

# **California Regional Water Quality Control Board**

Los Angeles Region



Linda S. Adams Cal/EPA Secretary 320 W. 4th Street, Suite 200, Los Angeles, California 90013 Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.waterboards.ca.gov/losangeles

Arnold Schwarzenegger Governor

September 23, 2010

Mr. Robert Scott Boeing Environmental, Health and Safety 2201 Seal Beach Blvd., M/C 110-SE17 Seal Beach, CA 90740-5603

# APPROVAL OF THE REVISED MONITORING AND REPORTING PROGRAM CI-9310, INDIVIDUAL WASTE DISCHARGE REQUIREMENTS ORDER NO. R4-2007-0040, THE BOEING COMPANY, FORMER C-6 FACILITY, 19503 SOUTH NORMANDIE AVENUE, LOS ANGELES, CALIFORNIA (FILE NO. 95-036; SCP NO. 0410; SITE ID NO. 184600)

#### Dear Mr. Scott:

We have received the "Request for Extension of Monitoring and Reporting Program No. CI-9310, Individual Waste Discharge Requirements (WDR) Order No. R4-2007-040, The Boeing Company, Former C-6 Facility, 19503 South Normandie Avenue, Los Angeles, California" (Letter) dated July 26, 2010, prepared by CDM. On August 9, 2007, an Individual WDR (WDR Order No. R4-2007-0040, CI-9310) was granted to The Boeing Company (Boeing) to inject electron donor amendment and bioaugmentation culture, which involves the addition of selected non-pathogenic (naturally derived, not genetically engineered) chlorinated ethene-degrading Dehalococcoides ethenogenes culture (referred to as Shaw's SDC-9<sup>TM</sup> culture, or SiREM's KB-1<sup>TM</sup>) in select areas to facilitate reductive dechlorination of chlorinated volatile organic compounds, with groundwater extraction to remediate shallow groundwater underlying the former Building 1/36 source area. This approach is referred to as Biorecirculation.

Since the WDR was issued, bioremediation injections have been initiated in the former Building 1/36 area and former Building 2 C-Sand wells, and monitoring and sampling have been conducted pursuant to the revised Monitoring and Reporting Program (MRP) CI-9310, dated August 22, 2008. Based on the monitoring data collected to date and in order to continue to monitor the slow progression of biodegradation, Boeing requests in the Letter that an additional annual sampling event be added to the MRP, which would extend the MRP to 2011. Therefore, Boeing proposes to submit an addendum to the Final WDR Report by July 30, 2011. Regional Board staff has reviewed the information provided and concurs with Boeing's proposed change. No other changes to MRP CI-9310 are being made at this time.

Section 13263 (e) of the California Water Code provides that all Requirements shall be reviewed periodically and, upon such review, may be revised by the Regional Board. Regional Board staff has reviewed the information provided and concurs with Boeing's proposal to revise the MRP to include the above referenced change to the MRP. Attached please find Revised Monitoring and Reporting Program CI-9310 dated September 23, 2010, which supersedes the Monitoring and Reporting Program dated August 22, 2008.

# California Environmental Protection Agency

Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

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Mr. Robert Scott Boeing Environmental, Health and Safety SCP No. 0410

The Revised Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this Order. All monitoring reports should be sent to the Regional Board, ATTN: INFORMATION TECHNOLOGY UNIT.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to **Compliance File No. CI-9310** and **Order No. R4-2007-0040**, which will assure that the reports are directed to the appropriate file and staff. Please do not combine your discharge monitoring reports with other reports. Submit each type of report as a separate document.

Please call Ms. Ana Townsend at (213) 576-6738, or Ms. Su Han at (213) 576-6735 if you have any questions.

Sincerely,

Samuel Unie Samuel Unger, P.E

Executive Officer

Attachment: Revised Monitoring and Reporting Program CI-9310, dated September 23, 2010

cc:

Shea Jones, United States Environmental Protection Agency, Region 9
Kurt Souza, State Department of Health Services, Drinking Water Field Operations Branch
Brian Hooper, Los Angeles County Department of Public Works, Waste Management Division
Carl G. Brooks, South Coast Air Quality Management District
Mark Stuart, California Department of Water Resources, Watermaster, Central Basin,
Ted Johnson, Water Replenishment District of Southern California
Cheryl Ross, West Basin Municipal Water District
Alex P. Carlos, Regional Water Quality Control Board, Region 4
Ravi Subramanian, CDM
Joseph Weidmann, Haley & Aldrich

California Environmental Protection Agency

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# STATE OF CALIFORNIA CALIFORIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

# MONITORING AND REPORTING PROGRAM NO. <u>CI-9310</u> FOR THE BOEING COMPANY FORMER C-6 FACILITY

#### FILE NO. 95-036, SCP NO. 0410

The Discharger shall implement this monitoring and reporting program on the effective date of this Order.

### I. GROUNDWATER MONITORING PROGRAM

The former Building 1/36 biorecirculation pilot test was initiated in the First quarter of 2008 and, former Building 2 periodic slug injections were conducted in the Second and Third quarter of 2008. The following groundwater wells and amendment points will be included in the sampling program:

#### Former Building 1/36 Biorecirculation Pilot Test

Group A

_	Group A1:	AW0066UB and AW0067U	В			
	Group A2:	AW0064UB and AW0065U	В		· · ·	
Group	В			•		
	Group B1:	AW0075UB, AW0076UB,	AW0077UB,	EWB002,	AW0055UB,	and
		AW0073C	)			
	Group B2:	WCC_06S and AW0074UB				
<b>`</b>	C					

Group C: TMW\_07 and WCC\_12S

Group D: MWB006

Note: AW0055UB was replaced by MWB006 as the Group D well and added as a Group B1 well in August 2008. As a result, AW0055UB and MWB006 meet many of the monitoring requirements listed below prior to August 2008, but not all.

#### Former Building 2 Periodic Slug Injections

Group A:	IRZC001, and IRZC0003 through IRZC0020
Group B:	CMW026, IRZCMW003, IRZCMW002 and MWC024
Group C:	CMW002
Group D:	IRZCMW001

Figure 1 shows the location of the Site. Groundwater well and amendment point locations at the Site that will be used for the Building 1/36 pilot test are shown on attached Figure 2 and for the Building 2 periodic slug injections on attached Figures 3 and 4. Group A sampling points, for both areas, are amendment points where donor will be introduced. Due to the lower than

Monitoring and Reporting Program No. CI-9310

anticipated flow from extraction well EWB001, Group A1 sampling points are amendment points where donor is planned to be introduced initially. Group A2 sampling points are backup amendment points where donor could be introduced in the event of higher flow from EWB001 or from the contingency extraction well WCC\_06S or the addition of another extraction well (to be decided based on evaluation of system operation). Group B wells, for both areas, consist of monitoring wells that are located within the treatment zone, which will be used to evaluate electron donor consumption and distribution and the effectiveness of the biologically active zones over time. For the Building 1/36 pilot test, all Group A and B wells will be used for performance monitoring purposes as follows:

- When donor is introduced in Group A1 wells, only Group B1 wells will be monitored per the table below.
- When donor is introduced in Group A1 and Group A2 wells, then all Group B wells (B1 and B2) will be monitored per the table below.

For the Building 2 periodic slug injections, only Group B wells will be used for performance monitoring purposes, as Group A wells are not exposed to surface and therefore are not accessible for sampling. The Group C sampling points are downgradient sample locations, and Group D points are upgradient sample locations, for both areas.

Baseline sampling will take place prior to injection and will include at least one event for the Building 1/36 pilot test and the Building 2 periodic slug injections. The samples will be analyzed for field parameters (oxidation-reduction potential [ORP], dissolved oxygen [DO], pH, specific conductance, temperature, turbidity and groundwater elevation), chlorinated volatile organic compounds (VOCs), dissolved hydrocarbon gases (methane, ethane, and ethene), total organic carbon (TOC), volatile fatty acids (VFAs), alkalinity, ferrous iron by field kit, anions (sulfate and chlorides), and bacterial DNA analysis by Quantitative Polymerase Chain Reaction test (qPCR). If a tracer test is conducted, samples will be analyzed for bromide too.

		· ·		
CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS – BUILDING 1/36 PILOT TEST	MINIMUM FREQUENCY OF ANALYSIS – BUILDING 2 SLUG INJECTIONS
Injections	Liters or Gallons	Measurement	Per injection	Per injection
Groundwater Elevation	Feet below ground surface (bgs)	În situ	Groups A1 and B1 OR A and B: Baseline, monthly following injection for first six months, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Groups A1 (or A)-D: Semi-annually after Year 1	Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Groups B-D: Semi-annually after Year 1
Field Parameters (DO, ORP, pH, Temperature, Specific Conductance, and Turbidity)	mg/l, millivolts, pH units, degrees C, μS/cm, and NTU, respectively	Grab	Group A1 OR A: Baseline and quarterly post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Groups A1 (or A)-D: Semi-annually after Year 1	Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B-D: Semi-annually after Year 1

The required constituents to be analyzed and the monitoring schedule for each sample group for the Building 1/36 pilot test and periodic slug injections at Building 2 are shown below.

# The Boeing Company Monitoring and Reporting Program No. CI-9310

# File No. 95-036 Order No. R4-2007-0040

Chlorinated	μg/l	Grab	Group A1 OR A: Baseline and quarterly	Group B: Baseline, Month 1 and Month 2
Volatile Organic Compounds			post injection for Year 1 Group B1 OR B: Baseline, monthly	following injection, quarterly for rest of Year 1
(EPA Method			following injection for first six months,	Groups C and D: Baseline and quarterly for
8260B)			quarterly for rest of Year 1	Year 1
			Groups C and D: Baseline and quarterly for Year 1	Groups B-D: Semi-annually after Year 1
			Groups A1 (or A)-D: Semi-annually after Year 1	· · ·
Total Organic	mg/l	Grab	Group A1 OR A: Baseline and quarterly	Group B: Baseline, Month 1 and Month 2
Carbon (EPA Method 9060			post injection for Year 1 Group B1 OR B: Baseline, monthly	following injection, quarterly for rest of Year 1
Modified or			following injection for first six months,	Groups C and D: Baseline and quarterly for
equal)			quarterly for rest of Year 1	Year 1
		. <b>*</b>	Groups C and D: Baseline and quarterly	Group B-D: Semi-annually after Year 1
			for Year 1	
·			Groups A1 (or A)-D: Semi-annually after Year 1	
Volatile Fatty	mg/l	Grab	Group A1 OR A: Baseline and quarterly	Group B: Baseline, Month 1 and Month 2
Acids			post injection for Year 1 Group B1 OR B: Baseline, monthly	following injection, quarterly for rest of Year 1
		•	following injection for first six months,	Groups C and D: Baseline and quarterly for
			quarterly for rest of Year 1	Year 1
<ul> <li></li> </ul>			Groups C and D: Baseline and quarterly	Group B: No analysis for Year 2 unless
	·		for Year 1 Groups A and B: No analysis for Year 2	additional injections are conducted Groups C and D: Semi-annually after Year
1			Groups C and D: Semi-annually after Year	1
			1	
Debalaassidaa		Grab	Group A1 OR A: Baseline and semi-	Group B: Baseline, Month 1 and Month 2
Dehalococcoides spp. strains	gene copies/mL	Giab	annually post injection for Year 1	following injection, quarterly for rest of
(Quantitative	000100/1112		Group B1 OR B: Baseline, quarterly	Year 1
Polymerase		<i>r</i>	following injection for first six months,	Groups C and D: Baseline and semi-
Chain Reaction		•	semi-annually for rest of Year 1 Groups C and D: Baseline and	annually for Year 1 Group B: No analysis for Year 2 unless
test [qPCR])			Semiannually for Year 1	additional injections are conducted
			Groups A and B: No analysis for Year 2	Groups C and D: Semi-annually after Year
			Groups C and D: Semi-annually after Year	1
Dissolved Metals	mg/l			
	mg/1	Grab	Group A1 OR A: Baseline and quarterly	Group B: Baseline, Month 1 and Month 2
(Ferrous Iron by	mg/1	- Grab	post injection for Year 1	following injection, quarterly for rest of
field kit),	mg/1	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly	following injection, quarterly for rest of Year 1
· · · ·	ing i	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and	ing i	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless
field kit), Alkalinity, and Anions (sulfate,	ing i	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and	ing i	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups A and B: No analysis for Year 2	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and	ing i		post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups A and B: No analysis for Year 2 Groups C and D: Semi-annually only for chlorides after Year 1	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved	mg/l	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups A and B: No analysis for Year 2 Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Quarterly following	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides)			post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups C and B: No analysis for Year 2 Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Quarterly following injection for Year 1, semi-annually after	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi-
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved	mg/l		post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups A and B: No analysis for Year 2 Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Quarterly following injection for Year 1, semi-annually after Year 1	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi- annually after Year 1
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved Solids (TDS) Dissolved Hydrocarbon		Grab	post injection for Year 1 <b>Group B1 OR B</b> : Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 <b>Groups C and D</b> : Baseline and quarterly for rest of Year 1 <b>Groups C and B</b> : No analysis for Year 2 <b>Groups C and D</b> : Semi-annually only for chlorides after Year 1 <b>Groups C and D</b> : Quarterly following injection for Year 1, semi-annually after Year 1 <b>Group A1 OR A</b> : Baseline and quarterly post injection for Year 1	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi- annually after Year 1 Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved Solids (TDS) Dissolved Hydrocarbon Gases (ethane,	mg/l	Grab	post injection for Year 1 Group B1 OR B: Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for rest of Year 1 Groups C and B: No analysis for Year 2 Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Quarterly following injection for Year 1, semi-annually after Year 1 Group A1 OR A: Baseline and quarterly post injection for Year 1 Group B1 OR B: Baseline, monthly	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi- annually after Year 1 Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of Year 1
field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved Solids (TDS) Dissolved Hydrocarbon Gases (ethane, ethane, and	mg/l	Grab	post injection for Year 1 <b>Group B1 OR B</b> : Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 <b>Groups C and D</b> : Baseline and quarterly for rest of Year 1 <b>Groups C and B</b> : No analysis for Year 2 <b>Groups C and D</b> : Semi-annually only for chlorides after Year 1 <b>Groups C and D</b> : Quarterly following injection for Year 1, semi-annually after Year 1 <b>Group A1 OR A</b> : Baseline and quarterly post injection for Year 1 <b>Group B1 OR B</b> : Baseline, monthly following injection for first six months, and	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi- annually after Year 1 Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for
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field kit), Alkalinity, and Anions (sulfate, nitrate, nitrite and chlorides) Total Dissolved Solids (TDS) Dissolved Hydrocarbon Gases (ethane, ethane, and	mg/l	Grab	post injection for Year 1 <b>Group B1 OR B</b> : Baseline, monthly following injection for first six months, and quarterly for rest of Year 1 <b>Groups C and D</b> : Baseline and quarterly for rest of Year 1 <b>Groups C and B</b> : No analysis for Year 2 <b>Groups C and D</b> : Semi-annually only for chlorides after Year 1 <b>Groups C and D</b> : Quarterly following injection for Year 1, semi-annually after Year 1 <b>Group A1 OR A</b> : Baseline and quarterly post injection for Year 1 <b>Group B1 OR B</b> : Baseline, monthly following injection for first six months, and	following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for Year 1 Group B: No analysis for Year 2 unless additional injections are conducted Groups C and D: Semi-annually only for chlorides after Year 1 Groups C and D: Baseline, quarterly following injection for Year 1, semi- annually after Year 1 Group B: Baseline, Month 1 and Month 2 following injection, quarterly for rest of Year 1 Groups C and D: Baseline and quarterly for

# Monitoring and Reporting Program No. CI-9310

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification; and
- c. Semi-annual observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.

#### **II. AMENDMENT INJECTION MONITORING REQUIREMENTS**

The reports shall contain the following information regarding injection activities:

1. Depth of injection points;

- 2. Quantity of amendment injected and dates injected; and
- 3. Total amount of amendment injected.

## III. REPORTING REQUIREMENTS

The first monitoring report for Building 1/36 pilot test under this Program was due July 30, 2007. The first monitoring report for Building 2 periodic slug injections under this Program was due by July 30, 2008. This monitoring and reporting program supercedes previous requirements stated in work plan approval letters. The monitoring and reporting program provided herein for Building 2 periodic slug injections is based on the fact that the first round of injections were completed in July 2008. Any future changes will be provided in a revised monitoring and reporting program.

The Discharger is required to submit a final report including baseline and donor injection data, plus quarterly and semi-annual reports (as provided below) for the duration of the Building 1/36 pilot test and Building 2 periodic slug injections. If necessary, semi-annual monitoring reports will be submitted for each additional year beyond the base duration. The groundwater monitoring wells and amendment points will be gauged and sampled, and results will be reported to the Regional Water Quality Control Board (Regional Board) under this Monitoring and Reporting Program according to the following schedules:

Reporting Period	Sampling Month(s)	Report Due Date July 30, 2007	
April – June 2007	May and June 2007		
	(Baseline Events)		
July – September 2007	None (No injections performed)	October 30, 2007	
October – December 2007	December 2007	January 30, 2008	
· · · · ·	(2nd Baseline Event for EWB002)		
January – March 2008	January*, February, and March 2008	April 30, 2008	
April – June 2008	April, May, and June 2008	July 30, 2008	
July – December 2008	September and December 2008	January 30, 2009	
January – June 2009	March 2009	July 30, 2009	
July – December 2009	September 2009	January 30, 2010	

### **Building 1/36 Pilot Test**

\* - Building 1/36 pilot test was started up on December 17, 2007. The first monthly sampling event associated with the pilot test was performed in January 2008.

# The Boeing Company

Reporting Period	Sampling Month(s)	Report Due Date
January – June 2008	March or April 2008	July 30, 2008
	(Baseline Event)	
July – December 2008	August 2008 (Month 1)*	January 30, 2009
	September 2008 (Month 2)	
	December 2008	
January – June 2009	March 2009	July 30, 2009
-	June 2009	
July – December 2009	September 2009	January 30, 2010
January – June 2010	March 2010	July 30, 2010
January – June 2011	March 2011	To be included in
-		the Addendum
		Final Report

## **Building 2 Periodic Slug Injections**

\* - The Building 2 injections were completed in July 2008. The first monthly sampling event associated with the injections will be performed in August 2008.

The Discharger shall submit Reports detailing the results of the Building 1/36 pilot test and Building 2 periodic slug injections. Where the reporting deadlines for Building 1/36 and 2 falls on the same dates, one single report combining the activities at both areas should be submitted. The reports should include an evaluation of the effectiveness of using the amendment solution to remediate VOC-contaminated groundwater at the Site, the impact of any by-products on the receiving groundwater quality, and any other effects the *in-situ* treatment may have. The Discharger is required to submit the following reports pursuant to their respective due dates:

### **Building 1/36 Pilot Test**

	Report	· · · · · ·	Due Dates
Final Report		1	January 30, 2010

#### **Building 2 Periodic Slug Injections**

Re	eport		Due Dates
Final Report	÷.,	•	July 30, 2010
Addendum Final Report			July 30, 2011

If there is no discharge or injection during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: <u>Information Technology</u> <u>Unit</u>.

Whenever wastes associated with the discharge under this Order are transported to a different disposal site, the following shall be reported in the monitoring report: type and quantity of wastes; name and address of the hauler (or method of transport if other than by hauling); and location of the final point(s) of disposal and copies of waste manifest.

# **IV. CERTIFICATION STATEMENT**

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the day of at (Signature) (Title)"

# **V. MONITORING FREQUENCIES**

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: <u>Samuel Unger</u>, P.E.

Executive Officer

Date: September 23, 2010