

Carbon Scrubber Hydrogen Sulfide Removal Performance – 3Q FY09/10

File: OC.RS

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
LA CIENEGA-JEFFERSON AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	ECIS	03/30/10	4.40	0.018
				03/24/10	4.20	0.016
				03/19/10	4.90	0.018
				03/08/10	4.70	0.003
				03/01/10	2.20	0.040
				02/22/10	3.50	0.008
				02/16/10	1.20	0.009
				02/08/10	0.14	0.008
				02/01/10	1.20	0.015
				01/26/10	17.00	0.015
				01/21/10	1.80	0.012
				01/13/10	7.20	0.018
				01/06/10	4.20	0.016

Location**Capacity****Model****System****Date****Inlet
H2S (ppm)****Outlet
H2S (ppm)****MISSION - JESSE**

10,000 cfm

US Filter

ECIS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/30/10	5.20	0.012
03/23/10	9.30	0.012
03/15/10	14.00	0.011
03/08/10	8.20	0.043
03/01/10	1.20	0.017
02/22/10	13.00	0.020
02/16/10	1.80	0.020
02/08/10	1.19	0.004
02/01/10	0.74	0.013
01/25/10	1.50	0.009
01/19/10	3.80	0.010
01/11/10	14.00	0.028
01/06/10	0.90	0.007

Location**Capacity****Model****System****Date****Inlet
H2S (ppm)****Outlet
H2S (ppm)****North Outfall Treatment
Facility**

10,000 cfm

US Filter

WLAIS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
3/30/2010	12.00	0.009
3/23/2010	15.00	0.008
3/15/2010	9.00	0.011
3/8/2010	4.60	0.00
3/1/2010	4.90	0.061
2/22/2010	9.60	0.031
2/16/2010	3.20	0.010
2/8/2010	0.45	0.008
2/1/2010	0.65	0.007
01/26/10	4.30	0.004
01/19/10	1.30	0.120
01/11/10	3.80	0.006
01/06/10	5.50	0.005

Location**Capacity****Model****System****Date****Inlet
H2S (ppm)****Outlet
H2S (ppm)****RADFORD - WOODBRIDGE**

5,000 cfm

Barneby

NOS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/31/10	0.62	0.008
03/23/10	1.10	0.005
03/15/10	0.34	0.000
03/08/10	0.28	0.001
03/01/10	1.80	0.035
02/22/10	0.21	0.000
02/19/10	0.054	0.000
02/08/10	0.099	0.002
02/01/10	0.57	0.006
01/26/10	0.13	0.000
01/21/10	0.01	0.000
01/11/10	0.42	0.004
01/08/10	1.15	0.006

Location**Capacity****Model****System****Date****Inlet
H2S (ppm)****Outlet
H2S (ppm)****RODEO - MLK**

5,000 cfm

Barneby

Maze

AQMD Allowable Limit: 0.6 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/30/10	3.0	0.010
03/23/10	0.8	0.005
03/15/10	3.2	0.002
03/08/10	14.0	0.012
03/01/10	1.0	0.025
02/22/10	16.0	0.014
02/16/10	1.8	0.021
02/08/10	12.3	0.014
02/01/10	1.4	0.011
01/26/10	24.0	0.010
01/21/10	0.3	0.001
01/11/10	4.0	0.010
01/06/10	0.6	0.025

Location**TRAFFIC ISLAND (Rodeo and Jefferson)**

AQMD Allowable Limit: 1.0 ppm

Capacity

10,000 cfm

Model

US Filter

System

NCOS

Date**Inlet
H2S (ppm)****Outlet
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
3/31/2010	4.40	0.010
3/23/2010	4.10	0.008
3/15/2010	3.10	0.010
3/8/2010	3.60	0.008
3/1/2010	1.20	0.008
2/22/2010	5.10	0.009
2/16/2010	3.40	0.009
2/8/2010	3.80	0.010
2/1/2010	3.80	0.002
1/26/2010	5.50	0.004
1/19/2010	3.90	0.002
1/11/2010	0.119	0.003
1/6/2010	6.00	0.008

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
23RD AND SAN PEDRO AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	ECIS			

Unit has been permanently removed

Location**BALLONA CREEK**

AQMD Allowable: 0.14 ppm

Capacity

5,000 cfm

Model

Cameron

System

Marina

Date**Inlet
H2S (ppm)****Outlet
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/30/10	0.82	0.007
03/23/10	0.99	0.006
03/15/10	1.13	0.001
03/08/10	0.70	0.001
03/01/10	0.65	0
02/22/10	0.72	0.007
02/16/10	0.56	0.002
02/08/10	0.14	0.002
02/01/10	0.34	0.002
01/26/10	0.63	0.004
01/19/10	0.14	0.002
01/11/10	0.12	0.002
01/06/10	0.55	0.004

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

AQMD Allowable: 1.0 ppm

5,000 cfm

Barneby

LCSFVRS

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
3/31/10	0.66	0.012
3/23/10	1.16	0.019
3/15/10	1.11	0.003
3/8/10	0.40	0.004
3/1/10	0.17	0.008
2/22/10	0.37	0.009
2/16/10	0.20	0.001
2/8/10	0.47	0.004
2/1/10	0.23	0.004
1/26/10	0.13	0.006
1/21/10	0.58	0.005
1/13/10	0.58	0.006
1/6/10	0.11	0.011

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

AQMD Allowable: 1.0 ppm

3,000 cfm

US Filter

Pump
Plant

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/30/10	1.90	0.003
03/23/10	0.71	0.006
03/15/10	0.23	0.00
03/08/10	0.29	0.001
03/01/10	0.22	0.006
02/22/10	0.57	0.006
02/16/10	0.53	0.002
02/08/10	0.84	0.00
02/01/10	0.16	0.007
01/25/10	2.20	0.012
01/19/10	0.007	0.00
01/11/10	0.16	0.005
01/06/10	0.04	0.006

Location**Humboldt**

AQMD Allowable: 1.0 ppm

Capacity

10,000 cfm

Model

US Filter

System

NEIS

Date**Inlet
H2S (ppm)****Outlet
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
03/23/10	28.00	0.019
03/15/10	1.25	0.007
03/08/10	1.40	0.003
03/01/10	7.70	0.022
02/22/10	36.00	0.014
02/16/10	2.30	0.009
02/08/10	0.00	0.00
02/01/10	0.93	0.002
01/26/10	0.00	0.00
01/19/10	0.00	0.002
01/11/10	0.00	0.005
01/06/10	0.00	0.00

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

AQMD Allowable: 1.0 ppm

10,000 cfm

US Filter

NORS/ECIS

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
3/31/2010	0.72	0.008
3/23/2010	0.62	0.007
3/15/2010	9.40	0.004
3/8/2010	2.30	0.002
3/1/2010	4.90	0.045
2/22/2010	6.00	0.023
2/16/2010	0.80	0.002
2/8/2010	0.18	0.003
2/1/2010	0.58	0.004
1/26/2010	3.70	0.002
1/19/2010	2.40	0.011
1/11/2010	9.70	0.015
1/6/2010	2.10	0.005

Location**Richmond**

AQMD Allowable: 1.0 ppm

Capacity

10000 cfm

Model

US Filter

System

NEIS

Date**Inlet
H2S (ppm)****Outlet
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
3/30/10	3.300	0.013
3/23/10	6.600	0.013
3/8/10	0.160	0.002
3/1/10	2.400	0.005
2/22/10	9.200	0.007
2/16/10	2.220	0.010
2/8/10	0.160	0.004
2/1/10	0.260	0.007
1/25/10	0.820	0.010
1/19/10	1.100	0.005
1/11/10	12.000	0.013
1/6/10	1.300	0.013

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)
3/24/2010	0.92	0.006
3/15/2010	0.80	0.006
3/11/2010	0.84	0.020
3/4/2010	0.92	0.020
2/26/2010	0.82	0.006
2/17/2010	0.74	0.003
2/9/2010	0.53	0.002
2/4/2010	1.30	0.002
1/29/2010	5.70	0.007
1/19/2010	0.30	0.002
01/11/10	1.60	0.003
01/05/10	1.40	0.002