

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2008	Feb-2008	Mar-2008	Apr-2008	May-2008	Jun-2008	Jul-2008	Aug-2008	Sep-2008	Oct-2008	Nov-2008	Dec-2008
Conventional/NonConventional (3a)	mg/L												
BOD	mg/L	17.7	23.1	18.5	18.0	19.3	14.4	14.4	11.8	11.0	13.2	14.0	14.3
Total Suspended Solids	mg/L	9	12	7	8	9	6	7	5	5	5	4	5
Oil & Grease	mg/L	< 5	< 5	< 5	5.1	< 5	< 5	5	< 5	< 5	< 5	< 5	< 5
Settleable Solids	ml/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Coliform	MPN/100mL	87,410	77,828	39,845	65,023	79,978	53,714	59,271	57,694	73,510	61,065	57,000	45,675
Fecal Coliform	MPN/100mL	37,500	3,406	21,194	4,840	7,840	3,956	12,160	64,560	38,820	1,754	39,340	1,696
Enterococcus	MPN/100mL	12,400	6,680	4,820	5,040	8,220	4,526	2,434	5,274	1,940	3,774	5,532	4,500
Nitrate-N	mg/L	0.90	0.29	0.33	1.7	0.18	0.73	0.36	0.29	0.25	0.44	0.73	1.50
Nitrite-N	mg/L	0.37	0.65	0.68	0.84	0.51	1	1.2	0.88	1.2	1.1	2.3	2.1
Organic-N	mg/L	5.1	3.2	2.3	2.7	2	2.8	2.2	1.5	1.3	1.3	1.6	1.4
pH		7.3	7.3	7.2	7.2	7.3	7.3	7.3	7.4	7.5	7.5	7.5	7.4
Temp	OC	20	21	22	22	23	24	25	26	25	24	23	21
Turbidity	NTU	6.4	7.5	4.2	5.2	5.4	4.5	4.3	3.3	3	3.1	3.1	3.4
Marine Aquatic Life													
Arsenic (As)	ug/L		2.0			1.0			1.1			1.1	
Cadmium (Cd)	ug/L		<0.2			<0.5			<0.2			<0.5	
Chromium Total (Cr)	ug/L		4			8			5			<5	
Copper (Cu)	ug/L		30			22			12			21	
Lead (Pb)	ug/L		<2.0			<5.0			<2.0			<5.0	
Mercury (Hg)	ug/L		<0.2			<0.2			<0.2			<0.2	
Nickel (Ni)	ug/L		8			<5.0			<5.0			<5.0	
Selenium (Se)	ug/L		4.7						2.1				
Silver (Ag)	ug/L		0.9			1			<0.5			2.3	
Zinc (Zn)	ug/L		35			29			32			36	
Cyanide	ug/L		<5.0			<5.0			<5.0			<5.0	
Residual Chlorine	mg/L	0.023	0.049	0.025	0.036	0.022	0.038	0.048	0.089	0.04	0.036	0.027	0.02
Ammonia-N	mg/L	20	21	18	20	23	23	22	25	25	24	23	21
Acute Toxicity	TUa												
Chronic Toxicity (Survival)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Chronic Toxicity (Growth)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Non-Chlorinated Phenolic Compounds	ug/L		<0.1			<0.1			<0.1			<0.1	
Chlorinated Phenolic Compounds	ug/L		<0.2			<0.2			<0.2			<0.2	
Endosulfan	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	ug/L		<0.001			<0.001			<0.001			<0.001	
HCH	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radioactivity - Alpha	pCi/L		16.8						1.7				
Radioactivity - Beta	pCi/L		45.6						15.5				
Human Health - Noncarcinogens													
Acrolein	ug/L		<5						<5				
Antimony	ug/L		<1						<2				
Bis (2-Chloroethoxy) methane	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis (2-Chloroisopropyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Chlorobenzene	ug/L		<0.5						<0.5				
Chromium III (Cr)	ug/L												
Di-n-Butyl Phthalate	ug/L		0.094			<0.075			<0.075			<0.075	
Dichlorobenzene	ug/L		<0.05			<0.05			<0.05			<0.05	

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Diethyl phthalate	ug/L		<0.05			<0.1			<0.1			<0.1	
Dimethyl phthalate	ug/L		<0.05			<0.05			<0.05			<0.05	
4,6-dinitro-2-methylphenol	ug/L		<0.1			<0.1			<0.1			<0.1	
2,4-dinitrophenol	ug/L		<0.1			<0.1			<0.1			<0.1	
Ethylbenzene	ug/L		<0.5						<0.5				
Fluoranthene	ug/L		<0.001			0.0044			0.039			0.0226	
Hexachlorocyclopentadiene	ug/L		<0.05			<0.05			<0.05			<0.05	
Nitrobenzene	ug/L		<0.05			<0.05			<0.05			<0.05	
Thallium	ug/L		<0.2						<0.2				
Toluene	ug/L		<0.5						<0.5				
Tributyltin	ug/L		<0.002						<0.002				
1,1,1-trichloroethane	ug/L		<0.5						<0.5				
Human Health - Carcinogens													
Acrylonitrile	ug/L		<2			<2			<2			<10	
Aldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	ug/L		<0.5						<0.5				
Benzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
Beryllium (Be)	ug/L		<0.2						<0.1			<0.5	
Bis (2-Chloroethyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis(2-ethylhexyl)-phthalate	ug/L		0.638			35.4			0.16			1.042	
Carbon tetrachloride	ug/L		<0.5						<0.5				
Chlordane	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorodibromomethane	ug/L		<0.5						<0.5				
Chloroform	ug/L		0.5						0.6				
DDT	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	ug/L		<0.5			0.041			0.035			0.03	
3,3'-Dichlorobenzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-dichloroethane	ug/L		<0.5						<0.5				
1,1-dichloroethylene	ug/L		<0.5						<0.5				
Dichlorobromomethane	ug/L		<0.5						<0.5				
Dichloromethane	ug/L		<0.5						<0.5				
1,3-dichloropropene	ug/L		<0.5						<0.5				
Dieldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dinitrotoluene	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-Diphenylhydrazine	ug/L		<0.05			<0.05			<0.05			<0.5	
Halomethanes	ug/L		<1						<1				
Heptachlor	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor epoxide	ug/L		<0.001			<0.001			<0.001			<0.001	
Hexachlorobenzene	ug/L		<0.001			<0.001			<0.001			<0.001	
Hexachlorobutadiene	ug/L		<0.05			<0.05			<0.05			<0.05	
Hexachloroethane	ug/L		<0.05			<0.05			<0.05			<0.05	
Isophorone	ug/L		<0.05			<0.05			0.053			<0.05	
N-Nitrosodimethylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodi-N-propylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodiphenylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
PAH	ug/L		<0.02			<0.03			<0.02			<0.03	
PCBs	ug/L	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)

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			Jan-2008	Feb-2008	Mar-2008	Apr-2008	May-2008	Jun-2008	Jul-2008	Aug-2008	Sep-2008	Oct-2008	Nov-2008	Dec-2008
Constituents	units													
TCDD	pg/L			<1.7			<4.1			<4.5			<0.73	
1,1,2,2-tetrachloroethane	ug/L			<0.5						<0.5				
Tetrachloroethylene	ug/L			<0.5						<0.5				
Toxaphene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethylene	ug/L			<0.5						<0.5				
1,1,2-trichloroethane	ug/L			<0.5						<0.5				
2,4,6-Trichlorophenol	ug/L			<0.1			0.108			0.095			0.062	
Vinyl chloride	ug/L			<0.5						<0.5				

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Constituents	units	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009
Conventional/NonConventional (3a)													
BOD	mg/L	17.1	17.0	16.6	19.1	17.2	18.3	13.7	14.7	16.4	16.8	16.2	17.3
Total Suspended Solids	mg/L	5	6	6	6	6	6	5	4	5	6	5	6
Oil & Grease	mg/L	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5.1
Settleable Solids	ml/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Coliform	MPN/100mL	55,913	80,829	58,226	45,290	69,323	75,593	88,291	69,678	46,267	105,413	43,677	37,381
Fecal Coliform	MPN/100mL	3,800	29,160	1,454	18,720	1,298	15,740	22,160	4,220	4,760	12,000	5,922	2,036
Enterococcus	MPN/100mL	2,240	5,360	4,260	1,494	7,160	4,600	4,440	4,300	4,296	6,220	5,620	1,200
Nitrate-N	mg/L	1.4	0.81	2.9	3.2	0.93	0.65	0.52	0.29	0.75	0.25	0.29	0.65
Nitrite-N	mg/L	1.6	1.80	2.20	2.20	1.40	1.10	0.97	0.80	1.60	0.75	1.40	0.90
Organic-N	mg/L	1.4	<1	1.4	<1	2.6	1.7	<1	<1	<1	1.8	3.6	2.1
pH		7.4	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.5	7.5	7.5	7.4
Temp	OC	21	20	21	22	22	24	24	25	25	24	22	21
Turbidity	NTU	3.6	3.5	3.6	3.4	3.6	3.5	3.2	3.1	3	3.6	3	3.6
Marine Aquatic Life													
Arsenic (As)	ug/L		1.4			1.3			<1			<1	
Cadmium (Cd)	ug/L		<0.5			0.8			<0.5			<0.5	
Chromium Total (Cr)	ug/L		<0.3			<5			<5				
Copper (Cu)	ug/L		14			29			18			14	
Lead (Pb)	ug/L		<5			<5			<5			<5	
Mercury (Hg)	ug/L		<0.2			<0.2			<0.2			<0.2	
Nickel (Ni)	ug/L		6.2			<5			<5			6	
Selenium (Se)	ug/L		2			3			3.2			3.3	
Silver (Ag)	ug/L		0.9			0.6			0.7			0.7	
Zinc (Zn)	ug/L		33			26			28			20	
Cyanide	ug/L		<5			<5			<5				
Residual Chlorine	mg/L	0.01	0.02	0.03	0.02	0.03	0.03	0.03	0.04	0.04	0.02	0.03	0.02
Ammonia-N	mg/L	20	22.5	18	18.9	20.8	19.5	21.1	20.7	21.3	22.7	23.4	22.6
Acute Toxicity	TUa												
Chronic Toxicity (Survival)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Chronic Toxicity (Growth)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Non-Chlorinated Phenolic Compounds	ug/L		<0.1			<0.1			<0.1			<0.1	
Chlorinated Phenolic Compounds	ug/L		<0.3			<0.4			<0.3			<0.4	
Endosulfan	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	ug/L		<0.001			<0.001			<0.001			<0.001	
HCH	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radioactivity - Alpha	pCi/L		2.3						15				
Radioactivity - Beta	pCi/L		46.5						30.7				
Human Health - Noncarcinogens													
Acrolein	ug/L		<20						<4				
Antimony	ug/L		<2			<2			<2			<2	
Bis (2-Chloroethoxy) methane	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis (2-Chloroisopropyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Chlorobenzene	ug/L		<0.5						<2				
Chromium III (Cr)	ug/L												
Di-n-Butyl Phthalate	ug/L		<0.075			<0.075			0.143			0.075	
Dichlorobenzene	ug/L		<0.05			<0.05			<0.05			<0.05	

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Constituents	units	Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009
Diethyl phthalate	ug/L		<0.1			<0.1			<0.025			<0.1	
Dimethyl phthalate	ug/L		<0.05			<0.05			<0.05			<0.05	
4,6-dinitro-2-methylphenol	ug/L		<0.1			<0.1			<0.1			<0.1	
2,4-dinitrophenol	ug/L		<0.1			<0.1			<0.1			<0.01	
Ethylbenzene	ug/L		<0.5						<2				
Fluoranthene	ug/L		0.0025			0.0038			0.0091			0.0042	
Hexachlorocyclopentadiene	ug/L		<0.05			<0.05			<0.05			<0.05	
Nitrobenzene	ug/L		<0.05			<0.05			<0.05			<0.05	
Thallium	ug/L		<2			<2			<2			<2	
Toluene	ug/L		<0.5						<2				
Tributyltin	ug/L		<0.002						<0.001				
1,1,1-trichloroethane	ug/L		<0.5						<2				
Human Health - Carcinogens													
Acrylonitrile	ug/L		<2						<2				
Aldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	ug/L		<0.5						<2				
Benzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
Beryllium (Be)	ug/L		<0.5			<0.5			<0.5			<0.5	
Bis (2-Chloroethyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis(2-ethylhexyl)-phthalate	ug/L		4.4			36.2			9.889			21.56	
Carbon tetrachloride	ug/L		<0.5						<5				
Chlordane	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorodibromomethane	ug/L		<0.5						<2				
Chloroform	ug/L		<0.5						<2				
DDT	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	ug/L		<0.5			<0.01			<2			0.029	
3,3'-Dichlorobenzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-dichloroethane	ug/L		<0.5						<2				
1,1-dichloroethylene	ug/L		<0.5						<5				
Dichlorobromomethane	ug/L		<0.5						<2				
Dichloromethane	ug/L		<0.5						<5				
1,3-dichloropropene	ug/L		<0.5						<2				
Dieldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dinitrotoluene	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-Diphenylhydrazine	ug/L		<0.05			<0.05			<0.05			<0.05	
Halomethanes	ug/L		<2						<10				
Heptachlor	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor epoxide	ug/L		<0.001			<0.01			<0.001			<0.1	
Hexachlorobenzene	ug/L		<0.001			<0.01			<0.001			<0.001	
Hexachlorobutadiene	ug/L		<0.05			<0.05			<0.05			<0.05	
Hexachloroethane	ug/L		<0.05			<0.05			<0.05			<0.05	
Isophorone	ug/L		<0.05			<0.05			0.071			<0.05	
N-Nitrosodimethylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodi-N-propylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodiphenylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
PAH	ug/L		<0.05			<0.05			<0.05			<0.05	
PCBs	ug/L	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)

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			Jan-2009	Feb-2009	Mar-2009	Apr-2009	May-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009
Constituents	units													
TCDD	pg/L			<3.4			<5.2			1.6			<9.5	
1,1,2,2-tetrachloroethane	ug/L			<0.5						<2				
Tetrachloroethylene	ug/L			<0.5						<2				
Toxaphene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethylene	ug/L			<0.5						<2				
1,1,2-trichloroethane	ug/L			<0.5						<2				
2,4,6-Trichlorophenol	ug/L			0.064			0.124			0.063			0.061	
Vinyl chloride	ug/L			<0.5						<5				

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010
Conventional/NonConventional (3a)													
BOD	mg/L	18.3	19.2	18.6	18.0	17.7	19.0	19.9	18.5	15.2	15.2	16.8	16.8
Total Suspended Solids	mg/L	6	7.5	7.5	8	6.5	7.3	8.3	8.6	5.5	5.5	5.7	5.8
Oil & Grease	mg/L	< 5	< 5	5	5.2	5	< 5	5.1	5.1	5.5	5.3	< 5	5.9
Settleable Solids	ml/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Coliform	MPN/100mL	42,626	43,000	65,455	90,333	57,323	76,800	91,226	112,581	73,800	85,323	57,167	39,652
Fecal Coliform	MPN/100mL	5,360	3,888	2,600	3,560	15,340	15,940	13,020	4,380	20,632	39,940	2,360	2,480
Enterococcus	MPN/100mL	2,520	4,660	5,080	4,300	4,080	4,460	5,740	9,500	1,480	4,630	1,430	2,280
Nitrate-N	mg/L	1.50	0.89	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.58	0.53
Nitrite-N	mg/L	0.80	1.10	1.00	1.20	0.55	1.40	0.52	0.38	1.20	0.75	0.81	1.40
Organic-N	mg/L	<0.5	<0.5	2.9	0.7	1.9	2.8	<0.5	<0.5	<0.5	2.3	1.5	1
pH		7.4	7.3	7.4	7.4	7.3	7.4	7.4	7.4	7.3	7.4	7.3	7.3
Temp	OC	20	21	21	22	22	23	24	24	24	24	22	21
Turbidity	NTU	3.9	4.2	4.2	4.8	3.6	4.2	4.5	4.6	3.1	3.4	3.4	2.9
Marine Aquatic Life													
Arsenic (As)	ug/L		1			1.1			<1			1.1	
Cadmium (Cd)	ug/L		<0.5			<0.5			<0.5			<0.5	
Chromium Total (Cr)	ug/L		<5						<1				
Copper (Cu)	ug/L		19			14			16			14	
Lead (Pb)	ug/L		<5			<5			<5			<5	
Mercury (Hg)	ug/L		<0.2			<0.2			<0.2			<0.2	
Nickel (Ni)	ug/L		<5			6			<5			6	
Selenium (Se)	ug/L		4.6			1.2			2.2			1.2	
Silver (Ag)	ug/L		<0.5			0.97			0.35			0.97	
Zinc (Zn)	ug/L		32			15			20			15	
Cyanide	ug/L		<5						<5				
Residual Chlorine	mg/L	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13
Ammonia-N	mg/L	23.6	20	22.3	27.1	23.9	22.2	24.5	23.7	23.1	24	25	21
Acute Toxicity	TUa												
Chronic Toxicity (Survival)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Chronic Toxicity (Growth)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Non-Chlorinated Phenolic Compounds	ug/L		<0.02			<0.02			<0.02			<0.02	
Chlorinated Phenolic Compounds	ug/L		<0.6			<0.1			<0.3			<0.1	
Endosulfan	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Endrin	ug/L		<0.001			<0.001			<0.001			<0.001	
HCH	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radioactivity - Alpha	pCi/L		7.2						7.8				
Radioactivity - Beta	pCi/L		25						21.7				
Human Health - Noncarcinogens													
Acrolein	ug/L		<4						<4				
Antimony	ug/L		<2			<2			<2			<2	
Bis (2-Chloroethoxy) methane	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis (2-Chloroisopropyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Chlorobenzene	ug/L		<0.36						<2				
Chromium III (Cr)	ug/L		<5			2.2			<5			2.2	
Di-n-Butyl Phthalate	ug/L		0.113			0.19			0.113			0.129	
Dichlorobenzene	ug/L		<0.03			<0.03			<0.03			<0.03	

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010
Diethyl phthalate	ug/L		<0.1			<0.1			<0.11			<0.1	
Dimethyl phthalate	ug/L		<0.05			0.061			<0.055			0.0647	
4,6-dinitro-2-methylphenol	ug/L		<0.1			<0.1			<0.11			<0.1	
2,4-dinitrophenol	ug/L		<0.1			0.142			0.125			<0.1	
Ethylbenzene	ug/L		<0.25						<2				
Fluoranthene	ug/L		0.013			0.032			0.0187			0.0036	
Hexachlorocyclopentadiene	ug/L		<0.05			<0.05			<0.05			<0.001	
Nitrobenzene	ug/L		<0.05			<0.05			<0.05			<0.05	
Thallium	ug/L		<2			<2			<2			<2	
Toluene	ug/L		<0.36						<2				
Tributyltin	ug/L		<0.001						<0.002				
1,1,1-trichloroethane	ug/L		<0.3						<2				
Human Health - Carcinogens													
Acrylonitrile	ug/L		<1.2						<2				
Aldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Benzene	ug/L		<0.28						<2				
Benzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
Beryllium (Be)	ug/L		<0.5			<0.5			<0.5			<0.5	
Bis (2-Chloroethyl) ether	ug/L		<0.05			<0.05			<0.05			<0.05	
Bis(2-ethylhexyl)-phthalate	ug/L		86.081			9.8			8.4			42.4	
Carbon tetrachloride	ug/L		<0.28						<5				
Chlordane	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chlorodibromomethane	ug/L		0.61						<2				
Chloroform	ug/L		1.2						<2				
DDT	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-Dichlorobenzene	ug/L		0.026			<0.01			0.024			0.0178	
3,3'-Dichlorobenzidine	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-dichloroethane	ug/L		<0.28						<2				
1,1-dichloroethylene	ug/L		<0.42						<5				
Dichlorobromomethane	ug/L		<0.3						<2				
Dichloromethane	ug/L		<0.95						<5				
1,3-dichloropropene	ug/L		<0.22						<2				
Dieldrin	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2,4-Dinitrotoluene	ug/L		<0.05			<0.05			<0.05			<0.05	
1,2-Diphenylhydrazine	ug/L		<0.05			<0.05			<0.05			<0.05	
Halomethanes	ug/L		<2						<0.05				
Heptachlor	ug/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Heptachlor epoxide	ug/L		<0.001			<0.001			<0.001			<0.001	
Hexachlorobenzene	ug/L		<0.001			<0.001			<0.001			0.001	
Hexachlorobutadiene	ug/L		<0.05			<0.05			<0.05			<0.05	
Hexachloroethane	ug/L		<0.05			<0.05			<0.05			<0.05	
Isophorone	ug/L		<0.05			<0.05			0.102			<0.05	
N-Nitrosodimethylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodi-N-propylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
N-Nitrosodiphenylamine	ug/L		<0.05			<0.05			<0.05			<0.05	
PAH	ug/L		<0.05			<0.1			<0.05			<0.05	
PCBs	ug/L	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

			Jan-2010	Feb-2010	Mar-2010	Apr-2010	May-2010	Jun-2010	Jul-2010	Aug-2010	Sep-2010	Oct-2010	Nov-2010	Dec-2010
Constituents	units													
TCDD	pg/L			<9.4			<11			<11			<10	
1,1,2,2-tetrachloroethane	ug/L			<0.3						<2				
Tetrachloroethylene	ug/L			<0.32						<2				
Toxaphene	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethylene	ug/L			<0.26						<2				
1,1,2-trichloroethane	ug/L			<0.3						<2				
2,4,6-Trichlorophenol	ug/L			0.352			0.061			0.222			0.0637	
Vinyl chloride	ug/L			<0.4						<5				

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011	Oct-2011	Nov-2011	Dec-2011
Conventional/NonConventional (3a)	mg/L												
BOD	mg/L	18.8	19.8	18.5	17.4	18.7	15.8	15.2	15.4	18.7	13.9	15.9	17.0
Total Suspended Solids	mg/L	6	6	6	6	7	7	6	6	5	5	7	5
Oil & Grease	mg/L	5.4	5.5	6.8	6	< 5	5	< 5	< 5	< 5	< 5	< 5	5
Settleable Solids	ml/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Coliform	MPN/100mL	33,581	67,143	90,774	78,067	106,678	115,500	115,000	88,323	112,400	93,961	106,067	124,162
Fecal Coliform	MPN/100mL	2,258	1,560	40,000	9,480	97,440	56,000	42,400	44,000	52,760	25,880	83,940	45,000
Enterococcus	MPN/100mL	1,440	4,858	6,760	5,260	10,520	6,680	6,540	7,300	8,000	3,238	10,600	8,480
Nitrate-N	mg/L	0.67	1.1	<0.5	0.9	0.7	0.57	<0.5	1.8	0.63	0.7	3.4	0.63
Nitrite-N	mg/L	1.10	1.90	0.89	1.10	1.00	0.26	0.35	0.94	0.46	0.58	0.40	1.00
Organic-N	mg/L	0.6	0.8	<0.5	1.3	0.9	0.7	3.5	1.4	2.1	3	1.8	0.6
pH		7.3	7.3	7.2	7.2	7.2	7.3	7.3	7.2	7.2	7.3	7.3	7.3
Temp	OC	21	21	22	23	23	24	25	25	25	24	23	21
Turbidity	NTU	3.1	3.8	3.6	3.7	4	4.5	3.7	3.6	3.3	3	3.6	3.1
Marine Aquatic Life													
Arsenic (As)	ug/L		<1.0			<1.0			<1.0			1.1	
Cadmium (Cd)	ug/L		<0.5			<0.5			<0.5			<0.5	
Chromium Total (Cr)	ug/L		<1			<1			<1				
Copper (Cu)	ug/L		16			24			17			23	
Lead (Pb)	ug/L		<5			<5			<5			<5	
Mercury (Hg)	ug/L		<0.2			<0.2			<0.2			<0.2	
Nickel (Ni)	ug/L		<5			6			<5			7	
Selenium (Se)	ug/L		3.1			4			4.6			2.3	
Silver (Ag)	ug/L		<0.5			0.6			<0.5			<0.5	
Zinc (Zn)	ug/L		28			18			25			17	
Cyanide	ug/L					<5						<5	
Residual Chlorine	mg/L	0.023	0.017	0.017	0.017	0.016	0.011	0.007	0.012	0.014	0.023	0.035	0.027
Ammonia-N	mg/L	23.9	25	24.7	23.3	24.4	22.8	24.7	26.7	28.2	29.7	31.6	28.5
Acute Toxicity	TUa												
Chronic Toxicity (Survival)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86		17.86	17.86
Chronic Toxicity (Growth)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Non-Chlorinated Phenolic Compounds	ug/L		<10			<20			<10			<20	
Chlorinated Phenolic Compounds	ug/L		<20			<20			<20			<20	
Endosulfan	ug/L	<0.005	<0.01	<0.003	<0.003	<0.01	<0.003	<0.003	<0.0029	<0.0029	<0.003	<0.01	<0.003
Endrin	ug/L		<0.005			<0.005			<0.002			<0.005	
HCH	ug/L	<0.005	<0.01	<0.003	<0.003	<0.01	<0.003	<0.003	<0.0039	<0.003	<0.004	<0.01	<0.004
Radioactivity - Alpha	pCi/L		3.1						8.4				
Radioactivity - Beta	pCi/L		12.2						9.6				
Human Health - Noncarcinogens													
Acrolein	ug/L		<4						<4				
Antimony	ug/L		<2			<2			<2			<2	
Bis (2-Chloroethoxy) methane	ug/L		<10			<10			<2.9			<10	
Bis (2-Chloroisopropyl) ether	ug/L		<10			<10			<2.4			<10	
Chlorobenzene	ug/L		<2						<0.36				
Chromium III (Cr)	ug/L		6			7			<5			<5	
Di-n-Butyl Phthalate	ug/L		<20			<20			<2.9			<20	
Dichlorobenzene	ug/L		<10			<10			<3			<10	

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011	Oct-2011	Nov-2011	Dec-2011
Diethyl phthalate	ug/L		<10			<10			<3.4			<10	
Dimethyl phthalate	ug/L		<10			<10			<2.4			<10	
4,6-dinitro-2-methylphenol	ug/L		<20			<20			<3.8			<20	
2,4-dinitrophenol	ug/L		<20			<20			<7.7			<10	
Ethylbenzene	ug/L		<2						<0.25				
Fluoranthene	ug/L		<10			<10			<2.9			<10	
Hexachlorocyclopentadiene	ug/L		<10			<10			<4.8			<10	
Nitrobenzene	ug/L		<20			<20			<2.9			<20	
Thallium	ug/L		<2			<2			<2			<2	
Toluene	ug/L		<2						<0.36				
Tributyltin	ug/L		<0.002						<0.002				
1,1,1-trichloroethane	ug/L		<2						<0.3				
Human Health - Carcinogens													
Acrylonitrile	ug/L		<2						<1.2				
Aldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	ug/L		<2						<0.28				
Benzidine	ug/L		<20			<20			<9.6			<20	
Beryllium (Be)	ug/L		<0.5			<0.5			<0.5			<0.5	
Bis (2-Chloroethyl) ether	ug/L		<10			<10			<2.9			<10	
Bis(2-ethylhexyl)-phthalate	ug/L		<5			16			<5			13	
Carbon tetrachloride	ug/L		<5						<0.28				
Chlordane	ug/L	<0.1	<0.08	<0.1	<0.2	<0.1	<0.1	<0.1	<0.08	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	ug/L		<2						<0.4				
Chloroform	ug/L		<2						0.86				
DDT	ug/L	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	0.0086	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	ug/L		<2			<10			<2.4			<10	
3,3'-Dichlorobenzidine	ug/L		<20			<20			<7.2			<20	
1,2-dichloroethane	ug/L		<2						<0.28				
1,1-dichloroethylene	ug/L		<2						<0.42				
Dichlorobromomethane	ug/L		<2						<0.3				
Dichloromethane	ug/L		<5						<0.95				
1,3-dichloropropene	ug/L		<2						<0.32				
Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrotoluene	ug/L		<10			<10			<3.4			<10	
1,2-Diphenylhydrazine	ug/L		<20			<20			<2.4			<20	
Halomethanes	ug/L		<5						<1				
Heptachlor	ug/L	<0.005	<0.01	<0.003	<0.003	<0.01	<0.003	<0.003	<0.0029	<0.0029	<0.003	<0.01	<0.003
Heptachlor epoxide	ug/L		<0.005			<0.005			<0.0025			<0.005	
Hexachlorobenzene	ug/L		<10			<10			<2.9			<10	
Hexachlorobutadiene	ug/L		<10			<10			<3.8			<10	
Hexachloroethane	ug/L		<10			<10			<3.4			<10	
Isophorone	ug/L		<10			<10			<2.9			<10	
N-Nitrosodimethylamine	ug/L		<20			<20			<2.4			<20	
N-Nitrosodi-N-propylamine	ug/L		<10			<10			<3.4			<10	
N-Nitrosodiphenylamine	ug/L		<10			<10			<1.9			<10	
PAH	ug/L		<20			<20			<20			<20	
PCBs	ug/L	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.25	<0.5	<0.5	<0.5	<0.5

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

			Jan-2011	Feb-2011	Mar-2011	Apr-2011	May-2011	Jun-2011	Jul-2011	Aug-2011	Sep-2011	Oct-2011	Nov-2011	Dec-2011
Constituents	units													
TCDD	pg/L			<9.8			<9.6			<9.8			<10	
1,1,2,2-tetrachloroethane	ug/L			<2						<0.3				
Tetrachloroethylene	ug/L			<2						<0.36				
Toxaphene	ug/L	<0.5	<0.25	<0.5	<0.5	<0.5	<0.05	<0.05	<0.25	<0.05	<0.05	<0.5	<0.05	
Trichloroethylene	ug/L		<5						<0.26					
1,1,2-trichloroethane	ug/L		<2						<0.3					
2,4,6-Trichlorophenol	ug/L		<20				<20		<4.3			<20		
Vinyl chloride	ug/L		<1						<0.4					

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012
Conventional/NonConventional (3a)	mg/L												
BOD	mg/L	18.5	16.0	13.3	17.2	16.4	16.7	16.2	16.8	14.8	16.0	19.2	16
Total Suspended Solids	mg/L	6	5	5	8	9	11	7	7	6	6	7	6
Oil & Grease	mg/L	< 5	< 5	5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	<5
Settleable Solids	ml/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1
Total Coliform	MPN/100mL	136,420	57,690	66,774	125,600	> 160,000	87,760	99,510	100,258	97,594	93,484	115,167	65752
Fecal Coliform	MPN/100mL	86,400	11,360	5,320	118,800	98,000	43,200	49,460	22,600	21,180	76,950	9,640	4566
Enterococcus	MPN/100mL	7,480	5,680	7,620	> 16,000	9,280	3,974	8,000	8,860	1,320	8,620	4,760	2180
Nitrate-N	mg/L	0.6	1.4	0.6	2.4	<0.50	<0.50	<0.50	<0.50	0.59	<0.50	<0.50	<0.5
Nitrite-N	mg/L	2.4	0.83	1.5	1.9	0.49	0.38	0.38	0.57	0.62	0.66	0.88	0.96
Organic-N	mg/L	<0.5	<0.5	<0.5	2.1	2.2	1.8	1.1	0.5	<0.5	<0.5	1.4	1.7
pH		7.3	7.3	7.4	7.4	7.4	7.5	7.4	7.3	7.3	7.3	7.3	7.1
Temp	OC	22	22	22	22	24	24	25	26	26	26	24	24
Turbidity	NTU	3.5	3	3	4.1	5	7.6	4.7	4.6	3.8	3.9	4	3.6
Marine Aquatic Life													
Arsenic (As)	ug/L		0.6			0.7			0.81			1.0	
Cadmium (Cd)	ug/L		<0.5			<0.5			<0.5			<0.5	
Chromium Total (Cr)	ug/L		<1						<1				
Copper (Cu)	ug/L		20			16			17			16	
Lead (Pb)	ug/L		<5			<5			<5			<5	
Mercury (Hg)	ug/L		<0.2			<0.2			<0.2			<0.2	
Nickel (Ni)	ug/L		<5			<5			<5			<5	
Selenium (Se)	ug/L		1.0			2.0			1.6			1.2	
Silver (Ag)	ug/L		0.48			<0.2			0.43			<0.5	
Zinc (Zn)	ug/L		22			17			13			22	
Cyanide	ug/L					<5						<5	
Residual Chlorine	mg/L	0.02	0.01	0.01	0.02	0.02	0.07	0.02	0.02	0.02	0.01	0.02	0.02
Ammonia-N	mg/L	30	30.3	23.9	26.6	25.5	27.7	30.3	29.2	25	26.6	31.7	31.3
Acute Toxicity	TUa												
Chronic Toxicity (Survival)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Chronic Toxicity (Growth)	TUc	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
Non-Chlorinated Phenolic Compounds	ug/L		<5			<40			<20			<20	
Chlorinated Phenolic Compounds	ug/L		<5			<40			<20			<20	
Endosulfan	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endrin	ug/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
HCH	ug/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Radioactivity - Alpha	pCi/L		3.91						7.81				
Radioactivity - Beta	pCi/L		21.8						13.8				
Human Health - Noncarcinogens													
Acrolein	ug/L		<5						<5				
Antimony	ug/L		<2			<2			<2			<2	
Bis (2-Chloroethoxy) methane	ug/L		<0.5			<20			<10			<10	
Bis (2-Chloroisopropyl) ether	ug/L		<0.5			<20			<10			<10	
Chlorobenzene	ug/L		<0.5						<0.5				
Chromium III (Cr)	ug/L		<5			<5			<5			<5	
Di-n-Butyl Phthalate	ug/L		<2			<40			<20			<20	
Dichlorobenzene	ug/L		<0.5			<20			<10			<10	

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012
Diethyl phthalate	ug/L		<1			<20			<10			<10	
Dimethyl phthalate	ug/L		<0.5			<20			<10			<10	
4,6-dinitro-2-methylphenol	ug/L		<5			<40			<20			<20	
2,4-dinitrophenol	ug/L		<5			<40			<20			<20	
Ethylbenzene	ug/L		<0.5						<0.5				
Fluoranthene	ug/L		<0.5			<20			<10			<10	
Hexachlorocyclopentadiene	ug/L		<5			<20			<10			<10	
Nitrobenzene	ug/L		<1			<40			<20			<20	
Thallium	ug/L		<2			<2			<2			<2	
Toluene	ug/L		<0.5						<0.5				
Tributyltin	ug/L		<0.002						<0.002				
1,1,1-trichloroethane	ug/L		<0.5						<0.5				
Human Health - Carcinogens													
Acrylonitrile	ug/L		<2						<2				
Aldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Benzene	ug/L		<2						<2				
Benzidine	ug/L		<5			<40			<20			<20	
Beryllium (Be)	ug/L		<0.5			<0.5			<0.5			<0.5	
Bis (2-Chloroethyl) ether	ug/L		<0.5			<20			<10			<10	
Bis(2-ethylhexyl)-phthalate	ug/L		<5			<200			<50			<50	
Carbon tetrachloride	ug/L		<0.5						<0.5				
Chlordane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorodibromomethane	ug/L		<0.5						<0.5				
Chloroform	ug/L		1.0						0.58				
DDT	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	ug/L		<0.5			<20			<10			<10	
3,3'-Dichlorobenzidine	ug/L		<5			<40			<20			<20	
1,2-dichloroethane	ug/L		<0.5						<0.5				
1,1-dichloroethylene	ug/L		<0.5						<0.5				
Dichlorobromomethane	ug/L		<0.5						<0.5				
Dichloromethane	ug/L		<1						<0.5				
1,3-dichloropropene	ug/L		<0.5						<0.5				
Dieldrin	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2,4-Dinitrotoluene	ug/L		<5						<10				
1,2-Diphenylhydrazine	ug/L		<1			<40			<20			<20	
Halomethanes	ug/L		<0.5						<0.5				
Heptachlor	ug/L		<0.01			<0.01			<0.01			<0.01	
Heptachlor epoxide	ug/L		<0.005			<0.005			<0.005			<0.005	
Hexachlorobenzene	ug/L		<1			<20			<10			<10	
Hexachlorobutadiene	ug/L		<2			<20			<10			<10	
Hexachloroethane	ug/L		<3			<20			<10			<10	
Isophorone	ug/L		<1			<20			<10			<10	
N-Nitrosodimethylamine	ug/L		<2			<40			<20			<20	
N-Nitrosodi-N-propylamine	ug/L		<2			<20			<10			<10	
N-Nitrosodiphenylamine	ug/L		<1			<20			<10			<10	
PAH	ug/L		<20			<20			<20			<20	
PCBs	ug/L	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)	NODI(B)

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

			Jan-2012	Feb-2012	Mar-2012	Apr-2012	May-2012	Jun-2012	Jul-2012	Aug-2012	Sep-2012	Oct-2012	Nov-2012	Dec-2012
Constituents	units													
TCDD	pg/L			<10			<10			<10			<11	
1,1,2,2-tetrachloroethane	ug/L			<0.5						<0.5				
Tetrachloroethylene	ug/L			<0.5						<0.5				
Toxaphene	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	ug/L			<0.5						<0.5				
1,1,2-trichloroethane	ug/L			<0.5						<0.5				
2,4,6-Trichlorophenol	ug/L			<1			<40			<20			<20	
Vinyl chloride	ug/L			<0.5						<0.5				

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	RP to Exceed WQO	% of Data Detected < 20%	ML	Procedure 2: If % of Data Detected < 20%, then PG=ML * 5	MEC	Co=UCB95/95	Dm	Co	Cs	PG UCB95/95	Is MEC<PG UCB95/95?
Conventional/NonConventional (3a)	mg/L											
BOD	mg/L					23.137931						
Total Suspended Solids	mg/L					12						
Oil & Grease	mg/L					6.8						
Settleable Solids	ml/L					0						
Total Coliform	MPN/100mL					136420						
Fecal Coliform	MPN/100mL					118800						
Enterococcus	MPN/100mL					12400						
Nitrate-N	mg/L					3.4						
Nitrite-N	mg/L					2.4						
Organic-N	mg/L					5.1						
pH						7.5						
Temp	OC					26						
Turbidity	NTU					7.6						
Marine Aquatic Life												
Arsenic (As)	ug/L	No	No	2		2	3	98	3	3	3	Yes
Cadmium (Cd)	ug/L	No	Yes	0.2	1	0.8				0	0	
Chromium Total (Cr)	ug/L	No	No	5		8	0.12	98	0.12	0	11.88	Yes
Copper (Cu)	ug/L	No	No	0.5		30	2.29	98	2.29	2	30.71	Yes
Lead (Pb)	ug/L	No	Yes	0.5	2.5	<2		98				
Mercury (Hg)	ug/L	No	Yes	0.5	2.5	0		98		0.0005		
Nickel (Ni)	ug/L	No	No	1		8	0.087	98	0.087	0	8.613	Yes
Selenium (Se)	ug/L	No	No	2		4.7	0.082	98	0.082	0	8.118	Yes
Silver (Ag)	ug/L	No	No	0.2		2.3	0.178	98	0.178	0.16	1.942	No
Zinc (Zn)	ug/L	No	No	1		36	8.34	98	8.34	8	41.66	Yes
Cyanide	ug/L	inconclusive	Yes	5	25	0						
Residual Chlorine	mg/L	No	No			0.13	1.13	98	1.13	0	111.87	Yes
Ammonia-N	mg/L	No	No			31.7	317.6	98	317.6	0	31442.4	Yes
Acute Toxicity	TUa	NA				0						
Chronic Toxicity (Survival)	TUc	No	No			17.86	0.284	98	0.284	0	28.116	No
Chronic Toxicity (Growth)	TUc	No	No			17.86	0.18	98	0.18	0	17.82	No
Non-Chlorinated Phenolic Compounds	ug/L	No	Yes	1	5	0		98		0		
Chlorinated Phenolic Compounds	ug/L	No	Yes			0		98		0		
Endosulfan	ug/L	No	Yes	0.01	0.05							
Endrin	ug/L	No	Yes	0.01	0.05							
HCH	ug/L	No	Yes	0.02	0.1							
Radioactivity - Alpha	pCi/L	No	No			16.8	0.549	98	0.549	0	54.351	Yes
Radioactivity - Beta	pCi/L	No	No			46.5	1.024	98	1.024	0	101.376	Yes
Human Health - Noncarcinogens												
Acrolein	ug/L	No	Yes	2	10							
Antimony	ug/L	No	Yes	0.5	2.5							
Bis (2-Chloroethoxy) methane	ug/L	No	Yes	5	25							
Bis (2-Chloroisopropyl) ether	ug/L	No	Yes	2	10							
Chlorobenzene	ug/L	No	Yes	0.5	2.5							
Chromium III (Cr)	ug/L	No										
Di-n-Butyl Phthalate	ug/L	No	No	10		0.19	0.0023	98	0.0023	0	0.2277	Yes
Dichlorobenzene	ug/L	No	Yes	0.5	2.5							

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Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	RP to Exceed WQO	% of Data Detected < 20%	ML	Procedure 2: If % of Data Detected < 20%, then PG=ML * 5	MEC	Co=UCB95/95	Dm	Co	Cs	PG UCB95/95	Is MEC<PG UCB95/95?
Diethyl phthalate	ug/L	No	Yes	2	10			98		0		
Dimethyl phthalate	ug/L	No	Yes	2	10	0.0647						
4,6-dinitro-2-methylphenol	ug/L	No	Yes	5	25							
2,4-dinitrophenol	ug/L	No	Yes	5	25	0.142						
Ethylbenzene	ug/L	inconclusive	Yes	0.5	2.5							
Fluoranthene	ug/L	No	No	0.05		0.039	0.0006	98	0.0006	0	0.0594	Yes
Hexachlorocyclopentadiene	ug/L	No	Yes	5	25							
Nitrobenzene	ug/L	No	Yes	1	5							
Thallium	ug/L	No	Yes	1	5							
Toluene	ug/L	inconclusive	Yes	0.5	2.5							
Tributyltin	ug/L	inconclusive	Yes			0						
1,1,1-trichloroethane	ug/L	inconclusive	Yes	0.5	2.5							
Human Health - Carcinogens												
Acrylonitrile	ug/L	inconclusive	Yes	2	10							
Aldrin	ug/L	No	Yes	0.005	0.025							
Benzene	ug/L	inconclusive	Yes	0.5	2.5							
Benzidine	ug/L	inconclusive	Yes	5	25							
Beryllium (Be)	ug/L	No	Yes	0.5	2.5							
Bis (2-Chloroethyl) ether	ug/L	inconclusive	Yes	1	5							
Bis(2-ethylhexyl)-phthalate	ug/L	No	No	5		86.081	1.07	98	1.07	0	105.93	Yes
Carbon tetrachloride	ug/L	inconclusive	Yes	0.5	2.5							
Chlordane	ug/L	No	Yes	0.1	0.5							
Chlorodibromomethane	ug/L	inconclusive	Yes	0.5	2.5	0.61						
Chloroform	ug/L	No	No	0.5		1.2	0.0201	98	0.0201	0	1.9899	Yes
DDT	ug/L	No	Yes	0.05	0.25							
1,4-Dichlorobenzene	ug/L	No	No	0.5		0.041	0.0005	98	0.0005	0	0.0495	Yes
3,3'-Dichlorobenzidine	ug/L	inconclusive	Yes	5	25							
1,2-dichloroethane	ug/L	inconclusive	Yes	0.5	2.5							
1,1-dichloroethylene	ug/L	inconclusive	Yes	0.5	2.5							
Dichlorobromomethane	ug/L	inconclusive	Yes	0.5	2.5							
Dichloromethane	ug/L	inconclusive	Yes	0.5	2.5							
1,3-dichloropropene	ug/L	inconclusive	Yes	0.5	2.5							
Dieldrin	ug/L	No	Yes	0.01	0.05							
2,4-Dinitrotoluene	ug/L	No	Yes	5	25							
1,2-Diphenylhydrazine	ug/L	inconclusive	Yes	1	5							
Halomethanes	ug/L	inconclusive	Yes									
Heptachlor	ug/L	No	Yes	0.01	0.05							
Heptachlor epoxide	ug/L	inconclusive	Yes	0.01	0.05							
Hexachlorobenzene	ug/L	inconclusive	Yes	1	5							
Hexachlorobutadiene	ug/L	No	Yes	1	5							
Hexachloroethane	ug/L	No	Yes	1	5							
Isophorone	ug/L	No	Yes	1	5							
N-Nitrosodimethylamine	ug/L	No	Yes	5	25							
N-Nitrosodi-N-propylamine	ug/L	No	Yes	5	25							
N-Nitrosodiphenylamine	ug/L	No	Yes	1	5							
PAH	ug/L	inconclusive	Yes									
PCBs	ug/L	inconclusive	Yes									

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Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	RP to Exceed WQO	% of Data Detected < 20%	ML	Procedure 2: If % of Data Detected < 20%, then PG=ML * 5	MEC	Co=UCB95/95	Dm	Co	Cs	PG UCB95/95	Is MEC<PG UCB95/95?
TCDD	pg/L	Yes				0.0000016	0.000000017	98	1.7E-08	0	0.000001683	
1,1,2,2-tetrachloroethane	ug/L	inconclusive	Yes	0.5	2.5							
Tetrachloroethylene	ug/L	inconclusive	Yes	0.5	2.5							
Toxaphene	ug/L	No	Yes	0.5	2.5							
Trichloroethylene	ug/L	inconclusive	Yes	0.5	2.5							
1,1,2-trichloroethane	ug/L	inconclusive	Yes	0.5	2.5							
2,4,6-Trichlorophenol	ug/L	No	No			0.352	0.0038	98	0.0038	0	0.3762	Yes
Vinyl chloride	ug/L	inconclusive	Yes	0.5	2.5							

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Procedure 1: If MEC<PG UCB95/95, then select MEC as PG	Procedure 1: If MEC>PG UCB95/95, then select PG	Final PG	Previous PG	Comment
Conventional/NonConventional (3a)	mg/L					
BOD	mg/L					
Total Suspended Solids	mg/L					
Oil & Grease	mg/L					
Settleable Solids	ml/L					
Total Coliform	MPN/100mL					
Fecal Coliform	MPN/100mL					
Enterococcus	MPN/100mL					
Nitrate-N	mg/L					
Nitrite-N	mg/L					
Organic-N	mg/L					
pH						
Temp	OC					
Turbidity	NTU					
Marine Aquatic Life						
Arsenic (As)	ug/L	2		2	7.4	more stringent
Cadmium (Cd)	ug/L			1	1	no change
Chromium Total (Cr)	ug/L	8		8	8	no change
Copper (Cu)	ug/L	30		30	32	more stringent
Lead (Pb)	ug/L			23	23	no change, all data ND. Carryover PG
Mercury (Hg)	ug/L			0.3	0.3	no change, all data ND. Carryover PG
Nickel (Ni)	ug/L	8		8	19	more stringent
Selenium (Se)	ug/L	4.7		4.7	4.9	more stringent
Silver (Ag)	ug/L		1.9	1.9	1	less stringent, more detected data available
Zinc (Zn)	ug/L	36		36	38	more stringent
Cyanide	ug/L			25	25	no change, carryover
Residual Chlorine	mg/L	0.13		0.13	0.1	set to MEC
Ammonia-N	mg/L	32		32	26	set to MEC
Acute Toxicity	TUa					
Chronic Toxicity (Survival)	TUc	28.116				
Chronic Toxicity (Growth)	TUc		18	18	18	no change
Non-Chlorinated Phenolic Compounds	ug/L			5	5	no change, carryover
Chlorinated Phenolic Compounds	ug/L		0.416	0.42	0.42	no change, carryover
Endosulfan	ug/L			0.05	0.05	no change
Endrin	ug/L			0.05	0.05	no change
HCH	ug/L			0.1	0.1	no change
Radioactivity - Alpha	pCi/L	16.8		15	15	limit carryover
Radioactivity - Beta	pCi/L	46.5		50	50	limit carryover
Human Health - Noncarcinogens						
Acrolein	ug/L			10	10	no change
Antimony	ug/L			2.5	2.5	no change
Bis (2-Chloroethoxy) methane	ug/L			25	25	no change
Bis (2-Chloroisopropyl) ether	ug/L			10	10	no change
Chlorobenzene	ug/L			2.5	2.5	no change
Chromium III (Cr)	ug/L			8	8	carryover
Di-n-Butyl Phthalate	ug/L	0.19		0.19	0.33	more stringent, new information
Dichlorobenzene	ug/L			2.5	2.5	no change

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Procedure 1: If MEC<PG UCB95/95, then select MEC as PG	Procedure 1: If MEC>PG UCB95/95, then select PG	Final PG	Previous PG	Comment
Diethyl phthalate	ug/L			10	0.25	less stringent, all NDs
Dimethyl phthalate	ug/L			10	10	no change
4,6-dinitro-2-methylphenol	ug/L			25	25	no change
2,4-dinitrophenol	ug/L			25	25	no change
Ethylbenzene	ug/L			2.5	2.5	no change
Fluoranthene	ug/L	0.039		0.039	0.25	more stringent, new information
Hexachlorocyclopentadiene	ug/L			25	25	no change
Nitrobenzene	ug/L			5	5	no change
Thallium	ug/L			5	5	no change
Toluene	ug/L			2.5	0.6	less stringent, all NDs
Tributyltin	ug/L			0.0263	0.0263	no change, carryover
1,1,1-trichloroethane	ug/L			2.5	2.5	no change
Human Health - Carcinogens						
Acrylonitrile	ug/L			10	10	no change
Aldrin	ug/L			0.025	0.025	no change
Benzene	ug/L			2.5	2.5	no change
Benzidine	ug/L			0.0068	0.0068	Limits will be carried over, inconclusive RP
Beryllium (Be)	ug/L			2.5	2.5	no change
Bis (2-Chloroethyl) ether	ug/L			5	5	no change
Bis(2-ethylhexyl)-phthalate	ug/L	86		50	2	Revert to previous PG per Discharger's request
Carbon tetrachloride	ug/L			2.5	2.5	no change
Chlordane	ug/L			0.5	0.5	no change
Chlorodibromomethane	ug/L			0.61	1.3	more stringent, new information, set to MEC
Chloroform	ug/L	1.2		1.2	1.4	more stringent, new information
DDT	ug/L			0.25	0.25	no change
1,4-Dichlorobenzene	ug/L	0.041		0.041	3	more stringent, new information
3,3'-Dichlorobenzidine	ug/L			25	25	no change
1,2-dichloroethane	ug/L			2.5	2.5	no change
1,1-dichloroethylene	ug/L			2.5	2.5	no change
Dichlorobromomethane	ug/L			2.5	2.5	no change
Dichloromethane	ug/L			2.5	2.5	no change
1,3-dichloropropene	ug/L			2.5	2.5	no change
Dieldrin	ug/L			0.05	0.05	no change
2,4-Dinitrotoluene	ug/L			25	25	no change
1,2-Diphenylhydrazine	ug/L			5	5	no change
Halomethanes	ug/L			4.4	4.4	no change, carryover previous PG
Heptachlor	ug/L			0.05	0.05	no change
Heptachlor epoxide	ug/L			0.002	0.002	carryover effluent limits
Hexachlorobenzene	ug/L			5	5	no change
Hexachlorobutadiene	ug/L			5	5	no change
Hexachloroethane	ug/L			5	5	no change
Isophorone	ug/L			5	5	no change
N-Nitrosodimethylamine	ug/L			25	25	no change
N-Nitrosodi-N-propylamine	ug/L			25	25	no change
N-Nitrosodiphenylamine	ug/L			5	5	no change
PAH	ug/L			0.1	0.1	no change, carryover previous PG
PCBs	ug/L			0.0019	0.0019	carryover effluent limits

Attachment K
Derivations of Reasonable Potential Analyses and Performance Goals
Oxnard Wastewater Treatment Plant
(CA0054097, CI-2022)

Constituents	units	Procedure 1: If MEC<PG UCB95/95, then select MEC as PG	Procedure 1: If MEC>PG UCB95/95, then select PG	Final PG	Previous PG	Comment
TCDD	pg/L			0.00000039	0.00000039	carryover effluent limits
1,1,2,2-tetrachloroethane	ug/L			2.5	2.5	no change
Tetrachloroethylene	ug/L			2.5	2.5	no change
Toxaphene	ug/L			2.5	2.5	no change
Trichloroethylene	ug/L			2.5	2.5	no change
1,1,2-trichloroethane	ug/L			2.5	2.5	no change
2,4,6-Trichlorophenol	ug/L	0.35		0.35	50	more stringent, new information
Vinyl chloride	ug/L			2.5	2.5	no change