ATTACHMENT I

Groundwater Sampling Data

1) ROS Sump Sampling Data - Volatiles (One page)
2) ROS Sump Sampling Data – Semi-Volatiles (One page)
3) ROS Sump Sampling Data – Inorganics (One page)
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15) ROS CW-31D/RW-7 Well Sampling Data – Dioxins (One page)

ATTACHMENT I
HAVERTOWN ROS SUMP SAMPLING
VOLATILES (VOCs)

Sample Number :		CY346		CY347		CY385		CY3C3		CY3F0		CY3H5		CY3K6		CY3C1		CY3C2	
Sampling Location :		ROS-01		ROS-02		ROS-03		ROS-04		ROS-05		ROS-06		ROS-07		MSUMP1		MSUMP2	
Case # :		39465		39465		39504		39555		39629		40187		40300		39555		39555	
Matrix :		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		1/19/2010		2/3/2010		3/3/2010		3/17/2010		4/1/2010		6/2/2010		7/1/2010		3/17/2010		3/17/2010	
Time Sampled :		10:00		12:00		11:00		09:40		12:00		11:00		11:00		09:00		09:20	
pH :		< 2		< 2		< 2		< 2		2		2		< 2		< 2		< 2	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0																		
Chloromethane	5.0																		
*Vinyl Chloride	5.0																		
Bromomethane	5.0																		
Chloroethane	5.0																		
Trichlorofluoromethane	5.0																		
*1,1-Dichloroethene	5.0											0.72	JB						
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0																		
Acetone	10			32								2.6	J	4.8	J				
Carbon Disulfide	5.0																		
Methyl Acetate	5.0																		
*Methylene Chloride	5.0									4.6	J								
trans-1,2-Dichloroethene	5.0																		
Methyl tert-Butyl Ether	5.0																		
1,1-Dichloroethane	5.0																		
cis-1,2-Dichloroethene	5.0																		
*2-Butanone	10			30															
Bromochloromethane	5.0																		
Chloroform	5.0	1.2	J	1.2	J			0.70	J			0.98	J			0.81	J	0.62	J
*1,1,1-Trichloroethane	5.0																		
Cyclohexane	5.0																		
*Carbon Tetrachloride	5.0																		
*Benzene	5.0																		
*1,2-Dichloroethane	5.0																		
1,4-Dioxane	100																		
Trichloroethene	5.0																		
Methylcyclohexane	5.0																		
*1,2-Dichloropropane	5.0																		
Bromodichloromethane	5.0																		
cis-1,3-Dichloropropene	5.0																		
4-Methyl-2-Pentanone	10																		
*Toluene	5.0																		
trans-1,3-Dichloropropene	5.0																		
1,1,2-Trichloroethane	5.0																		
*Tetrachloroethene	5.0																		
2-Hexanone	10																		
Dibromochloromethane	5.0																		
1,2-Dibromoethane	5.0																		
*Chlorobenzene	5.0																		
*Ethylbenzene	5.0																		
o-Xylene	5.0																		
m,p-Xylene	5.0																		
*Styrene	5.0																		
Bromoform	5.0																		
Isopropylbenzene	5.0	0.95	J																
1,1,2,2-Tetrachloroethane	5.0																		
*1,3-Dichlorobenzene	5.0																		
*1,4-Dichlorobenzene	5.0																		
1,2-Dichlorobenzene	5.0																		
1,2-Dibromo-3-chloropropane	5.0																		
1,2,4-Trichlorobenzene	5.0																		
1,2,3-Trichlorobenzene	5.0																		

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor)
No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise

ATTACHMENT I
HAVERTOWN ROB SUMP SAMPLING
SEMI-VOLATILES (SVOCs)

Sample Number		CY346		CY347		CY385		CY3C3		CY3F0		CY3H5		CY3K8		CY3C1		CY3C2	
Sampling Location		ROS-01		ROS-02		ROS-03		ROS-04		ROS-05		ROS-06		ROS-07		MSUMP1		MSUMP2	
Case #		39465		39465		39504		39555		39629		40187		40300		39555		39555	
Matrix		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		1/19/2010		2/3/2010		3/3/2010		3/17/2010		4/1/2010		6/2/2010		7/1/2010		3/17/2010		3/17/2010	
Time Sampled		10:00		12:00		11:00		09:40		12:00		11:00		11:00		09:00		09:20	
pH		6.9		7.2		7.3				6.8		2.0		7.3					
Dilution Factor		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0																		
Phenol	5.0																		
Bis(2-chloroethyl)ether	5.0																		
2-Chlorophenol	5.0																		
2-Methylphenol	5.0																		
2,2'-Oxybis(1-chloropropane)	5.0																		
Acetophenone	5.0							1.1	J										
4-Methylphenol	5.0																		
N-Nitroso-di-n-propylamine	5.0																		
Hexachloroethane	5.0																		
Nitrobenzene	5.0																		
Isophorone	5.0																		
2-Nitrophenol	5.0																		
2,4-Dimethylphenol	5.0																		
Bis(2-chloroethoxy)methane	5.0																		
2,4-Dichlorophenol	5.0																		
Naphthalene	5.0			6.8		7.2													
4-Chloroaniline	5.0																		
Hexachlorobutadiene	5.0																		
Caprolactam	5.0																		
4-Chloro-3-Methylphenol	5.0																		
2-Methylnaphthalene	5.0			43		32		3.0	J										
Hexachlorocyclopentadiene	5.0																		
2,4,6-Trichlorophenol	5.0																		
2,4,5-Trichlorophenol	5.0																		
1,1'-Biphenyl	5.0			8.1		2.9	J												
2-Chloronaphthalene	5.0																		
2-Nitroaniline	10																		
Dimethylphthalate	5.0																		
2,6-Dinitrotoluene	5.0																		
Acenaphthylene	5.0																		
3-Nitroaniline	10																		
Acenaphthene	5.0	2.2	J	13		7.6				2.4	J								
2,4-Dinitrophenol	10																		
4-Nitrophenol	10																		
Dibenzofuran	5.0	2.8	J	11		4.1	J												
2,4-Dinitrotoluene	5.0																		
Diethylphthalate	5.0																		
Fluorene	5.0	11		30		12				5.1									
4-Chlorophenyl-phenylether	5.0																		
4-Nitroaniline	10																		
4,6-Dinitro-2-methylphenol	10																		
N-Nitrosodiphenylamine	5.0																		
1,2,4,5-Tetrachlorobenzene	5.0																		
4-Bromophenyl-phenylether	5.0																		
*Hexachlorobenzene	5.0																		
Atrazine	5.0																		
***Pentachlorophenol**	10	***53***		***70***		***20***		***12***		***38***		***2.8***	***J***			***5.0***	***J***	***0.65***	***J***
Phenanthrene	5.0	14		72		34		1.0	J	5.6									
Anthracene	5.0	3.2	J	12		5.6				6.3									
Carbazole	5.0																		
Di-n-butylphthalate	5.0	2.1	J	2.1	J														
Fluoranthene	5.0	1.9	J	9.3		3.9	J			4.3	J								
Pyrene	5.0	4.1	J	17		5.7				6.1									
Butylbenzylphthalate	5.0																		
3,3'-Dichlorobenzidine	5.0																		
Benzo(a)anthracene	5.0	0.57	J	2.3	J	0.99	J												
Chrysene	5.0	0.66	J	2.6	J	1.2	J												
Bis(2-ethylhexyl)phthalate	5.0	0.78	J	4.6	J					5.2									
Di-n-octylphthalate	5.0																		
Benzo(b)fluoranthene	5.0																		
Benzo(k)fluoranthene	5.0																		
Benzo(a)pyrene	5.0			0.53	J														
Indeno(1,2,3-cd)pyrene	5.0																		
Dibenzo(a,h)anthracene	5.0																		
Benzo(g,h,i)perylene	5.0																		
2,3,4,6-Tetrachlorophenol	5.0	2.1	J	3.0	J														

No Value = Not Detected
No Flag = Confirmed identification
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ATTACHMENT I
HAVERTOWN ROS SUMP SAMPLING
INORGANICS (TOTAL METALS)

Sample Number :	MCY3C3		MCY3C1		MCY3C2	
Sampling Location :	ROS-04		MSUMP-1		MSUMP-2	
Case # :	39555		39555		39555	
Matrix :	Water		Water		Water	
Units :	ug/L		ug/L		ug/L	
Date Sampled :	3/17/2010		3/17/2010		3/17/2010	
Time Sampled :	09:40		09:00		09:20	
%Solids :	0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	2310				208	
ANTIMONY						
*ARSENIC	5.3	J				
BARIUM	87.1	J	71.4	J	60.5	J
BERYLLIUM	0.54	J				
*CADMIUM	0.45	J				
CALCIUM	129000		76900		96100	
*CHROMIUM	4.2	J			0.93	J
COBALT	5.1	J				
COPPER						
IRON	7230		79.7	J	327	
*LEAD	5.4	J				
MAGNESIUM	34500		22600		21800	
MANGANESE	3320		577		649	
MERCURY						
*NICKEL	7.6	J	1.1	J	2.3	J
POTASSIUM	5130		5150		4280	J
SELENIUM			5.8	J		
SILVER	0.90	J				
SODIUM	17500		14000		10800	
THALLIUM						
VANADIUM	7.6	J			0.81	J
ZINC	14.7	J				
*CYANIDE						

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No Flag = Confirmed identification
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ATTACHMENT I
HAVERTOWN ROS MONITORING WELL SAMPLING
VOLATILES (VOCs)

		CW-32				CW-33				CW-34			
Sample Number :		CY3G3		CY3W5		CY3G4		CY3W6		CY3G5		CY3W7	
Sampling Location :		CW-32		CW-32		CW-33		CW-33		CW-34		CW-34	
Case # :		40071		40842		40071		40842		40071		40842	
Matrix :		Water		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		5/13/2010		12/21/2010		5/13/2010		12/21/2010		5/13/2010		12/21/2010	
Time Sampled :		13:35		11:55		12:34		11:00		11:00		13:00	
pH :		< 2		< 2		< 2		< 2		< 2		< 2	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0												
Chloromethane	5.0												
*Vinyl Chloride	5.0												
Bromomethane	5.0												
Chloroethane	5.0												
Trichlorofluoromethane	5.0												
*1,1-Dichloroethene	5.0												
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0												
Acetone	10												
Carbon Disulfide	5.0												
Methyl Acetate	5.0												
*Methylene Chloride	5.0												
trans-1,2-Dichloroethene	5.0												
Methyl tert-Butyl Ether	5.0			0.78	J			0.70	J			0.33	J
1,1-Dichloroethane	5.0												
cis-1,2-Dichloroethene	5.0												
*2-Butanone	10												
Bromochloromethane	5.0												
Chloroform	5.0												
*1,1,1-Trichloroethane	5.0												
Cyclohexane	5.0												
*Carbon Tetrachloride	5.0												
*Benzene	5.0												
*1,2-Dichloroethane	5.0												
1,4-Dioxane	100												
Trichloroethene	5.0												
Methylcyclohexane	5.0												
*1,2-Dichloropropane	5.0												
Bromodichloromethane	5.0												
cis-1,3-Dichloropropene	5.0												
4-Methyl-2-Pentanone	10												
*Toluene	5.0												
trans-1,3-Dichloropropene	5.0												
1,1,2-Trichloroethane	5.0												
*Tetrachloroethene	5.0												
2-Hexanone	10												
Dibromochloromethane	5.0												
1,2-Dibromoethane	5.0												
*Chlorobenzene	5.0												
*Ethylbenzene	5.0												
o-Xylene	5.0												
m,p-Xylene	5.0												
*Styrene	5.0												
Bromoform	5.0												
Isopropylbenzene	5.0												
1,1,2,2-Tetrachloroethane	5.0												
*1,3-Dichlorobenzene	5.0												
*1,4-Dichlorobenzene	5.0												
1,2-Dichlorobenzene	5.0												
1,2-Dibromo-3-chloropropane	5.0												
1,2,4-Trichlorobenzene	5.0												
1,2,3-Trichlorobenzene	5.0												

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor)
No Value = Not Detected
No Flag = Confirmed identification
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ATTACHMENT I
HAVERTOWN ROS MONITORING WELL SAMPLING
SEMI-VOLATILES (SVOCs)

		CW-32				CW-33				CW-34			
Sample Number		CY3G3		CY3W5		CY3G4		CY3W6		CY3G5		CY3W7	
Sampling Location		CW-32		CW-32		CW-33		CW-33		CW-34		CW-34	
Case #		40071		40842		40071		40842		40071		40842	
Matrix		Water		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		5/13/2010		12/21/2010		5/13/2010		12/21/2010		5/13/2010		12/21/2010	
Time Sampled		13:55		11:55		12:34		11:00		11:00		13:00	
pH		7.0				7.0				7.0			
Dilution Factor		1.0		0.97		1.0		0.99		1.0		1.03	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0												
Phenol	5.0												
Bis(2-chloroethyl)ether	5.0												
2-Chlorophenol	5.0												
2-Methylphenol	5.0												
2,2'-Oxybis(1-chloropropane)	5.0												
Acetophenone	5.0												
4-Methylphenol	5.0												
N-Nitroso-di-n-propylamine	5.0												
Hexachloroethane	5.0												
Nitrobenzene	5.0												
Isophorone	5.0												
2-Nitrophenol	5.0												
2,4-Dimethylphenol	5.0												
Bis(2-chloroethoxy)methane	5.0												
2,4-Dichlorophenol	5.0												
Naphthalene	5.0												
4-Chloroaniline	5.0												
Hexachlorobutadiene	5.0												
Caprolactam	5.0												
4-Chloro-3-Methylphenol	5.0												
2-Methylnaphthalene	5.0												
Hexachlorocyclopentadiene	5.0												
2,4,6-Trichlorophenol	5.0												
2,4,5-Trichlorophenol	5.0												
1,1'-Biphenyl	5.0											0.28	J
2-Chloronaphthalene	5.0												
2-Nitroaniline	10												
Dimethylphthalate	5.0												
2,6-Dinitrotoluene	5.0												
Acenaphthylene	5.0												
3-Nitroaniline	10												
Acenaphthene	5.0												
2,4-Dinitrophenol	10												
4-Nitrophenol	10												
Dibenzofuran	5.0												
2,4-Dinitrotoluene	5.0												
Diethylphthalate	5.0												
Fluorene	5.0												
4-Chlorophenyl-phenylether	5.0												
4-Nitroaniline	10												
4,6-Dinitro-2-methylphenol	10												
N-Nitrosodiphenylamine	5.0												
1,2,4,5-Tetrachlorobenzene	5.0												
4-Bromophenyl-phenylether	5.0												
*Hexachlorobenzene	5.0												
Atrazine	5.0												
*Pentachlorophenol	10			1.2	J			0.31	J			3.2	J
Phenanthrene	5.0												
Anthracene	5.0												
Carbazole	5.0												
Di-n-butylphthalate	5.0			0.2	B			0.18	B			0.17	B
Fluoranthene	5.0												
Pyrene	5.0												
Butylbenzylphthalate	5.0			0.36	B			0.28	B			0.26	B
3,3'-Dichlorobenzidine	5.0												
Benzo(a)anthracene	5.0												
Chrysene	5.0												
Bis(2-ethylhexyl)phthalate	5.0			0.81	B			0.51	B			0.41	B
Di-n-octylphthalate	5.0												
Benzo(b)fluoranthene	5.0												
Benzo(k)fluoranthene	5.0												
Benzo(a)pyrene	5.0												
Indeno(1,2,3-cd)pyrene	5.0												
Dibenzo(a,h)anthracene	5.0												
Benzo(g,h,i)perylene	5.0												
2,3,4,6-Tetrachlorophenol	5.0												

No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks

ATTACHMENT I
HAVERTOWN ROS MONITORING WELL SAMPLING
INORGANICS (TOTAL METALS)

	CW-32				CW-33				CW-34			
Sample Number :	MCY3G3		MCY3W5		MCY3G4		MCY3W6		MCY3G5		MCY3W7	
Sampling Location :	CW-32		CW-32		CW-33		CW-33		CW-34		CW-33	
Case # :	40071		40842		40071		40842		40071		40842	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2010		12/21/2010		5/13/2010		12/21/2010		5/13/2010		12/21/2010	
Time Sampled :	13:35		11:35		12:34		11:00		11:00		13:00	
%Solids :	0.0				0.0				0.0			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	188	J	139	J				UL	925		969	
ANTIMONY				UL				UL				
*ARSENIC	4.3	J		UL				UL			2.5	B
BARIUM	98.4	J	185	J	131	J	114	J	185	J	88.7	J
BERYLLIUM			0.11	J				UL				
*CADMIUM	0.56	J		UL	0.48	J		UL	0.34	J		
CALCIUM	59200		16000	L	17300		16700	L	18100		80300	
*CHROMIUM				UL				UL	2.1	J		
COBALT	1.6	J		UL	1.8	J		UL	1.1	J		
COPPER				UL				UL	1.1	J		
IRON	236		123	L			24.9	J	1100		1200	
*LEAD	1.6	J		UL				UL				UL
MAGNESIUM	14600		10200	L	9860		9530	L	9950		19200	
MANGANESE	153		38.2	L	216		46.7	L	45.2		163	
MERCURY	0.060	J										
*NICKEL	5.6	J	2.2	J	4.7	J	1.5	J	4.8	J	2.5	J
POTASSIUM	3710	J	3810	J	4560	J	3940	J	3730	J	4770	J
SELENIUM				UL				UL				
SILVER				R				R				R
SODIUM	12300		21100	J	21200		19000	J	22300		13100	J
THALLIUM	4.2	J		UL	3.1	J		UL	4.3	J		
VANADIUM	1.7	J		UL	0.61	J		UL	3.1	J	2.4	J
ZINC	3.4	J	2.9	J	3.6	J		UL	5.9	J	1.6	J

No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "R" = Unusable Result. Analyte may or may not be present in the sample.
Flag "UL" = Not Detected. Quantitation limit is probably higher.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN ROS MONITORING WELL SAMPLING
DIOXINS

		CW-32						CW-33						CW-34					
Sample Number :		R3345604			R3360907			R3345605			R3360908			R3345606			R3360909		
Sampling Location : Prefix of HAV-LTR		CW-32			CW-32			CW-33			CW-33			CW-34			CW-34		
Units:		pg/g			pg/g			pg/g			pg/g			pg/g			pg/g		
Date Sampled :		5/13/2010			12/21/2010			5/13/2010			12/21/2010			5/13/2010			12/21/2010		
Time Sampled :		13:35			11:55			12:34			11:00			11:00			13:00		
Dilution Factor :		1.05			1.09			1.02			1.12			1.02			0.98		
Analyte / TEF	**CRQL**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**
2378-TCDD (1.0)	10	2.80	2.8	J		0			0			0			0			0	
12378-PeCDD (1.0)	50		0			0			0			0			0			0	
123478-HxCDD (0.10)	50		0			0			0			0			0			0	
123678-HxCDD (0.10)	50		0			0			0			0			0			0	
123789-HxCDD (0.10)	50		0			0			0			0			0			0	
1234678-HpCDD (0.01)	50	1.89	0.0189	J		0		8.86	0.089	J		0		4.89	0.049	J	6.86	0.069	J
OCDD (0.0003)	100	17.0	0	B	15.4	0.005	J	74.8	0.022	J	84.1	0.0252	J	87.6	0.026	J	52.0	0.016	J
2378-TCDF (0.1)	10		0			0			0			0			0			0	
12378-PeCDF (0.03)	50	2.24	0	B		0			0			0		0.60	0	B		0	
23478-PeCDF (0.30)	50	0.82	0	B		0			0			0			0			0	
123478-HxCDF (0.10)	50		0			0			0			0		3.30	0.33	J		0	
123678-HxCDF (0.10)	50		0			0			0			0			0			0	
234678-HxCDF (0.10)	50		0			0			0			0			0			0	
123789-HxCDF (0.10)	50		0			0			0			0			0			0	
1234678-HpCDF (0.01)	50		0			0		2.74	0	B	3.76	0.0376	J	1.51	0	B		0	
1234789-HpCDF (0.01)	50		0			0			0			0			0			0	
OCDF (0.0003)	100		0			0		17.0	0.005	J	21.6	0.0065	J	9.18	0.003	J	8.61	0.003	J
TOTAL TEQ			2.6189			0.005			0.116			0.0693			0.408			0.087	

TEQs are based on 2005 WHO Scheme.
No Value = Not Detected
No Flag = Confirmed Identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN ROS RECOVERY WELL SAMPLING
VOLATILES (VOCs)

		RW-8				RW-9				RW-10			
Sample Number:		CY3N6		CY3W2		CY3N1		CY3W3		CY3N7		CY3W4	
Sampling Location:		RW-8		RW-8		RW-9		RW-9		RW-10		RW-10	
Case #		40480		40842		40480		40842		40480		40842	
Matrix:		Water		Water		Water		Water		Water		Water	
Units:		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled:		9/14/2010		12/21/2010		9/14/2010		12/21/2010		9/14/2010		12/21/2010	
Time Sampled:		12:00		10:00		12:10		10:10		12:20		10:20	
pH:		< 2		< 2		< 2		< 2		< 2		< 2	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0												
Chloromethane	5.0												
*Vinyl Chloride	5.0												
Bromomethane	5.0												
Chloroethane	5.0												
Trichlorofluoromethane	5.0												
*1,1-Dichloroethene	5.0												
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0												
Acetone	10												
Carbon Disulfide	5.0												
Methyl Acetate	5.0												
*Methylene Chloride	5.0												
trans-1,2-Dichloroethene	5.0												
Methyl tert-Butyl Ether	5.0			0.47	J			0.46	J			0.45	J
1,1-Dichloroethane	5.0												
cis-1,2-Dichloroethene	5.0												
*2-Butanone	10												
Bromochloromethane	5.0												
Chloroform	5.0												
*1,1,1-Trichloroethane	5.0												
Cyclohexane	5.0												
*Carbon Tetrachloride	5.0												
*Benzene	5.0												
*1,2-Dichloroethane	5.0												
1,4-Dioxane	100												
Trichloroethene	5.0												
Methylcyclohexane	5.0												
*1,2-Dichloropropane	5.0												
Bromodichloromethane	5.0												
cis-1,3-Dichloropropene	5.0												
4-Methyl-2-Pentanone	10												
*Toluene	5.0											0.10	J
trans-1,3-Dichloropropene	5.0												
1,1,2-Trichloroethane	5.0												
*Tetrachloroethene	5.0												
2-Hexanone	10												
Dibromochloromethane	5.0												
1,2-Dibromoethane	5.0												
*Chlorobenzene	5.0												
*Ethylbenzene	5.0												
o-Xylene	5.0												
m,p-Xylene	5.0												
*Styrene	5.0												
Bromoform	5.0												
Isopropylbenzene	5.0												
1,1,2,2-Tetrachloroethane	5.0												
*1,3-Dichlorobenzene	5.0												
*1,4-Dichlorobenzene	5.0												
1,2-Dichlorobenzene	5.0												
1,2-Dibromo-3-chloropropane	5.0												
1,2,4-Trichlorobenzene	5.0												
1,2,3-Trichlorobenzene	5.0												

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor)
No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise

ATTACHMENT I
HAVERTOWN ROS RECOVERY WELL SAMPLING
SEMI-VOLATILES (SVOCs)

		RW-8				RW-9				RW-10			
Sample Number		CY3N8		CY3W2		CY3N1		CY3W3		CY3N7		CY3W4	
Sampling Location		RW-8		RW-8		RW-9		RW-9		RW-10		RW-10	
Case #		40480		40842		40480		40842		40480		40842	
Matrix		Water		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		9/14/2010		12/21/2010		9/14/2010		12/21/2010		9/14/2010		12/21/2010	
Time Sampled		12:00		10:00		12:10		10:10		12:20		10:20	
pH :													
Dilution Factor		1.0		0.94		1.0		0.95		1.0		1.05	
Semivolatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0												
Phenol	5.0												
Bis(2-chloroethyl)ether	5.0												
2-Chlorophenol	5.0												
2-Methylphenol	5.0												
2,2'-Oxybis(1-chloropropane)	5.0												
Acetophenone	5.0												
4-Methylphenol	5.0												
N-Nitroso-di-n-propylamine	5.0												
Hexachloroethane	5.0												
Nitrobenzene	5.0												
Isophorone	5.0												
2-Nitrophenol	5.0												
2,4-Dimethylphenol	5.0												
Bis(2-chloroethoxy)methane	5.0												
2,4-Dichlorophenol	5.0												
Naphthalene	5.0							0.13	J				
4-Chloroaniline	5.0												
Hexachlorobutadiene	5.0												
Caprolactam	5.0			2.6	J			3.4	J			2.5	J
4-Chloro-3-Methylphenol	5.0												
2-Methylnaphthalene	5.0												
Hexachlorocyclopentadiene	5.0												
2,4,6-Trichlorophenol	5.0												
2,4,5-Trichlorophenol	5.0												
1,1'-Biphenyl	5.0							0.13	J				
2-Chloronaphthalene	5.0												
2-Nitroaniline	10												
Dimethylphthalate	5.0												
2,6-Dinitrotoluene	5.0												
Acenaphthylene	5.0												
3-Nitroaniline	10												
Acenaphthene	5.0												
2,4-Dinitrophenol	10												
4-Nitrophenol	10												
Dibenzofuran	5.0												
2,4-Dinitrotoluene	5.0												
Diethylphthalate	5.0												
Fluorene	5.0												
4-Chlorophenyl-phenylether	5.0												
4-Nitroaniline	10												
4,6-Dinitro-2-methylphenol	10												
N-Nitrosodiphenylamine	5.0												
1,2,4,5-Tetrachlorobenzene	5.0												
4-Bromophenyl-phenylether	5.0												
*Hexachlorobenzene	5.0												
Atrazine	5.0												
*Pentachlorophenol	10	1.3	J	3.3	J	3.2	J	4.3	J	12		3.0	J
Phenanthrene	5.0												
Anthracene	5.0												
Carbazole	5.0												
Di-n-butylphthalate	5.0			0.26	B			0.17	B			0.23	B
Fluoranthene	5.0												
Pyrene	5.0												
Butylbenzylphthalate	5.0			0.57	B			0.30	B			0.49	B
3,3'-Dichlorobenzidine	5.0												
Benzo(a)anthracene	5.0												
Chrysene	5.0												
Bis(2-ethylhexyl)phthalate	5.0			0.82	B			0.50	B			1.1	B
Di-n-octylphthalate	5.0												
Benzo(b)fluoranthene	5.0												
Benzo(k)fluoranthene	5.0												
Benzo(a)pyrene	5.0												
Indeno(1,2,3-cd)pyrene	5.0												
Dibenzo(a,h)anthracene	5.0												
Benzo(g,h,i)perylene	5.0												
2,3,4,6-Tetrachlorophenol	5.0												

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No Flag = Confirmed Identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN ROS RECOVERY WELL SAMPLING
INORGANICS (TOTAL METALS)

	RW-8				RW-9				RW-10			
Sample Number :	MCY3N6		MCY3W2		MCY3N1		MCY3W3		MCY3N7		MCY3W4	
Sampling Location :	RW-8		RW-8		RW-9		RW-9		RW-10		RW-10	
Case # :	40480		40842		40480		40842		40480		40842	
Matrix :	Water		Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	9/14/2010		12/21/2010		9/14/2010		12/21/2010		9/14/2010		12/21/2010	
Time Sampled :	12:00		10:00		12:10		10:10		12:20		10:20	
%Solids :												
Dilution Factor :	1.0		1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	22600		42.7	J	146			UL	17.0		81.1	J
ANTIMONY		UL	2.2	B		UL		UL		UL	2.1	B
*ARSENIC	0.85	B		UL	0.15	B		UL				UL
BARIUM	517		105	J	118		97.0	J	111		102	J
BERYLLIUM	1.7	B		UL	0.10	B		UL	0.14	B		UL
*CADMIUM	0.093	B		UL	0.15	B		UL	0.17	B		UL
CALCIUM	91500		55700	L	47600		49100	L	35500		50700	L
*CHROMIUM	67.4			UL	0.86	B		UL	0.57	B		UL
COBALT	15.5			UL	1.5	B		UL	2.0			UL
COPPER	81.3			UL	3.4	B		UL	1.3	B	2.3	J
IRON	39200		128	L	686		63.4	J	366		180	L
*LEAD	33.3			UL	0.76	B		UL	0.20	B		UL
MAGNESIUM	33800		19300	L	18200		17600	L	16100		18200	L
MANGANESE	1020		3860	L	5240		4080	L	3620		4160	L
MERCURY	0.020	J										
*NICKEL	33.3		1.2	J	2.0		1.1	J	1.8		1.4	J
POTASSIUM	19700		4320	J	4500		3970	J	3850		4150	J
SELENIUM	0.87	J		UL	0.76	J		UL				UL
SILVER	0.27	J		R		R		R	0.033	J		R
SODIUM	20600		17800	J	21600		16400	J	16600		16900	J
THALLIUM	0.81	B		UL	0.053	B		UL				UL
VANADIUM	74.8			UL	0.65	B		UL				UL
ZINC	89.0	J		UL	2.1	B	2.3	J	1.0	B	2.0	J

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No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "R" = Unusable Result. Analyte may or may not be present in the sample.
Flag "UL" = Not Detected. Quantitation limit is probably higher.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN ROS RECOVERY WELL SAMPLING
DIOXINS

		RW-8						RW-9						RW-10					
Sample Number :		R3354603			R3360904			R3354604			R3360905			R3354605			R3360906		
Sampling Location - Prefix of HAV-LTR		RW-8			RW-8			RW-9			RW-9			RW-10			RW-10		
Units:		pg/g			pg/g			pg/g			pg/g			pg/g			pg/g		
Date Sampled :		9/14/2010			12/21/2010			9/14/2010			12/21/2010			9/14/2010			12/21/2010		
Time Sampled :		12:00			10:00			12:10			10:10			12:20			10:20		
Dilution Factor :		1.075			1.10			1.0			0.96			1.075			0.95		
Analyte / TEF	**CRQL**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**
2378-TCDD (1.0)	10		0			0			0			0		0.37	0.37	J		0	
12378-PeCDD (1.0)	50		0			0			0			0			0			0	
123478-HxCDD (0.10)	50		0			0			0			0			0			0	
123678-HxCDD (0.10)	50		0			0			0			0			0			0	
123789-HxCDD (0.10)	50		0			0			0			0			0			0	
1234678-HpCDD (0.01)	50		0		10.2	0.102	J		0			0			0		13.3	0.133	J
OCDD (0.0003)	100	0.39	0	B	134	0.04			0		47.6	0.0143	J	0.54	0	B	118	0.035	
2378-TCDF (0.1)	10	0.42	0	B		0			0			0			0			0	
12378-PeCDF (0.03)	50	0.67	0	B		0			0			0		0.63	0	B		0	
23478-PeCDF (0.30)	50		0			0			0			0			0			0	
123478-HxCDF (0.10)	50	0.45	0	B		0			0			0		0.75	0	B		0	
123678-HxCDF (0.10)	50		0			0			0			0			0			0	
234678-HxCDF (0.10)	50	2.43	0	B		0			0			0		3.84	0.038	J		0	
123789-HxCDF (0.10)	50	10.4	0.104	J		0			0			0		13.1	0.131	J		0	
1234678-HpCDF (0.01)	50	0.78	0	B	3.27	0.033	J		0		1.56	0.0156	J		0		2.93	0.029	J
1234789-HpCDF (0.01)	50	84.2	0	B		0		50.3	0	B		0		131	0.039			0	
OCDF (0.0003)	100	17.5	0.00525	J	15.0	0.005	J		0			0		17.1	0.005	J	17.9	0.005	J
TOTAL TEQ			0.109			0.179			0.000			0.030			0.584			0.20	

TEQs are based on 2005 WHO Scheme.
No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN CW-31D/RW-7 WELL SAMPLING
VOLATILES (VOCs)

Sample Number :		CY2F7		CY2P3		CY2W0		CY313		CY3B3		CY3W1	
Sampling Location :		CW-31D		CW-31D		CW-31D		CW-31D		CW-31D		RW-7	
Case # :		38316		38640		39037		39309		39555		40842	
Matrix :		Water		Water		Water		Water		Water		Water	
Units :		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :		4/7/2009		6/17/2009		9/22/2009		12/16/2009		3/17/2010		12/21/2010	
Time Sampled :		12:20		14:45		15:10		12:55		12:20		13:30	
pH :		< 2		< 2		< 2		< 2		< 2		< 2	
Dilution Factor :		1.0		1.0		1.0		1.0		1.0		1.0	
Volatile Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0												
Chloromethane	5.0												
*Vinyl Chloride	5.0					0.39	J						
Bromomethane	5.0												
Chloroethane	5.0												
Trichlorofluoromethane	5.0												
*1,1-Dichloroethene	5.0												
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0												
Acetone	10	7.6	J	8.7	J	4.2	J	5.5	J	7.8	J		
Carbon Disulfide	5.0												
Methyl Acetate	5.0												
*Methylene Chloride	5.0	1.9	B	0.40	B	0.35	B					1.3	J
trans-1,2-Dichloroethene	5.0												
Methyl tert-Butyl Ether	5.0	5.8		6.8	L	6.3		4.8	J	6.0		3.5	J
1,1-Dichloroethane	5.0												
cis-1,2-Dichloroethene	5.0	5.5		4.2	J	5.6		3.8	J	5.1		13	
*2-Butanone	10												
Bromochloromethane	5.0												
Chloroform	5.0					0.37	J					31	
*1,1,1-Trichloroethane	5.0												
Cyclohexane	5.0											1.1	J
*Carbon Tetrachloride	5.0												
*Benzene	5.0			0.79	J	1.2	J			1.2	J	4.2	J
*1,2-Dichloroethane	5.0												
1,4-Dioxane	100												
Trichloroethene	5.0	7.7		4.9	J	7.5		4.6	J	7.1		12	
Methylcyclohexane	5.0											0.91	J
*1,2-Dichloropropane	5.0												
Bromodichloromethane	5.0											0.78	J
cis-1,3-Dichloropropene	5.0												
4-Methyl-2-Pentanone	10												
*Toluene	5.0	0.87	J	2.5	J	3.0	J			1.8	J	1.7	J
trans-1,3-Dichloropropene	5.0												
1,1,2-Trichloroethane	5.0												
*Tetrachloroethene	5.0												
2-Hexanone	10												
Dibromochloromethane	5.0												
1,2-Dibromoethane	5.0												
*Chlorobenzene	5.0												
*Ethylbenzene	5.0	0.88	J	0.42	J	0.64	B			0.57	J	3.7	J
o-Xylene	5.0	11		3.7	J	7.5		5.5		6.7		25	
m,p-Xylene	5.0	1.7	J	0.56	J	1.0	B			0.99	J	6.9	
*Styrene	5.0												
Bromoform	5.0												
Isopropylbenzene	5.0	1.7	J	0.50	J	1.2	J			1.3	J	5.0	
1,1,2,2-Tetrachloroethane	5.0												
*1,3-Dichlorobenzene	5.0												
*1,4-Dichlorobenzene	5.0												
1,2-Dichlorobenzene	5.0												
1,2-Dibromo-3-chloropropane	5.0												
1,2,4-Trichlorobenzene	5.0												
1,2,3-Trichlorobenzene	5.0												

CRQL = Contract Required Quantitation Limit
To calculate sample quantitation limits: (CRQL * Dilution Factor)
No Value = Not Detected
No Flag = Confirmed identification
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ATTACHMENT I
HAVERTOWN CW-31D/RW-7 WELL SAMPLING
SEMI-VOLATILES (SVOCs)

Sample Number		CY2F7		CY2P3		CY2W0		CY313		CY3B3		CY3W1	
Sampling Location		CW-31D		CW-31D		CW-31D		CW-31D		CW-31D		RW-7	
Case # :		38318		38640		39037		39309		39555		40842	
Matrix :		Water		Water		Water		Water		Water		Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled		4/7/2009		6/17/2009		9/22/2009		12/15/2009		3/17/2010		12/21/2010	
Time Sampled :		12 20		14 45		15:10		12 55		12:20		13 30	
pH :													
Dilution Factor :		1.0		1.0		1.02		1.0		1.0		47.6	
Semivolatile Compound	CRDL	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0												
Phenol	5.0			1.3	J	1.4	J						
Bis(2-chloroethyl)ether	5.0												
2-Chlorophenol	5.0												
2-Methylphenol	5.0												
2,2'-Oxybis(1-chloropropane)	5.0												
Acetophenone	5.0												
4-Methylphenol	5.0					0.28	J						
N-Nitroso-di-n-propylamine	5.0												
Hexachloroethane	5.0												
Nitrobenzene	5.0												
Isophorone	5.0												
2-Nitrophenol	5.0												
2,4-Dimethylphenol	5.0												
Bis(2-chloroethoxy)methane	5.0												
2,4-Dichlorophenol	5.0					0.78	J						
Naphthalene	5.0	160 +	J	330 +	J	160 +	J	80	J	61	J	260	
4-Chloroaniline	5.0												
Hexachlorobutadiene	5.0												
Caprolactam	5.0												
4-Chloro-3-Methylphenol	5.0												
2-Methylnaphthalene	5.0	19		7.2		6.3		2.5	J			54	J
Hexachlorocyclopentadiene	5.0												
2,4,6-Trichlorophenol	5.0	1.0	J	1.8	J	1.8	J						
2,4,5-Trichlorophenol	5.0	2.3	J	4.0	J	3.4	J						
1,1'-Biphenyl	5.0	6.8		2.6	J	3.1	J	2.5	J			14	J
2-Chloronaphthalene	5.0	4.5	J										
2-Nitroaniline	10												
Dimethylphthalate	5.0			130	J	250 +	J	100	J	110	J		
2,6-Dinitrotoluene	5.0												
Acenaphthylene	5.0					0.35	J						
3-Nitroaniline	10												
Acenaphthene	5.0												
2,4-Dinitrophenol	10												
4-Nitrophenol	10												
Dibenzofuran	5.0	2.8	J			1.4	J						
2,4-Dinitrotoluene	5.0												
Diethylphthalate	5.0	12		3700	+	2500	+	1200	+	1300		8.3	J
Fluorene	5.0	1.8	J										
4-Chlorophenyl-phenylether	5.0												
4-Nitroaniline	10												
4,6-Dinitro-2-methylphenol	10												
N-Nitrosodiphenylamine	5.0												
1,2,4,5-Tetrachlorobenzene	5.0												
4-Bromophenyl-phenylether	5.0												
*Hexachlorobenzene	5.0												
Atrazine	5.0												
*Pentachlorophenol	10	*3700*	+	*8200*	+	*4800*	+	*1500*	+	*3600*		*3600*	
Phenanthrene	5.0	4.1	J			0.72	J					9.2	J
Anthracene	5.0												
Carbazole	5.0												
Di-n-butylphthalate	5.0												
Fluoranthene	5.0												
Pyrene	5.0												
Butylbenzylphthalate	5.0												
3,3'-Dichlorobenzidine	5.0												
Benzo(a)anthracene	5.0												
Chrysene	5.0												
Bis(2-ethylhexyl)phthalate	5.0	0.9	B			0.58	B						
Di-n-octylphthalate	5.0												
Benzo(b)fluoranthene	5.0												
Benzo(k)fluoranthene	5.0												
Benzo(a)pyrene	5.0												
Indeno(1,2,3-cd)pyrene	5.0												
Dibenzo(a,h)anthracene	5.0												
Benzo(g,h,i)perylene	5.0												
2,3,4,6-Tetrachlorophenol	5.0	95	J	110	J	98 +	J	56		84	J	160	J

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No Flag = Confirmed identification
Flag "+" = Result from diluted analysis
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN CW-31D/RW-7 WELL SAMPLING
INORGANICS (TOTAL METALS)

Sample Number :	CY2F7		CY3B3		CY3W1	
Sampling Location :	CW-31D		CW-31D		RW-7	
Case # :	38316		39555		40842	
Matrix :	Water		Water		Water	
Units :	ug/L		ug/L		ug/L	
Date Sampled :	4/7/2009		3/17/2010		12/21/2010	
Time Sampled :	12:20		12:20		13:30	
%Solids :						
Dilution Factor :	1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	17.4	B		UL		UL
ANTIMONY						UL
*ARSENIC	4.7	J			3.8	B
BARIUM	30.8	J	31.4	J	42.7	J
BERYLLIUM					0.15	J
*CADMIUM			0.81	J		UL
CALCIUM	41700		39500		43800	L
*CHROMIUM	4.7	J	2.7	J		UL
COBALT	44.0	J	41.0	J	29.0	J
COPPER	10.7	J				UL
IRON	11700		16700		14600	L
*LEAD	6.2	J		UL		UL
MAGNESIUM	16800		16400		16200	L
MANGANESE	7590		7810		6310	L
MERCURY		UL				
*NICKEL	51.1		46.8		10.2	J
POTASSIUM	8650		7850		10000	L
SELENIUM			21.8	J		UL
SILVER			2.1	B		R
SODIUM	45300	J	44600		59800	J
THALLIUM						UL
VANADIUM			1.7	J		UL
ZINC	16.5	B		UL		UL

No Value = Not Detected
No Flag = Confirmed identification
Flag "J" = Analyte Present. Reported value may not be accurate or precise.
Flag "R" = Unusable Result. Analyte may or may not be present in the sample.
Flag "UL" = Not Detected. Quantitation limit is probably higher.
Flag "B" = Not detected substantially above the level reported in laboratory or field blanks.

ATTACHMENT I
HAVERTOWN CW-31D/RW-7 SAMPLING
DIOXINS

Sample Number :		R3316919			R3360902		
Sampling Location : Prefix of HAV-LTR		CW-31D			RW-7		
Units:		pg/g			pg/g		
Date Sampled :		4/7/2009			12/21/2010		
Time Sampled :		12:20			13:30		
Dilution Factor :		1.95			0.95		
Analyte / TEF	**CRQL**	**CONC**	**TEQ**	**Q**	**CONC**	**TEQ**	**Q**
2378-TCDD (1.0)	10		0			0	
12378-PeCDD (1.0)	50		0			0	
123478-HxCDD (0.10)	50		0			0	
123678-HxCDD (0.10)	50		0			0	
123789-HxCDD (0.10)	50		0			0	
1234678-HpCDD (0.01)	50		0		3.39	0.03	J
OCDD (0.0003)	100	122	0.037			0	
2378-TCDF (0.1)	10		0			0	
12378-PeCDF (0.03)	50		0			0	
23478-PeCDF (0.30)	50		0			0	
123478-HxCDF (0.10)	50		0			0	
123678-HxCDF (0.10)	50		0			0	
234678-HxCDF (0.10)	50		0			0	
123789-HxCDF (0.10)	50		0			0	
1234678-HpCDF (0.01)	50	7.98	0.08	J		0	
1234789-HpCDF (0.01)	50		0			0	
OCDF (0.0003)	100	31.7	0.01	J		0	
TOTAL TEQ			0.126			0.03	

TEQs are based on 2005 WHO Scheme.
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