

AP - 111

WWTS

From: [Marcum, Vernon](#)
To: [Chavez, Carl J. EMNRD](#)
Cc: [Moore, John](#)
Subject: [EXT] RE: [EXTERNAL] FW: Gallup Refining WWTS Flow into EP-2
Date: Friday, September 25, 2020 6:14:27 AM
Attachments: [OCD 2019-2020 STP1 Discharge Data Final - 9-24-20.pdf](#)

Please find attached the information you requested.

Please do not hesitate contacting me for any additional questions.

From: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Sent: Tuesday, September 22, 2020 1:50 PM
To: Marcum, Vernon <vmarcum@marathonpetroleum.com>
Subject: RE: [EXTERNAL] FW: Gallup Refining WWTS Flow into EP-2

Vernon,

Hi. That's fine. OCD know the combined discharges end up into STP-1 for discharge into EP-2 and the rest of the pond network.

OCD is interested in the total flow rates from STP-1 into EP-2 to develop the min., max., avg. and perhaps avg. injection volume per day, mo. and year if possible.

Thank you.

Mr. Carl J. Chavez, CHMM (#13099)
New Mexico Oil Conservation Division (Albuquerque Office)
Energy Minerals and Natural Resources Department
5200 Oakland Avenue, NE
Albuquerque, New Mexico 87113
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“Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?” (To see how, go to: <http://www.emnrd.state.nm.us/OCD> and see “Publications”)

From: Marcum, Vernon <vmarcum@marathonpetroleum.com>
Sent: Tuesday, September 22, 2020 1:46 PM
To: Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>
Subject: [EXT] RE: [EXTERNAL] FW: Gallup Refining WWTS Flow into EP-2

Total flow into STP1 includes refinery sewers and sanitary discharges from the Flying J truck stop.

These combined flows enter STP1 before directly discharging into EP-2 . No flow can be diverted from these sewer systems to any other location.

The refinery and Flying J are independently metered before being manifolded together and discharged to STP1.

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
1/1/2019	200.1	288,144.0	7.0	10,046.1	207.1	298,190.1			API monthly flow average used for this date due to PI recording issue.
1/2/2019	200.1	288,144.0	9.3	13,428.4	209.4	301,572.4			API monthly flow average used for this date due to PI recording issue.
1/3/2019	200.1	288,144.0	8.1	11,657.7	208.2	299,801.7			API monthly flow average used for this date due to PI recording issue.
1/4/2019	200.1	288,144.0	10.0	14,453.8	210.1	302,597.8			API monthly flow average used for this date due to PI recording issue.
1/5/2019	200.1	288,144.0	9.6	13,836.2	209.7	301,980.2			API monthly flow average used for this date due to PI recording issue.
1/6/2019	200.1	288,144.0	8.4	12,108.2	208.5	300,252.2			API monthly flow average used for this date due to PI recording issue.
1/7/2019	200.1	288,144.0	8.5	12,215.7	208.6	300,359.7			API monthly flow average used for this date due to PI recording issue.
1/8/2019	200.1	288,144.0	8.1	11,634.1	208.2	299,778.1			API monthly flow average used for this date due to PI recording issue.
1/9/2019	200.1	288,144.0	7.1	10,283.5	207.2	298,427.5			API monthly flow average used for this date due to PI recording issue.
1/10/2019	200.1	288,144.0	5.3	7,608.3	205.4	295,752.3			API monthly flow average used for this date due to PI recording issue.
1/11/2019	200.1	288,144.0	3.5	5,030.6	203.6	293,174.6			API monthly flow average used for this date due to PI recording issue.
1/12/2019	200.1	288,144.0	2.6	3,807.1	202.7	291,951.1			API monthly flow average used for this date due to PI recording issue.
1/13/2019	200.1	288,144.0	5.2	7,530.7	205.3	295,674.7			API monthly flow average used for this date due to PI recording issue.
1/14/2019	200.1	288,144.0	3.6	5,118.6	203.7	293,262.6			API monthly flow average used for this date due to PI recording issue.
1/15/2019	200.1	288,144.0	6.4	9,194.4	206.5	297,338.4			API monthly flow average used for this date due to PI recording issue.
1/16/2019	200.1	288,144.0	4.7	6,822.0	204.8	294,966.0			API monthly flow average used for this date due to PI recording issue.
1/17/2019	200.1	288,144.0	7.9	11,414.7	208.0	299,558.7			API monthly flow average used for this date due to PI recording issue.
1/18/2019	200.1	288,144.0	8.6	12,440.7	208.7	300,584.7			API monthly flow average used for this date due to PI recording issue.
1/19/2019	200.1	288,144.0	10.1	14,500.3	210.2	302,644.3			API monthly flow average used for this date due to PI recording issue.
1/20/2019	200.1	288,144.0	22.2	31,983.6	222.3	320,127.6			API monthly flow average used for this date due to PI recording issue.
1/21/2019	200.1	288,144.0	21.8	31,459.9	221.9	319,603.9			API monthly flow average used for this date due to PI recording issue.
1/22/2019	200.1	288,144.0	19.6	28,217.8	219.7	316,361.8			API monthly flow average used for this date due to PI recording issue.
1/23/2019	200.1	288,144.0	21.6	31,109.3	221.7	319,253.3			API monthly flow average used for this date due to PI recording issue.
1/24/2019	200.1	288,144.0	22.4	32,280.3	222.5	320,424.3			API monthly flow average used for this date due to PI recording issue.
1/25/2019	225.1	324,194.7	20.4	29,425.2	245.6	353,619.9			
1/26/2019	186.5	268,565.3	23.3	33,601.4	209.8	302,166.7			
1/27/2019	193.1	278,000.1	9.1	13,071.9	202.1	291,072.0			
1/28/2019	180.5	259,935.5	6.9	9,972.8	187.4	269,908.3			
1/29/2019	186.3	268,250.6	7.7	11,028.6	193.9	279,279.2			
1/30/2019	216.4	311,564.7	9.5	13,663.8	225.9	325,228.5			
1/31/2019	212.9	306,532.5	16.0	23,072.1	228.9	329,604.6	211	9,414,517	
2/1/2019	191.6	275,893.2	20.8	29,899.7	212.4	305,793.0			
2/2/2019	178.8	257,485.3	25.1	36,195.8	203.9	293,681.1			
2/3/2019	159.6	229,883.6	26.3	37,904.5	186.0	267,788.1			
2/4/2019	153.1	220,436.1	19.3	27,848.9	172.4	248,285.0			
2/5/2019	142.5	205,156.7	25.6	36,837.3	168.1	241,994.0			
2/6/2019	196.9	283,588.6	21.5	30,916.2	218.4	314,504.8			
2/7/2019	221.9	319,534.4	24.2	34,813.8	246.1	354,348.1			
2/8/2019	163.2	235,035.3	18.5	26,634.6	181.7	261,669.9			
2/9/2019	166.7	239,979.8	22.9	32,947.7	189.5	272,927.5			
2/10/2019	191.4	275,640.7	22.2	31,940.5	213.6	307,581.2			
2/11/2019	223.4	321,724.3	18.1	26,030.5	241.5	347,754.7			
2/12/2019	211.8	305,036.5	19.9	28,602.0	231.7	333,638.5			
2/13/2019	156.9	225,992.0	21.6	31,053.0	178.5	257,045.0			
2/14/2019	203.6	293,249.1	26.8	38,572.5	230.4	331,821.6			
2/15/2019	248.7	358,195.9	22.3	32,105.8	271.0	390,301.7			
2/16/2019	254.4	366,265.4	23.7	34,174.6	278.1	400,440.0			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
2/17/2019	250.1	360,151.2	21.4	30,792.7	271.5	390,943.8			
2/18/2019	217.3	312,950.9	17.6	25,282.9	234.9	338,233.9			
2/19/2019	214.4	308,683.9	20.7	29,849.4	235.1	338,533.2			
2/20/2019	212.3	305,670.3	21.9	31,464.0	234.1	337,134.3			
2/21/2019	196.2	282,568.7	19.3	27,821.0	215.5	310,389.7			
2/22/2019	131.9	189,892.6	18.4	26,465.3	150.2	216,357.9			
2/23/2019	137.9	198,539.8	23.7	34,165.4	161.6	232,705.2			
2/24/2019	241.8	348,242.0	23.2	33,441.7	265.1	381,683.7			
2/25/2019	260.2	374,732.3	24.4	35,089.9	284.6	409,822.2			
2/26/2019	200.9	289,362.5	25.9	37,297.3	226.8	326,659.8			
2/27/2019	233.9	336,881.1	21.6	31,122.9	255.6	368,004.0			
2/28/2019	218.9	315,179.7	23.0	33,175.2	241.9	348,354.9	221	8,928,397	
3/1/2019	163.3	235,140.9	19.5	28,095.3	182.8	263,236.2			
3/2/2019	201.7	290,502.7	31.4	45,168.7	233.1	335,671.4			
3/3/2019	237.2	341,610.5	29.6	42,577.4	266.8	384,187.9			
3/4/2019	130.1	187,352.3	22.7	32,680.2	152.8	220,032.5			
3/5/2019	150.3	216,499.6	29.5	42,475.9	179.8	258,975.5			
3/6/2019	88.2	126,965.9	27.9	40,119.5	116.0	167,085.4			
3/7/2019	109.0	156,982.2	26.1	37,526.0	135.1	194,508.2			
3/8/2019	159.9	230,285.1	30.5	43,878.3	190.4	274,163.4			
3/9/2019	147.9	212,953.1	29.4	42,399.1	177.3	255,352.2			
3/10/2019	229.2	329,996.1	29.2	42,061.3	258.4	372,057.4			
3/11/2019	220.4	317,385.6	16.0	23,006.5	236.4	340,392.1			
3/12/2019	232.2	334,322.9	16.0	22,982.0	248.1	357,304.9			
3/13/2019	250.4	360,547.6	13.2	18,954.8	263.5	379,502.4			
3/14/2019	182.4	262,644.0	14.8	21,357.5	197.2	284,001.5			
3/15/2019	232.3	334,488.4	9.7	13,961.8	242.0	348,450.2			
3/16/2019	205.8	296,380.3	5.9	8,497.3	211.7	304,877.6			
3/17/2019	154.8	222,867.0	14.8	21,243.4	169.5	244,110.4			
3/18/2019	66.1	95,157.5	7.8	11,242.1	73.9	106,399.6			
3/19/2019	195.7	281,768.2	12.1	17,472.0	207.8	299,240.2			
3/20/2019	156.9	225,940.3	14.0	20,091.2	170.9	246,031.4			
3/21/2019	139.2	200,379.1	13.7	19,678.6	152.8	220,057.7			
3/22/2019	182.7	263,052.1	14.3	20,614.6	197.0	283,666.7			
3/23/2019	137.2	197,503.7	14.4	20,725.8	151.5	218,229.5			
3/24/2019	151.1	217,599.0	11.0	15,793.3	162.1	233,392.3			
3/25/2019	86.7	124,831.3	9.5	13,729.3	96.2	138,560.6			
3/26/2019	162.6	234,182.4	12.2	17,606.4	174.9	251,788.9			
3/27/2019	149.3	214,994.6	13.4	19,247.4	162.7	234,242.0			
3/28/2019	135.8	195,593.2	15.0	21,551.6	150.8	217,144.9			
3/29/2019	89.1	128,278.1	12.0	17,269.2	101.1	145,547.3			
3/30/2019	141.5	203,805.6	15.4	22,128.1	156.9	225,933.7			
3/31/2019	138.5	199,391.8	14.1	20,246.1	152.5	219,637.9	180	8,023,782	
4/1/2019	107.7	155,137.2	10.2	14,720.8	118.0	169,858.0			
4/2/2019	123.5	177,842.5	14.1	20,284.5	137.6	198,126.9			
4/3/2019	76.7	110,385.4	14.4	20,781.3	91.1	131,166.7			
4/4/2019	136.1	196,002.7	13.2	19,043.1	149.3	215,045.8			

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4/5/2019	150.7	216,959.3	12.3	17,752.7	163.0	234,712.1			
4/6/2019	177.9	256,143.9	12.4	17,789.8	190.2	273,933.7			
4/7/2019	143.4	206,506.6	12.2	17,523.0	155.6	224,029.6			
4/8/2019	96.7	139,200.7	9.9	14,190.7	106.5	153,391.4			
4/9/2019	156.7	225,696.3	10.6	15,243.4	167.3	240,939.7			
4/10/2019	158.7	228,569.1	12.1	17,426.2	170.8	245,995.3			
4/11/2019	168.4	242,430.9	13.4	19,275.8	181.7	261,706.8			
4/12/2019	122.0	175,661.9	8.4	12,033.2	130.3	187,695.1			
4/13/2019	81.7	117,640.5	12.9	18,575.7	94.6	136,216.2			
4/14/2019	165.7	238,638.9	13.5	19,456.9	179.2	258,095.8			
4/15/2019	156.0	224,641.7	9.4	13,478.8	165.4	238,120.5			
4/16/2019	152.6	219,673.1	8.8	12,725.6	161.4	232,398.6			
4/17/2019	153.9	221,658.6	12.5	18,011.9	166.4	239,670.5			
4/18/2019	103.0	148,287.2	10.5	15,069.9	113.4	163,357.1			
4/19/2019	166.3	239,489.4	9.2	13,258.0	175.5	252,747.3			
4/20/2019	161.7	232,810.4	10.5	15,100.0	172.2	247,910.3			
4/21/2019	158.4	228,070.0	9.8	14,118.4	168.2	242,188.4			
4/22/2019	147.3	212,087.4	8.0	11,461.4	155.2	223,548.8			
4/23/2019	123.7	178,092.0	9.5	13,727.4	133.2	191,819.5			
4/24/2019	87.8	126,463.5	10.3	14,810.4	98.1	141,273.9			
4/25/2019	189.9	273,462.1	10.1	14,574.0	200.0	288,036.2			
4/26/2019	196.1	282,376.7	7.8	11,292.5	203.9	293,669.2			
4/27/2019	183.4	264,026.8	11.5	16,527.3	194.8	280,554.1			
4/28/2019	88.9	127,979.8	9.6	13,754.6	98.4	141,734.4			
4/29/2019	208.0	299,560.4	7.7	11,067.9	215.7	310,628.3			
4/30/2019	218.6	314,835.1	9.8	14,177.4	228.5	329,012.5	156	6,747,583	
5/1/2019	157.5	226,770.4	10.3	14,803.1	167.8	241,573.5			
5/2/2019	35.7	51,359.6	8.5	12,173.1	44.1	63,532.6			
5/3/2019	204.5	294,548.7	8.9	12,849.6	213.5	307,398.3			
5/4/2019	192.0	276,482.8	11.4	16,412.9	203.4	292,895.7			
5/5/2019	164.2	236,443.1	10.9	15,651.2	175.1	252,094.3			
5/6/2019	158.2	227,759.1	5.8	8,319.7	163.9	236,078.8			
5/7/2019	141.9	204,351.7	6.9	9,910.2	148.8	214,261.9			
5/8/2019	146.4	210,881.2	11.2	16,155.7	157.7	227,036.8			
5/9/2019	100.6	144,881.6	5.7	8,228.9	106.3	153,110.5			
5/10/2019	277.3	399,377.9	6.6	9,515.3	284.0	408,893.2			
5/11/2019	260.4	375,038.6	12.8	18,497.3	273.3	393,535.9			
5/12/2019	215.3	310,078.9	10.2	14,626.7	225.5	324,705.6			
5/13/2019	172.5	248,384.0	9.2	13,211.1	181.7	261,595.1			
5/14/2019	186.0	267,886.7	8.9	12,846.5	195.0	280,733.2			
5/15/2019	168.0	241,886.8	10.7	15,379.5	178.7	257,266.3			
5/16/2019	232.1	334,256.4	9.8	14,171.7	242.0	348,428.1			
5/17/2019	181.0	260,623.9	8.3	11,907.3	189.3	272,531.2			
5/18/2019	168.9	243,266.5	11.8	16,936.3	180.7	260,202.8			
5/19/2019	143.3	206,311.0	11.4	16,349.9	154.6	222,660.9			
5/20/2019	146.3	210,644.0	9.5	13,662.2	155.8	224,306.3			
5/21/2019	144.6	208,205.1	10.8	15,561.4	155.4	223,766.5			
5/22/2019	108.8	156,680.1	11.5	16,502.1	120.3	173,182.2			

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5/23/2019	180.1	259,375.7	10.9	15,754.7	191.1	275,130.4			
5/24/2019	199.8	287,661.8	8.9	12,745.0	208.6	300,406.9			
5/25/2019	194.2	279,603.3	6.3	9,077.8	200.5	288,681.0			
5/26/2019	195.3	281,187.2	12.0	17,322.5	207.3	298,509.6			
5/27/2019	191.2	275,380.0	9.8	14,062.8	201.0	289,442.8			
5/28/2019	153.1	220,449.1	6.9	9,958.3	160.0	230,407.3			
5/29/2019	140.7	202,543.1	8.6	12,448.8	149.3	214,991.9			
5/30/2019	228.4	328,913.8	8.3	11,914.4	236.7	340,828.2			
5/31/2019	227.6	327,775.9	9.0	12,946.0	236.6	340,722.0	184	8,218,910	
6/1/2019	228.3	328,783.7	9.8	14,167.3	238.2	342,951.0			
6/2/2019	225.0	324,022.6	11.9	17,159.3	236.9	341,181.9			
6/3/2019	220.8	317,924.3	9.9	14,232.7	230.7	332,157.1			
6/4/2019	139.5	200,812.9	10.0	14,341.2	149.4	215,154.1			
6/5/2019	94.9	136,601.8	9.8	14,132.9	104.7	150,734.7			
6/6/2019	117.0	168,416.3	8.3	11,997.8	125.3	180,414.2			
6/7/2019	141.3	203,405.4	7.9	11,427.1	149.2	214,832.5			
6/8/2019	175.5	252,775.1	10.1	14,487.5	185.6	267,262.6			
6/9/2019	138.4	199,355.6	11.4	16,471.3	149.9	215,826.9			
6/10/2019	131.6	189,522.5	8.3	12,015.9	140.0	201,538.4			
6/11/2019	125.0	180,023.4	3.6	5,209.3	128.6	185,232.8			
6/12/2019	123.0	177,144.1	12.8	18,437.3	135.8	195,581.4			
6/13/2019	149.7	215,558.7	11.4	16,449.4	161.1	232,008.1			
6/14/2019	205.5	295,931.5	9.4	13,582.2	214.9	309,513.8			
6/15/2019	198.9	286,418.1	11.4	16,474.5	210.3	302,892.6			
6/16/2019	152.0	218,821.7	8.8	12,653.4	160.7	231,475.1			
6/17/2019	116.4	167,670.7	6.8	9,849.7	123.3	177,520.4			
6/18/2019	155.0	223,217.0	9.6	13,838.7	164.6	237,055.7			
6/19/2019	165.7	238,547.0	10.0	14,434.1	175.7	252,981.1			
6/20/2019	189.5	272,905.4	12.3	17,663.7	201.8	290,569.0			
6/21/2019	118.3	170,337.5	11.1	16,038.1	129.4	186,375.7			
6/22/2019	220.1	317,014.0	12.4	17,919.9	232.6	334,933.9			
6/23/2019	224.4	323,064.5	12.0	17,323.0	236.4	340,387.5			
6/24/2019	179.5	258,533.0	10.3	14,895.0	189.9	273,428.0			
6/25/2019	181.9	261,977.2	12.3	17,751.2	194.3	279,728.4			
6/26/2019	177.9	256,177.3	12.4	17,916.5	190.3	274,093.9			
6/27/2019	159.1	229,160.2	11.6	16,640.5	170.7	245,800.7			
6/28/2019	155.7	224,196.7	12.3	17,780.4	168.0	241,977.1			
6/29/2019	147.7	212,633.0	14.7	21,212.7	162.4	233,845.7			
6/30/2019	142.4	205,071.2	12.3	17,677.9	154.7	222,749.1	174	7,510,204	
7/1/2019	174.53	251,316.3	10.0	14,450.7	184.6	265,767.0			
7/2/2019	135.25	194,759.7	12.1	17,419.5	147.3	212,179.2			
7/3/2019	137.27	197,666.4	10.9	15,626.2	148.1	213,292.6			
7/4/2019	132.38	190,622.6	11.0	15,898.8	143.4	206,521.4			
7/5/2019	122.68	176,663.4	8.6	12,389.3	131.3	189,052.7			
7/6/2019	111.97	161,230.2	11.9	17,176.0	123.9	178,406.2			
7/7/2019	148.45	213,764.1	12.3	17,775.2	160.8	231,539.3			
7/8/2019	189.18	272,412.9	8.5	12,194.8	197.6	284,607.6			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
7/9/2019	172.17	247,927.5	9.3	13,348.9	181.4	261,276.4			
7/10/2019	42.63	61,387.9	2.8	4,088.4	45.5	65,476.3			
7/11/2019	187.42	269,889.6	10.6	15,251.3	198.0	285,140.9			
7/12/2019	223.51	321,855.9	11.2	16,065.2	234.7	337,921.1			
7/13/2019	207.80	299,237.4	14.9	21,460.8	222.7	320,698.1			
7/14/2019	178.19	256,595.4	14.5	20,919.7	192.7	277,515.1			
7/15/2019	170.44	245,437.1	5.8	8,362.0	176.2	253,799.1			
7/16/2019	155.28	223,597.2	11.8	17,027.8	167.1	240,625.0			
7/17/2019	215.88	310,869.8	12.6	18,104.1	228.5	328,974.0			
7/18/2019	222.60	320,550.5	14.7	21,227.5	237.3	341,778.0			
7/19/2019	182.54	262,857.5	12.9	18,514.5	195.4	281,372.0			
7/20/2019	158.81	228,683.0	14.4	20,694.5	173.2	249,377.5			
7/21/2019	168.22	242,234.9	14.0	20,134.7	182.2	262,369.7			
7/22/2019	154.85	222,985.7	9.8	14,065.2	164.6	237,050.9			
7/23/2019	181.36	261,163.7	12.4	17,909.2	193.8	279,073.0			
7/24/2019	201.38	289,992.8	13.6	19,519.3	214.9	309,512.0			
7/25/2019	223.22	321,436.3	11.4	16,472.7	234.7	337,909.0			
7/26/2019	199.04	286,613.3	10.9	15,709.0	209.9	302,322.3			
7/27/2019	185.23	266,730.0	11.7	16,833.4	196.9	283,563.3			
7/28/2019	150.04	216,059.0	12.0	17,328.8	162.1	233,387.7			
7/29/2019	166.34	239,532.3	10.6	15,236.3	176.9	254,768.6			
7/30/2019	180.26	259,567.3	11.3	16,321.7	191.6	275,889.0			
7/31/2019	177.03	254,917.1	11.7	16,824.4	188.7	271,741.5	181	8,072,907	
8/1/2019	0.1	189.6	13.3	19,201.0	13.5	19,390.6			
8/2/2019	0.2	217.5	13.0	18,695.9	13.1	18,913.4			
8/3/2019	30.0	43,212.5	13.9	19,965.2	43.9	63,177.7			
8/4/2019	2.9	4,160.3	13.3	19,104.3	16.2	23,264.5			
8/5/2019	13.7	19,682.8	10.5	15,123.2	24.2	34,806.0			
8/6/2019	121.7	175,320.0	10.6	15,211.3	132.3	190,531.3			
8/7/2019	114.5	164,944.3	4.8	6,851.4	119.3	171,795.6			
8/8/2019	89.9	129,448.6	5.3	7,649.5	95.2	137,098.1			
8/9/2019	6.9	9,975.2	12.2	17,585.3	19.1	27,560.5			
8/10/2019	0.1	202.7	16.1	23,152.1	16.2	23,354.8			
8/11/2019	65.3	93,997.8	16.4	23,576.8	81.6	117,574.6			
8/12/2019	107.4	154,693.6	10.9	15,716.4	118.3	170,410.0			
8/13/2019	104.6	150,598.8	10.5	15,063.1	115.0	165,661.9			
8/14/2019	0.1	184.4	11.0	15,842.8	11.1	16,027.2			
8/15/2019	33.6	48,333.6	12.2	17,519.1	45.7	65,852.7			
8/16/2019	121.4	174,879.9	11.9	17,103.1	133.3	191,982.9			
8/17/2019	56.7	81,696.6	13.6	19,638.6	70.4	101,335.2			
8/18/2019	52.8	76,017.8	15.2	21,860.4	68.0	97,878.2			
8/19/2019	73.5	105,776.0	11.0	15,909.4	84.5	121,685.4			
8/20/2019	65.1	93,731.3	11.1	15,927.7	76.2	109,659.0			
8/21/2019	66.2	95,326.3	12.1	17,467.6	78.3	112,793.9			
8/22/2019	66.2	95,280.0	12.5	17,975.6	78.6	113,255.6			
8/23/2019	23.6	33,982.6	10.8	15,546.8	34.4	49,529.4			
8/24/2019	57.0	82,100.9	12.6	18,151.4	69.6	100,252.3			
8/25/2019	104.4	150,328.9	14.4	20,741.0	118.8	171,069.8			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
8/26/2019	95.6	137,706.9	10.2	14,651.7	105.8	152,358.6			
8/27/2019	101.8	146,603.5	6.6	9,561.8	108.4	156,165.3			
8/28/2019	37.9	54,582.5	0.8	1,148.9	38.7	55,731.4			
8/29/2019	119.3	171,846.7	0.1	185.6	119.5	172,032.3			
8/30/2019	77.8	112,019.9	0.3	399.4	78.1	112,419.2			
8/31/2019	74.7	107,554.2	11.9	17,085.6	86.6	124,639.8	71	3,188,207	
9/1/2019	175.3	252,410.0	12.2	17,578.1	187.5	269,988.2			
9/2/2019	160.8	231,509.2	12.5	17,980.4	173.3	249,489.6			
9/3/2019	150.6	216,798.8	10.3	14,871.6	160.9	231,670.4			
9/4/2019	5.3	7,651.0	14.3	20,619.1	19.6	28,270.1			
9/5/2019	182.7	263,027.6	13.9	19,944.7	196.5	282,972.3			
9/6/2019	37.7	54,293.5	12.6	18,144.0	50.3	72,437.5			
9/7/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/8/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/9/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/10/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/11/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/12/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/13/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/14/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/15/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/16/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/17/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/18/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/19/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/20/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/21/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/22/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/23/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
9/24/2019	118.7	170,942.4	12.6	18,144.0	131.3	189,086.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
10/19/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/20/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/21/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/22/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/23/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/24/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/25/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/26/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/27/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/28/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/29/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/30/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
10/31/2019	175.8	253,137.6	12.6	18,144.0	188.4	271,281.6	188	8,409,730	Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/1/2019	152.7	219,830.4	14.4	20,736.0	167.1	240,566.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/2/2019	152.7	219,830.4	14.4	20,736.0	167.1	240,566.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/3/2019	152.7	219,830.4	14.4	20,736.0	167.1	240,566.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/4/2019	152.7	219,830.4	14.4	20,736.0	167.1	240,566.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/5/2019	152.7	219,830.4	14.4	20,736.0	167.1	240,566.4			Monthly average flow for API and Flying J Sanitary used due to PI Data server being moved and no longer available.
11/6/2019	86.5	124,577.6	9.8	14,087.7	96.3	138,665.3			
11/7/2019	95.3	137,179.3	16.1	23,151.9	111.3	160,331.3			
11/8/2019	189.4	272,703.5	14.7	21,110.2	204.0	293,813.7			
11/9/2019	126.0	181,469.1	17.3	24,872.5	143.3	206,341.5			
11/10/2019	136.5	196,570.1	16.8	24,142.8	153.3	220,712.9			
11/11/2019	149.9	215,793.4	12.8	18,496.4	162.7	234,289.8			
11/12/2019	146.0	210,285.6	12.5	18,060.6	158.6	228,346.2			
11/13/2019	121.7	175,302.1	15.5	22,286.7	137.2	197,588.8			
11/14/2019	173.4	249,672.3	14.1	20,269.1	187.5	269,941.5			
11/15/2019	109.4	157,522.8	14.4	20,755.5	123.8	178,278.3			
11/16/2019	177.5	255,627.5	17.1	24,623.2	194.6	280,250.7			
11/17/2019	173.9	250,353.1	16.1	23,131.4	189.9	273,484.5			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
11/18/2019	175.0	252,065.2	12.2	17,539.7	187.2	269,604.9			
11/19/2019	185.3	266,791.1	13.1	18,836.5	198.4	285,627.6			
11/20/2019	194.7	280,373.7	13.7	19,656.4	208.4	300,030.1			
11/21/2019	169.3	243,764.8	18.9	27,256.0	188.2	271,020.8			
11/22/2019	171.3	246,612.6	14.6	21,011.3	185.8	267,623.9			
11/23/2019	110.0	158,435.2	18.1	26,075.0	128.1	184,510.2			
11/24/2019	140.4	202,150.7	15.5	22,361.4	155.9	224,512.1			
11/25/2019	153.6	221,201.7	11.8	17,043.0	165.4	238,244.8			
11/26/2019	133.5	192,285.4	12.2	17,619.3	145.8	209,904.8			
11/27/2019	172.4	248,268.4	12.5	18,057.4	184.9	266,325.8			
11/28/2019	161.8	232,920.5	15.6	22,515.4	177.4	255,435.9			
11/29/2019	168.8	243,035.7	11.9	17,146.9	180.7	260,182.6			
11/30/2019	195.0	280,771.3	11.8	17,043.3	206.8	297,814.6	167	7,215,715	
12/1/2019	146.1	210,352.3	13.2	18,966.8	159.2	229,319.1			
12/2/2019	171.4	246,886.9	9.8	14,159.5	181.3	261,046.3			
12/3/2019	162.9	234,521.9	10.6	15,268.3	173.5	249,790.1			
12/4/2019	178.2	256,632.9	14.2	20,379.3	192.4	277,012.2			
12/5/2019	77.5	111,532.8	13.0	18,759.9	90.5	130,292.6			
12/6/2019	177.7	255,857.3	15.1	21,755.8	192.8	277,613.2			
12/7/2019	179.1	257,896.8	15.8	22,753.1	194.9	280,649.8			
12/8/2019	180.7	260,246.6	15.8	22,743.6	196.5	282,990.2			
12/9/2019	175.1	252,178.5	14.3	20,613.5	189.4	272,792.1			
12/10/2019	114.3	164,533.9	13.1	18,871.7	127.4	183,405.6			
12/11/2019	164.0	236,214.7	16.8	24,219.0	180.9	260,433.7			
12/12/2019	165.9	238,848.2	13.0	18,722.6	178.9	257,570.8			
12/13/2019	134.2	193,237.3	13.0	18,652.1	147.1	211,889.4			
12/14/2019	116.6	167,973.2	17.4	25,062.1	134.1	193,035.4			
12/15/2019	115.2	165,910.1	16.0	23,101.4	131.3	189,011.5			
12/16/2019	175.0	252,011.5	10.8	15,582.3	185.8	267,593.8			
12/17/2019	118.3	170,317.1	14.8	21,244.9	133.0	191,561.9			
12/18/2019	145.3	209,254.6	13.9	20,008.7	159.2	229,263.3			
12/19/2019	90.1	129,792.6	9.1	13,162.4	99.3	142,955.0			
12/20/2019	115.7	166,556.7	15.2	21,940.0	130.9	188,496.7			
12/21/2019	149.8	215,644.8	15.0	21,587.7	164.7	237,232.5			
12/22/2019	202.4	291,474.6	17.3	24,965.9	219.8	316,440.4			
12/23/2019	125.2	180,308.6	10.4	14,920.9	135.6	195,229.4			
12/24/2019	172.1	247,790.2	9.6	13,754.9	181.6	261,545.1			
12/25/2019	161.9	233,141.3	11.0	15,835.9	172.9	248,977.2			
12/26/2019	132.2	190,406.8	8.6	12,370.1	140.8	202,776.9			
12/27/2019	109.0	156,954.5	10.1	14,597.0	119.1	171,551.5			
12/28/2019	178.6	257,199.9	12.2	17,632.5	190.9	274,832.4			
12/29/2019	198.9	286,465.7	15.9	22,877.7	214.8	309,343.5			
12/30/2019	127.7	183,933.2	12.2	17,537.8	139.9	201,471.0			
12/31/2019	182.4	262,631.5	12.0	17,239.3	194.4	279,870.8	163	7,275,993	
Annual							169	88,678,845	

1/1/2020	207.0	298,099.1	14.1	20,306.2	221.1	318,405.3			
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Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
1/2/2020	156.2	224,957.2	11.3	16,204.9	167.5	241,162.1			
1/3/2020	101.1	145,562.7	12.0	17,228.1	113.0	162,790.9			
1/4/2020	161.1	231,922.4	13.8	19,815.3	174.8	251,737.7			
1/5/2020	136.4	196,478.0	14.1	20,305.5	150.5	216,783.5			
1/6/2020	97.9	140,988.1	11.3	16,285.4	109.2	157,273.5			
1/7/2020	108.9	156,829.7	13.7	19,743.0	122.6	176,572.7			
1/8/2020	71.8	103,397.2	13.6	19,624.5	85.4	123,021.7			
1/9/2020	146.2	210,474.0	14.1	20,311.5	160.3	230,785.6			
1/10/2020	191.7	276,056.7	14.6	20,972.6	206.3	297,029.3			
1/11/2020	182.9	263,362.1	15.6	22,427.3	198.5	285,789.4			
1/12/2020	144.5	208,066.7	14.9	21,474.5	159.4	229,541.2			
1/13/2020	140.6	202,395.5	12.9	18,571.5	153.4	220,967.0			
1/14/2020	123.4	177,699.9	14.8	21,379.5	138.2	199,079.4			
1/15/2020	99.9	143,894.8	15.4	22,216.7	115.4	166,111.6			
1/16/2020	173.6	249,980.8	12.6	18,109.6	186.2	268,090.4			
1/17/2020	194.7	280,425.8	17.3	24,967.5	212.1	305,393.3			
1/18/2020	201.9	290,751.6	15.8	22,715.9	217.7	313,467.5			
1/19/2020	190.1	273,799.5	16.3	23,442.3	206.4	297,241.7			
1/20/2020	174.3	250,981.3	12.5	17,969.9	186.8	268,951.2			
1/21/2020	194.7	280,307.7	14.6	20,984.1	209.2	301,291.7			
1/22/2020	201.2	289,739.6	14.6	21,057.6	215.8	310,797.2			
1/23/2020	160.7	231,466.9	14.9	21,416.1	175.6	252,883.0			
1/24/2020	227.2	327,125.5	14.2	20,460.3	241.4	347,585.8			
1/25/2020	270.7	389,854.6	17.7	25,471.3	288.4	415,325.9			
1/26/2020	166.8	240,145.5	15.2	21,914.8	182.0	262,060.3			
1/27/2020	141.9	204,302.7	12.3	17,782.5	154.2	222,085.2			
1/28/2020	140.9	202,885.5	15.7	22,570.7	156.6	225,456.2			
1/29/2020	127.3	183,274.7	15.5	22,255.5	142.7	205,530.1			
1/30/2020	120.8	173,919.1	14.2	20,446.2	135.0	194,365.3			
1/31/2020	144.5	208,043.8	16.5	23,723.8	160.9	231,767.6	172	7,699,343	
2/1/2020	157.4	226,594.5	15.2	21,887.1	172.6	248,481.6			
2/2/2020	143.8	207,051.4	17.7	25,535.6	161.5	232,587.0			
2/3/2020	200.9	289,260.0	16.3	23,489.5	217.2	312,749.5			
2/4/2020	186.4	268,397.5	16.1	23,172.4	202.5	291,569.9			
2/5/2020	145.2	209,158.7	19.5	28,045.9	164.7	237,204.6			
2/6/2020	116.4	167,673.1	14.2	20,494.8	130.7	188,167.8			
2/7/2020	181.9	261,912.9	14.7	21,198.1	196.6	283,111.0			
2/8/2020	182.5	262,853.8	17.8	25,571.8	200.3	288,425.7			
2/9/2020	174.8	251,747.5	13.4	19,365.1	188.3	271,112.6			
2/10/2020	133.4	192,132.4	11.9	17,120.9	145.3	209,253.3			
2/11/2020	157.0	226,142.0	13.7	19,799.3	170.8	245,941.3			
2/12/2020	131.9	189,993.9	18.0	25,959.6	150.0	215,953.4			
2/13/2020	159.3	229,359.9	14.7	21,190.7	174.0	250,550.6			
2/14/2020	151.6	218,296.8	14.8	21,253.8	166.4	239,550.6			
2/15/2020	121.4	174,811.3	17.7	25,445.7	139.1	200,257.0			
2/16/2020	133.6	192,318.3	15.4	22,243.1	149.0	214,561.5			
2/17/2020	149.3	214,989.0	15.1	21,726.5	164.4	236,715.6			
2/18/2020	143.4	206,558.1	13.9	19,967.5	157.3	226,525.7			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
2/19/2020	175.8	253,153.1	14.7	21,200.1	190.5	274,353.3			
2/20/2020	170.9	246,092.4	14.4	20,800.0	185.3	266,892.4			
2/21/2020	173.3	249,600.4	16.9	24,360.2	190.3	273,960.6			
2/22/2020	166.0	239,058.0	20.3	29,171.8	186.3	268,229.8			
2/23/2020	172.4	248,290.2	17.9	25,819.4	190.4	274,109.5			
2/24/2020	175.1	252,128.1	11.9	17,187.5	187.0	269,315.6			
2/25/2020	177.9	256,143.5	13.7	19,669.1	191.5	275,812.6			
2/26/2020	107.5	154,764.7	15.0	21,629.1	122.5	176,393.9			
2/27/2020	178.9	257,626.0	18.0	25,886.2	196.9	283,512.2			
2/28/2020	141.1	203,198.9	14.7	21,208.8	155.8	224,407.7			
2/29/2020	24.6	35,393.9	18.5	26,690.0	43.1	62,084.0	169	7,041,790	
3/1/2020	162.5	234,000.4	13.6	19,620.8	176.1	253,621.1			
3/2/2020	192.8	277,664.1	12.0	17,296.2	204.8	294,960.3			
3/3/2020	183.3	263,955.0	11.6	16,690.6	194.9	280,645.6			
3/4/2020	162.9	234,548.8	6.0	8,579.4	168.8	243,128.2			
3/5/2020	186.8	268,956.5	15.7	22,617.1	202.5	291,573.6			
3/6/2020	127.8	184,032.1	14.1	20,331.6	141.9	204,363.7			
3/7/2020	128.0	184,258.6	13.8	19,866.4	141.8	204,125.0			
3/8/2020	98.3	141,592.9	14.8	21,260.9	113.1	162,853.8			
3/9/2020	78.1	112,415.8	16.9	24,355.3	95.0	136,771.1			
3/10/2020	189.6	273,076.0	11.9	17,191.3	201.6	290,267.3			
3/11/2020	186.7	268,870.4	7.6	11,013.0	194.4	279,883.3			
3/12/2020	180.4	259,766.5	15.0	21,554.1	195.4	281,320.7			
3/13/2020	177.4	255,412.8	13.0	18,650.5	190.3	274,063.3			
3/14/2020	145.6	209,724.7	11.9	17,098.2	157.5	226,822.9			
3/15/2020	132.7	191,134.5	12.1	17,402.6	144.8	208,537.2			
3/16/2020	134.7	193,964.7	11.1	15,935.5	145.8	209,900.2			
3/17/2020	102.3	147,258.4	9.3	13,427.0	111.6	160,685.4			
3/18/2020	160.2	230,680.8	14.3	20,659.0	174.5	251,339.9			
3/19/2020	181.5	261,386.1	11.2	16,063.2	192.7	277,449.2			
3/20/2020	84.1	121,167.9	13.8	19,936.9	98.0	141,104.8			
3/21/2020	174.9	251,854.3	12.1	17,455.6	187.0	269,309.9			
3/22/2020	119.5	172,109.9	14.9	21,384.8	134.4	193,494.7			
3/23/2020	95.2	137,146.2	12.9	18,547.1	108.1	155,693.3			
3/24/2020	171.8	247,357.4	12.9	18,538.6	184.7	265,896.0			
3/25/2020	162.3	233,777.1	11.1	15,930.7	173.4	249,707.8			
3/26/2020	70.2	101,035.5	15.7	22,614.8	85.9	123,650.4			
3/27/2020	128.8	185,465.5	13.0	18,740.8	141.8	204,206.3			
3/28/2020	186.5	268,565.4	13.4	19,290.8	199.9	287,856.2			
3/29/2020	101.8	146,586.7	14.6	21,087.8	116.4	167,674.5			
3/30/2020	139.0	200,091.4	16.1	23,239.7	155.1	223,331.1			
3/31/2020	122.9	177,021.9	16.1	23,239.7	139.1	200,261.5	157	6,814,237	
4/1/2020	134.7	194,004.3	14.6	21,087.8	149.4	215,092.1			
4/2/2020	125.5	180,689.5	13.4	19,290.8	138.9	199,980.3			
4/3/2020	110.2	158,686.0	13.0	18,740.8	123.2	177,426.8			
4/4/2020	128.3	184,710.0	15.7	22,614.8	144.0	207,324.9			
4/5/2020	86.3	124,210.0	11.1	15,930.7	97.3	140,140.7			

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4/6/2020	126.0	181,441.3	12.9	18,538.6	138.9	199,979.9			
4/7/2020	111.1	159,951.8	12.9	18,547.1	124.0	178,498.9			
4/8/2020	106.9	153,967.4	14.9	21,384.8	121.8	175,352.2			
4/9/2020	116.4	167,665.8	12.1	17,455.6	128.6	185,121.4			
4/10/2020	108.6	156,416.9	13.8	19,936.9	122.5	176,353.8			
4/11/2020	111.6	160,696.8	11.2	16,063.2	122.8	176,760.0			
4/12/2020	106.2	152,889.7	14.3	20,659.0	120.5	173,548.7			
4/13/2020	38.0	54,672.7	9.3	13,427.0	47.3	68,099.7			
4/14/2020	118.5	170,613.4	11.1	15,935.5	129.5	186,548.9			
4/15/2020	139.1	200,312.4	12.1	17,402.6	151.2	217,715.0			
4/16/2020	87.4	125,926.4	11.9	17,098.2	99.3	143,024.6			
4/17/2020	218.4	314,466.4	13.0	18,650.5	231.3	333,116.9			
4/18/2020	163.2	235,074.7	15.0	21,554.1	178.2	256,628.8			
4/19/2020	103.3	148,711.9	7.6	11,013.0	110.9	159,724.8			
4/20/2020	19.4	27,941.8	11.9	17,191.3	31.3	45,133.1			
4/21/2020	10.6	15,285.0	16.9	24,355.3	27.5	39,640.4			
4/22/2020	68.7	98,992.2	14.8	21,260.9	83.5	120,253.1			
4/23/2020	114.8	165,256.6	13.8	19,866.4	128.6	185,122.9			
4/24/2020	64.7	93,135.9	14.1	20,331.6	78.8	113,467.5			
4/25/2020	111.3	160,215.1	15.7	22,617.1	127.0	182,832.2			
4/26/2020	39.0	56,207.1	6.0	8,579.4	45.0	64,786.5			
4/27/2020	97.0	139,668.6	11.6	16,690.6	108.6	156,359.2			
4/28/2020	15.5	22,250.2	12.0	17,296.2	27.5	39,546.4			
4/29/2020	37.2	53,520.3	13.6	19,620.8	50.8	73,141.1			
4/30/2020	61.6	88,650.8	13.0	18,790.9	74.6	107,441.7	109	4,698,163	
5/1/2020	40.3	58,103.3	13.5	19,477.5	53.9	77,580.7			
5/2/2020	46.4	66,748.1	13.0	18,700.0	59.3	85,448.1			
5/3/2020	65.0	93,657.1	11.0	15,816.7	76.0	109,473.8			
5/4/2020	49.8	71,726.5	12.4	17,817.9	62.2	89,544.4			
5/5/2020	39.6	57,050.7	12.3	17,755.0	51.9	74,805.7			
5/6/2020	17.6	25,404.8	13.8	19,940.1	31.5	45,344.9			
5/7/2020	0.1	180.7	13.8	19,913.2	14.0	20,093.8			
5/8/2020	3.1	4,513.5	12.7	18,334.6	15.9	22,848.1			
5/9/2020	47.3	68,136.5	12.7	18,331.8	60.0	86,468.3			
5/10/2020	33.0	47,587.2	9.9	14,268.7	43.0	61,855.8			
5/11/2020	107.7	155,050.2	10.3	14,895.2	118.0	169,945.4			
5/12/2020	134.3	193,389.8	13.7	19,719.2	148.0	213,109.0			
5/13/2020	25.3	36,465.6	13.3	19,168.5	38.6	55,634.1			
5/14/2020	0.1	175.0	11.6	16,746.6	11.8	16,921.6			
5/15/2020	0.1	126.4	13.7	19,672.5	13.7	19,798.8			
5/16/2020	0.1	138.3	12.9	18,514.2	13.0	18,652.5			
5/17/2020	0.1	158.6	12.0	17,311.5	12.1	17,470.1			
5/18/2020	0.1	182.0	11.0	15,873.0	11.1	16,055.0			
5/19/2020	67.3	96,930.3	16.1	23,207.9	83.4	120,138.2			
5/20/2020	134.2	193,184.6	11.6	16,690.7	145.7	209,875.3			
5/21/2020	116.6	167,903.1	11.4	16,454.4	128.0	184,357.4			
5/22/2020	117.8	169,697.0	13.4	19,326.4	131.3	189,023.4			
5/23/2020	75.5	108,648.7	17.1	24,610.6	92.5	133,259.3			

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5/24/2020	78.8	113,452.5	13.0	18,706.3	91.8	132,158.8			
5/25/2020	33.9	48,808.4	9.5	13,648.0	43.4	62,456.3			
5/26/2020	0.1	167.0	13.2	19,067.7	13.4	19,234.7			
5/27/2020	31.7	45,700.8	14.7	21,238.0	46.5	66,938.8			
5/28/2020	84.4	121,467.6	12.9	18,585.3	97.3	140,052.9			
5/29/2020	21.8	31,422.0	14.5	20,913.4	36.3	52,335.4			
5/30/2020	0.1	185.5	14.9	21,440.3	15.0	21,625.8			
5/31/2020	0.1	168.8	13.2	18,982.9	13.3	19,151.7	57	2,551,658	
6/1/2020	13.2	18,982.9	12.6	18,153.3	25.8	37,136.3			
6/2/2020	12.6	18,153.3	20.8	29,979.9	33.4	48,133.3			
6/3/2020	20.8	29,979.9	36.4	52,461.2	57.3	82,441.1			
6/4/2020	36.4	52,461.2	23.0	33,131.4	59.4	85,592.6			
6/5/2020	23.0	33,131.4	18.0	25,873.9	41.0	59,005.3			
6/6/2020	18.0	25,873.9	15.1	21,763.0	33.1	47,636.9			
6/7/2020	15.1	21,763.0	11.5	16,501.5	26.6	38,264.5			
6/8/2020	11.5	16,501.5	11.8	16,934.1	23.2	33,435.5			
6/9/2020	11.8	16,934.1	14.3	20,524.7	26.0	37,458.8			
6/10/2020	14.3	20,524.7	16.7	24,093.5	31.0	44,618.2			
6/11/2020	16.7	24,093.5	13.6	19,618.5	30.4	43,711.9			
6/12/2020	13.6	19,618.5	13.9	20,036.4	27.5	39,654.8			
6/13/2020	13.9	20,036.4	14.6	20,983.5	28.5	41,019.9			
6/14/2020	14.6	20,983.5	11.1	15,951.0	25.6	36,934.5			
6/15/2020	11.1	15,951.0	14.8	21,303.7	25.9	37,254.7			
6/16/2020	14.8	21,303.7	19.1	27,516.4	33.9	48,820.1			
6/17/2020	19.1	27,516.4	13.7	19,792.8	32.9	47,309.3			
6/18/2020	13.7	19,792.8	10.9	15,765.7	24.7	35,558.5			
6/19/2020	10.9	15,765.7	18.5	26,617.1	29.4	42,382.8			
6/20/2020	18.5	26,617.1	14.1	20,354.6	32.6	46,971.7			
6/21/2020	14.1	20,354.6	11.5	16,521.0	25.6	36,875.5			
6/22/2020	11.5	16,521.0	16.5	23,769.7	28.0	40,290.6			
6/23/2020	16.5	23,769.7	16.1	23,228.1	32.6	46,997.7			
6/24/2020	16.1	23,228.1	19.0	27,351.6	35.1	50,579.7			
6/25/2020	19.0	27,351.6	14.0	20,191.3	33.0	47,543.0			
6/26/2020	14.0	20,191.3	15.1	21,815.0	29.2	42,006.4			
6/27/2020	15.1	21,815.0	18.8	27,060.1	33.9	48,875.2			
6/28/2020	18.8	27,060.1	11.1	16,024.8	29.9	43,085.0			
6/29/2020	11.1	16,024.8	13.8	19,851.9	24.9	35,876.7			
6/30/2020	13.8	19,851.9	16.4	23,550.7	30.1	43,402.6	32	1,368,873	
7/1/2020	0.1	190.2	16.4	23,550.7	16.5	23,740.9			
7/2/2020	10.8	15,537.3	15.1	21,714.6	25.9	37,251.9			
7/3/2020	59.3	85,432.6	13.6	19,547.6	72.9	104,980.2			
7/4/2020	60.2	86,682.4	15.1	21,775.6	75.3	108,458.0			
7/5/2020	78.3	112,783.3	13.1	18,925.9	91.5	131,709.2			
7/6/2020	53.2	76,638.7	11.8	16,941.1	65.0	93,579.8			
7/7/2020	57.4	82,689.2	12.5	18,051.2	70.0	100,740.4			
7/8/2020	2.1	3,019.9	14.6	20,952.2	16.6	23,972.1			
7/9/2020	72.1	103,770.5	16.1	23,189.4	88.2	126,959.9			

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7/10/2020	71.8	103,450.4	14.1	20,319.6	86.0	123,770.0			
7/11/2020	60.1	86,528.3	15.9	22,918.1	76.0	109,446.4			
7/12/2020	76.2	109,740.6	16.3	23,489.7	92.5	133,230.4			
7/13/2020	47.8	68,767.7	15.5	22,353.2	63.3	91,120.9			
7/14/2020	76.8	110,597.0	11.5	16,612.2	88.3	127,209.2			
7/15/2020	28.1	40,451.0	13.7	19,765.4	41.8	60,216.5			
7/16/2020	60.3	86,903.2	15.9	22,914.5	76.3	109,817.7			
7/17/2020	0.2	247.3	13.5	19,503.0	13.7	19,750.3			
7/18/2020	0.2	259.1	13.6	19,637.0	13.8	19,896.1			
7/19/2020	39.3	56,547.9	14.3	20,526.6	53.5	77,074.5			
7/20/2020	135.0	194,419.9	9.6	13,794.6	144.6	208,214.5			
7/21/2020	102.1	147,054.0	12.0	17,227.6	114.1	164,281.6			
7/22/2020	83.3	119,933.3	11.2	16,123.9	94.5	136,057.2			
7/23/2020	68.8	99,029.6	11.0	15,901.5	79.8	114,931.1			
7/24/2020	68.5	98,609.3	15.9	22,840.7	84.3	121,450.0			
7/25/2020	86.0	123,780.6	21.6	31,034.5	107.5	154,815.1			
7/26/2020	126.5	182,225.3	14.8	21,343.5	141.4	203,568.8			
7/27/2020	143.9	207,262.0	11.1	16,028.9	155.1	223,290.9			
7/28/2020	172.6	248,510.8	10.1	14,531.7	182.7	263,042.5			
7/29/2020	95.5	137,479.1	11.7	16,839.9	107.2	154,319.0			
7/30/2020	125.0	179,979.3	13.8	19,914.5	138.8	199,893.8			
7/31/2020	94.9	136,634.8	12.2	17,506.7	107.0	154,141.5	83	3,720,930	
8/1/2020	0.1	189.6	10.6	15,313.6	10.8	15,503.1			
8/2/2020	0.2	217.5	14.6	21,070.6	14.8	21,288.1			
8/3/2020	30.0	43,212.5	8.8	12,601.8	38.8	55,814.2			
8/4/2020	2.9	4,160.3	9.1	13,102.1	12.0	17,262.4			
8/5/2020	13.7	19,682.8	10.1	14,607.9	23.8	34,290.7			
8/6/2020	121.7	175,320.0	12.4	17,914.0	134.2	193,234.0			
8/7/2020	114.5	164,944.3	9.2	13,185.6	123.7	178,129.8			
8/8/2020	89.9	129,448.6	11.0	15,904.2	100.9	145,352.8			
8/9/2020	6.9	9,975.2	10.4	14,939.5	17.3	24,914.7			
8/10/2020	0.1	202.7	8.1	11,667.0	8.2	11,869.7			
8/11/2020	65.3	93,997.8	9.2	13,293.6	74.5	107,291.4			
8/12/2020	107.4	154,693.6	12.2	17,512.5	119.6	172,206.1			
8/13/2020	104.6	150,598.8	10.6	15,271.3	115.2	165,870.1			
8/14/2020	0.1	184.4	10.1	14,485.4	10.2	14,669.9			
8/15/2020	33.6	48,333.6	13.0	18,702.9	46.6	67,036.5			
8/16/2020	121.4	174,879.9	11.4	16,391.9	132.8	191,271.8			
8/17/2020	56.7	81,696.6	8.6	12,386.9	65.3	94,083.5			
8/18/2020	52.8	76,017.8	9.4	13,551.1	62.2	89,569.0			
8/19/2020	73.5	105,776.0	10.7	15,446.0	84.2	121,222.0			
8/20/2020	65.1	93,731.3	12.3	17,779.6	77.4	111,510.9			
8/21/2020	66.2	95,326.3	8.0	11,561.1	74.2	106,887.5			
8/22/2020	66.2	95,280.0	7.7	11,085.9	73.9	106,365.9			
8/23/2020	23.6	33,982.6	12.5	18,038.1	36.1	52,020.7			
8/24/2020	57.0	82,100.9	8.0	11,453.7	65.0	93,554.5			
8/25/2020	104.4	150,328.9	7.2	10,334.8	111.6	160,663.6			
8/26/2020	95.6	137,706.9	10.1	14,474.9	105.7	152,181.8			

Date	API Daily Average Flow (gpm)	API Daily Total Volume (gal.)	Flying J Sanitary Daily Average Flow (gpm)	Flying J Sanitary Daily Total Volume (gal.)	Combined Total Average Flow (gpm)	Combined Daily Total Volume (gal.)	Combined Monthly Average flow (gpm)	Combined Monthly Total Volume (gal.)	Comments
8/27/2020	101.8	146,603.5	12.0	17,309.8	113.8	163,913.3			
8/28/2020	37.9	54,582.5	12.4	17,851.5	50.3	72,433.9			
8/29/2020	119.3	171,846.7	12.2	17,606.7	131.6	189,453.4			
8/30/2020	77.8	112,019.9	13.2	19,018.1	91.0	131,038.0			
8/31/2020	74.7	107,554.2	10.7	15,460.2	85.4	123,014.4	71	3,183,918	
					2020 Partial Annual		106	37,279,173	

Chavez, Carl J, EMNRD

From: Marcum, Vernon <vmarcum@marathonpetroleum.com>
Sent: Tuesday, August 11, 2020 3:20 PM
To: Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD; Moore, John
Subject: [EXT] Gallup Wastewater Treatment Plant Carbon Treatment Upgrade Summary
Attachments: 8-11-20 NMED and OCD Final Summary.pdf

Dave and Carl,

The final summary for the Gallup WWTP Carbon Treatment Upgrade that was placed in service on 3/30/20 is attached for your review. A hard copy will be mailed tomorrow.

Please do not hesitate contacting John Moore should you need additional information.



Western Refining Southwest, Inc.

A subsidiary of Marathon Petroleum Corporation

92 Giant Crossing Road
Gallup, NM 87301

August 11, 2020

Mr. Dave Cobrain
Hazardous Waste Bureau
2905 Rodeo Park Drive East Building 1
Santa Fe, New Mexico 87505-6313

Western Refining Southwest, Inc.-Gallup Refinery
Wastewater Treatment Plant Carbon Treatment System Update Summary

Dear Mr. Cobrain,

Gallup Refinery's granular activated carbon (GAC) system used to polish wastewater effluent prior to discharging to the refinery's evaporation ponds was significantly updated and placed in service on March 30, 2020.

The original system that consisted of two 10,000-pound GAC units with a maximum flow capacity of approximately 500 gpm remained in service until the updated system was brought online.

The updated system consists of three filled 20,000-pound GAC vessels with a flow capacity of 900 gpm and one empty vessel utilized during spent carbon replacement (See Attached Photos). The four-vessel piping manifold is designed to allow continuous lead-lag operation. Two vessels are always in service with the third fresh carbon bed remaining in standby.

Should you or your staff have any questions regarding this submittal, please do not hesitate to contact me at JMoore5@Marathonpetroleum.com or at (505) 722-0205.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Moore', with a long horizontal flourish extending to the right.

John Moore, P.E.
Environmental Superintendent

cc: Mr. Carl J. Chavez, CHMM (#13099)
New Mexico Oil Conservation Division (Albuquerque Office)
Energy Minerals and Natural Resources Department
5200 Oakland Avenue, NE
Albuquerque, New Mexico 87113

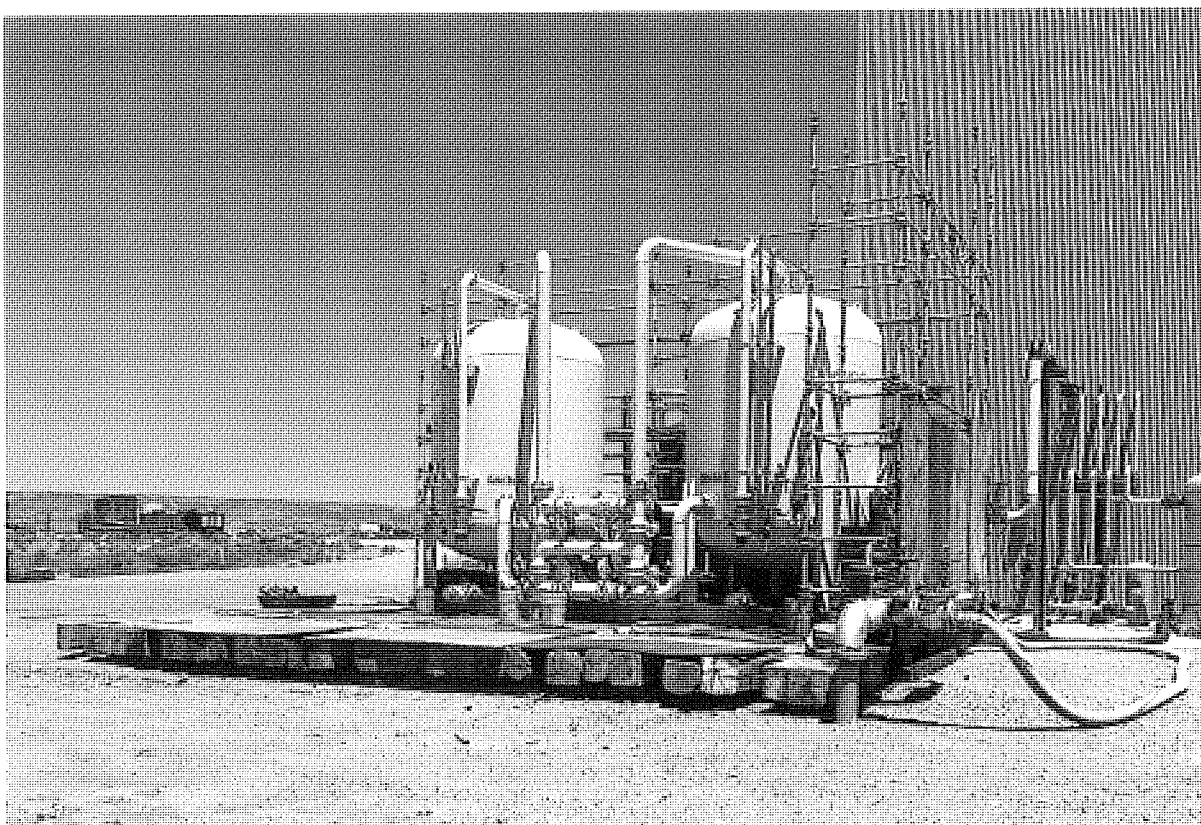


Photo 1: Original two 10,000-pound wastewater treatment system carbon system.

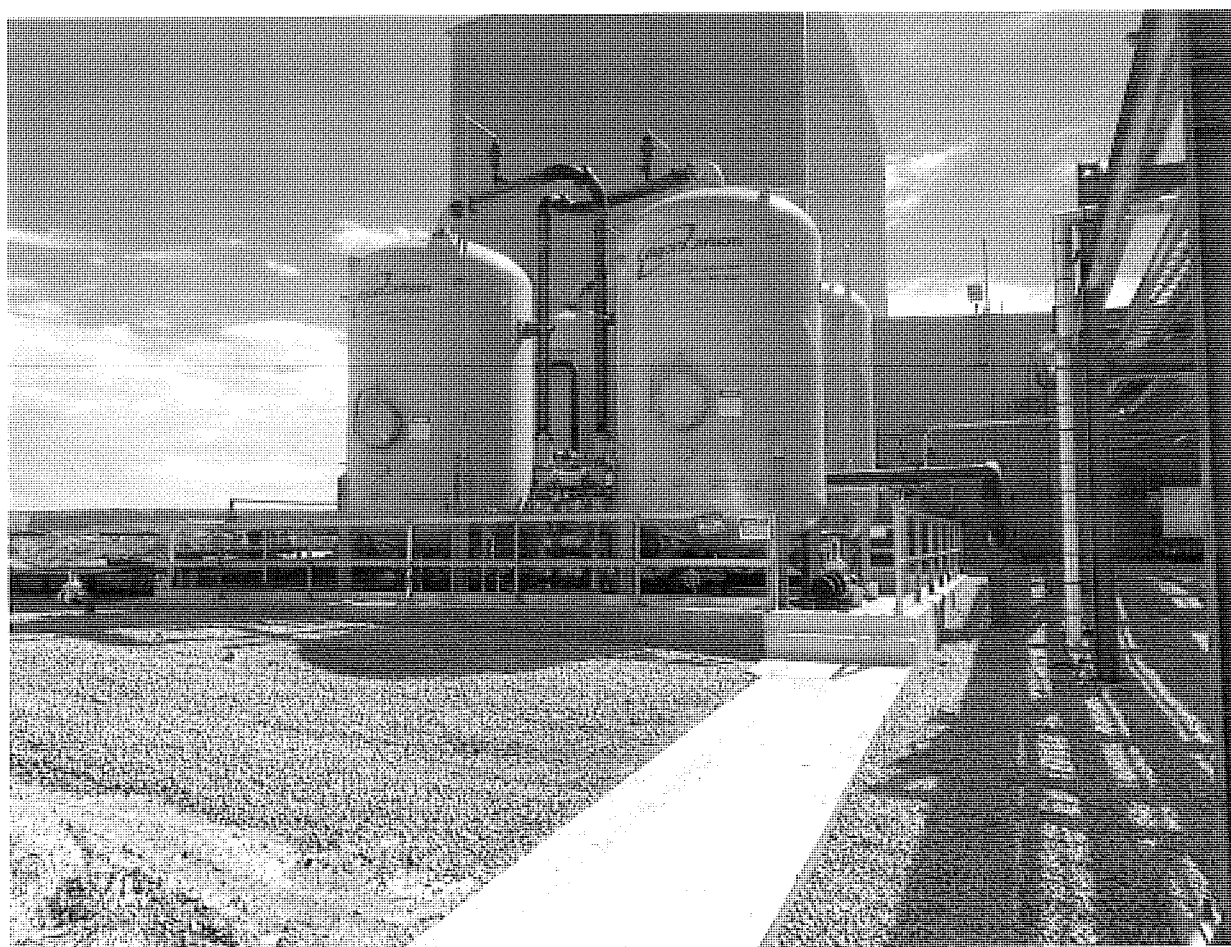


Photo 2: Upgraded four 20,000-pound carbon treatment system.



Photo 3: Updated carbon treatment system piping manifold.

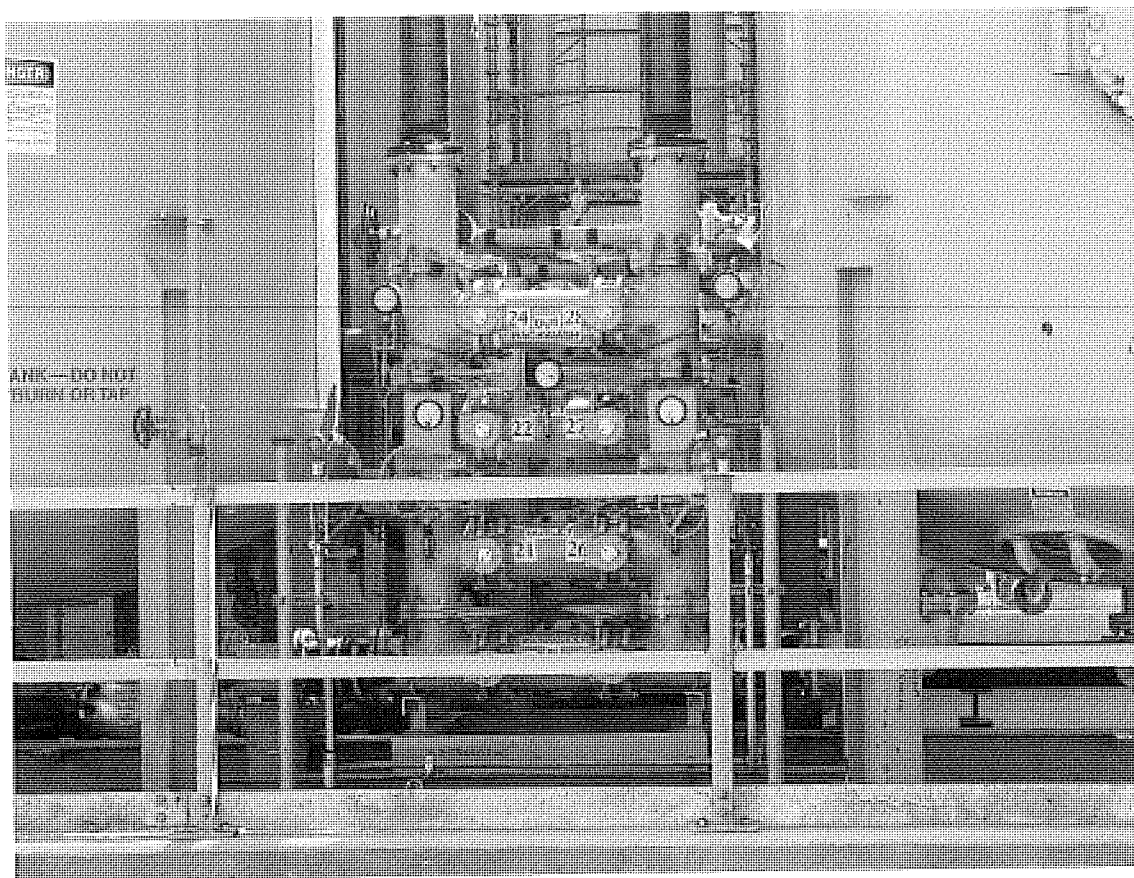


Photo 4: Updated carbon treatment system piping manifold – closeup.

From: [Moore, John](#)
To: [Cobrain, Dave, NMENV](#); [Chavez, Carl J, EMNRD](#)
Subject: [EXT] WWTP
Date: Thursday, April 2, 2020 9:38:58 AM

Dave/Carl,

I just wanted to update you on the status of our WWTP. As you know we were installing 4 20,000 carbon canisters to replace the existing 2 10,000 pound canisters. During the end of March we had some additional staff on site and we were able to complete this construction project. The 20,000 pound system went into service on March 30th. I'll try to get you some pictures when I can and if you would like any other kind of documentation please let me know.

John Moore, P.E.
Environmental Superintendent
JMoore5@Marathonpetroleum.com

MPC – Gallup Refinery
92 Giant Crossing Road
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