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**Hydrocarbon Seep
Interim Measures
Quarterly Reports**



GALLUP

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January 23, 2016

Mr. John E. Kieling, Chief
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg 1
Santa Fe, New Mexico 87505-6303

RE: HYDROCARBON SEEP INTERIM MEASURES QUARTERLY STATUS REPORT
WESTERN REFINING SOUTHWEST, INC. GALLUP REFINERY
EPA ID # NMD000333211

Dear Mr. Kieling:

The attached fourth quarter report was prepared pursuant to Comment 22 in your letter dated April 26, 2016 on the Interim Measures Report Hydrocarbon Seep Area. Comment 22 requests a quarterly status report.

If there are any questions regarding the enclosed Investigation Report, please contact Mr. Ed Riege at (505) 722-0217.

Certification

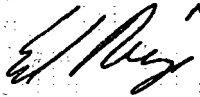
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Mr. Daniel J. Statile

VP Refining

Western Refining Southwest, Inc. – Gallup Refinery



Ed Riege

Remediation Manager

Western Refining Southwest, Inc. – Gallup Refinery

cc D. Cobrain NMED HWB
K. Van Horn, NMED HWB
~~C. Chavez, OCD~~
L. King, EPA
A. Allen, Western El Paso

QUARTERLY STATUS REPORT
HYDROCARBON SEEP INTERIM MEASURES
WESTERN REFINING SOUTHWEST, INC. - GALLUP REFINERY

FOURTH QUARTER 2016

**QUARTERLY STATUS REPORT
HYDROCARBON SEEP INTERIM MEASURES
WESTERN REFINING SOUTHWEST, INC - GALLUP REFINERY
Fourth Quarter 2016**

Activities conducted during fourth quarter 2016

- Source Control – Western continued to remove separate-phase hydrocarbon (SPH) and groundwater from the standpipe sumps (S1 - S6). Approximately 3,010 gallons of SPH and 77,870 gallons of groundwater were recovered during the fourth quarter. This represents a decrease in both SPH and groundwater recovery from the volumes recorded in the previous quarter. However, as we noted in the last quarterly status report, we were working with a new operator to confirm accurate measurements are recorded for both recovered groundwater and SPH. The fourth quarter recovery volumes actually reflect an increase in the volume of SPH recovered in comparison to the 2nd quarter of 2016. Recovery continued from the retention ditch, which was previously excavated north of the standpipes (S1-S6). Approximately 131,250 gallons of groundwater/hydrocarbon mixture were recovered during the fourth quarter. A summary table of the volumes is attached.
- Camera Surveys – Due to concerns over health and safety issues related to conducting the camera surveys on the underground process sewer lines, the scheduled work could not be completed during the fourth quarter.
- Well Yield Tests – New yield tests were conducted on the standpipe sumps (S2- S6) to evaluate the potential for automated hydrocarbon recovery. The yield tests on the individual standpipe sumps indicate recovery rates of up to 3.0 gallons per minute (gpm).

Activities planned for first quarter 2017

- Source Control – Western will continue current recovery operations at the standpipe sumps and the retention ditch using a vacuum truck to pump SPH and groundwater from each of the sumps.
- Camera Surveys – Western has identified a new contractor that is qualified to appropriately deal with health and safety issues that are associated with the process sewer lines. Western plans to secure a contract with the new contractor during the first quarter. The schedule for cleaning of drain line entrances and conducting the camera surveys has not been established but will be upon execution of the new contract. This survey will include 200 feet of underground process sewer line from the fuel oil loading rack to the manhole leading to the sewer line that was replaced in 2014. Other lines scheduled include underground process sewer lines in the southwest and west sections of the tank farm.

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
9/3/2013*	682	3818	4500				
9/3/2013*	367	4133	4500				
9/4/2013	62	3938	4000				
9/6/2013	62	3938	4000				
9/9/2013	30	4470	4500				
9/11/2013	30	4470	4500				
9/13/2013	62	3938	4000				
9/16/2013	135	5140	5275				
9/18/2013	125	4111	4236				
9/24/2013	58	4742	4800				
9/26/2013	16	4220	4236				
10/2/2013	29	4918	4947				
10/8/2013	30	4569	4599				
10/18/2013	109	5059	5168				
10/28/2013	199	5379	5578				
10/29/2013	63	4049	4112				
11/12/2013	205	5275	5480				
11/14/2013	78	5168	5246				
11/18/2013	60	4539	4599				
11/26/2013	80	5168	5248				
12/3/2013	54	5169	5223				
12/6/2013	57	4890	4947				
12/12/2013	54	5169	5223				
12/17/2013	58	4775	4833				
12/24/2013	57	4890	4947	2013 Totals	hydrocarbon recovered	water pumped	total fluid pumped
1/2/2014	88	4687	4775		2,705	111,045	113,750
1/6/2014	56	4947	5003				
1/7/2014	32	3829	3861				
1/9/2014	32	3448	3480				
1/13/2014	29	4688	4717				
1/16/2014	29	4688	4717				
1/22/2014	29	4918	4947				
1/29/2014	30	4449	4479				
1/31/2014	61	4236	4297				
2/4/2014	61	4236	4297				
2/11/2014	60	4539	4599				

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
10/14/2014	32	3320	3352				
10/21/2014	32	3955	3987				
10/30/2014	32	3955	3987				
11/7/2014	32	3320	3352				
11/12/2014	32	3320	3352				
11/18/2014	32	3064	3096				
12/4/2014	32	3829	3861				
12/9/2014	32	3955	3987				
12/15/2014	31	4081	4112				
12/24/2014	31	4081	4112				
12/30/2014	32	3703	3735	2014 Totals	hydrocarbon recovered	water pumped	total fluid pumped
1/8/2015	31	4081	4112		2,108	242,182	244,290
1/21/2015	31	4327	4358				
1/29/2015	32	3448	3480				
2/6/2015	32	3448	3480				
2/11/2015	32	3320	3352				
3/5/2015	29	4688	4717				
3/12/2015	31	4081	4112				
3/16/2015	31	4081	4112				
3/25/2015	32	3703	3735				
3/31/2015	32	3955	3987				
4/13/2015	32	3829	3861				
4/20/2015	32	3703	3735				
4/27/2015	16	4096	4112				
4/30/2015	16	4096	4112				
5/11/2015	16	4220	4236				
5/29/2015	16	3971	3987				
6/8/2015	16	4096	4112				
6/12/2015	16	4096	4112				
6/16/2015	16	4220	4236				
6/24/2015	15	4583	4599				
7/2/2015	16	4096	4112				
7/8/2015	16	3971	3987				
7/15/2015	15	4343	4358				
7/22/2015	16	4220	4236				
7/30/2015	16	3845	3861				

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
5/10/2016	45	5717	5762
5/17/2016	40	5888	5928
5/19/2016	51	5429	5480
5/24/2016	38	5966	6004
5/25/2016	49	5529	5578
5/27/2016	43	5804	5847
6/1/2016	45	5717	5762
6/3/2016	51	5429	5480
6/7/2016	35	6039	6074
6/9/2016	47	5625	5672
6/13/2016	40	5888	5928
6/16/2016	38	5966	6004
6/20/2016	40	5888	5928
6/23/2016	49	5529	5578
6/27/2016	47	5625	5672
6/30/2016	60	4419	4479
7/6/2016	232	4768	5000
7/8/2016	109	3891	4000
7/11/2016	232	4768	5000
7/19/2016	300	5300	5600
7/21/2016	109	3891	4000
7/25/2016	232	4768	5000
7/28/2016	109	3891	4000
8/2/2016	232	4768	5000
8/9/2016	300	5300	5600
8/15/2016	232	4768	5000
8/18/2016	109	3891	4000
8/23/2016	232	4768	5000
8/25/2016	109	3891	4000
8/29/2016	232	4768	5000
9/1/2016	109	3891	4000
9/7/2016	232	4768	5000
9/9/2016	109	4187	4296
9/12/2016	109	3891	4000
9/15/2016	109	3891	4000
9/19/2016	232	4768	5000
9/27/2016	300	5300	5600
9/29/2016	109	3891	4000

Western Refining Southwest, Inc. - Gallup Refinery
Retention Ditch Recovery Records

DATE	LOADS	water/oil mixture (gallons)
4/1/2016	1	5460
4/27/2016	1	5460
4/28/2016	1	5460
5/5/2016	1	5460
5/9/2016	0.75	4200
5/13/2016	1	5460
5/24/2016	1	5460
5/26/2016	0.5	2730
5/27/2016	1	5460
6/1/2016	1	5460
6/2/2016	1	5460
6/6/2016	1	5460
6/8/2016	1	5460
6/9/2016	0.5	2730
6/14/2016	1	5460
6/16/2016	1	5460
6/23/2016	1	5460
6/29/2016	0.5	2730
7/6/2016	1	5460
7/8/2016	1	5460
7/13/2016	1	5460
7/21/2016	1	5460
7/27/2016	1	5460
8/3/2016	1	5460
8/9/2016	2	10920
8/10/2016	0.5	2730
8/16/2016	1	5460
8/17/2016	1	5460
8/18/2016	0.5	2730
8/23/2016	2	10920
8/24/2016	1	5460
8/26/2016	1	5460
8/30/2016	1	5460
9/1/2016	2	10920
9/8/2016	2	10920
9/14/2016	2	10920
10/6/2016	1	5460
10/7/2016	1	5460
10/10/2016	2	10920
10/20/2016	1	5460

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
9/3/2013*	682	3818	4500
9/3/2013*	367	4133	4500
9/4/2013	62	3938	4000
9/6/2013	62	3938	4000
9/9/2013	30	4470	4500
9/11/2013	30	4470	4500
9/13/2013	62	3938	4000
9/16/2013	135	5140	5275
9/18/2013	125	4111	4236
9/24/2013	58	4742	4800
9/26/2013	16	4220	4236
10/2/2013	29	4918	4947
10/8/2013	30	4569	4599
10/18/2013	109	5059	5168
10/28/2013	199	5379	5578
10/29/2013	63	4049	4112
11/12/2013	205	5275	5480
11/14/2013	78	5168	5246
11/18/2013	60	4539	4599
11/26/2013	80	5168	5248
12/3/2013	54	5169	5223
12/6/2013	57	4890	4947
12/12/2013	54	5169	5223
12/17/2013	58	4775	4833
12/24/2013	57	4890	4947
1/2/2014	88	4687	4775
1/6/2014	56	4947	5003
1/7/2014	32	3829	3861
1/9/2014	32	3448	3480
1/13/2014	29	4688	4717
1/16/2014	29	4688	4717
1/22/2014	29	4918	4947
1/29/2014	30	4449	4479
1/31/2014	61	4236	4297
2/4/2014	61	4236	4297
2/11/2014	60	4539	4599

2013 Totals	hydrocarbon recovered	water pumped	total fluid pumped
	2,705	111,045	113,750

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
2/18/2014	57	4890	4947
2/25/2014	57	4890	4947
2/28/2014	63	3924	3987
3/4/2014	31	4327	4358
3/7/2014	29	4804	4833
3/12/2014	29	4804	4833
3/14/2014	30	4449	4479
3/17/2014	32	3829	3861
3/19/2014	32	3448	3480
3/24/2014	32	3703	3735
3/28/2014	32	3703	3735
4/1/2014	32	3703	3735
4/3/2014	32	3320	3352
4/7/2014	15	4220	4235
4/15/2014	30	4205	4235
4/23/2014	31	4327	4358
5/1/2014	31	4327	4358
5/7/2014	31	4081	4112
5/14/2014	30	4205	4235
5/22/2014	31	4081	4112
5/29/2014	31	3994	4025
6/6/2014	31	4081	4112
6/13/2014	32	3829	3861
6/20/2014	32	3955	3987
7/3/2014	31	4081	4112
7/10/2014	30	4205	4235
7/18/2014	30	4205	4235
7/28/2014	30	4205	4235
8/4/2014	30	4205	4235
8/14/2014	32	3955	3987
8/20/2014	31	4081	4112
8/29/2014	32	3955	3987
9/4/2014	32	3703	3735
9/11/2014	32	3576	3608
9/18/2014	32	3320	3352
9/26/2014	32	3448	3480
9/30/2014	32	3576	3608
10/7/2014	32	3320	3352

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)				
10/14/2014	32	3320	3352				
10/21/2014	32	3955	3987				
10/30/2014	32	3955	3987				
11/7/2014	32	3320	3352				
11/12/2014	32	3320	3352				
11/18/2014	32	3064	3096				
12/4/2014	32	3829	3861				
12/9/2014	32	3955	3987				
12/15/2014	31	4081	4112				
12/24/2014	31	4081	4112				
12/30/2014	32	3703	3735	2014 Totals	hydrocarbon recovered	water pumped	total fluid pumped
1/8/2015	31	4081	4112		2,108	242,182	244,290
1/21/2015	31	4327	4358				
1/29/2015	32	3448	3480				
2/6/2015	32	3448	3480				
2/11/2015	32	3320	3352				
3/5/2015	29	4688	4717				
3/12/2015	31	4081	4112				
3/16/2015	31	4081	4112				
3/25/2015	32	3703	3735				
3/31/2015	32	3955	3987				
4/13/2015	32	3829	3861				
4/20/2015	32	3703	3735				
4/27/2015	16	4096	4112				
4/30/2015	16	4096	4112				
5/11/2015	16	4220	4236				
5/29/2015	16	3971	3987				
6/8/2015	16	4096	4112				
6/12/2015	16	4096	4112				
6/16/2015	16	4220	4236				
6/24/2015	15	4583	4599				
7/2/2015	16	4096	4112				
7/8/2015	16	3971	3987				
7/15/2015	15	4343	4358				
7/22/2015	16	4220	4236				
7/30/2015	16	3845	3861				

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
8/6/2015	16	4220	4236
8/12/2015	16	3971	3987
8/17/2015	16	4220	4236
8/21/2015	16	3845	3861
8/26/2015	16	4220	4236
9/2/2015	15	4464	4479
9/11/2015	14	5154	5168
9/25/2015	15	4464	4479
10/2/2015	15	4583	4599
10/8/2015	16	4220	4236
10/23/2015	16	4817	4833
10/29/2015	16	4220	4236
11/11/2015	14	4933	4947
11/20/2015	24	5554	5578
11/30/2015	43	4790	4833
12/10/2015	56	5323	5379
12/17/2015	56	4891	4947
12/24/2015	54	5114	5168
12/31/2015	54	5114	5168
1/7/2016	56	5323	5379
1/19/2016	51	5429	5480
1/26/2016	56	5003	5059
2/11/2016	54	5221	5275
2/17/2016	56	4891	4947
2/25/2016	56	5323	5379
3/4/2016	47	5625	5672
3/11/2016	49	5529	5578
3/17/2016	59	4658	4717
3/24/2016	45	5717	5762
3/31/2016	49	5529	5578
4/6/2016	38	5966	6004
4/15/2016	40	5888	5928
4/20/2016	56	5323	5379
4/27/2016	43	5804	5847
5/5/2016	47	5625	5672
5/9/2016	60	4419	4479

2015 Totals	hydrocarbon recovered	water pumped	total fluid pumped
	1,071	188,634	189,707

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)
5/10/2016	45	5717	5762
5/17/2016	40	5888	5928
5/19/2016	51	5429	5480
5/24/2016	38	5966	6004
5/25/2016	49	5529	5578
5/27/2016	43	5804	5847
6/1/2016	45	5717	5762
6/3/2016	51	5429	5480
6/7/2016	35	6039	6074
6/9/2016	47	5625	5672
6/13/2016	40	5888	5928
6/16/2016	38	5966	6004
6/20/2016	40	5888	5928
6/23/2016	49	5529	5578
6/27/2016	47	5625	5672
6/30/2016	60	4419	4479
7/6/2016	232	4768	5000
7/8/2016	109	3891	4000
7/11/2016	232	4768	5000
7/19/2016	300	5300	5600
7/21/2016	109	3891	4000
7/25/2016	232	4768	5000
7/28/2016	109	3891	4000
8/2/2016	232	4768	5000
8/9/2016	300	5300	5600
8/15/2016	232	4768	5000
8/18/2016	109	3891	4000
8/23/2016	232	4768	5000
8/25/2016	109	3891	4000
8/29/2016	232	4768	5000
9/1/2016	109	3891	4000
9/7/2016	232	4768	5000
9/9/2016	109	4187	4296
9/12/2016	109	3891	4000
9/15/2016	109	3891	4000
9/19/2016	232	4768	5000
9/27/2016	300	5300	5600
9/29/2016	109	3891	4000

Western Refining Southwest, Inc. - Gallup Refinery
Stand Pipes Recovery Records

DATE	hydrocarbon recovered (gallons)	water pumped (gallons)	total fluid pumped (gallons)		hydrocarbon recovered	water pumped	total fluid pumped
10/5/2016	280	5180	5460				
10/7/2016	280	5180	5460				
10/10/2016	280	5180	5460				
10/20/2016	109	3891	4000				
10/26/2016	50	2450	2500				
10/28/2016	109	3891	4000				
11/1/2016	109	3891	4000				
11/3/2016	109	3891	4000				
11/8/2016	109	3891	4000				
11/10/2016	109	3891	4000				
11/14/2016	109	3891	4000				
11/23/2016	109	3891	4000				
12/6/2016	109	3891	4000				
12/8/2016	109	3891	4000				
12/13/2016	303	4697	5000				
12/15/2016	109	3891	4000				
12/20/2016	109	3891	4000				
12/27/2016	400	4600	5000				
12/29/2016	109	3891	4000	4th Qtr 2016 Totals	3,010	77,870	80,880
				2016 Totals	8,668	357,619	366,287
Project Totals	14,609	904,370	918,981				

* two loads were removed on this date

** based on estimates from measurements taken on 10/13/16 and 10/18/16

Western Refining Southwest, Inc. - Gallup Refinery
Retention Ditch Recovery Records

DATE	LOADS	water/oil mixture (gallons)
4/1/2016	1	5460
4/27/2016	1	5460
4/28/2016	1	5460
5/5/2016	1	5460
5/9/2016	0.75	4200
5/13/2016	1	5460
5/24/2016	1	5460
5/26/2016	0.5	2730
5/27/2016	1	5460
6/1/2016	1	5460
6/2/2016	1	5460
6/6/2016	1	5460
6/8/2016	1	5460
6/9/2016	0.5	2730
6/14/2016	1	5460
6/16/2016	1	5460
6/23/2016	1	5460
6/29/2016	0.5	2730
7/6/2016	1	5460
7/8/2016	1	5460
7/13/2016	1	5460
7/21/2016	1	5460
7/27/2016	1	5460
8/3/2016	1	5460
8/9/2016	2	10920
8/10/2016	0.5	2730
8/16/2016	1	5460
8/17/2016	1	5460
8/18/2016	0.5	2730
8/23/2016	2	10920
8/24/2016	1	5460
8/26/2016	1	5460
8/30/2016	1	5460
9/1/2016	2	10920
9/8/2016	2	10920
9/14/2016	2	10920
10/6/2016	1	5460
10/7/2016	1	5460
10/10/2016	2	10920
10/20/2016	1	5460

**Western Refining Southwest, Inc. - Gallup Refinery
Retention Ditch Recovery Records**

10/24/2016	1	5460			
10/26/2016	2	10920			
10/27/2016	1	5460			
10/31/2016	2	10920			
11/8/2016	2	10920			
11/10/2016	3	16380			
11/11/2016	0.77	4200			
11/15/2016	0.5	2730			
11/16/2016	1	5460			
12/6/2016	1	5460			
12/8/2016	1	5460			
12/14/2016	1	5460			
12/15/2016	3	15120			
				LOADS	water/oil mixture
			4th Qtr 2016 Totals	24.27	131,250
Project Totals	62.5	340,200			