

APPENDI E

FO, R H Q, AR ER 2012 REA ONABLE PO EN IAL  
ANAL I (RPA) , MMAR ABLE



**FOURTH QUARTER 2012 REASONABLE POTENTIAL ANALYSIS SUMMARY  
THE BOEING COMPANY**





**Table E1**  
**REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALL 019)**

**Table E1  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALL 019)**

**FOURTH QUARTER 2012  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C CTR CRITERIA				C = Lowest Criteria	Step 2	Step 3		Step 4
						Freshwater	Human Health	Basin Plan	Is Effluent Data Available		Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH	Title 22 GWR				





**Table E1**

**Table E1  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003, 004, 005, 006, 007, and 009)**

**FOURTH QUARTER 2012  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH	Title 22 GWR	Step 2		Step 4			
											Yes	No	Yes	No	Yes	No
3-7,9-10	001	At	µg/L	0.38	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	N
3-7,9-10	002	A e c	µg/L	A Data Q a fed	0.6	340	150	NONE	NONE	10	50	N	N	N	NA	N
3-7,9-10	003	Be	µg/L	A Data Q a fed	0.6	NONE	NONE	Na d e	Na d e	4	4	N	N	N	NA	N
3-7,9-10	004	Cad	µg/L	A a b e D a <DL	0.6		2.5	Na d e	Na d e	5	2.5	Yes	N	N	NA	N
3-7,9-10	005a	Ch	µg/L	A Data Q a fed	0.6		206	Na d e	Na d e		207.0	N	N	N	NA	N
3-7,9-10	005b	Ch VI	µg/L	A Data Q a fed	0.6	16.293279022	11.4	Na d e	Na d e	50	11.4	N	N	N	NA	N
3-7,9-10	006	C e	µg/L	3.8	0.6		9.3	1300	NONE		9.3	Yes	Yes	NA	NA	N
3-7,9-10	007	Lead	µg/L	0.56	0.6		3.18	Na d e	Na d e		3.2	Yes	Yes	NA	NA	N
3-7,9-10	008	Me	µg/L	A Data Q a fed	0.6	Re e ed	Re e ed	0.05	0.051	2	0.051	N	N	N	NA	N
3-7,9-10	009	N c e	µg/L	A Data Q a fed	0.6		52	610	4600	100	52	N	N	N	NA	N
3-7,9-10	010	Se e	µg/L	A a b e D a <DL	0.6	Re e ed	5	Na d e	Na d e	50	5	Yes	N	N	NA	N
3-7,9-10	011	S e	µg/L	A Data Q a fed	0.6		e	NONE	NONE		4.06	N	N	N	NA	N
3-7,9-10	012	Tha	µg/L	A a b e D a <DL	0.6	NONE	NONE	1.7	6.3	2	2	Yes	N	N	NA	N
3-7,9-10	013	Z c	µg/L	A Data Q a fed	0.6		119.8	e	NONE		119.8	N	N	N	NA	N
3-7,9-10	014	T t a C a d e	µg/L	A a b e D a <DL	0.6	22	5.2	700	220000	200	5.2	Yes	N	N	NA	N
3-7,9-10	015	A b e t	F b e /L	A Data Q a fed	0.6	NONE	NONE	7000000	NONE	7000000	700000	N	N	N	NA	N
3-7,9-10	016	TCDD TEQ_N DNQ	µg/L	A a b e D a <DL	0.6	NONE	NONE	1.30E-08	1.40E-08	3.00E-05	1.40E-08	Yes	N	N	NA	N
3-7,9-10	017	Ac e	µg/L	A Data Q a fed	0.6	NONE	NONE	320	780		780	N	N	N	NA	N
3-7,9-10	018	Ac t e	µg/L	A Data Q a fed	0.6	NONE	NONE	0.059	0.66		0.66	N	N	N	NA	N
3-7,9-10	019	Bez e e	µg/L	A Data Q a fed	0.6	NONE	NONE	1.2	71	1	1	N	N	N	NA	N
3-7,9-10	020	B f	µg/L	A Data Q a fed	0.6	NONE	NONE	4.3	360		360	N	N	N	NA	N

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REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003, 004, 005, 006, 007, and 009)**

**FOURTH QUARTER 2012  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C					C = Lowest Criteria	Step 2 Is Effluent Data Available	Step 3		Step 4 MEC >= C	
						CTR CRITERIA				Basin Plan Title 22 GWR			Was Constituent Detected in Effluent Data	Are all Detection Limits > C		If DL > C, MEC = Min (DL)
						Freshwater		Human Health								
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
3-7,9-10	023	D b ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.401	34		34	N	N	N	NA	N
3-7,9-10	024	Ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	025	2-Ch d h d he	g/L	A Da a Q a fed	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	026	Ch f	g/L	A Da a Q a fed	0.6	NONE	NONE	Re e ed	Re e ed		NONE	N	N	N	NA	N
3-7,9-10	027	B d ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.56	46		46	N	N	N	NA	N
3-7,9-10	028	1,1-D ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	NONE	NONE	5	5	N	N	N	NA	N
3-7,9-10	029	1,2-D ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.38	99	0.5	0.5	N	N	N	NA	N
3-7,9-10	030	1,1-D ch d he e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.057	3.2	6	3.2	N	N	N	NA	N
3-7,9-10	031	1,2-D ch a e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.52	39	5	5	N	N	N	NA	N
3-7,9-10	032	c -1,3-D ch e e	g/L	A Da a Q a fed	0.6	NONE	NONE	10	1700	0.5	0.5	N	N	N	NA	N
3-7,9-10	032a	a -1,3-D ch e e	g/L	A Da a Q a fed	0.6	NONE	NONE	10	1700	0.5	0.5	N	N	N	NA	N
3-7,9-10	033	E h bez e e	g/L	A Da a Q a fed	0.6	NONE	NONE	3100	29000	0.7	0.7	N	N	N	NA	N
3-7,9-10	034	B d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	48	4000		4000	N	N	N	NA	N
3-7,9-10	035	Ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	Na d e	Na d e		NONE	N	N	N	NA	N
3-7,9-10	036	M d h e e ch de	g/L	A Da a Q a fed	0.6	NONE	NONE	4.7	1600		1600	N	N	N	NA	N
3-7,9-10	037	1,1,2,2-T d ach d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.17	11	1	1	N	N	N	NA	N
3-7,9-10	038	T d ach d he e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.8	8.85	5	5	N	N	N	NA	N
3-7,9-10	039	T e e	g/L	A Da a Q a fed	0.6	NONE	NONE	6800	200000	150	150	N	N	N	NA	N
3-7,9-10	040	a -1,2-D ch d he e	g/L	A Da a Q a fed	0.6	NONE	NONE	700	140000	10	10	N	N	N	NA	N
3-7,9-10	041	1,1,1-T ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	Na d e	Na d e	200	200	N	N	N	NA	N
3-7,9-10	042	1,1,2t ch d ha e	g/L	A Da a Q a fed	0.6	NONE	NONE	0.6	42	5	5	N	N	N	NA	N
3-7,9-10	043	T ch d he e	g/L	A Da a Q a fed	0.6	NONE	NONE	2.7	81	5	5	N	N	N	NA	N
3-7,9-10	044	V ch de	g/L	A Da a Q a fed	0.6	NONE	NONE	2	525	0.5	0.5	N	N	N	NA	N

**Table E1  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003, 004, 005, 006, 007, and 009)**

**FOURTH QUARTER 2012  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4	
						CTR CRITERIA				Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
Outfall	CTR	Constituent	Units	MEC	CV	Freshwater CMC = Acute	Human Health CCC = Chronic	HH W&O (Not App)	HH O = HH							
3-7,9-10	045	2-chlorophenol	g/L	As a Q a fed	0.6	NONE	NONE	120	400	400	N	N	N	NA	N	
3-7,9-10	046	2,4-Dichlorophenol	g/L	As a Q a fed	0.6	NONE	NONE	93	790	790	N	N	N	NA	N	
3-7,9-10	047	2,4-dichlorophenol	g/L	As a Q a fed	0.6	NONE	NONE	540	2300	2300	N	N	N	NA	N	
3-7,9-10	048	2-Methyl-4,6-dithienol	g/L	As a Q a fed	0.6	NONE	NONE	13.4	765	765	N	N	N	NA	N	
3-7,9-10	049	2,4-dithienol	g/L	As a Q a fed	0.6	NONE	NONE	70	14000	14000	N	N	N	NA	N	
3-7,9-10	050	2-thienol	g/L	As a Q a fed	0.6	NONE	NONE	NONE	NONE	NONE	N	N	N	NA	N	
3-7,9-10	051	4-thienol	g/L	As a Q a fed	0.6	NONE	NONE	NONE	NONE	NONE	N	N	N	NA	N	
3-7,9-10	052	4-Chloro-3-dithienol	g/L	As a Q a fed	0.6	NONE	NONE	NONE	NONE	NONE	N	N	N	NA	N	
3-7,9-10	053	Pentachlorophenol	g/L	As a Q a fed	0.6	H de e de t	H de e de t	0.28	8.2	1	1	N	N	N	NA	N
3-7,9-10	054	Phenol	g/L	As a Q a fed	0.6	NONE	NONE	21000	4600000	4600000	N	N	N	NA	N	
3-7,9-10	055	2,4,6-Trichlorophenol	g/L	As a Q a fed	0.6	NONE	NONE	2.1	6.5	6.5	N	N	N	NA	N	
3-7,9-10	056	Acetophenone	g/L	As a Q a fed	0.6	NONE	NONE	1200	2700	2700	N	N	N	NA	N	
3-7,9-10	057	Acetophenone	g/L	As a Q a fed	0.6	NONE	NONE	NONE	NONE	NONE	N	N	N	NA	N	
3-7,9-10	058	Acetophenone	g/L	As a Q a fed	0.6	NONE	NONE	9600	1100007,94000			8895557.3(N )-5708.4(N )-5521.7(NA)-5557.5(N )TJT*(3-7,9-10)-1208.7(056)-1011.5(2,4-d B				

**Table E1**  
**REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003, 004, 005, 006, 007, and 009)**

**FOURTH QUARTER 2012**  
**THE BOEING COMPANY**  
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**NPDES PERMIT CA0001309**

**Step 2**

**Step 4**

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**FOURTH QUARTER 2012  
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Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C				Basin Plan Title 22 GWR	C = Lowest Criteria	Step 2 Is Effluent Data Available	Step 3		Step 4 MEC >= C	
						CTR CRITERIA							Was Constituent Detected in Effluent Data	Are all Detection Limits > C		
						Freshwater CMC = Acute	Human Health CCC = Chronic	HH W&O (Not App)	HH O = HH							
3-7,9-10	091	Hexachlorocyclopentadiene	µg/L	As Data Available	0.6	NONE	NONE	1.9	8.9		8.9	N	N	N	NA	N
3-7,9-10	092	1,2,3-trichlorobenzene	µg/L	As Data Available	0.6	NONE	NONE	0.0044	0.049		0.049	N	N	N	NA	N
3-7,9-10	093	1,1,1-trichloroethane	µg/L	As Data Available	0.6	NONE	NONE	8.4	600		600	N	N	N	NA	N
3-7,9-10	094	1,1,1-trichloroethane	µg/L	As Data Available	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	095	Nitrobenzene	µg/L	As Data Available	0.6	NONE	NONE	17	1900		1900	N	N	N	NA	N
3-7,9-10	096	Nitrobenzene	µg/L	As Data Available	0.6	NONE	NONE	0.00069	8.1		8.1	N	N	N	NA	N
3-7,9-10	097	Nitrobenzene	µg/L	As Data Available	0.6	NONE	NONE	0.005	1.4		1.4	N	N	N	NA	N
3-7,9-10	098	Nitrobenzene	µg/L	As Data Available	0.6	NONE	NONE	5	16		16	N	N	N	NA	N
3-7,9-10	099	Phenanthrene	µg/L	As Data Available	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	100	Phenanthrene	µg/L	As Data Available	0.6	NONE	NONE	960	11000		11000	N	N	N	NA	N
3-7,9-10	101	1,2,4-trichlorobenzene	µg/L	As Data Available	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	102	Acetone	µg/L	As Data Available	0.6	3	NONE	0.00013	0.00014		0.00014	N	N	N	NA	N
3-7,9-10	103	alpha-BHC	µg/L	As Data Available	0.6	NONE	NONE	0.0039	0.013		0.013	N	N	N	NA	N
3-7,9-10	104	beta-BHC	µg/L	As Data Available	0.6	NONE	NONE	0.014	0.046		0.046	N	N	N	NA	N
3-7,9-10	105	Lindane (gamma-BHC)	µg/L	As Data Available	0.6	0.95	NONE	0.019	0.063	0.2	0.063	N	N	N	NA	N
3-7,9-10	106	delta-BHC	µg/L	As Data Available	0.6	NONE	NONE	NONE	NONE		NONE	N	N	N	NA	N
3-7,9-10	107	Chlordane	µg/L	As Data Available	0.6	2.4	0.0043	0.00057	0.00059		0.00059	N	N	N	NA	N
3-7,9-10	108	4,4'-DDT	µg/L	As Data Available	0.6	1.1	0.001	0.00059	0.00059		0.00059	N	N	N	NA	N
3-7,9-10	109	4,4'-DDE	µg/L	As Data Available	0.6	NONE	NONE	0.00059	0.00059		0.00059	N	N	N	NA	N
3-7,9-10	110	4,4'-DDD	µg/L	As Data Available	0.6	NONE	NONE	0.00083	0.00084		0.00084	N	N	N	NA	N
3-7,9-10	111	Dieldrin	µg/L	As Data Available	0.6	0.24	0.056	0.00014	0.00014		0.00014	N	N	N	NA	N
3-7,9-10	112	Endrin I	µg/L	As Data Available	0.6	0.22	0.056	110	240		0.056	N	N	N	NA	N
3-7,9-10	113	Endrin II	µg/L	As Data Available	0.6	0.22	0.056	110	240		0.056	N	N	N	NA	N

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**FOURTH QUARTER 2012  
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SANTA SUSANA FIELD LABORATORY  
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						Freshwater		Human Health								
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3-7,9-10	114	E d l fa S fa e	g/L	A Da a Q a fed	0.6	NONE	NONE	110	240		240	N	N	N	NA	N
3-7,9-10	115	E d	g/L	A Da a Q a fed	0.6	0.086	0.036	0.76	0.81		0.036	N	N	N	NA	N
3-7,9-10	116	E d A de h de	g/L	A Da a Q a fed	0.6	NONE	NONE	0.76	0.81		0.81	N	N	N	NA	N
3-7,9-10	117	He t ach	g/L	A Da a Q a fed	0.6	0.52	0.0038	0.00021	0.00021		0.00021	N	N	N	NA	N
3-7,9-10	118	He t ach E de	g/L	A Da a Q a fed	0.6	0.52	0.0038	0.0001	0.00011		0.00011	N	N	N	NA	N
3-7,9-10	119	A c -1016	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	120	A c -1221	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	121	A c -1232	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	122	A c -1242	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	123	A c -1248	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	124	A c -1254	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	125	A c -1260	g/L	A Da a Q a fed	0.6	NONE	0.014	0.00017	0.00017		0.00017	N	N	N	NA	N
3-7,9-10	126	T a he e	g/L	A Da a Q a fed	0.6	0.73	0.0002	0.0073	0.00075		0.0002	N	N	N	NA	N
3-7,9-10	127	E. C	MPN/100	A Da a Q a fed	0.6	NA	NA	NA	NA	235	MPN/100	N	N	N	NA	N

**Table E2  
REASONABLE POTENTIAL ANALYSIS FOR SECONDARY POLLUTANTS, (OUTFALL 019)**

**FOURTH QUARTER 2012  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	Constituent	Monitoring	Units	Number of Samples	MEC	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Concentration	Projected Maximum Receiving Water Concentration	Step 1, Determine Water Quality Objectives	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection
19	Ba	A L a	g/L	0	A D a Q a fed	0.6	A D a Q a fed	A Q a fed D a	0	0	NA	1000	BU
19	B che ca O ge De a d (BOD 5 da )	D cha ge	g/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	20	BU
19	Ch de	D cha ge	g/L	2	36	0.6	7.4	266.2	0	0	266.2	150	BU
19	F de	D cha ge	g/L	0	A D a Q a fed	0.6	A D a Q a fed	A Q a fed D a	0	0	NA	1.6	BU
19	Nt de + Nt te a Nt ge (N)	D cha ge	g/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	8	BU/TMDL
19	O & G ea e	D cha ge	g/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	10	BU
19	S fa e	D cha ge	g/L	2	160	0.6	7.4	1183.0	0	0	1183.0	300	BU
19	S fat a t (MBAS)	D cha ge	g/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	0.5	BU
19	T ta D ed S d	D cha ge	g/L	2	560	0.6	7.4	4140.5	0	0	4140.5	150	BU
19	T ta S t ea be S d	D cha ge	/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	0.3	BU
19	T ta S e ded S d	D cha ge	g/L	2	A a be D a <DL	0.6	7.4	A a be D a <DL	0	0	NA	45	BU



**Table E2  
REASONABLE POTENTIAL ANALYSIS FOR SECONDARY POLLUTANTS, (OUTFALLS 003, 004, 005, 006, 007, and 009)**

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THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	Constituent	Monitoring	Units	Number of Samples	MEC	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Concentration	Projected Maximum Receiving Water Concentration	Step 1, Determine Water Quality Objectives	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection
3-7,9-10	B	A L a	g/L	0	A D a Q a fed	0.6	A D a Q a fed	A Q a fed D a	0	0	NA	1	BU
3-7,9-10	Ch de	D cha ge	g/L	1	2.3	0.6	13.2	30.4	0	0	30.4	150	BU
3-7,9-10	F de	A L a	g/L	0	A D a Q a fed	0.6	A D a Q a fed	A Q a fed D a	0	0	NA	1.6	BU
3-7,9-10	Nt de + Nt tea Nt ge (N)	D cha ge	g/L	1	0.93	0.6	13.2	12.3	0	0	12.3	8	BU/TMDL
3-7,9-10	O & G ea e	D cha ge	g/L	1	A a be D a <DL	0.6	13.2	A a be D a <DL	0	0	NA	10	BU
3-7,9-10	S fa e	D cha ge	g/L	1	10	0.6	13.2	132.0	0	0	132.0	300	BU
3-7,9-10	T ta D ed S d	D cha ge	g/L	1	72	0.6	13.2	950.2	0	0	950.2	150	BU
3-7,9-10	T ta S e ded S d	A L a	g/L	1	A a be D a <DL	0.6	13.2	A a be D a <DL	0	0	NA	45	BU