

TABLE 1

**EMISSIONS ESTIMATE SUMMARY  
POWDER WASH NORTH COMPRESSOR STATION - SOUTH PIT  
MOFFAT COUNTY, COLORADO  
ANDEAVOR GATHERING I, LLC**

Sample Information and Lab Analysis								
Date	Total Flow (cf)	Delta Flow (cf)	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzene (ug/l)	Xylenes (ug/l)	VOCs TVPH (ug/l)	PID (ppm)
07/20/17	43,200	43,200	5,660	6,470	156	1,257.3	46,300	2,141
08/03/17	361,800	318,600	870	1,500	62	270	74,000	2,500
08/31/17	1,011,600	649,800	400	920	70	315	25,000	2,196
09/20/17	1,454,400	442,800	130	270	12	60	31,000	1,936
10/05/17	1,755,000	300,600	430	870	56	277	12,000	1,408
11/13/17	2,476,800	721,800	260	550	44	265	16,000	1,267

Emission Calculations							
Date	Flow Rate (cfm)	Benzene (lb/hr)	Toluene (lb/hr)	Ethyl Benzene (lb/hr)	Xylenes (lb/hr)	VOCs TVPH (lb/hr)	
07/20/17	30	0.64	0.73	0.02	0.14	5.19	
08/03/17	30	0.10	0.17	0.01	0.03	8.30	
08/31/17	30	0.04	0.10	0.01	0.04	2.81	
09/20/17	30	0.0146	0.0303	0.0013	0.0067	3.48	
10/05/17	30	0.0482	0.0976	0.0063	0.0311	1.35	
11/13/17	30	0.0292	0.0617	0.0049	0.0297	1.80	

Tons emitted over total operating time									
Date	Total Operational Hours	Delta Hours	Benzene (tons)	Toluene (tons)	Ethyl Benzene (tons)	Xylenes (tons)	TVPH (tons)	Cumulative TVPH (tons)	12 Month Rolling Throughput (tons)
07/19/17									
07/20/17	24.0	24.0	0.0076	0.0087	0.0002	0.0017	0.0623	0.0623	0.1
08/03/17	201.0	177.0	0.0086	0.0149	0.0006	0.0027	0.7348	0.7972	0.8
08/31/17	562.0	361.0	0.0081	0.0186	0.0014	0.0064	0.5063	1.3035	1.3
09/20/17	808.0	246.0	0.0018	0.0037	0.0002	0.0008	0.4278	1.7313	1.7
10/05/17	975.0	167.0	0.0040	0.0082	0.0005	0.0026	0.1124	1.8437	1.8
11/13/17	1,376.0	401.0	0.0058	0.0124	0.0010	0.0060	0.3599	2.2037	2.2
		<b>Sum</b>	<b>0.0360</b>	<b>0.0665</b>	<b>0.0039</b>	<b>0.0201</b>	<b>2.2037</b>		

**NOTES:**

cf - cubic feet

ug/l - micrograms per liter

VOCs - volatile organic compounds

TVPH - total volatile petroleum hydrocarbons

cfm - cubic feet per minute

lb/hr - pounds per hour

lbs - pounds

PID - photo-ionization detector

ppm - part per million



**FIGURE 1**  
**SVE SYSTEM EMISSIONS ESTIMATE**

**POWDER WASH NORTH COMPRESSOR STATION - SOUTH PIT**  
**MOFFAT COUNTY, COLORADO**  
**ANDEAVOR LOGISTICS**

