Permit Number 4850

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
TK401	Tank 401	VOC	4.69	1.50
TK402	Tank 402	VOC	4.69	1.50
TK403	Tank 403	VOC	4.69	1.50
TK404	Tank 404	VOC	4.69	1.50
TK405	Tank 405	VOC	4.69	1.50
TK406	Tank 406	VOC	4.69	1.50
TK417	Tank 417	VOC	4.69	1.50
TK501	Tank 501	VOC	4.69	1.50
TK502	Tank 502	VOC	4.69	1.50
TK503	Tank 503	VOC	4.69	1.50
TK504	Tank 504	VOC	4.69	1.50
TK505	Tank 505	VOC	4.69	1.50
TK506	Tank 506	VOC	4.69	1.50
TK507	Tank 507	VOC	4.69	1.50
TK508	Tank 508	VOC	4.69	1.50
TK509	Tank 509	VOC	4.69	1.50
TK510	Tank 510	VOC	4.69	1.50
TK511	Tank 511	VOC	4.69	1.50
TK512	Tank 512	VOC	4.69	1.50
TK513	Tank 513	VOC	4.69	1.50

TK514	Tank 514	VOC	4.69	1.50
TK515	Tank 515	VOC	4.69	1.50
TK516	Tank 516	VOC	4.69	1.50
TK517	Tank 517	VOC	4.69	1.50
TK518	Tank 518	VOC	4.69	1.50
TK519	Tank 519	VOC	4.69	1.50
TANKCAP	Storage Tank Emissions Cap (6)	VOC	122.07	18.19
TK-217	Tank 217	VOC	1.06	1.34
		Benzene (13)	0.03	0.06
TK-218	Tank 218	VOC	1.06	1.74
TK-219	Tank 219	VOC	1.06	1.74
TK-221	Tank 221	VOC	1.06	1.69
TK-222	Tank 222	VOC	1.06	1.74
TK-223	Tank 223	VOC	1.06	1.74
TK-250	Tank 250	VOC	1.37	2.01
TK-251	Tank 251	VOC	1.42	2.21
TK-252	Tank 252	VOC	1.42	2.21
TK-253	Tank 253	VOC	1.21	1.31
TK-254	Tank 254	VOC	1.22	1.35
TK-255	Tank 255	VOC	1.41	2.25
TK-256	Tank 256	VOC	1.13	0.87
TK-257	Tank 257	VOC	1.13	0.87
TK-258	Tank 258	VOC	1.36	1.95

TK-259	Tank 259	VOC	1.41	2.25
TK-296	Tank 296	VOC	6.68	0.09
TK-301	Tank 301	VOC	0.49	1.39
TK-308	Tank 308	VOC	3.98	6.56
TK-311	Tank 311	VOC	40.30	5.71
TK-312	Tank 312	VOC	50.38	5.71
TK-316	Tank 316	VOC	0.96	1.50
		Benzene (13)	0.03	0.05
TK-324	Tank 324	VOC	3.98	11.58
TK-330	Tank 330	VOC	5.61	6.54
TK-341	Tank 341	VOC	12.22	0.49
TK-342	Tank 342	VOC	1.12	1.35
TK-343	Tank 343	VOC	1.12	1.35
TK-344	Tank 344	VOC	1.31	1.31
TK-345	Tank 345	VOC	1.80	2.70
TK-362	Tank 362	VOC	3.03	8.08
TK-363	Tank 363	VOC	27.30	0.79
TK-367	Tank 367	VOC	5.03	9.59
TK-368	Tank 368	VOC	5.03	9.59
TK-369	Tank 369	VOC	5.03	9.59
TK-370	Tank 370	VOC	1.58	2.90
TK-371	Tank 371	VOC	5.08	12.20
TK-372	Tank 372	VOC	2.60	9.65
TK-373	Tank373	VOC	2.62	9.43

TK-374	Tank 374	VOC	2.66	9.31
TK-375	Tank 375	VOC	5.08	12.19
TK-382	Tank 382	VOC	1.17	3.87
TK-384	Tank 384	VOC	1.17	5.11
TK-386	Tank 386	VOC	4.69	4.59
		H ₂ S	<0.01	<0.01
TK-387	Tank 387	VOC	5.22	8.19
		H ₂ S	<0.01	<0.01
TK-388	Tank 388	VOC	1.86	4.10
TK-389	Tank 389	VOC	5.21	8.18
		H ₂ S	<0.01	<0.01
TK-390	Tank 390	VOC	1.18	3.94
TK-391	Tank 391	VOC	1.52	3.49
TK-393	Tank 393	VOC	2.76	8.95
TK-407	Tank 407	VOC	4.05	3.26
TK-408	Tank 408	VOC	4.05	3.26
TK-409	Tank 409	VOC	4.05	3.26
TK-410	Tank 410	VOC	4.05	3.26
TK-411	Tank 411	VOC	4.05	3.26
TK-412	Tank 412	VOC	4.05	3.26
TK-413	Tank 413	VOC	4.05	3.26
TK-414	Tank 414	VOC	4.05	3.26
TK-415	Tank 415	VOC	4.05	3.26
TK-416	Tank 416	VOC	4.05	3.26

TKLAND	Tank Roof Landings	VOC (11)	1990.63	161.52
		Benzene (11) (13)		5.65
MARINECAP	Total loading fugitives - Ship	VOC	290.42	92.77
	Docks 1 and 2 and Barge Docks 2 and 3	Benzene (13)	9.15	2.69
SD1	Ship Dock No.1	VOC	261.24	92.77
		Benzene (13)	9.14	2.69
SD2	Ship Dock No. 2	VOC	261.24	92.77
		Benzene (13)	9.14	2.69
BD2	Barge Dock 2	VOC	61.23	92.77
		Benzene (13)	2.15	2.69
BD3	Barge Dock 3	VOC	30.62	92.77
		Benzene (13)	1.08	2.69
TKVCU	Controlled Tank Roof Landing	VOC	63.19	4.37
	VCU (9)	Benzene (13)	2.21	0.15
		NO _x	22.59	6.43
		СО	41.49	11.80
		РМ	1.13	0.29
		PM ₁₀	1.13	0.29
		PM _{2.5}	1.13	0.29
		H ₂ S	0.13	<0.01
		SO ₂	11.90	0.73
PORT_VCU	Controlled Tank Roof Landing VCU	VOC	22.00	6.02
	(10)	Benzene (13)	0.77	0.21

NO _x	2.00	1.23
СО	12.13	8.57
PM	0.33	0.32
PM ₁₀	0.33	0.32
PM _{2.5}	0.33	0.32
H ₂ S	0.04	0.03
SO ₂	4.22	2.58

PORT-VCU	TK-373 roof landing emissions (12)	VOC	22.00	2.09
	()	Benzene (13)	0.77	0.07
		NO _x	2.00	0.19
		СО	12.12	1.38
		PM	0.33	0.05
		PM ₁₀	0.33	0.05
		PM _{2.5}	0.33	0.05
		SO ₂	3.23	0.26
		H ₂ S	0.03	<0.01
PORT-VCU	TK-372 roof landing emissions (12)	VOC	22.00	2.05
		Benzene (13)	0.77	0.07
		NO _x	2.0	0.18
		СО	12.12	1.36
		PM	0.33	0.05
		PM ₁₀	0.33	0.05
		PM _{2.5}	0.33	0.05
		SO ₂	3.23	0.26
		H₂S	0.03	<0.01
VCU-371	TK-371 roof landing emissions (14)	VOC	22.20	2.10
	` ,	Benzene (13)	0.77	0.07
		NO_x	2.00	0.19

		со	12.12	1.40
		РМ	0.33	0.05
		PM ₁₀	0.33	0.05
		PM _{2.5}	0.33	0.05
		SO ₂	3.23	0.27
		H₂S	0.03	<0.01
VCU-367	TK-367 roof landing	voc	22.20	1.23
		Benzene (13)	0.77	0.04
		NO _x	2.00	0.11
		со	12.12	0.91
		РМ	0.33	0.04
		PM ₁₀	0.33	0.04
		PM _{2.5}	0.33	0.04
		SO ₂	3.23	0.15
		H ₂ S	0.03	<0.01
TK-DEGAS	Portable Tank	VOC (7)	8.07	1.79
		NO _x	2.23	0.50
		СО	4.44	1.00
		РМ	0.12	0.03
		PM ₁₀	0.12	0.03
		PM _{2.5}	0.12	0.03

		, .			
			H₂S	0.01	<0.01
(1)	Emission point i	dentification - either	specific equipment designati	on or emission poir	nt number
	from plot plan.		SO2	1.18	0.23
(2)		urce name. For fugi	live sources, use area name	or fuaitive source r	amo
1:-:	' '	volatile organic co	M96unds as defined in Title	3048 exas Administ	ræiøe Code
FUG	-YOC -	Dock Fügitives (5)	Mp6unds as defined in Title		
	NO			5.72	24.82
F-48	_NO _x - SO ₂ -	total oxides of nitr Process Fugitives Sulfur dioxide	ogen e	5.72	24.02
		total particulate m	atter, suspended in the atmo	 N&≣hAere including	20M₁22and
VRU	EAST -	Marine VRU PM _{2.5} , as represei	atter, suspended in the attric	bepizerc, including i	24416-0011CI
	DM	=,	ୟିକେ ୧୯ ୧୯ ରୀ % or less than 10	angerone in diamot	on Oita cludina
	PM ₁₀ -	-	•	ZIZOTUTIS III UIAITIEI	w.policiduling
\/DI I	\ \\\P\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PM _{2.5} , as represei		remedia diamatar	0.4.00
VINO			eબિિal to or less than 2.5 mic	By <u>is</u>on diameter	24.23
	CO -	carbon monoxide	Denzene (12)		
(4)	H ₂ S -	hydrogen sulfide		2.28	0.85
(4)			hits (tons per year) is based (
(5) VRU			Mଡ଼ିଢeable through compliar	n∈e with the applica	ı b le2special
		permit application re			
(6)			क्रीकादकार storiage tank EPNs	∓K401 through TK4	4 0.6 5TK417,
	and TK501 thro				
$(7)_{-2}$,వ్లిhort term and a	արդպаԼՆՀОС emissio	nstage a subcap of the emiss	™9 2cap (EPN TKL	~0\.87).
(8)			ions from MAERT Attachme		
(9)	Includes control	ed emissions for tan	ାନ୍ଦି ବ୍ୟୁ ନ୍ୟାପ୍ର activities (star	diag idle emissions	s 0.00€ gassing,
	and emissions f	rom refloating of roof	during refill) from Storage T	ank EPNs TK301, [†]	TK401
TK-2	ւերrough TK417,	and TK501 through	TKS19. k roof landing activities (star	0.92	0.87
(10)	Includes control	led emissions for tan	k roof landing activities (star	iding idle emissions	s, degassing,
(and emissions f	rom refloating of root	Benzenedill) from MAERT A	tta&nment 1, Group	010(anks.
(11)	Includes uncont	rolled tank roof landi	ng emissions from SC 6B ca	tegory tanks (stand	ling idle and
\`., ^	refilling), uncont	rolled tank opening (₩Ating) emissions from all f	dating roof tanks.	141060
IK-3	controlled VOC	emissions from cont	VEALING) emissions from all floolled degassing of MAERT	Attachment 1. Grou	p 2 tanks
TK-3	REPN TKDEGAS	T ank 387	VOC	5.22	8.19
	(=:	, -			
	.00	T. 1.000	VOC	5.21	8.18
TK-3	889	Tank 389			
CDE	IIC	Eugitivo	VOC	0.01	0.42
CRF	UG	Fugitive			
			Benzene (13)	<0.01	0.01
1		ļ	I		

- (12) Hourly and annual emissions are a subcap of the emissions authorized under "Controlled Tank Roof Landings" for EPN PORT_VCU and include emissions from controlled tank roof landings (controlled standing idle and roof refloating) as well as emissions from controlled tank degassing.
- (13) Emissions are a subset of authorized VOC emissions for the EPN.
- (14) Includes emissions from controlled tank roof landings (standing idle and roof refloating) as well as emissions from controlled degassing. The authorized VOC emissions have been used in the issuance of Emission Reduction Credits (ERCs) and cannot be increased during the service life of the facility.

Date: August 28, 2015

Attachment 1 Permit Number 4850

Tanks Group 1				
<u>EPN</u>	<u>Description</u>			
TK256	Tank 256			
TK257	Tank 257			
TK308	Tank 308			
TK330	Tank 330			
TK372	Tank 372			
TK373	Tank 373			
TK374	Tank 374			
TK375	Tank 375			
TK386	Tank 386			
TK387	Tank 387			
TK388	Tank 388			
TK389	Tank 389			

Date: March 30, 2015

Attachment 1 Permit Number 4850

Tanks Group 2			
<u>EPN</u>	<u>Description</u>		
TK217	Tank 217		
TK218	Tank 218		
TK219	Tank 219		
TK221	Tank 221		
TK222	Tank 222		
TK223	Tank 223		
TK250	Tank 250		
TK251	Tank 251		
TK252	Tank 252		
TK253	Tank 253		
TK254	Tank 254		
TK255	Tank 255		
TK258	Tank 258		
TK259	Tank 259		
TK 296	Tank 296		
TK 316	Tank 316		
TK 324	Tank 324		
TK 342	Tank 342		
TK343	Tank 343		
TK344	Tank 344		
TK345	Tank 345		
TK362	Tank 362		
TK368	Tank 368		
TK369	Tank 369		
TK370	Tank 370		
TK382	Tank 382		
TK384	Tank 384		
TK390	Tank 390		
TK391	Tank 391		
TK393	Tank 393		

Date February 17, 2015