## Preliminary Phase (Pre-Construction Phase - Part of the Grading and Land Development Phase)

Construction stage including rough grading and/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

#### Project

#### **Qualified SWPPP Developer**

Individual who is authorized to develop and revise SWPPPs.

#### **Qualified SWPPP Practitioner**

Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

#### **Qualifying Rain Event**

Any event that produces 0.5 inches or more precipitation with a 48 hour or greater period between rain events.

#### **R** Factor

Erosivity factor used in the Revised Universal Soil Loss Equation (RUSLE). The R factor represents the erosivity of the climate at a particular location. An average annual value of R is determined from historical weather records using erosivity values determined for individual storms. The erosivity of an individual storm is computed as the product of the storm's total energy, which is closely related to storm amount, and the storm's maximum 30-minute intensity.

#### **Rain Event Action Plan (REAP)**

Written document, specific for each rain event, that when implemented is designed to protect all exposed portions of the site within 48 hours of any likely precipitation event.

#### **Remaining Sub sampled Material**

The material (e.g., organic material, gravel, etc.) that remains after the organisms to be identified have been removed from the subsample for identification. (Generally, no macroinvertebrates are present in the remaining subsampled material, but the sample needs to be checked and verified using a complete Quality Assurance (QA) plan)

#### **Routine Maintenance**

Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

#### **Runoff Control BMPs**

Measures used to divert runon from offsite and runoff within the site.

#### Run-on

Discharges that originate offsite and flow onto the property of a separate project site.

#### **Revised Universal Soil Loss Equation (RUSLE)**

Empirical model that calculates average annual soil loss as a function of rainfall and runoff erosivity, soil erodibility, topography, erosion controls, and sediment controls.

#### Sampling and Analysis Plan

Document that describes how the samples will be collected, under what conditions, where and when the samples will be collected, what the sample will be tested for, what test methods and detection limits will be used, and what methods/procedures will be maintained to ensure the integrity of the sample during collection, storage, shipping and testing (i.e., quality assurance/quality control protocols).

#### Sediment

Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

#### Sedimentation

Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

#### **Sediment Control BMPs**

Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls, etc.).

#### Settleable Solids (SS)

Solid material that can be settled within a water column during a specified time frame. It is typically tested by placing a water sample into an Imhoff settling cone and then allowing the solids to settle by gravity for a given length of time. Results are reported either as a volume (mL/L) or a mass (mg/L) concentration.

#### **Sheet Flow**

Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

#### Site

#### **Soil Amendment**

Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

#### **Streets and Utilities Phase**

Construction stage including excavation and street paving, lot grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm sewer system and/or other drainage improvements.

#### **Structural Controls**

Any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution

#### **Suspended Sediment Concentration (SSC)**

The measure of the concentration of suspended solid material in a water sample by measuring the dry weight of all of the solid material from a known volume of a collected water sample. Results are reported in mg/L.

#### **Total Suspended Solids (TSS)**

The measure of the suspended solids in a water sample includes inorganic substances, such as soil particles and organic substances, such as algae, aquatic plant/animal waste, particles related to industrial/sewage waste, etc. The TSS test measures the concentration of suspended solids in water by measuring the dry weight of a solid material contained in a known volume of a sub-sample of a collected water sample. Results are reported in mg/L.

#### Toxicity

The adverse response(s) of organisms to chemicals or physical agents ranging from mortality to physiological responses such as impaired reproduction or growth anomalies.

#### Turbidity

The cloudiness of water quantified by the degree to which light traveling through a water column is scattered by the suspended organic and inorganic particles it contains. The turbidity test is reported in Nephelometric Turbidity Units (NTU) or Jackson Turbidity Units (JTU).

#### **Vertical Construction Phase**

The Build out of structures from foundations to roofing, including rough landscaping.

#### Waters of the United States

Generally refers to surface waters, as defined by the federal Environmental Protection Agency in 40 C.F.R. § 122.2.<sup>1</sup>

#### Water Quality Objectives (WQO)

Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

<sup>&</sup>lt;sup>1</sup> The application of the definition of "waters of the United States" may be difficult to determine; there are currently several judicial decisions that create some confusion. If a landowner is unsure whether the discharge must be covered by this General Permit, the landowner may wish to seek legal advice.

<sup>2009-0009-</sup>DWQ as amended by 2010-0014-DWQ & 2012-0006-DWQ

### APPENDIX 6: Acronym List

ASBS	Areas of Special Biological Significance
ASTM	American Society of Testing and Materials; Standard Test
	Method for Particle-Size Analysis of Soils
ATS	Active Treatment System
BASMAA	Bay Area Storm water Management Agencies Association
BAT	Best Available Technology Economically Achievable
ВСТ	Best Conventional Pollutant Control Technology
BMP	Best Management Practices
BOD	Biochemical Oxygen Demand
BPJ	Best Professional Judgment
CAFO	Confined Animal Feeding Operation
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGP	NPDES General Permit for Storm Water Discharges
	Associated with Construction Activities
CIWOS	California Integrated Water Quality System
CKD	Cement Kiln Dust
000	Chain of Custody
CPESC	Certified Professional in Frosion and Sediment Control
CPSWO	Certified Professional in Storm Water Quality
CSMP	Construction Site Monitoring Program
CTB	Cement Treated Base
CTR	California Toxics Rule
	Clean Water Act
CWC	California Water Code
CW/P	Center for Watershed Protection
	Diallyldimethyl-ammonium chloride
	Delaware Department of Natural Resources
DEG	Department of Fish and Game
DHS	Department of Health Services
	Division of Water Quality
FC	Electrical Conductivity
	Environmental Laboratory Accreditation Program
	Environmental Protection Agency
ESΔ	Environmentally Sensitive Area
ESC	Erosion and Sediment Control
HSPE	Hydrologic Simulation Program Fortran
	lackson Turbidity Units
	Low Impact Development
	Low impact Development
	Lowest Observed Litest Concentration Lagally Regnangible Region
	Leyally Resputsible Felsull Linear Underground/Overhead Prejects
LUF	Linear Underground/Overnead Projects

2009-0009-DWQ as amended by 2010-0014-DWQ & 2012-0006-DWQ

MATC	Maximum Allowable Threshold Concentration
MDL	Method Detection Limits
MRR	Monitoring and Reporting Requirements
MS4	Municipal Separate Storm Sewer System
MUSEE	Modified Universal Soil Loss Equation
NAI	Numeric Action Level
NEL	Numeric Effluent Limitation
NICET	National Institute for Certification in Engineering
NICET	Technologies
ΝΟΔΔ	National Oceanic and Atmospheric Administration
NOEC	No Observed Effect Concentration
NOL	Notice of Intent
NOT	Notice of Termination
NDDES	National Pollutant Discharge Elimination System
NDCS	National Foliutant Discharge Ennination System
	National Toxics Pulo
	National Toxics Rule
	Operation and Maintananaa
	Operation and Maintenance
	Polyauminum chionde
	Polyaciyarinue Delyaluminum ehleride Silies/aulfate
PASS DOC	Polyauminum chionde Silica/sullate
	Pollutants of Concern
POP	Probability of Precipitation
POIW	Publicly Owned Treatment Works
PRDS	Permit Registration Documents
PWS	Planning Watershed
QAMP	Quality Assurance Management Plan
QA/QC	Quality Assurance/Quality Control
REAP	Rain Event Action Plan
Regional Board	Regional Water Quality Control Board
ROWD	Report of Waste Discharge
RUSLE	Revised Universal Soil Loss Equation
RW	Receiving Water
SMARTS	Storm water Multi Application Reporting and Tracking
System	
SS	Settleable Solids
SSC	Suspended Sediment Concentration
SUSMP	Standard Urban Storm Water Mitigation Plan
SW	Storm Water
SWARM	Storm Water Annual Report Module
SWAMP	Surface Water Ambient Monitoring Program
SWMM	Storm Water Management Model
SWMP	Storm Water Management Program
SWPPP	Storm Water Pollution Prevention Plan
TC	Treatment Control
TDS	Total Dissolved Solids

2009-0009-DWQ as amended by 2010-0014-DWQ & 2012-0006-DWQ

TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
USACOE	U.S. Army Corps of Engineers
USC	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WDID	Waste Discharge Identification Number
WDR	Waste Discharge Requirements
WLA	Waste Load Allocation
WET	Whole Effluent Toxicity
WRCC	Western Regional Climate Center
WQBEL	Water Quality Based Effluent Limitation
WQO	Water Quality Objective
WQS	Water Quality Standard

**APPENDIX 7** 

#### **APPENDIX 7: State and Regional Water Resources Control Board Contacts**

NORTH COAST REGION (1) 5550 Skylane Blvd, Ste. A Santa Rose, CA 95403 (707) 576-2220 FAX: (707)523-0135

#### SAN FRANCISCO BAY REGION (2) 1515 Clay Street, Ste. 1400 Oakland, CA 94612

(510) 622-2300 FAX: (510) 622-2640

**CENTRAL COAST REGION (3)** 895 Aerovista Place, Ste 101 San Luis Obispo, CA 93401 (805) 549-3147 FAX: (805) 543-0397

LOS ANGELES REGION (4) 320 W. 4<sup>th</sup> Street, Ste. 200 Los Angeles, CA 90013 (213) 576-6600 FAX: (213) 576-6640

**CENTRAL VALLEY REGION (5S)** 11020 Sun Center Dr., #200 Rancho Cordova, CA 95670-6114 (916) 464-3291 FAX: (916) 464-4645

**FRESNO BRANCH OFFICE (5F)** 1685 E St. Fresno, CA 93706 (559) 445-5116 FAX: (559) 445-5910

**REDDING BRANCH OFFICE (5R)** 364 Knollcrest Drive, Ste. 205 Redding, CA 96002 (530) 224-4845 FAX: (530) 224-4857 LAHONTAN REGION (6 SLT) 2501 Lake Tahoe Blvd. South Lake Tahoe, CA 96150 (530) 542-5400 FAX: (530) 544-2271

VICTORVILLE OFFICE (6V) 14440 Civic Drive, Ste. 200 Victorville, CA 92392-2383 (760) 241-6583 FAX: (760) 241-7308

**COLORADO RIVER BASIN REGION (7)** 73-720 Fred Waring Dr., Ste. 100 Palm Desert, CA 92260 (760) 346-7491 FAX: (760) 341-6820

SANTA ANA REGION (8) 3737 Main Street, Ste. 500 Riverside, CA 92501-3339 Phone (951) 782-4130 FAX: (951) 781-6288

SAN DIEGO REGION (9) 9174 Sky Park Court, Ste. 100 San Diego, CA 92123-4340 (858) 467-2952 FAX: (858) 571-6972

STATE WATER BOARD

PO Box 1977 Sacramento, CA 95812-1977 stormwater@waterboards.ca.gov



2009-0009-DWQ as amended by 2010-0014-DWQ & 2012-0006-DWQ



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FIGURE E-3 Area I Burn Pit Removal Action Soil/Stormwater Sampling Locations Early Action Work Plan Area I Burn PIRF Site Boeing RFI Subarea 1B Southwest Boeing RFI Subarea 1B Southwest Santa Susana Field Laboratory, Ventura County, California

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Note: Only detects are presented.

hple	Latitude	Longitude
<u>4</u>	34° 13' 27.55" N	118° 41' 30.83" W
9-2	34° 13' 26.68" N	118° 41' 20.58" W
φ. 3	34° 13' 27.71" N	118° 41' 19.95" W
<u>8</u> -4	34° 13' 29.27" N	118° 41' 18.98" W
ο, Ο	34° 13' 30.89" N	118° 41' 19.84" W
		L

ıple	Latitude	Longitude
4	34° 13' 27.55" N	118° 41' 30.83" W
Ň	34° 13' 26.68" N	118° 41' 20.58" W
ώ	34° 13' 27.71" N	118° 41' 19.95" W
ĭ	34° 13' 29.27" N	118° 41' 18.98" W

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ώ	34° 13' 27.71" N	118° 41' 19.95" W
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	34° 13' 27.55" N	118° 41' 30.83" W
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ω	34° 13' 27.71" N	118° 41' 19.95" W
•		

	v Direction	
Ű	Latitude	Longitude
	34° 13' 27.55" N	118° 41' 30.83" W
	34° 13' 26.68" N	118° 41' 20.58" W
	34° 13' 27.71" N	118° 41' 19.95" W

(v)
Detected <= LUTV
Detected > LUTV to <=2x LUTV
Detected >2xLUTV to <=10xLUTV
Early Action Area
Stormwater Sampling Location
SW Flow Direction

INI Y NU

# Boeing RFI Site BASEMAP LEGEND

- Area I Burn Pit RFI Site Reporting Area
- Top of Bank of Drainage Channel

- Elevation Contour Line (2-foot interval)

- Pond

Radionuciide Soli Detects Compared to January 30, 2013 Draft Provisional Radiological Look-Up Table Values (LUTV)

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