

## Carbon Scrubber Hydrogen Sulfide Removal Performance – 2Q FY11/12

File: OC.RS

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>LA CIENEGA-JEFFERSON</b> AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	ECIS	11/02/10	Removed	

Temporary scrubber unit has been removed.  
Permanent ATF currently in operation.

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>MISSION - JESSE</b> AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	ECIS	12/27/11	2.60	0.012
				12/19/11	3.30	0.007
				12/12/11	7.80	0.012
				12/05/11	4.70	0.016
				11/23/11	2.80	0.008
				11/14/11	12.00	0.009
				11/08/11	2.80	0.007
				10/31/11	4.50	0.009
				10/24/11	2.80	0.032
				10/18/11	7.60	0.009
				10/11/11	0.001	.000
				10/05/11	17.00	0.025

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>North Outfall Treatment Facility</b> AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	WLAIS	12/30/2011	5.10	0.003
				12/27/2011	6.20	0.073
				12/19/2011	1.10	0.016
				12/12/2011	1.90	0.006
				12/5/2011	3.00	0.008
				11/29/2011	5.80	0.020
				11/22/2011	4.20	0.002
				11/14/2011	5.70	0.019
				11/10/2011	10.50	0.094
				10/31/2011	4.50	0.012
				10/24/2011	8.20	0.016
				10/18/2011	4.00	0.010
				10/11/2011	5.00	0.000

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>RADFORD - WOODBRIDGE</b> AQMD Allowable Limit: 1.0 ppm	5,000 cfm	Barneby	NOS	12/27/11	0.25	0.007
				12/19/11	0.04	0.003
				12/12/11	0.16	0.001
				12/05/11	0.96	0.003
				11/29/11	0.64	0.002
				11/23/11	0.82	0.006
				11/14/11	0.55	0.003
				11/10/11	0.32	0.004
				10/31/11	0.82	0.006
				10/24/11	0.86	0.017
				10/18/11	1.70	0.008
				10/11/11	0.01	0.000
				10/03/11	3.00	0.001

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>RODEO - MLK</b> AQMD Allowable Limit: 0.6 ppm	5,000 cfm	Barneby	Maze	12/27/11	11.5	0.022
				12/12/11	4.3	0.008
				12/05/11	8.2	0.012
				11/22/11	27.0	0.001
				11/14/11	10.2	0.002
				11/10/11	13.0	0.033
				10/24/11	23.0	0.012
				10/18/11	50.0	0.004
				10/11/11	0.0	.000

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>TRAFFIC ISLAND (Rodeo and Jefferson)</b> AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	NCOS	11/29/2010	Unit to be removed	

Temporary scrubber unit to be removed.  
 Permanent ATF currently in operation.

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>BALLONA CREEK</b>	5,000 cfm	Cameron	Marina	12/27/2011	0.63	0.016
AQMD Allowable: 0.14 ppm				12/12/2011	0.009	0.000
				12/5/2011	0.81	0.007
				11/29/2011	0.43	0.000
				11/23/2011	0.68	0.003
				11/14/2011	0.55	0.001
				11/10/2011	0.70	0.004
				10/31/2011	0.69	0.004
				10/24/2011	1.08	0.012
				10/18/2011	1.20	0.001
				10/11/2011	0.00	0.000
				10/5/2011	0.00	0.000

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>Genesee</b>	5,000 cfm	Barneby	LCSEFVRS	12/27/11	0.25	0.012
AQMD Allowable: 1.0 ppm				12/19/11	0.04	0.003
				12/12/11	0.05	0.001
				12/5/11	0.14	0.002
				11/29/11	0.19	0.006
				11/22/11	0.27	0.007
				11/14/11	0.40	0.006
				11/10/11	0.41	0.010
				10/31/11	8.60	0.011
				10/24/11	0.45	0.019
				10/18/11	0.55	0.000
				10/11/11	0.00	0.000
				10/6/11	0.14	0.003

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>Dacotah</b> AQMD Allowable: 1.0 ppm	3,000 cfm	US Filter	Pump Plant	12/27/11	0.04	0.011
				12/19/11	0.02	0.001
				12/12/11	0.01	0.003
				12/05/11	0.012	0.001
				11/29/11	0.41	0.004
				11/23/11	0.50	0.002
				11/14/11	0.55	0.004
				11/08/11	0.41	0.003
				10/31/11	1.20	0.003
				10/24/11	0.39	0.006
				10/18/11	1.20	0.002
				10/11/11	0.01	.000

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>Humboldt</b> AQMD Allowable: 1.0 ppm	10,000 cfm	US Filter	NEIS	12/27/11	0.000	0.000
				12/19/11	0.000	0.000
				12/12/11	0.000	0.000
				12/05/11	0.000	0.000
				11/29/11	0.007	0.007
				11/23/11	0.000	0.000
				11/14/11	0.000	0.003
				11/08/11	0.000	0.000
				10/31/11	3.100	0.008
				10/24/11	0.000	0.000
				10/18/11	0.002	0.000
				10/11/11	0.000	0.000
				10/05/11	0.000	0.000

Location	Capacity	Model	System	Date	Inlet	Outlet
					H2S (ppm)	H2S (ppm)
<b>NORS</b> AQMD Allowable: 1.0 ppm	10,000 cfm	US Filter	NORS/ECIS	12/27/2011	3.60	0.026
				12/22/2011	4.20	0.013
				12/12/2011	2.40	0.009
				12/5/2011	3.60	0.009
				11/22/2011	11.00	0.003
				11/14/2011	16.00	0.069
				11/10/2011	27.00	0.051
				10/31/2011	43.00	0.015
				10/24/2011	31.00	0.006
				10/18/2011	12.20	0.012
				10/11/2011	0.00	.000
				10/06/2011	0.37	0.001

Location	Capacity	Model	System	Date	Inlet	Outlet
					H2S (ppm)	H2S (ppm)
<b>Richmond</b> AQMD Allowable: 1.0 ppm	10000 cfm	US Filter	NEIS	12/27/11	0.780	0.012
				12/19/11	1.100	0.007
				12/12/11	2.700	0.011
				12/5/11	3.100	0.007
				11/29/11	2.500	0.015
				11/23/11	7.100	0.001
				11/14/11	27.000	0.004
				11/8/11	1.500	0.003
				10/31/11	2.500	0.007
				10/24/11	8.800	0.028
				10/18/11	6.600	0.004
				10/11/11	0.022	0.002
				10/5/11	1.190	0

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****Sierra Bonita**

AQMD Allowable: 1.0 ppm

10000 cfm

US Filter

LCSFVRS

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
12/27/2011	3.50	0.016
12/12/2011	1.30	0.005
12/5/2011	1.30	0.011
11/28/2011	2.80	0.008
11/21/2011	2.10	0.006
11/14/2011	5.30	0.017
11/10/2011	7.00	0.017
10/31/2011	1.30	0.009
10/24/2011	4.10	0.024
10/18/2011	2.90	0.005
10/3/2011	2.40	0.006