

Carbon Scrubber Hydrogen Sulfide Removal Performance – 2Q 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	12/29/09	5.20	0.015
				12/22/09	10.00	0.005
				12/14/09	9.00	0.015
				12/07/09	3.20	0.017
				11/30/09	3.60	0.007
				11/23/09	9.40	0.016
				11/16/09	3.20	0.022
				11/06/09	5.30	0.012
				10/29/09	4.20	0.012
				10/13/09	4.50	0.012
				10/08/09	5.80	0.010
				10/01/09	4.80	0.008

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)
12/28/09	3.30	0.002
12/21/09	5.20	0.013
12/14/09	10.90	0.013
12/07/09	2.80	0.015
11/30/09	6.20	0.005
11/23/09	9.20	0.012
11/16/09	3.50	0.007
11/09/09	5.40	0.011
11/04/09	9.40	0.006
10/27/09	0.48	0.018
10/19/09	3.70	0.002
10/13/09	7.80	0.022
10/05/09	0.30	0.002

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)
12/28/09	0.90	0.006
12/22/09	2.70	0.005
12/14/09	1.50	0.014
12/07/09	2.80	0.010
11/30/09	11.30	0.001
11/23/09	6.20	0.008
11/16/09	3.80	0.001
11/09/09	5.20	0.005
11/04/09	2.50	0.012
10/27/09	2.60	0.005
10/19/09	4.63	0.003
10/13/09	4.20	.000
10/07/09	3.20	.000

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)
12/28/09	0.64	0.008
12/21/09	0.13	0.000
12/14/09	0.16	0.004
12/10/09	0.52	0.000
11/30/09	0.16	0.003
11/23/09	0.14	0.008
11/17/09	1.50	0.011
11/13/09	0.62	0.002

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)
12/28/09	13.0	0.012
12/21/09	3.8	0.022
12/15/09	4.2	0.003
12/07/09	2.5	0.011
11/30/09	5.1	0.005
11/23/09	13.0	0.018
11/16/09	2.3	0.014
11/09/09	8.1	0.009
11/04/09	2.2	0.002
10/27/09	4.4	0.046
10/19/09	2.7	0.019
10/13/09	1.8	0.003
10/05/09	2.6	0.003
10/01/09	6.3	0.009

Location**Capacity****Model****System****Date****Inlet
H2S (ppm)****Outlet
H2S (ppm)****TRAFFIC ISLAND (Rodeo and
Jefferson)**

10,000 cfm

US Filter

NCOS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
12/28/2009	3.40	0.017
12/21/2009	4.90	0.007
12/14/2009	6.30	0.013
12/7/2009	4.60	0.009
11/30/2009	3.80	0.009
11/23/2009	3.90	0.011
11/16/2009	5.10	0.001
11/9/2009	4.60	0.008
11/4/2009	3.80	0.004
10/27/2009	3.80	0.007
10/19/2009	13.00	0.008
10/13/2009	3.60	0.009
10/5/2009	3.80	0.006

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)
12/28/09	0.74	0.004
12/21/09	0.30	0.000
12/14/09	0.03	0.006
12/07/09	1.70	0.011
11/30/09	1.34	0.007
11/23/09	1.30	0.014
11/16/09	0.24	0.004
11/09/09	0.52	0.001
11/04/09	2.50	0.019
10/27/09	0.19	0.002
10/19/09	2.40	0.008
10/13/09	0.15	0.004
10/05/09	0.52	0.002

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)
12/28/09	0.16	0.008
12/21/09	0.14	0.004
12/14/09	0.13	0.004
12/7/09	1.20	0.022
11/30/09	0.44	0.004
11/23/09	0.54	0.012
11/16/09	0.10	0.003
11/9/09	0.31	0.011
11/4/09	0.22	0.001
10/27/09	0.20	0.004
10/19/09	0.16	0.003
10/13/09	0.18	0.006
10/5/09	0.16	0.009

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)
12/29/09	1.09	0.00
12/22/09	0.94	0.003
12/14/09	0.88	0.00
12/07/09	0.11	0.008
12/01/09	0.62	0.010
11/23/09	1.80	0.009
11/16/09	0.34	0.002
11/09/09	0.41	0.012
11/04/09	0.56	0.006
10/27/09	0.36	0.049
10/19/09	0.45	0.004
10/13/09	0.23	0.027
10/05/09	0.37	0.005

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)
12/28/09	0.00	0.001
12/21/09	0.00	0.003
12/14/09	0.00	0.00
12/07/09	0.00	0.00
11/30/09	0.007	0.006
11/23/09	0.00	0.00
11/16/09	0.00	0.00
11/09/09	0.00	0.002
11/04/09	0.00	0.00
10/27/09	0.00	0.002
10/19/09	0.00	0.00
10/13/09	0.00	0.001
10/05/09	0.00	0.001

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)
12/28/2009	2.00	0.015
12/21/2009	4.20	0.008
12/14/2009	7.00	0.008
12/7/2009	2.40	0.014
11/30/2009	7.60	0.012
11/23/2009	8.40	0.012
11/16/2009	1.60	0.002
11/9/2009	7.90	0.006
11/4/2009	8.40	0.003
10/27/2009	7.00	0.005
10/19/2009	3.83	0.010
10/13/2009	1.60	0.008
10/5/2009	3.20	0.002

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)
12/28/09	11.000	0.021
12/21/09	3.300	0.017
12/14/09	10.100	0.005
12/7/09	3.200	0.013
11/30/09	2.100	0.007
11/23/09	5.100	0.026
11/16/09	1.900	0.022
11/9/09	0.960	0.017
11/4/09	12.000	0.023
10/27/09	0.630	0.017
10/19/09	4.100	0.026
10/13/09	2.300	0.005
10/5/09	0.210	0.001

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)
12/28/09	3.10	0.000
12/21/09	2.80	0.000
12/14/09	0.26	0.000
11/30/09	2.50	0.018
11/23/09	2.50	0.012
11/20/09	2.60	0.012
11/04/09	3.70	0.014
10/27/09	1.30	0.005
10/19/09	0.16	0.005
10/13/09	0.92	0.002
10/07/09	0.21	0.000