IV. Combined Ocean Outfall Data

Data Summaries

This section presents the results of analyses of the combined or mixed effluent stream being discharged to the South Bay Ocean Outfall from the South Bay Wastewater Reclamation and International Wastewater Treatment Plant for 2010

SB_ITP_COMB_EFF designates a composite sample taken at a point downstream of the discharges of both plants where the wastewater stream is a mixture of both effluents (the secondary or tertiary effluent from SBWRP and the primary effluent from the IWTP).

Sampling and monitoring analyses occurred quarterly in February, May, August and October.

Discharge limits do not apply to this combined flow; but quarterly monitoring is required.

SOUTH BAY WATER RECLAMATION PLANT COMBINED OUTFALL

Annual 2010

Source: SB_ITP_COMB_EFF Date:						
	Unit		02-FEB-2010	04-MAY-2010	03-AUG-2010	05-0CT-2010
Aluminum	47	UG/L	302	225	212	245
Antimony	2.9	UG/L	ND	ND	ND	ND
Arsenic	.4	UG/L	1.83	1.77	2.46	2.46
Barium	.039	UG/L	45.5	30.2	22.8	26.3
Beryllium		UG/L	ND	ND	ND	ND
Boron	7	UG/L	396	381	442	326
Cadmium	.53	UG/L	ND	ND	ND	ND
Chromium	1.2	UG/L	8.8	3.8	2.5	2.4
Cobalt	.85	UG/L	0.9	0.9	1.1	1.0
Copper	2	UG/L	33.8	30.1	31.8	42.7
Iron	37	UG/L	1890	2360	1820	2180
Lead	2	UG/L	ND	4.8	2.4	2.7
Manganese	.24	UG/L	66.1	70.4	81.2	79.8
Mercury	.09	UG/L	ND	ND	ND	0.02
Molybdenum	.89	UG/L	6.9	9.0	8.9	10.8
Nickel	.53	UG/L	26.5	12.3	12.2	25.6
Selenium	.28	UG/L	1.62	1.80	1.96	3.34
Silver	.4	UG/L	0.8	ND	ND	ND
Thallium	3.9	UG/L	ND	ND	ND	ND
Vanadium	.64	UG/L	2.7	2.8	2.9	2.5
Zinc	2.5	UG/L	65.0	50.1	47.4	45.5
		, -	=============			===========
Calcium Hardness	.1	MG/L	232	192	195	206
Magnesium Hardness	.4	MG/L	159	127	146	155
Total Hardness	.4	MG/L	391	319	341	361
Total Alkalinity (bicarbonate)	20	MG/L	306	306	318	336
		====	===========	===========	==========	==========
Calcium	.04	MG/L	93	77	78	83
Lithium	.002	MG/L	0.06	0.04	0.05	0.05
Magnesium	.1	MG/L	39	31	36	38
Potassium	.3	MG/L	23	23	25	24
Sodium	1	MG/L	265	236	269	277
	====	====			=========	
Bromide	.1	MG/L	0.35	0.36	0.48	0.35
Chloride	7	MG/L	298	272	351	348
Fluoride	.05	MG/L	0.67	0.68	0.76	0.29
Nitrate	.04	MG/L	0.11	2.43	0.76	0.06
Ortho Phosphate	.2	MG/L	7.02	10.0	11.1	13.4
Sulfate	9	MG/L	343	246	259	274
Cyanides,Total	.002	MG/L	0.002	0.003	0.005	0.036
Sulfides-Total	.18	MG/L	ND	0.89	ND	0.24
	====	====				
BOD (Biochemical Oxygen Demand)	2	MG/L	124	179	105	137
Total Suspended Solids	1.4	MG/L	54.0	70.0	66.0	124.0
Volatile Suspended Solids	1.6	MG/L	50.0	48.0	50.0	119.0
Total Dissolved Solids	28	MG/L	1330	1100	1160	1230
Settleable Solids	.1	ML/L	ND	0.5	0.8	3.5
рН		PH	7.8	7.4	7.5	7.3
Turbidity	.13	NTU	37.9	39.9	48.0	38.8
Chlorine Residual, Total	.03	MG/L	ND	ND	ND	ND
Ammonia-N	.3	MG/L	32	39	35	41
Total Kjeldahl Nitrogen	1.6	MG/L	45.3	52.2	48.3	49.9
-						

ND= Not Detected NA= Not Analyzed NS= Not Sampled Chromium results are for Total Chromium

SOUTH BAY WATER RECLAMATION PLANT ANNUAL SEWAGE: COMBINED OUTFALL (SB_ITP_COMB_EFF) Temperature

Annual 2010

Temperature GRAB (C) ------02-FEB-2010 20.9 04-MAY-2010 22.0 03-AUG-2010 23.9 05-0CT-2010 25.9 -----Average: 23.2 Maximum: 25.9 Minimum: 20.9

SOUTH BAY WATER RECLAMATION PLANT ANNUAL SEWAGE: COMBINED EFFLUENT (SB_ITP_COMB_EFF)

Ammonia-Nitrogen and Total Cyanides

Annual 2010

		Ammonia-N .3 MG/L COMB EFF	Cyanides,Total .002 MG/L COMB EFF
=======	=====		================
FEBRUARY	-2010	32.3	0.0023
MAY	-2010	39.1	0.0025
AUGUST	-2010	34.7	0.0055
OCTOBER	-2010	41.1	0.0357
=======	=====		
Average:		36.8	0.0115

ND= not detected NA= not analyzed NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT COMBINED OUTFALL (SB_ITP_COMB_EFF)

Radioactivity

Annual 2010

Source	Month		Gross Alpha Radiation
==================		=====	
SB_ITP_COMB_EFF	FEBRUARY	-2010	2.6 ± 3.3
<pre>SB_ITP_COMB_EFF</pre>	MAY	-2010	-0.9 ± 2.0
<pre>SB_ITP_COMB_EFF</pre>	AUGUST	-2010	3.6 ± 1.9
SB_ITP_COMB_EFF	OCTOBER	-2010	3.2 ± 2.9
===================	========	=====	=======================================
AVERAGE			2.1 ± 2.5

Source	Month		Gross Beta Radiation
==================		=====	
SB_ITP_COMB_EFF	FEBRUARY	-2010	25.4 ± 5.6
<pre>SB_ITP_COMB_EFF</pre>	MAY	-2010	24.6 ± 6.4
<pre>SB_ITP_COMB_EFF</pre>	AUGUST	-2010	19.9 ± 5.6
<pre>SB_ITP_COMB_EFF</pre>	OCTOBER	-2010	25.6 ± 7.0
AVERAGE			23.9 ± 6.2

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT QUARTERLY SEWAGE - COMBINED OUTFALL

Chlorinated Pesticide Analysis

Annual 2010

			COMB_EFF	COMB_EFF	COMB_EFF	COMB_EFF	
Analyte	MDL	Units	02-FEB-2010	04-MAY-2010	03-AUG-2010	05-0CT-2010	Average
Aldrin	==== 7	===== NG/L	======== ND	======================================	======================================	======================================	======= ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	5.7	1.4
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND
PCB 1260	2000		ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND
		=====					
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	6	2
DDT and derivatives	8	NG/L	0	0	0	0	0
Chlordane + related cmpds.		NG/L	0	0	0	0	0
Polychlorinated biphenyls	4000		0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0	0
Heptachlors	8	NG/L	0	0	0	0	0
Chlorinated Hydrocarbons	==== 4000		0	0	0	6	2
-							

ND=not detected

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

SOUTH BAY WATER RECLAMATION PLANT COMBINED EFFLUENT

Acid Extractables

Annual 2010

Source: SB_ITP_COMB_EFF

Analyte	MDL	Units	FEB	MAY	AUG	ОСТ	Avg
	====	=====	=====	=====	=====		=====
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	29.1	41.3	32.9	35.1	34.6
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND
	====	=====	=====	=====	=====	=====	=====
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	29.1	41.3	32.9	35.1	34.6
Total Phenols	2.16	UG/L	29.1	41.3	32.9	35.1	34.6
	====	=====	=====	=====	=====	=====	=====
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	26.9	20.3	3.1	5.1	13.9
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT Priority Pollutants Base/Neutrals COMBINED EFFLUENT

Annual 2010

Analyte	MDL	Units =====	FEB	MAY	AUG	ОСТ	Avg =====
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
Acenaphthylene		UG/L	ND	ND	ND	ND	ND
Anthracene		UG/L	ND	ND	ND	ND	ND
Benzidine		UG/L	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[K]fluoranthene		UG/L	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
<pre>bis(2-chloroethoxy)methane</pre>	1.01	UG/L	ND	ND	ND	ND	ND
<pre>bis(2-chloroethyl) ether</pre>	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate		UG/L	17.4	20.2	13.7	16.5	17.0
Dimethyl phthalate		UG/L	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-dichlorobenzidine		UG/L	ND	ND	ND	ND	ND
2,4-dinitrotoluene		UG/L	ND	ND	ND	ND	ND
2,6-dinitrotoluene		UG/L	ND	ND	ND	ND	ND
1,2-diphenylhydrazine		UG/L	ND	ND	ND	ND	ND
Fluoranthene		UG/L	ND	ND	ND	ND	ND
Fluorene		UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene		UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene		UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND
Hexachloroethane		UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene		UG/L	ND	ND	ND	ND	ND
Isophorone		UG/L	ND	ND			
Naphthalene Nitrobenzene	1.65	UG/L	ND ND	ND ND	ND ND	ND ND	ND ND
		UG/L UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine N-nitrosodi-n-propylamine		UG/L	ND	ND	ND	ND	ND
N-nitrosodiphenylamine		UG/L	ND	ND	ND	ND	ND
Phenanthrene		UG/L	ND	ND	ND	ND	ND
Pyrene		UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene		UG/L	ND	ND	ND	ND	ND
=======================================			=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	==== 8 96	UG/L	17.4	20.2	13.7	16.5	17.0
=======================================			=====	=====	=====		=====
Benzo[e]pyrene		UG/L	ND	ND	ND	ND	ND
Biphenyl		UG/L	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene		UG/L	ND	ND	ND	ND	ND
1-methylnaphthalene		UG/L	ND	ND	ND	ND	ND
1-methylphenanthrene		UG/L	ND	ND	ND	ND	ND
2-methylnaphthalene		UG/L	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene		UG/L	ND	ND	ND	ND	ND
Perylene		UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT ANNUAL SEWAGE: COMBINED EFFLUENT

Tributyl Tin Analysis

Annual 2010

Source: SB_ITP_COMB_EFF

Analyte	MDL	Units	FEB	MAY	AUG	0CT	Avg
	===	=====	=====	=====	=====	=====	=====
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

ND=not detected NS=not sampled NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT COMBINED OUTFALL Priority Pollutants Purgeable Compounds

ANNUAL 2010

Source: SB_ITP_COMB_EFF EFF

Analyte	MDL	Units	FEB =====	MAY =====	AUG	0CT =====	AVG
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	2.7	5.8	3.0	3.3	3.7
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	5.8	12.9	8.5	9.6	9.2
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	0.8	0.2
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	1.4	ND	ND	ND	0.4
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND
Toluene	.4	UG/L	5.4	17.9	8.9	32.8	16.3
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane Chlorobenzene	.6	UG/L	1.5	ND	ND	ND	0.4
	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene Bromoform	.3 .5	UG/L UG/L	0.7 ND	1.5 ND	0.4 ND	1.1 ND	0.9 ND
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	2.2	3.7	2.7	3.5	3.0
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
=======================================						=====	
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0
						=====	
Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	8.5	18.7	11.5	12.9	12.9
Purgeable Compounds	1.3	UG/L	19.7	41.8	23.5	51.1	34.0
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	1.3	2.7	1.5	4.0	2.4
Acetone	4.5	UG/L	368	486	484	636	494
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	15.3	9.5	6.8	14.5	11.5
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	2.9	0.7
meta,para xylenes	.6	UG/L	2.9	6.0	1.4	4.5	3.7
ortho-xylene	.4	UG/L	1.9	4.0	1.9	7.0	3.7
Isopropylbenzene	.3	UG/L	ND	0.6	1.3	0.9	0.7
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	4.3	1.8	1.5
1,2,4-trichlorobenzene		UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT COMBINED OUTFALL (SB_ITP_COMB_EFF)

Organophosphorus Pesticides

Annual 2010

			04-MAY-2010	05-0CT-2010
Analyte:	MDL	Units	P515511	P533626
	===	=====		
Demeton O	.15	UG/L	ND	ND
Demeton S	.08	UG/L	ND	ND
Diazinon	.03	UG/L	ND	ND
Guthion	.15	UG/L	ND	ND
Malathion	.03	UG/L	ND	0.3
Parathion	.03	UG/L	ND	ND
Dichlorvos	.05	UG/L	0.5	0.4
Dibrom	.2	UG/L	ND	NR
Ethoprop	.04	UG/L	ND	NR
Phorate		UG/L	ND	NR
Sulfotepp	.04	UG/L	ND	NR
Disulfoton	.02	UG/L	ND	ND
Monocrotophos		UG/L	NR	NR
Dimethoate	.04	UG/L	4.0	ND
Ronnel	.03	UG/L	ND	NR
TrichloroNRte	.04	UG/L	ND	NR
Merphos	.09	UG/L	ND	NR
Dichlofenthion	.03	UG/L	ND	NR
Tokuthion	.06	UG/L	ND	NR
Stirophos	.03	UG/L	ND	ND
Bolstar	.07	UG/L	ND	NR
Fensulfothion	.07	UG/L	ND	NR
EPN	.09	UG/L	ND	NR
Coumaphos	.15	UG/L	ND	ND
Mevinphos, e isomer	.05	UG/L	ND	NR
Mevinphos, z isomer	.3	UG/L	ND	NR
Chlorpyrifos	.03	UG/L	ND	ND
	===	=====		
Thiophosphorus Pesticides		UG/L	0.0	0.3
Demeton -O, -S	.15	UG/L	0.0	0.0
Total Organophosphorus Pesticides	.3	UG/L	4.5	0.7

ND=not detected NR=not required

SOUTH BAY WATER RECLAMATION PLANT Annual Sewage Dioxin and Furan Analysis

COMBINED OUTFALL

Annual 2010

				COMB EFF	COMB EFF	COMB EFF	COMB EFF
				FEB	MAY	AUG	ОСТ
Analyte:	MDL	Units	Equiv	P504517	P515511	P525077	P533626
	===	========	=====			=======	======
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

				COMB EFF	COMB EFF	COMB EFF	COMB EFF
				TCCD	TCCD	TCCD	TCCD
				FEB	MAY	AUG	OCT
Analyte:	MDL	Units	Equiv	P504517	P515511	P525077	P533626
	===		=====				
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers. ND= not detected $% \left({{{\rm{CDF}}} \right) = {{\rm{Tot}}} \right)$