



**FACILITY PERMIT TO CONSTRUCT  
BP WEST COAST PROD. LLC BP CARSON REF.**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE  
The operator shall comply with the terms and conditions set forth below:

PROCESS 24		GROUNDWATER RECOVERY		
[NEW EQUIPMENT]		Process Conditions:		
Equipment	ID No.	Connected To	Emissions and Requirements	Conditions
<u>WET WELL, GROUNDWATER RECOVERY WELLS, UP TO A MAXIMUM OF 40 WELLS (18 EXISTING WELLS AS OF APRIL 2012), FOR RECOVERY OF HYDROCARBON IMPACTED GROUNDWATER AND RECOVERED OIL</u>  A/N 510406	<u>DX1</u>			<u>D90.X1, E193.X1, K67.X1, K171.X1</u>
<u>FUGITIVE EMISSIONS, MISCELLANEOUS, LIQUID SERVICE ONLY, PIPING AND COMPONENTS TRANSPORTING HYDROCARBON IMPACTED GROUNDWATER FROM RECOVERY WELLS TO TANK NOS. 101, 102, AND 103</u>  A/N 510406	<u>DX2</u>			<u>H23.31, K67.X1</u>
<u>FUGITIVE EMISSIONS, MISCELLANEOUS, LIQUID SERVICE ONLY, PIPING AND COMPONENTS TRANSPORTING REMEDIATION MATERIAL (RECOVERED OIL - ALSO KNOWN AS FREE PRODUCT) FROM RECOVERY WELLS TO TANK R-12</u>  A/N 475031	D2885		HAP: (10) [40 CFR 63 Subpart CC, #5A, 6-23-2003]	H23.3, H23.31

D90.X1 The operator shall periodically monitor the VOC concentration at the wellheads and associated components according to the following specifications:



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The operator shall comply with the terms and conditions set forth below:

The operator shall periodically monitor VOC leak emissions from groundwater recovery well caps, pumps (except submerged pump(s)), fittings, and hatches. The operator shall monitor emissions monthly for the first three (3) months following construction and quarterly thereafter. Monitoring shall be according to EPA Test Method 21, with methane as the calibrating agent.

A VOC emissions leak shall be defined as detected VOC emissions of greater than 500 ppmv. All VOC emissions leaks shall be repaired within 14 days of detection.

The operator shall keep records of each inspection, subsequent repair, and re-inspection, in a manner approved by the District.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition: DX1]

E193.X1 The operator shall construct this equipment according to the following specifications:

The groundwater recovery system shall be retrofitted with wellheads with a vapor tight design, as indicated by VOC leakage rates of less than or equal to 500 ppmv. In cases where monitoring of wellheads indicates that this limit has not been exceeded historically, no equipment modification is required.

All modifications of existing groundwater wellheads, by replacement with the vapor tight design wellheads, shall be completed within 180 days of issuance of the Permit to Construct under A/N 510406. All new groundwater recovery wells constructed after the date the Permit to Construct is issued, shall be equipped with the modified vapor tight design wellhead.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition: DX1]



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The operator shall comply with the terms and conditions set forth below:

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

**[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]**

[Devices subject to this condition: D2885]

H23.31 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	40CFR63, SUBPART	GGGGG

[40CFR63 Subpart GGGGG, 11-29-2006]

[Devices subject to this condition: D2885, DX2]

K67.X1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The operator shall maintain an updated site plan showing the locations of all groundwater recovery wells and associated piping and components.

Records shall be retained for a period of five years and made available to the Executive Officer upon request.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition: DX1, DX2]

K171.X1 The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed/constructed shall be submitted to the SCAQMD within 60 days after construction.

A final report for the Groundwater Recovery System Pilot Test shall be submitted to the SCAQMD within 30 days of completion of field monitoring activities. The report shall



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The operator shall comply with the terms and conditions set forth below:

include all monitoring results and conclusions regarding the efficiency of the redesigned wellheads in controlling VOC emissions.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

**[Devices subject to this condition: DX1]**

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