



Gallup

April 2011

VanHorn, Kristen, NMENV

monthly benzene report

**From:** Larsen, Thurman [Thurman.Larsen@wnr.com]  
**Sent:** Wednesday, April 06, 2011 1:34 PM  
**To:** VanHorn, Kristen, NMENV; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD  
**Cc:** Riege, Ed; Dorsey, Alvin; Johnson, Cheryl; Tso, Janice  
**Subject:** MONTHLY BENZENE REPORT for MARCH 2011  
**Attachments:** HALL DATA-MARCH 2011.xls

Dear Kristen, Hope, et all;

The monthly flow data for March 2011 through the (N-S) Benzene Strippers to AL-1 is summarized as follows:

	North Stripper (gpm)	South Stripper (gpm)	Total Flow (gpm)
Average (gpm)	66.82	93.03	159.85
Maximum (gpm)	149.29	204.91	354.20
Minimum (gpm)	18.60	24.66	43.26

The monthly flow data for March 2011 from AL-2 to EP-1 is summarized as follows:

	Weir Height (in)	Flow Rate (gpm)	Monthly Flow (gpd)
Average	7.63	218.22	314238.34
Maximum	8.71	301.52	434194.14
Minimum	5.33	85.54	123181.11

**Benzene Stripper #3** is located in the process area. The monthly flow volume is determined as follows: The desalter effluent is routed through the benzene stripper #3. The desalter effluent for March 2011 is 3.41% average of crude charge rate. Therefore, the monthly flow for March 2011 has an average flow of 13.1 gpm, a maximum of 13.6 gpm, and a minimum of 12.1 gpm.

The above attachment is the monthly benzene results from Hall Environmental Laboratory for March 2011. No exceedance was encountered during the month of March 2011; however, Western Refining is continuing the daily benzene sampling. The diversionary tank (T-35) was put in service in January 2011. This tank has been in operation during the month of March 2011.

If you should require any additional information, please contact me at the number listed below:

Beck Larsen; CHMM, REM, RPG  
Environmental Engineer

Western Refining Company- Gallup Refinery  
Route 3, Box 7  
Gallup, NM 87301  
Office:(505) 722-0258  
Fax: (505) 722-0210  
Cell: (505) 862-1749  
Email: [thurman.larsen@wnr.com](mailto:thurman.larsen@wnr.com)

## BENZENE STRIPPER - API 1 & 2 OUTLET

Date Sample Taken	Western - Lab		Hall Sample ID	Hall Environmental Lab Data		
	AM	PM		Sample rec'd Temp <6° C Acceptable range	Results (ppb)	> 0.5 ppm
Tuesday, March 01, 2011	0.13	0.33	1103212	3.2	97	0.10
Wednesday, March 02, 2011	0.16	0.17	1103212	3.2	73	0.07
Thursday, March 03, 2011	0.21	0.14	1103254	1.4	120	0.12
Friday, March 04, 2011	0.15	0.10	1103254	1.4	130	0.13
Saturday, March 05, 2011	0.12	0.12	1103254	1.4	85.0	0.09
Sunday, March 06, 2011	0.15	0.12	1103254	1.4	120	0.12
Monday, March 07, 2011	0.38	0.16	1103372	1.0	93.0	0.09
Tuesday, March 08, 2011	0.17	0.18	1103372	1.0	77.0	0.08
Wednesday, March 09, 2011	0.14	0.13	1103372	1.0	97.0	0.10
Thursday, March 10, 2011	0.16	0.15	1103507	3.4	100.0	0.10
Friday, March 11, 2011	0.14	0.14	1103507	3.4	52.0	0.05
Saturday, March 12, 2011	0.12	0.14	1103507	3.4	67.0	0.07
Sunday, March 13, 2011	0.12	0.12	1103507	3.4	ND	0.00
Monday, March 14, 2011	0.16	0.19	1103507	3.4	ND	0.00
Tuesday, March 15, 2011	0.13	0.14	1103742	3.9	64.0	0.06
Wednesday, March 16, 2011	0.28	No Data	1103742	3.9	73.0	0.07
Thursday, March 17, 2011	No Data	No Data	1103780	2.8	62.0	0.06
Friday, March 18, 2011	0.10	0.10	1103780	2.8	ND	0.00
Saturday, March 19, 2011	0.00	8.40	1103780	2.8	ND	0.00
Sunday, March 20, 2011	0.00	0.12	1103780	2.8	63.0	0.06
Monday, March 21, 2011	0.18	0.11	1103780	2.8	65.0	0.07
Tuesday, March 22, 2011	0.00	0.20	1103947	4.6	55.0	0.06
Wednesday, March 23, 2011	0.23	0.23	1103947	4.6	87.0	0.09
Thursday, March 24, 2011	0.21	0.28	1103947	4.6	77.0	0.08
Friday, March 25, 2011	0.22	0.18	1103A15	4.3	110.0	0.11
Saturday, March 26, 2011	0.10	0.16	1103A15	4.3	54.0	0.05
Sunday, March 27, 2011	0.10	0.00	1103A15	4.3	ND	0.00
Monday, March 28, 2011	0.10	0.00	1103A15	4.3	60.0	0.06
Tuesday, March 29, 2011	0.11	0.00	1103B92	1.0	66.0	0.07
Wednesday, March 30, 2011	0.10	0.35	1103B92	1.0	ND	0.00
Thursday, March 31, 2011	0.26	0.24	1103B92	1.0	120.0	0.12

Average Temperature (°C)	2.8
Hall Average Benzene Reading (ppm)	0.07
Percent In Compliance for Month of March	100%
Percent Readings under 0.5 ppm since June 16, 2010	100%

