

**FIRST QUARTER 2009 REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

**FIRST QUARTER 2009 REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values
*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
*II, *III	unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analysis." The number following the asterisk (*) will indicate the report section where a description of the problem can be found
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed (annual, semi-annual, etc.)
B	laboratory method blank contamination
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit)
E	duplicates show poor agreement
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDL	method detection limit
MGD	million gallons per day
MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
NA	not applicable; no permit limit established for the constituent and/or outfall

**FIRST QUARTER 2009 REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
p	relative percent difference (RPD) is outside control limits
pCi/L	picocuries per liter
pg/L	picograms per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU _c	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume

SUMMARY OF PERMIT LIMIT EXCEEDANCES

**FIRST QUARTER 2009
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

DAILY MAX PERMIT LIMIT EXCEEDANCES							
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	PERMIT LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	VALIDATION QUALIFIER
Outfall 004	SRE	02/06/09	TCDD TEQ_NoDNQ	2.8E-08	6.1E-07	ug/L	--
Outfall 004	SRE	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	3.6E-07	ug/L	--
Outfall 011	Perimeter Pond Weir	02/16/09	Iron	0.3	11	mg/L	--
Outfall 011	Perimeter Pond Weir	02/16/09	Lead	5.2	7.1	ug/L	*
Outfall 011	Perimeter Pond Weir	02/16/09	Manganese	50	150	ug/L	--
Outfall 011	Perimeter Pond Weir	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	1.4E-06	ug/L	--
Outfall 018	R-2 Spillway	02/16/09	Iron	0.3	12	mg/L	--
Outfall 018	R-2 Spillway	02/16/09	Lead	5.2	8.2	ug/L	--
Outfall 018	R-2 Spillway	02/16/09	Manganese	50	140	ug/L	--
Outfall 018	R-2 Spillway	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	2.6E-06	ug/L	--

DAILY MAX BENCHMARK LIMIT EXCEEDANCES							
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	BENCHMARK LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	VALIDATION QUALIFIER
Outfall 001	South Slope below Perimeter Pond	02/16/09	Iron	0.3	8.1	mg/L	--
Outfall 001	South Slope below Perimeter Pond	02/16/09	Lead	5.2	6.6	ug/L	--
Outfall 001	South Slope below Perimeter Pond	02/16/09	Manganese	50	110	ug/L	--
Outfall 001	South Slope below Perimeter Pond	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	7.3E-07	ug/L	--
Outfall 002	South Slope below R-2 Pond	02/16/09	Iron	0.3	17	mg/L	--
Outfall 002	South Slope below R-2 Pond	02/16/09	Lead	5.2	11	ug/L	--
Outfall 002	South Slope below R-2 Pond	02/16/09	Manganese	50	240	ug/L	--
Outfall 002	South Slope below R-2 Pond	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	4.8E-07	ug/L	--
Outfall 009	WS-13 Drainage	02/06/09	Lead	5.2	7.5	ug/l	--
Outfall 009	WS-13 Drainage	02/06/09	TCDD TEQ_NoDNQ	2.8E-08	9.5E-07	ug/L	--
Outfall 009	WS-13 Drainage	02/13/09	Lead	5.2	20	ug/L	*
Outfall 009	WS-13 Drainage	02/13/09	TCDD TEQ_NoDNQ	2.8E-08	1.2E-05	ug/L	--
Outfall 012	Alfa Test Stand	02/16/09	TCDD TEQ_NoDNQ	2.8E-08	7.4E-07	ug/L	--

MONTHLY AVERAGE PERMIT LIMIT EXCEEDANCES							
OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	PERMIT LIMIT MONTHLY AVERAGE	MONTHLY AVERAGE RESULT	UNITS	VALIDATION QUALIFIER
Outfall 011	Perimeter Pond Weir	Feb-09	Lead	2.6	7.1	ug/L	*
Outfall 011	Perimeter Pond Weir	Feb-09	TCDD TEQ_NoDNQ	1.4E-08	1.4E-06	ug/L	--
Outfall 011	Perimeter Pond Weir	Feb-09	Zinc	54	60	ug/L	--

SUMMARY OF PERMIT LIMIT EXCEEDANCES

**FIRST QUARTER 2009
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309**

OUTFALL	LOCATIONS	SAMPLE DATE	ANALYTE	BENCHMARK LIMIT MONTHLY AVERAGE	MONTHLY AVERAGE RESULT	UNITS	VALIDATION QUALIFIER
