BLDG DIM (M) = MAX HORIZ BLDG DIM (M) = 22.9000 THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED. THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED. BUOY. FLUX = .040 M**4/S**3; MOM. FLUX = 6.869 M**4/S**2. *** FULL METEOROLOGY *** *** SCREEN AUTOMATED DISTANCES *** *** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES *** DIST CONC U10M USTK MIX HT PLUME SIGMA SIGMA (UG/M**3) (M) STAB (M/S) (M/S) (M) HT (M) Y (M) Z (M) DWASH ----- ---- ---------------_ _ _ _ _ _ -----10. .1323E-07 1 1.5 1.5 480.0 22.39 3.65 2.99 NO 100. 278.3 3 1.0 1.0 320.0 27.34 22.00 20.46 NO 6 1.0 1.1 10000.0 20.81 21.31 14.25 NO 200. 339.9 MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M: 201. 339.9 6 1.0 1.1 10000.0 20.81 21.51 14.37 NO . ****** *** SCREEN AUTOMATED DISTANCES *** *** TERRAIN HEIGHT OF 2. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES *** DIST U10M USTK MIX HT PLUME SIGMA SIGMA CONC (M) (UG/M**3) STAB (M/S) (M/S) (M) HT (M) Y (M) Z (M) DWASH ------ - - - - - -_____ - - - - -_____ _ _ _ _ 210. 405.7 300. 307.9 1.01.110000.018.8122.3214.86NO1.01.110000.018.8131.2820.08NO 6 6

400. 219.2 6 1.0 1.1 10000.0 18.81 40.93 25.42 NO

 500.
 162.3
 6
 1.0
 1.1
 10000.0
 18.81
 50.27
 30.34
 NO

 600.
 125.2
 6
 1.0
 1.1
 10000.0
 18.81
 50.27
 30.34
 NO
 1.0 1.1 10000.0 18.81 59.32 34.91 600. 125.2 6 NO MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 210. M: 210. 405.7 6 1.0 1.1 10000.0 18.81 22.32 14.86 NO ****** *** SCREEN AUTOMATED DISTANCES *** ****** *** TERRAIN HEIGHT OF 9. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES *** U10M USTK MIX HT PLUME SIGMA CONC DIST SIGMA (M) HT (M) Y (M) Z (M) DWASH (UG/M**3) STAB (M/S) (M/S) (M) ----_____ _ _ _ _ _ _ 1.0 1.1 10000.0 11.81 60.21 35.35 610. 133.2 6 NO 1.0 1.1 10000.0 11.81 68.10 39.19 NO 700. 107.4 6 800. 87.22 6 1.0 1.1 10000.0 11.81 76.63 43.22 NO 900. 72.75 1.0 1.1 10000.0 11.81 84.93 47.03 NO 6 MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 610. M: 1.0 1.1 10000.0 11.81 610. 133.2 6 60.21 35.35 NO ******************************** *** SCREEN AUTOMATED DISTANCES *** ****** *** TERRAIN HEIGHT OF 11. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES *** DIST CONC U10M USTK MIX HT PLUME SIGMA SIGMA (M) (UG/M**3) STAB (M/S) (M/S) (M) HT (M) Y (M) Z (M) DWASH -----_ _ _ _ _ _ _ _ _ _ _ _ _ ----____ - - - - - -_ _ r _ _ _ _ _ _ _ _ _ _ _ - - - - -1000. 62.47 6 1.0 1.1 10000.0 9.81 93.00 50.66 NO 1.0 1.1 10000.0 9.81 100.86 54.11 1100. 54.05 6 NO 1200. 47.42 6 1.0 1.1 10000.0 9.81 108.53 57.42 NO 1300. 42.10 6 1.0 1.1 10000.0 9.81 116.01 60.60 NO MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1000. M: 1000. 62.47 6 1.0 1.1 10000.0 9.81 93.00 50.66 NO DWASH= MEANS NO CALC MADE (CONC = 0.0)DWASH=NO MEANS NO BUILDING DOWNWASH USED DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB * SUMMARY OF TERRAIN HEIGHTS ENTERED FOR * SIMPLE ELEVATED TERRAIN PROCEDURE * ******* TERRAIN DISTANCE RANGE (M) HT (M) MINIMUM MAXIMUM ----_ _ _ _ _ _ _ _ _ -----10. 200. Ο. 210. 600. 2. 920. 610. 9.

11.	1000.	1300.	

*** REGULATORY (Default) *** PERFORMING CAVITY CALCULATIONS WITH ORIGINAL SCREEN CAVITY MODEL (BRODE, 1988) ***

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*** CAVITY CALCULAT	ION	- 1 ***	*** CAVITY CALCULATION - 2 ***
CONC (UG/M**3)	=	.0000	CONC (UG/M**3) = .0000
CRIT WS @10M (M/S)	=	99.99	CRIT WS @10M (M/S) = 99.99
CRIT WS @ HS (M/S)	=	99.99	CRIT WS @ HS (M/S) = 99.99
DILUTION WS (M/S)	=	99.99	DILUTION WS $(M/S) = 99.99$
CAVITY HT (M)	=	7.84	CAVITY HT $(M) = 7.84$
CAVITY LENGTH (M)	=	22.86	CAVITY LENGTH (M) = 22.86
ALONGWIND DIM (M)	=	22.90	

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