

Attachment J  
Reasonable Potential Analysis and Effluent Limitations  
Paramount Petroleum Corporation, Paramount Refinery (CA0056065), Discharge Point No. 001

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)						Lowest C or WLAs	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?	Are all B data points non-detects (Y/N)?
					Freshwater		Saltwater		Human Health for consumption of:						
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only					
1	Antimony	ug/L		2						4300.00	4300.00	No	No	N	
2	Arsenic	ug/L		0.2	340.00	150.00					150.00	No	No	N	
3	Beryllium	ug/L		No Criteria								No Criteria	No Criteria	N	
4	Cadmium	ug/L		0.1	1.03	0.88				Narrative	No Criteria	No	No	N	
5a	Chromium (III)				594.24	70.83				Narrative	0.88	No	No	N	
5b	Chromium (VI)	ug/L	0.6	0.2	16.00	11.00				Narrative	70.83	No	No	N	
6	Copper, Dry Weather WLA	ug/L	0.6	0.3		19.1					11.00	No	No	N	
6	Copper, Wet Weather WLA	ug/L	0.6	0.3	9.80						19.1	No	No	N	
7	Lead	ug/L		0.1	15.42	0.60					0.60	No	No	N	
7	Lead, Wet Weather WLA	ug/L	0.6	5	55.80					Narrative	0.60	No	No	N	
8	Mercury	ug/L	0.6		Reserved	Reserved					55.80	No	No	N	
9	Nickel	ug/L		5	154.98	17.23				0.05100	0.05100			N	
10	Selenium	ug/L		0.3	20.00	5.00				4600.00	17.23	No	No	N	
11	Silver	ug/L		0.1	0.43					Narrative	5.00	No	No	N	
12	Thallium	ug/L		0.1							0.43	No	No	N	
13	Zinc	ug/L	0.6	458	187.83	187.83					6.30	No	No	N	
13	Zinc, Wet Weather WLA	ug/L	0.6	27	95.60						187.8	Yes	Yes	N	
14	Cyanide	ug/L			22.00	5.20					5.20	No	No	N	
15	Asbestos	MFL		No Criteria							220000.0	No Criteria	No Criteria	N	
16	2,3,7,8 TCDD	ug/L	0.6	5.166E-06							No Criteria	No Criteria	No Criteria	N	
	TCDD Equivalents	ug/L	0	5.166E-06							1.40E-08	Yes	Yes	N	
17	Acrolein	ug/L		10							1.4E-08	Yes	Yes	N	
18	Acrylonitrile	ug/L									780.0	No	No	N	
19	Benzene	ug/L		1							0.660	No	No	N	
20	Bromoform	ug/L		1							71	No	No	N	
21	Carbon Tetrachloride	ug/L		1							360	No	No	N	
22	Chlorobenzene	ug/L		1							4.4	No	No	N	
23	Chlorodibromomethane	ug/L		1							21000	No	No	N	
24	Chloroethane	ug/L		No Criteria							34	No	No	N	
25	2-Chloroethylvinyl ether	ug/L		No Criteria							34.00	No	No	N	
26	Chloroform	ug/L		No Criteria							No Criteria	No Criteria	No Criteria	N	
27	Dichlorobromomethane	ug/L		1							No Criteria	No Criteria	No Criteria	N	
28	1,1-Dichloroethane	ug/L		No Criteria							46	No	No	N	
29	1,2-Dichloroethane	ug/L		1							No Criteria	No Criteria	No Criteria	N	
30	1,1-Dichloroethylene	ug/L		1							99	No	No	N	
31	1,2-Dichloropropane	ug/L		1							99.00	No	No	N	
32	1,3-Dichloropropylene	ug/L		1							3.2	No	No	N	
33	Ethylbenzene	ug/L		1							3.200	No	No	N	
34	Methyl Bromide	ug/L		1							39	No	No	N	
35	Methyl Chloride	ug/L		No Criteria							39.00	No	No	N	
36	Methylene Chloride	ug/L		5							1700	No	No	N	
37	1,1,2,2-Tetrachloroethane	ug/L		1							1700	No	No	N	
38	Tetrachloroethylene	ug/L		1							29000	No	No	N	
39	Toluene	ug/L		1							29000	No	No	N	
40	1,2-Trans-Dichloroethylene	ug/L		1							200000	No	No	N	
41	1,1,1-Trichloroethane	ug/L		No Criteria							140000	No	No	N	
42	1,1,2-Trichloroethane	ug/L		1							No Criteria	No Criteria	No Criteria	N	
43	Trichloroethylene	ug/L		1							42	No	No	N	
44	Vinyl Chloride	ug/L		1							81	No	No	N	
45	2-Chlorophenol	ug/L		10							81.0	No	No	N	
46	2,4-Dichlorophenol	ug/L		10							525	No	No	N	
47	2,4-Dimethylphenol	ug/L		10							400	No	No	N	
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)	ug/L		10							400	No	No	N	
49	2,4-Dinitrophenol	ug/L		10							790	No	No	N	
											2300	No	No	N	
											2300	No	No	N	
											765	No	No	N	
											765.0	No	No	N	
											14000	No	No	N	

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CTR#	Parameters	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS			
		If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	Organisms only			ECA acute multiplier (p.7)
									AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh	
1	Antimony				No detected value of B, Step 7		No	Ud;MEC<C & no B				
2	Arsenic				No detected value of B, Step 7		No	Ud;MEC<C & no B				
3	Beryllium				No Criteria	No Criteria	Uc	No Criteria				
4	Cadmium				No detected value of B, Step 7		No	Ud;MEC<C & no B				
5a	Chromium (III)				No detected value of B, Step 7		Ud	No effluent data & no B				
5b	Chromium (VI)				No detected value of B, Step 7		No	Ud;MEC<C & no B				
6	Copper, Dry Weather WLA				No detected value of B, Step 7		No	Ud;MEC<C & no B		2.01		0.32
6	Copper, Wet Weather WLA				No detected value of B, Step 7		No	Ud;MEC<C & no B				0.32
7	Lead				No detected value of B, Step 7		No	Ud;MEC<C & no B				
7	Lead, Wet Weather WLA				No detected value of B, Step 7		No	Ud;MEC<C & no B				0.32
8	Mercury				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No	0.05100	2.00619	0.10232	
9	Nickel				No detected value of B, Step 7		No	Ud;MEC<C & no B				
10	Selenium				No detected value of B, Step 7		No	Ud;MEC<C & no B				
11	Silver				No detected value of B, Step 7		No	Ud;MEC<C & no B				
12	Thallium				No detected value of B, Step 7		No	Ud;MEC<C & no B				
13	Zinc				No detected value of B, Step 7		Yes	MEC>=C		2.01		0.32
13	Zinc, Wet Weather WLA				No detected value of B, Step 7		No	Ud;MEC<C & no B				0.32
14	Cyanide				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
15	Asbestos				No Criteria	No Criteria	Uc	No Criteria				
16	2,3,7,8 TCDD				No detected value of B, Step 7		Yes	MEC>=C	0.000000014	2.01	0.00000	
	TCDD Equivalents				No detected value of B, Step 7		Yes	MEC>=C	1.40E-08	2.01	2.81E-08	
17	Acrolein				No detected value of B, Step 7		No	Ud;MEC<C & no B				
18	Acrylonitrile				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
19	Benzene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
20	Bromoform				No detected value of B, Step 7		No	Ud;MEC<C & no B				
21	Carbon Tetrachloride				No detected value of B, Step 7		No	Ud;MEC<C & no B				
22	Chlorobenzene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
23	Chlorodibromomethane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
24	Chloroethane				No Criteria	No Criteria	Uc	No Criteria				
25	2-Chloroethylvinyl ether				No Criteria	No Criteria	Uc	No Criteria				
26	Chloroform				No Criteria	No Criteria	Uc	No Criteria				
27	Dichlorobromomethane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
28	1,1-Dichloroethane				No Criteria	No Criteria	Uc	No Criteria				
29	1,2-Dichloroethane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
30	1,1-Dichloroethylene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
31	1,2-Dichloropropane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
32	1,3-Dichloropropylene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
33	Ethylbenzene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
34	Methyl Bromide				No detected value of B, Step 7		No	Ud;MEC<C & no B				
35	Methyl Chloride				No Criteria	No Criteria	Uc	No Criteria				
36	Methylene Chloride				No detected value of B, Step 7		No	Ud;MEC<C & no B				
37	1,1,2,2-Tetrachloroethane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
38	Tetrachloroethylene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
39	Toluene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
40	1,2-Trans-Dichloroethylene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
41	1,1,1-Trichloroethane				No Criteria	No Criteria	Uc	No Criteria				
42	1,1,2-Trichloroethane				No detected value of B, Step 7		No	Ud;MEC<C & no B				
43	Trichloroethylene				No detected value of B, Step 7		No	Ud;MEC<C & no B				
44	Vinyl Chloride				No detected value of B, Step 7		No	Ud;MEC<C & no B				
45	2-Chlorophenol				No detected value of B, Step 7		No	Ud;MEC<C & no B				
46	2,4-Dichlorophenol				No detected value of B, Step 7		No	Ud;MEC<C & no B				
47	2,4-Dimethylphenol				No detected value of B, Step 7		No	Ud;MEC<C & no B				
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)				No detected value of B, Step 7		No	Ud;MEC<C & no B				
49	2,4-Dinitrophenol				No detected value of B, Step 7		No	Ud;MEC<C & no B				

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CTR#	Parameters	AQUATIC LIFE CALCULATIONS								LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan								Lowest AMEL	Lowest MDEL		
		LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life				
1	Antimony											No Limit	
2	Arsenic											No Limit	
3	Beryllium											No Limit	
4	Cadmium											No Limit	
5a	Chromium (III)											No Limit	
5b	Chromium (VI)	5.14	0.53	5.80	5.14	1.55	7.98	3.11	16.00	8.0	16	Apply WQBEL	More stringent than ELG limits
6	Copper, Dry Weather WLA		0.53	10.07	10.07	1.55	15.64	3.11	31.37498	16	31	Apply WQBEL	TMDL Dry Weather WLA
6	Copper, Wet Weather WLA	3.15			3.15	1.55	4.88	3.11	9.8	4.9	9.8	Apply WQBEL	TMDL Wet Weather WLA
7	Lead											No Limit	
7	Lead, Wet Weather WLA	17.92			17.92	1.55	27.81	3.11	55.8	28	56	Apply WQBEL	TMDL Wet Weather WLA
8	Mercury					1.55242		3.11446		0.051	0.10	Apply WQBEL	More stringent than existing BPJ limit
9	Nickel											No Limit	
10	Selenium											No Limit	
11	Silver											No Limit	
12	Thallium											No Limit	
13	Zinc	60.31	0.53	99.07	60.31	1.55	93.63	3.11	187.83	94	188	Apply WQBEL	CTR criteria based on dry weather hardness
13	Zinc, Wet Weather WLA	30.70			30.70	1.55	47.65	3.11	95.6	48	96	Apply WQBEL	TMDL Wet Weather WLA
14	Cyanide											No Limit	
15	Asbestos											No Limit	
16	2,3,7,8 TCDD					1.55		3.11				No Limit	All detected values are DNQ
	TCDD Equivalents					1.55		3.11				No Limit	MEC based on DNQs
17	Acrolein											No Limit	
18	Acrylonitrile											No Limit	
19	Benzene											No Limit	
20	Bromoform											No Limit	
21	Carbon Tetrachloride											No Limit	
22	Chlorobenzene											No Limit	
23	Chlorodibromomethane											No Limit	
24	Chloroethane											No Limit	
25	2-Chloroethylvinyl ether											No Limit	
26	Chloroform											No Limit	
27	Dichlorobromomethane											No Limit	
28	1,1-Dichloroethane											No Limit	
29	1,2-Dichloroethane											No Limit	
30	1,1-Dichloroethylene											No Limit	
31	1,2-Dichloropropane											No Limit	
32	1,3-Dichloropropylene											No Limit	
33	Ethylbenzene											No Limit	
34	Methyl Bromide											No Limit	
35	Methyl Chloride											No Limit	
36	Methylene Chloride											No Limit	
37	1,1,2,2-Tetrachloroethane											No Limit	
38	Tetrachloroethylene											No Limit	
39	Toluene											No Limit	
40	1,2-Trans-Dichloroethylene											No Limit	
41	1,1,1-Trichloroethane											No Limit	
42	1,1,2-Trichloroethane											No Limit	
43	Trichloroethylene											No Limit	
44	Vinyl Chloride											No Limit	
45	2-Chlorophenol											No Limit	
46	2,4-Dichlorophenol											No Limit	
47	2,4-Dimethylphenol											No Limit	
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)											No Limit	
49	2,4-Dinitrophenol											No Limit	

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CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)						Lowest C or WLAs	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?	Are all B data points non-detects (Y/N)?
					Freshwater		Saltwater		Human Health for consumption of:						
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only					
50	2-Nitrophenol	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
51	4-Nitrophenol	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
53	Pentachlorophenol	ug/L			5.28	4.05				8.2	4.05		N		
54	Phenol	ug/L		10						4600000	4600000	No	No	N	
55	2,4,6-Trichlorophenol	ug/L								6.5	6.5			N	
56	Acenaphthene	ug/L		10						2700	2700	No	No	N	
57	Acenaphthylene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
58	Anthracene	ug/L		10						110000	110000	No	No	N	
59	Benzidine	ug/L								0.00054	0.00054			N	
60	Benzo(a)Anthracene	ug/L								0.049	0.049			N	
61	Benzo(a)Pyrene	ug/L								0.049	0.049			N	
62	Benzo(b)Fluoranthene	ug/L								0.049	0.0490			N	
63	Benzo(ghi)Perylene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
64	Benzo(k)Fluoranthene	ug/L								0.049	0.0490			N	
65	Bis(2-Chloroethoxy)Methane	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
66	Bis(2-Chloroethyl)Ether	ug/L								1.4	1.400			N	
67	Bis(2-Chloroisopropyl)Ether	ug/L		10						170000	170000	No	No	N	
68	Bis(2-Ethylhexyl)Phthalate	ug/L								5.9	5.9			N	
69	4-Bromophenyl Phenyl Ether	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
70	Butylbenzyl Phthalate	ug/L		10						5200	5200	No	No	N	
71	2-Chloronaphthalene	ug/L		10						4300	4300	No	No	N	
72	4-Chlorophenyl Phenyl Ether	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
73	Chrysene	ug/L								0.049	0.049			N	
74	Dibenzo(a,h)Anthracene	ug/L								0.049	0.0490			N	
75	1,2-Dichlorobenzene	ug/L		1						17000	17000	No	No	N	
76	1,3-Dichlorobenzene	ug/L		1						2600	2600	No	No	N	
77	1,4-Dichlorobenzene	ug/L		1						2600	2600	No	No	N	
78	3,3 Dichlorobenzidine	ug/L								0.077	0.08			N	
79	Diethyl Phthalate	ug/L		10						120000	120000	No	No	N	
80	Dimethyl Phthalate	ug/L		10						2900000	2900000	No	No	N	
81	Di-n-Butyl Phthalate	ug/L		20						12000	12000	No	No	N	
82	2,4-Dinitrotoluene	ug/L								9.10	9.10			N	
83	2,6-Dinitrotoluene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
84	Di-n-Octyl Phthalate	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
85	1,2-Diphenylhydrazine	ug/L								0.54	0.540			N	
86	Fluoranthene	ug/L		10						370	370	No	No	N	
87	Fluorene	ug/L		10						14000	14000	No	No	N	
88	Hexachlorobenzene	ug/L								0.00077	0.00077			N	
89	Hexachlorobutadiene	ug/L		1						50	50.00	No	No	N	
90	Hexachlorocyclopentadiene	ug/L		10						17000	17000	No	No	N	
91	Hexachloroethane	ug/L								8.9	8.9			N	
92	Indeno(1,2,3-cd)Pyrene	ug/L								0.049	0.0490			N	
93	Isophorone	ug/L		10						600	600.0	No	No	N	
94	Naphthalene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
95	Nitrobenzene	ug/L		10						1900	1900	No	No	N	
96	N-Nitrosodimethylamine	ug/L								8.10	8.10000			N	
97	N-Nitrosodi-n-Propylamine	ug/L								1.40	1.400			N	
98	N-Nitrosodiphenylamine	ug/L		10						16	16.0	No	No	N	
99	Phenanthrene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
100	Pyrene	ug/L		10						11000.00	11000.00	No	No	N	
101	1,2,4-Trichlorobenzene	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	N		
102	Aldrin	ug/L			3.00					0.00014	0.00014			N	
103	alpha-BHC	ug/L								0.013	0.0130			N	

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		If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	Organisms only			ECA acute multiplier (p.7)
									AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh	
50	2-Nitrophenol				No Criteria	No Criteria	Uc	No Criteria				
51	4-Nitrophenol				No Criteria	No Criteria	Uc	No Criteria				
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)				No Criteria	No Criteria	Uc	No Criteria				
53	Pentachlorophenol				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
54	Phenol				No detected value of B, Step 7		No	UD;MEC<C & no B				
55	2,4,6-Trichlorophenol				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
56	Acenaphthene				No detected value of B, Step 7		No	UD;MEC<C & no B				
57	Acenaphthylene				No Criteria	No Criteria	Uc	No Criteria				
58	Anthracene				No detected value of B, Step 7		No	UD;MEC<C & no B				
59	Benzidine				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
60	Benzo(a)Anthracene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
61	Benzo(a)Pyrene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
62	Benzo(b)Fluoranthene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
63	Benzo(ghi)Perylene				No Criteria	No Criteria	Uc	No Criteria				
64	Benzo(k)Fluoranthene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
65	Bis(2-Chloroethoxy)Methane				No Criteria	No Criteria	Uc	No Criteria				
66	Bis(2-Chloroethyl)Ether				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
67	Bis(2-Chloroisopropyl)Ether				No detected value of B, Step 7		No	UD;MEC<C & no B				
68	Bis(2-Ethylhexyl)Phthalate				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
69	4-Bromophenyl Phenyl Ether				No Criteria	No Criteria	Uc	No Criteria				
70	Butylbenzyl Phthalate				No detected value of B, Step 7		No	UD;MEC<C & no B				
71	2-Chloronaphthalene				No detected value of B, Step 7		No	UD;MEC<C & no B				
72	4-Chlorophenyl Phenyl Ether				No Criteria	No Criteria	Uc	No Criteria				
73	Chrysene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
74	Dibenzo(a,h)Anthracene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
75	1,2-Dichlorobenzene				No detected value of B, Step 7		No	UD;MEC<C & no B				
76	1,3-Dichlorobenzene				No detected value of B, Step 7		No	UD;MEC<C & no B				
77	1,4-Dichlorobenzene				No detected value of B, Step 7		No	UD;MEC<C & no B				
78	3,3 Dichlorobenzidine				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
79	Diethyl Phthalate				No detected value of B, Step 7		No	UD;MEC<C & no B				
80	Dimethyl Phthalate				No detected value of B, Step 7		No	UD;MEC<C & no B				
81	Di-n-Butyl Phthalate				No detected value of B, Step 7		No	UD;MEC<C & no B				
82	2,4-Dinitrotoluene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
83	2,6-Dinitrotoluene				No Criteria	No Criteria	Uc	No Criteria				
84	Di-n-Octyl Phthalate				No Criteria	No Criteria	Uc	No Criteria				
85	1,2-Diphenylhydrazine				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
86	Fluoranthene				No detected value of B, Step 7		No	UD;MEC<C & no B				
87	Fluorene				No detected value of B, Step 7		No	UD;MEC<C & no B				
88	Hexachlorobenzene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
89	Hexachlorobutadiene				No detected value of B, Step 7		No	UD;MEC<C & no B				
90	Hexachlorocyclopentadiene				No detected value of B, Step 7		No	UD;MEC<C & no B				
91	Hexachloroethane				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
92	Indeno(1,2,3-cd)Pyrene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
93	Isophorone				No detected value of B, Step 7		No	UD;MEC<C & no B				
94	Naphthalene				No Criteria	No Criteria	Uc	No Criteria				
95	Nitrobenzene				No detected value of B, Step 7		No	UD;MEC<C & no B				
96	N-Nitrosodimethylamine				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
97	N-Nitrosodi-n-Propylamine				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
98	N-Nitrosodiphenylamine				No detected value of B, Step 7		No	UD;MEC<C & no B				
99	Phenanthrene				No Criteria	No Criteria	Uc	No Criteria				
100	Pyrene				No detected value of B, Step 7		No	UD;MEC<C & no B				
101	1,2,4-Trichlorobenzene				No Criteria	No Criteria	Uc	No Criteria				
102	Aldrin				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
103	alpha-BHC				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				

Attachment J  
Reasonable Potential Analysis and Effluent Limitations  
Paramount Petroleum Corporation, Paramount Refinery (CA0056065), Discharge Point No. 001

CTR#	Parameters	AQUATIC LIFE CALCULATIONS								LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan								Lowest AMEL	Lowest MDEL		
		LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life				
50	2-Nitrophenol											No Limit	
51	4-Nitrophenol											No Limit	
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)											No Limit	
53	Pentachlorophenol											No Limit	
54	Phenol											No Limit	
55	2,4,6-Trichlorophenol											No Limit	
56	Acenaphthene											No Limit	
57	Acenaphthylene											No Limit	
58	Anthracene											No Limit	
59	Benzidine											No Limit	
60	Benzo(a)Anthracene											No Limit	
61	Benzo(a)Pyrene											No Limit	
62	Benzo(b)Fluoranthene											No Limit	
63	Benzo(ghi)Perylene											No Limit	
64	Benzo(k)Fluoranthene											No Limit	
65	Bis(2-Chloroethoxy)Methane											No Limit	
66	Bis(2-Chloroethyl)Ether											No Limit	
67	Bis(2-Chloroisopropyl)Ether											No Limit	
68	Bis(2-Ethylhexyl)Phthalate											No Limit	
69	4-Bromophenyl Phenyl Ether											No Limit	
70	Butylbenzyl Phthalate											No Limit	
71	2-Chloronaphthalene											No Limit	
72	4-Chlorophenyl Phenyl Ether											No Limit	
73	Chrysene											No Limit	
74	Dibenzo(a,h)Anthracene											No Limit	
75	1,2-Dichlorobenzene											No Limit	
76	1,3-Dichlorobenzene											No Limit	
77	1,4-Dichlorobenzene											No Limit	
78	3,3 Dichlorobenzidine											No Limit	
79	Diethyl Phthalate											No Limit	
80	Dimethyl Phthalate											No Limit	
81	Di-n-Butyl Phthalate											No Limit	
82	2,4-Dinitrotoluene											No Limit	
83	2,6-Dinitrotoluene											No Limit	
84	Di-n-Octyl Phthalate											No Limit	
85	1,2-Diphenylhydrazine											No Limit	
86	Fluoranthene											No Limit	
87	Fluorene											No Limit	
88	Hexachlorobenzene											No Limit	
89	Hexachlorobutadiene											No Limit	
90	Hexachlorocyclopentadiene											No Limit	
91	Hexachloroethane											No Limit	
92	Indeno(1,2,3-cd)Pyrene											No Limit	
93	Isophorone											No Limit	
94	Naphthalene											No Limit	
95	Nitrobenzene											No Limit	
96	N-Nitrosodimethylamine											No Limit	
97	N-Nitrosodi-n-Propylamine											No Limit	
98	N-Nitrosodiphenylamine											No Limit	
99	Phenanthrene											No Limit	
100	Pyrene											No Limit	
101	1,2,4-Trichlorobenzene											No Limit	
102	Aldrin											No Limit	
103	alpha-BHC											No Limit	

Attachment J  
Reasonable Potential Analysis and Effluent Limitations  
Paramount Petroleum Corporation, Paramount Refinery (CA0056065), Discharge Point No. 001

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)						Lowest C or WLAs	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?	Are all B data points non-detects (Y/N)?
					Freshwater		Saltwater		Human Health for consumption of:						
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only					
104	beta-BHC	ug/L								0.046	0.046			N	
105	gamma-BHC	ug/L			0.95					0.063	0.063			N	
106	delta-BHC	ug/L		No Criteria						No Criteria	No Criteria	No Criteria	No Criteria	N	
107	Chlordane	ug/L			2.40	0.00				0.00	0.00			N	
108	4,4'-DDT	ug/L			1.10	0.00				0.00	0.00			N	
109	4,4'-DDE (linked to DDT)	ug/L								0.00059	0.00059			N	
110	4,4'-DDD	ug/L								0.00084	0.00084			N	
111	Dieldrin	ug/L			0.24	0.06				0.000	0.000			N	
112	alpha-Endosulfan	ug/L			0.22	0.056				240	0.0560			N	
113	beta-Endosulfan	ug/L			0.22	0.056				240	0.0560			N	
114	Endosulfan Sulfate	ug/L		0.1						240	240	No	No	N	
115	Endrin	ug/L			0.086	0.036				0.81	0.0360			N	
116	Endrin Aldehyde	ug/L		0.1						0.81	0.81	No	No	N	
117	Heptachlor	ug/L			0.52	0.0038				0.00021	0.00021			N	
118	Heptachlor Epoxide	ug/L			0.52	0.0038				0.00011	0.00011			N	
119-125	PCBs sum (2)	ug/L				0.01				0.000	0.000			N	
126	Toxaphene	ug/L			0.73	0.0002				0.00075	0.0002			N	

Attachment J  
Reasonable Potential Analysis and Effluent Limitations  
Paramount Petroleum Corporation, Paramount Refinery (CA0056065), Discharge Point No. 001

CTR#	Parameters	REASONABLE POTENTIAL ANALYSIS (RPA)							HUMAN HEALTH CALCULATIONS			
		If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL>C?	If B>C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	Organisms only			ECA acute multiplier (p.7)
									AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh	
104	beta-BHC				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
105	gamma-BHC				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
106	delta-BHC				No Criteria	No Criteria	Uc	No Criteria				
107	Chlordane				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
108	4,4'-DDT				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
109	4,4'-DDE (linked to DDT)				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
110	4,4'-DDD				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
111	Dieldrin				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
112	alpha-Endosulfan				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
113	beta-Endosulfan				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
114	Endosulfan Sulfate				No detected value of B, Step 7		No	Ud;MEC<C & no B				
115	Endrin				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
116	Endrin Aldehyde				No detected value of B, Step 7		No	Ud;MEC<C & no B				
117	Heptachlor				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
118	Heptachlor Epoxide				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
119-125	PCBs sum (2)				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				
126	Toxaphene				No detected value of B, Step 7		No	UD;Effluent ND,MDL>C & No				

Notes:  
Ud = Undeter  
Uc = Undeter  
C = Water Qu  
B = Backgrou



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 Reasonable Potential Analysis and Effluent Limitations  
 Paramount Petroleum Corporation, Paramount Refinery (CA0056065), Discharge Point No. 001

CTR#	Parameters	AQUATIC LIFE CALCULATIONS								LIMITS		Recommendation	Comment
		Saltwater / Freshwater / Basin Plan								Lowest AMEL	Lowest MDEL		
		LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life				
104	beta-BHC											No Limit	
105	gamma-BHC											No Limit	
106	delta-BHC											No Limit	
107	Chlordane											No Limit	
108	4,4'-DDT											No Limit	
109	4,4'-DDE (linked to DDT)											No Limit	
110	4,4'-DDD											No Limit	
111	Dieldrin											No Limit	
112	alpha-Endosulfan											No Limit	
113	beta-Endosulfan											No Limit	
114	Endosulfan Sulfate											No Limit	
115	Endrin											No Limit	
116	Endrin Aldehyde											No Limit	
117	Heptachlor											No Limit	
118	Heptachlor Epoxide											No Limit	
119-125	PCBs sum (2)											No Limit	
126	Toxaphene											No Limit	

nined due to lack of data  
 mined due to lack of CTR Water Quality Criteria  
 ality Criteria  
 nd receiving water data