

SDG&E, June 15, 2020

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Lens.
In Response to Data Request, R15-01-008 2020 June Report
Appendix 6, Rev. 03/30/20

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste value.

At the end of Annual Emissions Column add a summation total in a cell for a column total, and then highlight orange.

If all the mains and services are not surveyed annually, use the tab "Unsurveyed Pipeline Leaks" to estimate emissions.

Do not record above ground MSA leaks on this tab. Use Appendix 6 instead. Do continue to list above ground leaks associated with the Distribution Main & Services pipeline system.

After completing the tab on "Pipeline Leaks" and "Unsurveyed Pipeline Leaks," fill in the table for "Pipeline Leak Summary."

Sum Total Emissions from leaks carried over from before 2019

Sum Total Emissions from Survey leaks discovered in 2019

Sum Total Emissions from O&M leaks discovered in 2019

Grand Total of all 2018 emissions from leaks

3,689
138
3,827

Note: No change to O&M leak duration for this reporting year.

Note: No change to O&M leak duration for this reporting year.																				
ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (inches)	Pipe Age (months)	Pressure (psi)	Leak Grade	Upgraded Leak Grade or Downgraded Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YYYY)	Re-Grade Date (MM/DD/YYYY)	Repair Date (MM/DD/YYYY)	Scheduled Repair Date (MM/DD/YYYY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Number of Days to Repair	Emission Factor (lb/day/ft)	Annual Emissions (lb/yr)	Explanatory Notes / Comments
1826885	92056 MB	P	3"	491	Less than or equal to 60	Code 2			B	S	12/11/2018		3/19/2019			78	99	0.2088	23.3064	
1900155	92154 MB	PC	1 1/2"	791	Less than or equal to 60	Code 2			B	S	1/7/2019		2/27/2019			58	56	0.0612	3.5496	
1900224	92123 DB	P	2"	21	Less than or equal to 60	Code 1			B	M	1/3/2019					1	1	0.0089	0.0089	
1900280	92154 MB	PC	2"	755	Less than or equal to 60	Code 2			B	M	1/4/2019		2/19/2019			50	47	0.0612	3.06	
1900377	92109 MB	PC	6"	1087	Less than or equal to 60	Code 2			B	M	1/5/2019		2/7/2019			34	34	0.0612	2.0808	
1900424	92114 DB	P	1 1/2" CTS	339	Less than or equal to 60	Code 1			B	M	1/5/2019		1/5/2019			1	1	0.0089	0.0089	
1900440	92069 DB	P	1 1/2" CTS	563	Less than or equal to 60	Code 1			B	M	1/7/2019		1/7/2019			1	1	0.0089	0.0089	
1900526	92109 DB	PC	3/4"	851	Less than or equal to 60	Code 2			B	M	1/8/2019		2/6/2019			30	30	0.0276	0.826	
1900586	92115 DB	PC	3/4"	895	Less than or equal to 60	Code 2			B	M	1/9/2019		1/9/2019			1	1	0.0276	0.0276	
1900587	92057 MB	P	2"	387	Less than or equal to 60	Code 2			B	M	1/8/2019		1/22/2019			15	15	0.2988	4.482	
1900793	92103 DB	PC	3/4"	767	Less than or equal to 60	Code 1			B	M	1/10/2019		1/10/2019			1	1	0.0276	0.0276	
1900828	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	S	1/11/2019		2/27/2019			58	48	0.0276	1.6008	
1900856	92113 DB	P	1 1/2" IPS	431	Less than or equal to 60	Code 1			B	M	1/11/2019		1/11/2019			1	1	0.0089	0.0089	
1900906	92103 MB	PC	3"	995	Less than or equal to 60	Code 1			B	M	1/14/2019		2/14/2019			24	24	0.0612	1.4688	
1900986	92191 DB	PC	3/4"	671	Less than or equal to 60	Code 2			B	S	1/15/2019		1/30/2019			30	16	0.0276	0.828	
1901099	92082 DB	PC	3/4"	671	Less than or equal to 60	Code 1			B	M	1/17/2019		1/17/2019			1	1	0.0276	0.0276	
1901226	92113 MB	Unknown	3"	479	Less than or equal to 60	Code 1			B	M	1/21/2019		1/21/2019			1	1	0.2988	0.2988	
1901242	92007 DB	PC	3/4"	755	Less than or equal to 60	Code 1			B	M	1/20/2019		1/20/2019			1	1	0.0276	0.0276	
1901284	92115 DB	PC	3/4"	755	Less than or equal to 60	Code 1			B	M	1/22/2019		1/22/2019			1	1	0.0276	0.0276	
1901314	92117 DB	PC	3/4"	731	Less than or equal to 60	Code 1			B	M	1/22/2019		1/22/2019			1	1	0.0276	0.0276	
1901367	92154 DB	P	1 1/2" IPS	503	Less than or equal to 60	Code 2			B	S	1/23/2019		1/31/2019			31	9	0.0089	0.2759	
1901439	92042 MB	PC	1 1/2"	755	Less than or equal to 60	Code 2			B	S	1/23/2019		1/23/2019			1	1	0.0612	0.0612	
1901486	92154 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	S	1/24/2019		3/7/2019			66	43	0.0276	1.8216	
1901523	92011 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	S	1/24/2019		2/12/2019			32	9	0.0276	0.8832	
1901524	92154 DB	P	1 1/2" CTS	755	Less than or equal to 60	Code 2			B	S	1/24/2019		2/8/2019			39	16	0.0089	0.3471	
1901539	92104 DB	P	1 1/2" CTS	551	Less than or equal to 60	Code 2			B	M	1/24/2019		2/20/2019			28	28	0.0089	0.2492	
1901573	92011 DB	PC	3/4"	731	Less than or equal to 60	Code 2			B	S	1/25/2019		2/7/2019			38	14	0.0276	1.0488	
1901595	92109 MB	PC	1"	755	Less than or equal to 60	Code 2			B	M	1/25/2019		3/15/2019			50	50	0.0612	3.06	
1901597	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	S	1/26/2019		2/10/2019			32	8	0.0276	0.8832	
1901611	92109 MB	PC	1"	1019	Less than or equal to 60	Code 1			B	M	1/26/2019		1/26/2019			1	1	0.0612	0.0612	
1901685	92191 MB	PC	2"	791	Less than or equal to 60	Code 2			B	S	1/28/2019		2/1/2019			32	5	0.0612	1.9584	
1901693	92011 DB	PC	3/4"	707	Less than or equal to 60	Code 2			B	S	1/28/2019		2/28/2019			35	6	0.0612	0.966	
1901722	92106 DB	PC	3/4"	755	Less than or equal to 60	Code 1			B	M	1/28/2019		1/28/2019			1	1	0.0276	0.0276	
1901753	92103 DB	P	1 1/2" CTS	89	Less than or equal to 60	Code 1			B	M	1/22/2019		1/22/2019			1	1	0.0089	0.0089	
1901773	92086 DB	PC	3/4"	755	Less than or equal to 60	Code 1			B	M	1/28/2019		1/28/2019			1	1	0.0276	0.0276	
1901789	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 1			B	M	1/29/2019		1/29/2019			1	1	0.0276	0.0276	
1901806	92071 MB	PC	1"	911	Less than or equal to 60	Code 2			B	S	1/29/2019		3/14/2019			63	63	0.0612	3.8504	
1901871	92191 DB	PC	3/4"	551	Less than or equal to 60	Code 2			B	S	1/29/2019		3/25/2019			56	36	0.0276	2.1184	
1901895	92075 DB	PC	3/4"	875	Less than or equal to 60	Code 2			B	M	1/29/2019		2/25/2019			28	28	0.0276	0.7728	
1901994	92109 MB	PC	2"	611	Less than or equal to 60	Code 3			B	M	1/30/2019		1/30/2019			1	1	0.0612	0.0612	
1902054	92191 DB	PC	3/4"	683	Less than or equal to 60	Code 2			B	S	1/31/2019		2/25/2019			56	26	0.0276	1.5456	
1902094	92020 MB	P	2"	551	Less than or equal to 60	Code 1			B	M	1/31/2019		1/31/2019			1	1	0.2988	0.2988	
1902165	92191 DB	PC	3/4"	671	Less than or equal to 60	Code 1			B	S	1/31/2019		1/31/2019			7	7	0.0276	1.0488	
1902212	92054 DB	Unknown	1"	755	Less than or equal to 60	Code 2			B	M	2/4/2019		2/20/2019			17	17	0.06	1.02	
1902238	92019 MB	PC	2"	755	Less than or equal to 60	Code 1			B	M	2/4/2019		2/4/2019			1	1	0.0612	0.0612	
1902254	92026 DB	PC	3/4"	791	Less than or equal to 60	Code 2			B	M	2/5/2019		2/20/2019			16	16	0.0276	0.4416	
1902288	92191 DB	PC	3/4"	983	Less than or equal to 60	Code 2			B	S	2/6/2019		3/5/2019			64	28	0.0276	1.7664	
1902350	92084 MB	PC	1 1/2"	755	Less than or equal to 60	Code 1			B	M	2/6/2019		2/6/2019			1	1	0.0612	0.0612	
1902443	92191 MB	PC	1 1/2"	815	Less than or equal to 60	Code 2			B	S	2/7/2019		3/1/2019			60	23	0.0612	3.672	
1902451	92118 DB	P	1 1/4"	755	Less than or equal to 60	Code 2			B	S	2/7/2019		3/13/2019			72	35	0.0089	0.6408	
1902509	92109 MB	PC	4"	1080	Less than or equal to 60	Code 2			B	M	2/7/2019		2/11/2019			70	32	0.0612	4.284	
1902513	92191 DB	PC	3/4"	647	Less than or equal to 60	Code 2			B	S	2/8/2019		3/5/2019			64	26	0.0276	1.7664	
1902741	92191 MB	P	2"	563	Less than or equal to 60	Code 2			B	M	2/12/2019		2/12/2019			20	20	0.2988	20.0196	
1902801	92056 MB	PC	1 1/2"	599	Less than or equal to 60	Code 1			B	M	2/12/2019		2/12/2019			1	1	0.0612	0.0612	
1902858	92191 MB	PC	2"	767	Less than or equal to 60	Code 2			B	M	2/13/2019		3/13/2019			72	29	0.0612	4.4064	
1902880	92191 DB	PC	1 1/2"	839	Less than or equal to 60	Code 2			B	M	2/13/2019		3/13/2019			29	17	0.0276	1.7448	
1902882	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	S	2/13/2019		3/11/2019			70	27	0.0276	1.932	
1903003	92106 DB	PC	3/4"	587	Less than or equal to 60	Code 1			B	M	2/16/2019		2/16/2019			1	1	0.0276	0.0276	
1903032	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 2			B	M	2/18/2019		2/18/2019			1	1	0.0276	0.0276	
1903127	92014 DB	PC	3/4"	299	Less than or equal to 60	Code 1			B	M	2/19/2019		2/19/2019			1	1	0.0276	0.0276	
1903335	92193 DB	PC	3/4"	587	Less than or equal to 60	Code 1			B	M	2/21/2019		2/21/2019			1	1	0.0276	0.0276	
1903465	92020 MB	PC	4"	827	Less than or equal to 60	Code 2			B	M	2/24/2019		3/11/2019			36	36	0.0612	2.2032	
1903475	92103 MB	PC	2"	491	Less than or equal to 60	Code 2			B	M	2/25/2019		2/26/2019			2	2	0.0612	0.1224	
1903611	92192 DB	PC	3/4"	883	Less than or equal to 60	Code 2			B	S	2/26/2019		3/14/2019			73	17	0.0276	2.0148	
1903629	92191 DB	P	1 1/2" CTS	515	Less than or equal to 60	Code 2			B	S	2/26/2019		3/12/2019			71	15	0.0089	0.6319	
1903646	92191 DB	PC	3/4"	755	Less than or equal to 60	Code 1		</												

1905739	92111	DB	PC	3/4"	647	Less than or equal to 60	Code 2	B	S	3/27/2019	4/8/2019	88	13	0.0276	2.7048
1905780	91910	DB	PC	3/4"	743	Less than or equal to 60	Code 2	B	S	3/27/2019	3/27/2019	87	1	0.0276	2.4012
1905844	92027	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	3/27/2019	3/27/2019	1	1	0.0276	0.0276
1905842	91910	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	3/28/2019	4/15/2019	105	19	0.0276	2.898
1905875	92108	DB	PC	3/4"	775	Less than or equal to 60	Code 1	M	S	3/28/2019	3/28/2019	1	1	0.0276	0.0276
1905924	91902	DB	PC	3/4"	767	Less than or equal to 60	Code 2	B	S	3/29/2019	5/6/2019	126	39	0.0276	3.4778
1905965	91910	MB	PC	1 1/2"	809	Less than or equal to 60	Code 2	B	S	3/26/2019	4/19/2019	209	22	0.0612	6.5708
1906022	91910	DB	PC	3/4"	863	Less than or equal to 60	Code 2	B	S	3/28/2019	3/28/2019	108	20	0.0276	2.8868
1906041	92008	DB	PC	3/4"	731	Less than or equal to 60	Code 2	B	M	3/31/2019	4/22/2019	23	23	0.0276	0.6348
1906143	92113	MB	P	2"	563	Less than or equal to 60	Code 2	B	S	4/12/2019	4/12/2019	107	10	0.0276	2.2088
1906229	91910	DB	PC	3/4"	587	Less than or equal to 60	Code 2	B	S	4/2/2019	4/15/2019	105	14	0.0276	2.898
1906356	92104	DB	PC	3/4"	755	Less than or equal to 60	Code 3	B	M	4/2/2019	4/2/2019	1	1	0.0276	0.0276
1906435	92116	DB	PC	3/4"	311	Less than or equal to 60	Code 2	B	S	4/8/2019	4/12/2019	301	8	0.0276	2.7676
1906658	91910	DB	PC	3/4"	839	Less than or equal to 60	Code 2	B	M	4/8/2019	4/8/2019	1	1	0.0276	0.0276
1906694	92116	MB	PC	1"	29	Less than or equal to 60	Code 1	B	M	4/9/2019	4/9/2019	1	1	0.0612	0.0612
1906717	92071	DB	PC	3/4"	887	Less than or equal to 60	Code 2	B	S	4/9/2019	4/18/2019	108	10	0.0276	2.8808
1906731	92037	MB	PC	1 1/2"	767	Less than or equal to 60	Code 2	B	S	4/9/2019	5/20/2019	140	42	0.0612	8.568
1906945	91941	MB	PC	1 1/2"	347	Less than or equal to 60	Code 2	B	S	4/11/2019	4/11/2019	108	8	0.0612	6.6096
1906958	92104	MB	PC	2"	863	Less than or equal to 60	Code 2	B	M	4/11/2019	4/11/2019	1	1	0.0612	0.0612
1906983	92071	DB	PC	3/4"	731	Less than or equal to 60	Code 2	B	S	4/13/2019	5/2/2019	122	21	0.0276	3.3672
1907017	91945	MB	PC	1 1/2"	803	Less than or equal to 60	Code 2	B	S	4/13/2019	4/13/2019	163	62	0.0612	9.9756
1907029	92103	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	4/12/2019	4/12/2019	1	1	0.0276	0.0276
1907078	92106	MB	PC	1"	911	Less than or equal to 60	Code 2	B	M	4/13/2019	4/13/2019	10	10	0.0612	0.612
1907165	91902	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	4/15/2019	4/15/2019	1	1	0.0276	0.0276
1907170	92115	DB	P	1 1/4"	755	Less than or equal to 60	Code 1	B	M	4/15/2019	4/15/2019	1	1	0.0089	0.0089
1907173	92115	DB	PC	3/4"	623	Less than or equal to 60	Code 2	B	M	4/16/2019	5/3/2019	38	38	0.0276	1.0488
1907183	92014	DB	PC	3/4"	623	Less than or equal to 60	Code 2	B	M	4/16/2019	5/13/2019	28	28	0.0276	0.7728
1907316	91941	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	4/17/2019	7/19/2019	200	94	0.0276	5.32
1907369	92014	MB	PC	2"	635	Less than or equal to 60	Code 1	B	M	4/18/2019	4/18/2019	1	1	0.0612	0.0612
1907434	92119	MB	PC	2"	695	Less than or equal to 60	Code 2	B	S	4/18/2019	7/1/2019	182	75	0.0612	11.1384
1907476	92103	DB	PC	3/4"	647	Less than or equal to 60	Code 2	B	S	4/19/2019	4/19/2019	150	102	0.0276	4.14
1907531	91941	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	4/19/2019	6/19/2019	154	46	0.0276	4.2504
1907645	92109	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	M	4/22/2019	5/15/2019	24	24	0.0276	0.0624
1907672	91977	DB	P	1 1/2" CTS	431	Less than or equal to 60	Code 2	B	M	4/22/2019	4/22/2019	1	1	0.0089	0.0089
1907771	91941	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	4/23/2019	10/8/2019	161	49	0.0276	4.4436
1907832	92071	DB	PC	3/4"	731	Less than or equal to 60	Code 2	B	S	4/24/2019	5/11/2019	151	38	0.0276	4.1676
1907970	92105	DB	PC	3/4"	1139	Less than or equal to 60	Code 2	B	S	4/25/2019	4/25/2019	140	26	0.0276	3.864
1907992	91941	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	4/25/2019	5/30/2019	150	36	0.0276	4.14
1907995	91941	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	4/25/2019	5/25/2019	148	34	0.0276	4.0488
1908089	92040	MB	PC	1"	647	Less than or equal to 60	Code 2	B	S	4/26/2019	10/10/2019	161	46	0.0612	9.8532
1908108	91910	MB	PC	2"	695	Less than or equal to 60	Code 1	B	M	4/26/2019	4/26/2019	1	1	0.0612	0.0612
1908205	92105	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	M	4/26/2019	4/26/2019	10	10	0.0276	0.776
1908463	92103	DB	PC	3/4"	875	Less than or equal to 60	Code 1	B	M	5/1/2019	5/1/2019	1	1	0.0276	0.0276
1908827	92104	MB	PC	1 1/2"	803	Less than or equal to 60	Code 2	B	S	5/7/2019	5/8/2019	1	1	0.0612	5.18
1908862	92105	DB	PC	3/4"	911	Less than or equal to 60	Code 1	B	S	5/7/2019	5/7/2019	140	23	0.0276	4.1124
1908888	92021	DB	P	1 1/2" CTS	707	Less than or equal to 60	Code 2	B	S	5/8/2019	5/8/2019	137	30	0.0089	1.3973
1908912	92115	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	5/8/2019	4/2/2019	155	48	0.0276	4.178
1908957	92037	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	5/8/2019	5/8/2019	1	1	0.0276	0.0276
1909039	92071	DB	P	1 1/4"	491	Less than or equal to 60	Code 2	B	M	5/8/2019	6/2/2019	156	28	0.0089	1.3884
1909265	92027	DB	P	1 1/2" CTS	491	Less than or equal to 60	Code 2	B	M	5/13/2019	5/13/2019	1	1	0.0089	0.0089
1909295	92117	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	5/13/2019	5/13/2019	1	1	0.0276	0.0276
1909401	91941	MB	PC	2"	178	Less than or equal to 60	Code 2	B	S	5/14/2019	5/14/2019	155	22	0.0612	8.486
1909575	92102	MB	PC	1 1/2"	1088	Less than or equal to 60	Code 3	B	M	5/16/2019	5/16/2019	1	1	0.0612	0.0612
1909584	92119	MB	Unknown	1 1/2"	375	Less than or equal to 60	Code 2	B	M	5/17/2019	5/17/2019	1	1	0.2888	0.2888
1909812	92037	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	M	5/21/2019	5/21/2019	1	1	0.0276	0.0276
1910030	92115	MB	PC	1 1/4"	899	Less than or equal to 60	Code 1	B	M	5/23/2019	5/23/2019	1	1	0.0612	0.0612
1910086	92019	DB	P	1 1/2" CTS	551	Less than or equal to 60	Code 2	B	S	5/24/2019	6/2/2019	157	14	0.0089	1.3973
1910369	92121	MB	P	2"	419	Less than or equal to 60	Code 1	B	S	5/26/2019	5/13/2019	225	77	0.21	0.21
1910424	92105	MB	P	2"	371	Less than or equal to 60	Code 1	B	M	5/29/2019	5/29/2019	1	1	0.2888	0.2888
1910496	92105	MB	P	3/4"	755	Less than or equal to 60	Code 2	B	S	5/30/2019	6/19/2019	155	12	0.0276	4.4436
1910527	92019	DB	P	1 1/2" CTS	755	Less than or equal to 60	Code 2	B	S	5/30/2019	6/12/2019	163	14	0.0089	1.4507
1910603	92123	MB	PC	2"	683	Less than or equal to 60	Code 2	B	S	5/31/2019	6/19/2019	170	20	0.0612	10.404
1910615	92118	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	5/31/2019	5/31/2019	163	13	0.0276	4.4988
1910624	92057	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	5/31/2019	5/31/2019	1	1	0.0276	0.0276
1910631	92020	MB	PC	1 1/2"	731	Less than or equal to 60	Code 2	B	S	6/1/2019	6/1/2019	162	11	0.0612	9.9344
1910678	92057	DB	P	1 1/2" JFS	479	Less than or equal to 60	Code 2	B	S	6/1/2019	6/1/2019	196	43	0.0089	1.7444
1910684	92071	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	6/1/2019	8/1/2019	213	60	0.0276	5.8788
1910751	92105	DB	PC	3/4"	699	Less than or equal to 60	Code 2	B	M	6/17/2019	6/17/2019	15	15	0.0276	0.414
1910772	91941	DB	P	1 1/2" CTS	491	Less than or equal to 60	Code 2	B	S	6/4/2019	6/13/2019	164	10	0.0089	1.4596
1910842	91950	MB	PC	2"	527	Less than or equal to 60	Code 1	B	M	6/4/2019	6/4/2019	1	1	0.0612	0.0612
1910886	91942	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	6/5/2019	6/5/2019	196	1	0.0276	5.4096
1911131	92124	MB	P	2"	551	Less than or equal to 60	Code 2	B	S	6/8/2019	7/17/2019	198	40	0.2888	59.1624
1911210	92019	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	6/10/2019	7/15/2019	196	36	0.0276	5.4096
1911216	92115	DB	PC	3/4"	671	Less than or equal to 60	Code 2	B	S	6/10/2019	7/17/2019	24	24	0.0276	0.5784
1911245	92120	DB	P	1 1/4"	139	Less than or equal to 60	Code 2	B	S	6/10/2019	7/19/2019	184	24	0.0089	1.6376
1911246	92037	DB	PC	3/4"	719	Less than or equal to 60	Code 1	B	M	6/10/2019	7/10/2019	1	1	0.0276	0.0276
1911325	92071	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	6/11/2019	7/10/2019	191	30	0.0276	5.2716
1911332	92104	MB	PC	1 1/2"	947	Less than or equal to 60	Code 2	B	M	6/11/2019	6/4/2019	14	14	0.0612	0.8568
1911334	92007	DB	PC	1"	851	Less than or equal to 60	Code 2	B	S	6/11/2019	6/11/2019	28	28	0.0276	0.7728
1911337	91911	DB	P	2"	791	Less than or equal to 60	Code 1	B	M	6/11/2019	6/11/2019	1	1	0.0089	0.0089
1911338	91942	DB	PC	3/4"	755	Less than or equal to 60	Code 2	B	S	6/11/2019	6/11/2019	176	1	0.0276	4.8576
1911343	91942	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	6/11/2019	6/11/2019	1	1	0.0276	0.0276
1911447	91942	DB	PC	3/4"	839	Less than or equal to 60	Code 2	B	S	6/12/2019	7/8/2019	189			

1919677	92117	MB	PC	2"	719	Less than or equal to 60	Code 2	B	M	10/2/2019		2		2	0.0612	0.1224
1919789	92122	MB	P	1 1/4"		Less than or equal to 60	Code 2	B	S	10/2/2019		290	2	0.0689	2.181	
1919795	92027	MB	PC	1 1/2"	1117	Less than or equal to 60	Code 2	B	S	10/2/2019		289	15	0.0612	17.8888	
1919800	92056	MB	P	2"	551	Less than or equal to 60	Code 2	B	S	10/2/2019		287	23	0.2988	88.7436	
1919823	92071	MB	PC	2"	575	Less than or equal to 60	Code 1	B	M	10/2/2019		1	1	0.0612	0.0612	
1919900	91941	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	10/3/2019		1	1	0.0276	0.0276	
1919903	92040	MB	P	2"		Less than or equal to 60	Code 2	B	S	10/3/2019		302	27	0.2988	90.2376	
1919970	92115	MB	PC	2"	863	Less than or equal to 60	Code 2	B	M	10/4/2019		1	1	0.0612	0.0612	
1919992	92115	MB	PC	1 1/2"	815	Less than or equal to 60	Code 2	B	M	10/4/2019		1	1	0.0612	0.0612	
1920025	92116	DB	PC	2"		Less than or equal to 60	Code 1	B	M	10/5/2019		1	1	0.0276	0.0276	
1920168	92056	DB	P	1/2" IPS		Less than or equal to 60	Code 2	B	S	10/6/2019		281	2	0.0089	2.5009	
1920220	92037	MB	PC	3"	731	Less than or equal to 60	Code 2	B	S	10/6/2019		309	29	0.0612	18.9108	
1920237	91911	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	10/6/2019		15	15	0.0416	0.416	
1920262	91977	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	10/6/2019		18	18	0.0276	0.4968	
1920404	92008	MB	P	3"	563	Less than or equal to 60	Code 1	B	M	10/6/2019		1	1	0.2988	0.2988	
1920451	92056	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	10/6/2019		297	15	0.0612	2.6431	
1920464	92115	MB	PC	1 1/2"	803	Less than or equal to 60	Code 2	B	M	10/10/2019		1	1	0.0612	0.0612	
1920694	92056	DB	P	1 1/4"		Less than or equal to 60	Code 2	B	S	10/17/2019		295	4	0.0689	2.581	
1920747	92083	MB	PC	2"	431	Less than or equal to 60	Code 2	B	M	10/15/2019		16	16	0.0612	0.9792	
1920781	92115	MB	PC	1 1/2"	839	Less than or equal to 60	Code 2	B	M	10/15/2019		30	30	0.0612	1.836	
1920875	92071	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	10/16/2019		318	30	0.0089	2.8302	
1920882	92083	MB	PC	2"	719	Less than or equal to 60	Code 2	B	S	10/16/2019		305	17	0.0612	18.666	
1921095	92106	MB	PC	1 1/2"	839	Less than or equal to 60	Code 2	B	M	11/20/2019		33	33	0.0612	2.0206	
1921189	92083	MB	PC	1 1/2"	731	Less than or equal to 60	Code 2	B	S	10/21/2019		322	29	0.0612	19.7664	
1921216	92115	MB	PC	1 1/2"	827	Less than or equal to 60	Code 1	B	M	10/21/2019		1	1	0.0612	0.0612	
1921216	92077	DB	Unknown	3/4"		Less than or equal to 60	Code 2	B	M	10/22/2019		2	2	0.16	0.12	
1921359	92054	MB	P	2"	551	Less than or equal to 60	Code 1	B	M	10/23/2019		1	1	0.2988	0.2988	
1921385	92029	MB	PC	2"	395	Less than or equal to 60	Code 2	B	M	10/23/2019		1	1	0.0612	0.0612	
1921495	92057	DB	PC	3/4"	815	Less than or equal to 60	Code 2	B	M	10/24/2019		22	22	0.0276	0.0272	
1921700	92054	MB	PC	2"	827	Less than or equal to 60	Code 1	B	M	10/28/2019		1	1	0.0612	0.0612	
1921772	92123	DB	PC	1 1/4"	755	Less than or equal to 60	Code 2	B	M	10/29/2019		1	1	0.0276	0.0276	
1921846	92056	MB	P	1 1/4"	491	Less than or equal to 60	Code 2	B	S	10/29/2019		312	10	0.2988	93.2256	
1921869	92109	DB	PC	3/4"	875	Less than or equal to 60	Code 1	B	M	10/30/2019		1	1	0.0276	0.0276	
1921902	92103	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	10/30/2019		1	1	0.0276	0.0276	
1922003	92083	MB	P	2"	551	Less than or equal to 60	Code 2	B	S	11/2/2019		322	18	0.2988	96.2136	
1922008	92069	MB	P	1 1/4"	522	Less than or equal to 60	Code 2	B	S	11/2/2019		322	16	0.2988	96.2136	
1922060	91941	DB	PC	3/4"	847	Less than or equal to 60	Code 2	B	M	11/2/2019		6	6	0.0276	0.1656	
1922165	92120	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	11/4/2019		1	1	0.0276	0.0276	
1922296	92083	DB	P	1/2" CTS	575	Less than or equal to 60	Code 1	B	M	11/4/2019		1	1	0.0089	0.0089	
1922390	92103	MB	PC	1"	1185	Less than or equal to 60	Code 2	B	M	11/7/2019		14	14	0.0612	0.9568	
1922449	92083	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	11/8/2019		320	9	0.0089	2.848	
1922497	92103	DB	P	1/2" CTS	368	Less than or equal to 60	Code 2	B	M	11/11/2019		51	51	0.4339	0.4339	
1922498	92054	DB	P	1/2" IPS	73	Less than or equal to 60	Code 2	B	S	11/11/2019		317	3	0.0089	2.8213	
1922648	92028	DB	P	1/2" CTS	36	Less than or equal to 60	Code 2	B	S	11/13/2019		320	3	0.0089	2.848	
1922746	91946	MB	PC	3/4"	779	Greater than 60	Code 2	B	M	11/15/2019		1	1	0.0612	0.0612	
1922781	92008	MB	PC	1 1/2"	863	Less than or equal to 60	Code 2	B	S	11/15/2019		326	8	0.0612	19.9512	
1922947	92041	DB	PC	1"	803	Less than or equal to 60	Code 2	B	M	11/19/2019		1	1	0.2988	0.2988	
1922960	92122	DB	P	1/2" CTS	575	Less than or equal to 60	Code 2	B	S	11/19/2019		344	22	0.0089	3.0616	
1923189	92102	MB	P	2"	549	Less than or equal to 60	Code 2	B	M	11/22/2019		1	1	0.2988	0.2988	
1923199	91911	DB	PC	3/4"	70	Less than or equal to 60	Code 2	B	M	11/23/2019		17	17	0.4692	0.4692	
1923202	92014	MB	PC	1"	803	Less than or equal to 60	Code 2	B	M	11/23/2019		3	3	0.0612	0.1836	
1923367	92004	MB	P	2"	575	Less than or equal to 60	Code 2	B	S	12/2/2019		352	1	0.2988	105.1776	
1923381	92105	DB	P	1/2" CTS	383	Less than or equal to 60	Code 1	B	M	12/2/2019		1	1	0.0089	0.0089	
1923632	92057	MB	P	3"	515	Less than or equal to 60	Code 2	B	S	12/3/2019		346	10	0.2988	103.3848	
1923688	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	12/3/2019		1	1	0.0276	0.0276	
1923747	92021	MB	P	1 1/4"	503	Less than or equal to 60	Code 1	B	M	12/3/2019		1	1	0.2988	0.2988	
1923802	92069	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	M	12/5/2019		1	1	0.0089	0.0089	
1923848	91977	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	12/6/2019		348	6	0.0089	9.4048	
1923993	91977	MB	PC	1 1/2"	851	Less than or equal to 60	Code 2	B	S	12/10/2019		350	7	0.0612	21.42	
1924015	91978	MB	P	2"	575	Less than or equal to 60	Code 2	B	S	12/10/2019		350	7	0.0612	104.16	
1924067	92105	MB	P	2"	515	Less than or equal to 60	Code 1	B	S	12/10/2019		1	1	0.2988	0.2988	
1924097	91977	DB	PC	3/4"	671	Less than or equal to 60	Code 2	B	S	12/11/2019		353	9	0.0276	9.7428	
1924127	92103	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	12/11/2019		1	1	0.0276	0.0276	
1924352	91977	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	M	12/15/2019		1	1	0.0089	0.0089	
1924432	92105	MB	PC	2"	743	Less than or equal to 60	Code 1	B	M	12/17/2019		1	1	0.0612	0.0612	
1924559	91977	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	12/18/2019		1	2	0.0276	0.0552	
1924578	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	12/18/2019		1	1	0.0276	0.0276	
1924770	92064	DB	P	1/2" IPS	527	Less than or equal to 60	Code 1	B	M	12/23/2019		1	1	0.0089	0.0089	
1924784	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	12/25/2019		1	1	0.0276	0.0276	
1924826	92077	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	M	12/26/2019		1	1	0.0089	0.0089	
1924872	92020	MB	PC	1 1/4"	887	Less than or equal to 60	Code 1	B	M	12/27/2019		1	1	0.0612	0.0612	
1924881	92014	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	12/27/2019		1	1	0.0276	0.0276	
1924997	92111	MB	P	1 1/4"	383	Less than or equal to 60	Code 1	B	M	12/29/2019		1	1	0.2988	0.2988	
1924991	92116	MB	P	1 1/4"	538	Less than or equal to 60	Code 1	B	M	12/29/2019		1	1	0.2988	0.2988	
1925078	92024	MB	P	2"	527	Less than or equal to 60	Code 1	B	M	12/30/2019		1	1	0.2988	0.2988	
1925084	92173	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	M	12/31/2019		1	1	0.0276	0.0276	
1925102	92106	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	1/2/2019		1	1	0.0276	0.0276	
1925158	92154	MB	P	1 1/4"	539	Less than or equal to 60	Code 1	B	S	1/2/2019		3	1	0.2988	0.8864	
1925355	92128	MB	PC	3/4"	611	Less than or equal to 60	Code 1	B	M	1/2/2019		1	1	0.0276	0.0276	
1925456	91911	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/7/2019		7	1	0.0089	0.063	
1925506	92037	DB	PC	3/4"	767	Less than or equal to 60	Code 1	B	M	1/6/2019		1	1	0.0276	0.0276	
1925560	92105	MB	PC	1 1/2"	755	Less than or equal to 60	Code 1	B	M	1/8/2019		1	1	0.0612	0.0612	
1925577	92037	DB	PC	3/4"	3067	Less than or equal to 60	Code 1	B	M	1/8/2019		1	1	0.0276	0.0276	
1925726	91942	MB	P	3"	527	Less than or equal to 60	Code 1	B	M	1/9/2019		1	1	0.2988	0.2988	
1925777	92154	MB	PC	1"	815	Less than or equal to 60	Code 1	B	S	1/10/2019		11	2	0.0612	0.6732	
1926020	92102	DB	P	1"	23	Less than or equal to 60	Code 1	B	S	1/11/2019		11	1	0.0089	0.0079	
1926147	92109	MB	PC	3/4"	719	Less than or equal to 60	Code 1	B	M	1/16/2019		1	1	0.0276	0.0276	
1926108	92117	MB	PC	2"	827	Less than or equal to 60	Code 1	B	M	1/17/2019		1	1	0.0612	0.0612	
1926210	92009	MB	P	2"	375	Less than or equal to 60	Code 1	B	M	1/19/2019		1	1	0.2988	0.2988	
1926211	91902	DB	PC	3/4"	671	Less than or equal to 60	Code									

1903702	91902	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/27/2019	2/27/2019	58	1	0.0276	1.6008
1903789	92084	MB	P	2"	235	Less than or equal to 60	Code 1	M	S	2/26/2019	2/26/2019	1	1	0.2988	0.2988
1903885	92105	MB	P	1 1/4"	563	Less than or equal to 60	Code 1	B	S	3/1/2019	3/1/2019	60	1	0.2988	17.928
1903946	92056	MB	PC	2"	611	Less than or equal to 60	Code 1	B	M	3/1/2019	3/1/2019	1	1	0.0612	0.0612
1903971	92103	DB	P	3/4"		Less than or equal to 60	Code 1	M	S	3/22/2019	3/22/2019	1	1	0.0089	0.0089
1904078	91910	DB	PC	3/4"	947	Less than or equal to 60	Code 1	B	M	3/4/2019	3/4/2019	1	1	0.0276	0.0276
1904128	92114	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	3/5/2019	3/5/2019	64	1	0.0276	1.7664
1904151	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/5/2019	3/5/2019	65	2	0.0276	1.794
1904160	92120	DB	PC	3/4"	707	Less than or equal to 60	Code 1	B	M	3/4/2019	3/4/2019	1	1	0.0276	0.0276
1904187	92020	P		1 1/4"	503	Less than or equal to 60	Code 1	B	S	3/5/2019	3/5/2019	1	1	0.0276	0.0276
1904191	92114	MB	PC	1 1/2"	731	Less than or equal to 60	Code 1	B	M	3/5/2019	3/5/2019	1	1	0.0612	0.0612
1904211	92115	DB	PC	3/4"	875	Less than or equal to 60	Code 1	B	M	3/7/2019	3/7/2019	1	1	0.0276	0.0276
1904371	92101	P		1/2" CTS	76	Less than or equal to 60	Code 1	B	M	3/7/2019	3/7/2019	1	1	0.0089	0.0089
1904390	92102	MB	PC	6"	1117	Less than or equal to 60	Code 1	B	S	3/6/2019	3/11/2019	70	3	0.0612	4.284
1904446	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	3/10/2019	3/10/2019	1	1	0.0276	0.0276
1904512	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/12/2019	3/12/2019	71	2	0.0276	1.9596
1904552	92084	MB	P	3"	215	Less than or equal to 60	Code 1	B	M	3/11/2019	3/11/2019	1	1	0.2988	0.2988
1904564	92054	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	M	3/11/2019	3/11/2019	1	1	0.2988	0.2988
1904575	92117	DB	PC	3/4"	767	Less than or equal to 60	Code 1	B	M	3/11/2019	3/11/2019	1	1	0.0276	0.0276
1904750	92103	DB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	3/13/2019	3/13/2019	72	1	0.0276	1.9872
1904771	92118	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	M	3/13/2019	3/13/2019	1	1	0.0089	0.0089
1904916	92103	MB	PC	2"	1088	Less than or equal to 60	Code 1	B	S	3/17/2019	3/17/2019	76	1	0.0612	4.6512
1904917	92077	MB	P	1 1/4"	503	Less than or equal to 60	Code 1	B	M	3/17/2019	3/16/2019	77	1	0.2988	23.0076
1904923	92109	DB	P	3/4"	10	Less than or equal to 60	Code 1	B	M	3/17/2019	3/17/2019	1	1	0.0276	0.0276
1905159	92114	DB	PC	3/4"	743	Less than or equal to 60	Code 1	B	M	3/19/2019	3/19/2019	1	1	0.0276	0.0276
1905160	92103	DB	PC	3/4"	839	Less than or equal to 60	Code 1	B	S	3/19/2019	3/20/2019	79	2	0.0276	2.3804
1905164	92120	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	3/15/2019	3/15/2019	1	1	0.0276	0.0276
1905239	92113	DB	PC	1 1/2" IPS	527	Less than or equal to 60	Code 1	B	S	3/20/2019	3/20/2019	79	1	0.0089	0.7031
1905252	91910	DB	PC	3/4"	839	Less than or equal to 60	Code 1	B	S	3/20/2019	3/21/2019	80	2	0.0276	2.308
1905303	91910	MB	PC	1 1/2" IPS	839	Less than or equal to 60	Code 1	B	M	3/20/2019	3/20/2019	1	1	0.0612	0.0612
1905443	92020	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	3/22/2019	3/22/2019	1	1	0.0276	0.0276
1905585	91902	DB	PC	3/4"	779	Less than or equal to 60	Code 1	B	S	3/25/2019	3/25/2019	84	1	0.0276	2.3184
1905679	92104	MB	PC	1 1/2"	973	Less than or equal to 60	Code 1	B	S	3/26/2019	3/27/2019	86	2	0.0612	5.2682
1905697	91902	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	3/26/2019	3/26/2019	1	1	0.0276	0.0276
1905709	92114	DB	PC	3/4"	707	Less than or equal to 60	Code 1	B	S	3/26/2019	3/26/2019	85	1	0.0276	2.346
1905769	91910	MB	PC	1 1/2"	779	Less than or equal to 60	Code 1	B	S	3/27/2019	3/28/2019	87	2	0.0612	5.1244
1905847	91910	MB	P	2"	503	Less than or equal to 60	Code 1	B	S	3/28/2019	3/28/2019	87	1	0.2988	25.9566
1905859	91910	DB	PC	3/4"	863	Less than or equal to 60	Code 1	B	S	3/28/2019	3/28/2019	87	1	0.0276	2.4012
1905941	92113	P		1/2" CTS		Less than or equal to 60	Code 1	B	S	3/29/2019	3/29/2019	88	1	0.0089	0.7832
1905946	92107	MB	PC	1 1/2"	1138	Less than or equal to 60	Code 1	B	S	3/29/2019	3/30/2019	89	2	0.0612	5.4468
1906009	92025	DB	PC	3/4"	563	Less than or equal to 60	Code 1	B	M	3/29/2019	3/29/2019	1	1	0.0276	0.0276
1906010	91910	DB	PC	3/4"	839	Less than or equal to 60	Code 1	B	M	3/29/2019	3/29/2019	1	1	0.0276	0.0276
1906045	92020	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	3/30/2019	3/30/2019	1	1	0.0276	0.0276
1906117	92113	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	4/2/2019	4/2/2019	92	1	0.0089	0.8188
1906140	92101	MB	PC	3/4"	1168	Less than or equal to 60	Code 1	B	S	3/29/2019	3/29/2019	1	1	0.0612	0.0612
1906154	92007	DB	PC	3/4"	611	Less than or equal to 60	Code 1	B	M	4/1/2019	4/1/2019	1	1	0.0276	0.0276
1906159	91945	DB	PC	3/4"	707	Less than or equal to 60	Code 1	B	M	4/1/2019	4/1/2019	1	1	0.0276	0.0276
1906243	91977	DB	P	1/2" CTS	575	Less than or equal to 60	Code 1	B	S	4/2/2019	4/3/2019	93	2	0.0089	0.8277
1906265	91941	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/2/2019	4/2/2019	92	1	0.0276	2.5392
1906274	92037	MB	PC	1 1/2"	1103	Less than or equal to 60	Code 1	B	S	4/2/2019	4/2/2019	1	1	0.0612	0.0612
1906362	92103	DB	PC	1"	455	Less than or equal to 60	Code 1	B	S	4/3/2019	4/3/2019	93	1	0.0276	2.5668
1906355	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/3/2019	4/3/2019	93	1	0.0276	2.5668
1906362	91902	MB	PC	2"	587	Less than or equal to 60	Code 1	B	M	4/3/2019	4/3/2019	1	1	0.0612	0.0612
1906576	92014	DB	PC	3/4"	611	Less than or equal to 60	Code 1	B	M	4/6/2019	4/6/2019	1	1	0.0276	0.0276
1906584	92037	MB	PC	3/4"	835	Less than or equal to 60	Code 1	B	M	4/7/2019	4/7/2019	1	1	0.0612	0.0612
1906678	92009	DB	P	1"	90	Less than or equal to 60	Code 1	B	M	4/8/2019	4/8/2019	1	1	0.0089	0.0089
1906748	92075	DB	PC	3/4"	755	Less than or equal to 60	Code 1	B	M	4/8/2019	4/8/2019	1	1	0.0276	0.0276
1906760	91910	DB	PC	3/4"	871	Less than or equal to 60	Code 1	B	M	4/8/2019	4/8/2019	1	1	0.0276	0.0276
1906855	92113	DB	PC	3/4"	609	Less than or equal to 60	Code 1	B	M	4/10/2019	4/10/2019	1	1	0.0276	0.0276
1906914	92108	MB	PC	3/4"	707	Less than or equal to 60	Code 1	B	S	4/11/2019	4/12/2019	102	1	0.0276	6.4242
1907129	92071	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/15/2019	4/15/2019	105	1	0.0276	2.898
1907130	92037	DB	PC	3/4"	971	Less than or equal to 60	Code 1	B	S	4/15/2019	4/15/2019	105	1	0.0276	2.898
1907159	91941	DB	PC	3/4"	815	Less than or equal to 60	Code 1	B	S	4/15/2019	4/15/2019	105	1	0.0276	2.898
1907171	91941	DB	PC	3/4"	815	Less than or equal to 60	Code 1	B	S	4/15/2019	4/16/2019	106	2	0.0276	2.9256
1907174	91941	DB	PC	1 1/4"	815	Less than or equal to 60	Code 1	B	S	4/16/2019	4/16/2019	106	1	0.0612	6.4872
1907445	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/18/2019	4/19/2019	109	2	0.0276	3.0984
1907452	91941	MB	PC	2"	815	Less than or equal to 60	Code 1	B	S	4/18/2019	4/19/2019	109	2	0.0612	6.6708
1907538	91950	MB	PC	1 1/4"	829	Less than or equal to 60	Code 1	B	M	4/16/2019	4/16/2019	1	1	0.0612	0.0612
1907555	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/20/2019	4/20/2019	110	1	0.0276	3.036
1907620	92104	DB	PC	1 1/4"		Less than or equal to 60	Code 1	B	S	4/22/2019	4/23/2019	113	2	0.0276	3.1188
1907623	92071	DB	PC	3/4"	999	Less than or equal to 60	Code 1	B	S	4/22/2019	4/22/2019	112	1	0.0276	3.0912
1907728	92115	DB	PC	3/4"	113	Less than or equal to 60	Code 1	B	S	4/23/2019	4/23/2019	113	1	0.0276	3.1188
1907827	92037	DB	PC	3/4"	959	Less than or equal to 60	Code 1	B	S	4/24/2019	4/24/2019	114	1	0.0276	3.1464
1907924	92071	MB	PC	2"	611	Less than or equal to 60	Code 1	B	S	4/24/2019	4/25/2019	115	2	0.0612	7.038
1907930	91941	DB	PC	3/4"	1124	Less than or equal to 60	Code 1	B	S	4/24/2019	4/24/2019	114	1	0.0276	3.1464
1908018	92103	PC		1 1/2"	989	Less than or equal to 60	Code 1	B	M	4/25/2019	4/25/2019	1	1	0.0276	0.0276
1908029	91910	MB	PC	1 1/2"	695	Less than or equal to 60	Code 1	B	M	4/25/2019	4/25/2019	1	1	0.0612	0.0612
1908075	91910	DB	PC	3/4"	815	Less than or equal to 60	Code 1	B	M	4/26/2019	4/26/2019	1	1	0.0276	0.0276
1908146	92105	DB	PC	3/4"	779	Less than or equal to 60	Code 1	B	M	4/26/2019	4/26/2019	1	1	0.0276	0.0276
1908274	91977	MB	PC	1 1/2"	707	Less than or equal to 60	Code 1	B	M	4/29/2019	4/29/2019	1	1	0.0612	0.0612
1908322	91931	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	5/2/2019	5/2/2019	1	1	0.0276	0.0276
1908509	92115	DB	PC	3/4"	719	Less than or equal to 60	Code 1	B	S	5/2/2019	5/2/2019	122	1	0.0276	3.3672
1908563	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/2/2019	5/3/2019	123	2	0.0276	3.3948
1908647	92014	DB	PC	3/4"		Less than or equal to 60	Code 1	B	M	5/2/2019	5/2/2019	1	1	0.0276	0.0276
19087															

191872	92119	DB	P	1"	Less than or equal to 60	Code 1	B	S	6/18/2019	6/18/2019	169	1	0.0089	1.5041
191882	92197	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	6/18/2019	6/18/2019	1	1	0.0276	0.0276
191204	92025	MB	P	2"	Less than or equal to 60	Code 1	B	M	6/19/2019	6/19/2019	1	1	0.2988	0.2988
191207	92071	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	6/20/2019	6/20/2019	171	1	0.0276	0.0276
191209	92021	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	6/20/2019	6/20/2019	171	1	0.0276	0.0276
1912521	92021	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	S	6/26/2019	6/27/2019	178	2	0.0612	10.8936
191278	92115	DB	PC	3/4"	Less than or equal to 60	Code 1	B	S	6/28/2019	6/28/2019	179	1	0.0276	0.0276
191286	92117	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	6/28/2019	6/28/2019	1	1	0.0276	0.0276
1912931	92075	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/1/2019	7/1/2019	1	1	0.0276	0.0276
1913155	92115	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/1/2019	7/1/2019	1	1	0.0276	0.0276
1913366	91942	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/9/2019	7/9/2019	1	1	0.0276	0.0276
1913489	92105	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/10/2019	7/10/2019	1	1	0.0276	0.0276
1913536	92101	MB	P	3"	Less than or equal to 60	Code 1	B	M	7/11/2019	7/11/2019	1	1	0.2988	0.2988
1913871	92129	MB	P	3"	Less than or equal to 60	Code 1	B	S	7/16/2019	7/17/2019	198	2	0.0276	59.1624
1913911	91942	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/16/2019	7/16/2019	1	1	0.0276	0.0276
1913960	92075	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	7/16/2019	7/16/2019	1	1	0.0612	0.0612
1914077	92014	DB	P	1/2" IPS	Less than or equal to 60	Code 1	B	S	7/18/2019	7/19/2019	200	2	0.0089	1.78
1914111	92064	MB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/18/2019	7/18/2019	1	1	0.0612	0.0612
1914112	92120	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/16/2019	7/16/2019	1	1	0.0276	0.0276
1914118	91977	MB	PC	3"	Less than or equal to 60	Code 1	B	M	7/18/2019	7/18/2019	1	1	0.0612	0.0612
1914206	92114	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/21/2019	7/21/2019	1	1	0.0276	0.0276
1914713	92113	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/25/2019	7/25/2019	1	1	0.0276	0.0276
1914803	92126	P		1/2" CTS	Less than or equal to 60	Code 1	B	M	7/26/2019	7/26/2019	207	1	0.0089	1.9423
1914822	92024	MB	P	2"	Less than or equal to 60	Code 1	B	M	7/28/2019	7/28/2019	1	1	0.2988	0.2988
1914964	92110	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	7/29/2019	7/29/2019	1	1	0.0276	0.0276
1915086	92121	MB	P	2"	Less than or equal to 60	Code 1	B	M	7/29/2019	7/29/2019	1	1	0.2988	0.2988
1915131	92008	MB	P	2"	Less than or equal to 60	Code 1	B	M	7/26/2019	7/26/2019	1	1	0.2988	0.2988
1915148	92020	DB	P	1 1/4"	Less than or equal to 60	Code 1	B	M	7/30/2019	7/30/2019	1	1	0.0089	0.0089
1915345	92114	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	8/2/2019	8/2/2019	1	1	0.0612	0.0612
1915346	92114	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	8/3/2019	8/3/2019	1	1	0.0612	0.0612
1915440	92054	DB	PC	2"	Less than or equal to 60	Code 1	B	M	8/5/2019	8/5/2019	1	1	0.0276	0.0276
1915686	92130	DB	P	1/2" CTS	Less than or equal to 60	Code 1	B	S	8/8/2019	8/8/2019	220	1	0.0089	1.958
1915748	92021	MB	PC	1"	Less than or equal to 60	Code 1	B	M	8/8/2019	8/8/2019	1	1	0.0612	0.0612
1915864	92054	MB	P	1 1/2"	Less than or equal to 60	Code 1	B	M	8/9/2019	8/9/2019	1	1	0.2988	0.2988
1915928	92075	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	8/9/2019	8/9/2019	1	1	0.0276	0.0276
1916410	92109	DB	P	1/2" CTS	Less than or equal to 60	Code 1	B	M	8/16/2019	8/16/2019	1	1	0.0089	0.0089
1916448	92014	DB	P	1/2" CTS	Less than or equal to 60	Code 1	B	S	8/19/2019	8/19/2019	231	1	0.0089	2.0559
1917103	92014	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	8/24/2019	8/24/2019	1	1	0.0276	0.0276
1917421	92064	MB	P	3/4"	Less than or equal to 60	Code 1	B	S	8/29/2019	8/29/2019	241	1	0.0612	14.7492
1917551	92101	MB	P	2"	Less than or equal to 60	Code 1	B	M	8/31/2019	8/31/2019	1	1	0.2988	0.2988
1917627	92064	MB	P	2"	Less than or equal to 60	Code 1	B	S	9/3/2019	9/3/2019	246	1	0.2988	73.5048
1917701	92075	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	8/27/2019	8/27/2019	251	1	0.0276	0.0276
1917739	92024	DB	PC	3/4"	Less than or equal to 60	Code 1	B	S	9/4/2019	9/5/2019	248	2	0.0276	6.8448
1917776	92024	DB	P	1 1/4"	Less than or equal to 60	Code 1	B	S	9/5/2019	9/5/2019	248	1	0.0089	2.0272
1917815	92025	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	9/5/2019	9/5/2019	248	1	0.0276	6.8448
1917933	92113	MB	P	2"	Less than or equal to 60	Code 1	B	M	9/6/2019	9/6/2019	1	1	0.2988	0.2988
1917910	92126	MB	P	2"	Less than or equal to 60	Code 1	B	M	9/5/2019	9/5/2019	256	1	0.2988	0.2988
1918047	92064	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	9/9/2019	9/9/2019	1	1	0.0612	0.0612
1918269	92025	MB	PC	2"	Less than or equal to 60	Code 1	B	S	9/12/2019	9/12/2019	255	1	0.0612	15.406
1918292	92008	MB	PC	2"	Less than or equal to 60	Code 1	B	S	9/12/2019	9/12/2019	256	1	0.2988	76.4928
1918395	92029	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	S	9/14/2019	9/14/2019	257	1	0.0612	15.7284
1918553	91977	MB	P	2"	Less than or equal to 60	Code 1	B	M	9/16/2019	9/16/2019	1	1	0.0612	0.0612
1918557	92107	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	9/14/2019	9/14/2019	1	1	0.0276	0.0276
1918633	92102	DB	PC	1 1/4"	Less than or equal to 60	Code 1	B	M	9/13/2019	9/13/2019	1	1	0.0276	0.0276
1918755	92071	MB	P	2"	Less than or equal to 60	Code 1	B	M	9/18/2019	9/18/2019	1	1	0.2988	0.2988
1919027	92126	DB	P	1"	Less than or equal to 60	Code 1	B	M	9/23/2019	9/23/2019	1	1	0.0089	0.0089
1919130	92121	MB	P	3"	Less than or equal to 60	Code 1	B	S	9/24/2019	9/25/2019	268	2	0.2988	80.0784
1919249	91910	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	9/24/2019	9/24/2019	270	1	0.0276	0.0276
1919721	92123	DB	P	2"	Less than or equal to 60	Code 1	B	S	9/30/2019	10/1/2019	274	2	0.0089	2.4386
1919983	92071	DB	PC	1 1/2" CTS	Less than or equal to 60	Code 1	B	S	9/30/2019	9/30/2019	275	1	0.0089	2.4397
1919917	92122	DB	PC	3/4"	Less than or equal to 60	Code 1	B	S	10/1/2019	10/2/2019	275	2	0.0276	7.30
1919687	91950	MB	P	2"	Less than or equal to 60	Code 1	B	M	10/1/2019	10/1/2019	1	1	0.2988	0.2988
1919904	92040	MB	P	3/5	Less than or equal to 60	Code 1	B	S	10/1/2019	10/1/2019	276	1	0.2988	82.4688
1919905	92037	DB	PC	3/4"	Less than or equal to 60	Code 1	B	S	10/3/2019	10/4/2019	277	2	0.0276	7.6452
1919971	92071	MB	P	2"	Less than or equal to 60	Code 1	B	S	10/4/2019	10/4/2019	277	1	0.2988	82.7676
1919997	92064	MB	PC	2"	Less than or equal to 60	Code 1	B	M	10/4/2019	10/4/2019	1	1	0.0612	0.0612
1920011	92069	MB	P	2"	Less than or equal to 60	Code 1	B	S	10/7/2019	10/8/2019	281	2	0.2988	83.9628
1920030	92071	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/8/2019	10/8/2019	1	1	0.0276	0.0276
1920402	92037	MB	PC	1 1/2"	Greater than 60	Code 1	B	M	10/9/2019	10/9/2019	1	1	0.0612	0.0612
1920482	92037	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/10/2019	10/10/2019	1	1	0.0276	0.0276
1920483	92037	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	10/10/2019	10/10/2019	1	1	0.0276	17.1196
1920698	91945	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/15/2019	10/15/2019	1	1	0.0276	0.0276
1920767	92083	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	10/15/2019	10/15/2019	288	1	0.0612	17.4256
1920780	91950	MB	P	2"	Less than or equal to 60	Code 1	B	M	10/15/2019	10/15/2019	1	1	0.0612	0.0612
1921007	92054	DB	PC	3/4"	Less than or equal to 60	Code 1	B	S	10/18/2019	10/18/2019	291	1	0.0276	8.0316
1921061	92038	DB	P	1/2" CTS	Less than or equal to 60	Code 1	B	M	10/18/2019	10/18/2019	291	1	0.2988	7.5899
1921061	92069	MB	P	2"	Less than or equal to 60	Code 1	B	S	10/18/2019	10/18/2019	291	1	0.2988	86.9508
1921092	91950	MB	P	2"	Less than or equal to 60	Code 1	B	M	10/18/2019	10/18/2019	1	1	0.2988	0.2988
1921100	92107	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	S	10/19/2019	10/19/2019	1	1	0.0612	0.0612
1921351	92054	DB	P	1/2" CTS	Less than or equal to 60	Code 1	B	S	10/24/2019	10/25/2019	298	1	0.0089	2.6122
1921613	92038	MB	PC	2"	Less than or equal to 60	Code 1	B	M	10/26/2019	10/26/2019	1	1	0.0276	0.0276
1921714	91910	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/28/2019	10/28/2019	1	1	0.0276	0.0276
1921718	92083	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/28/2019	10/28/2019	1	1	0.0276	0.0276
1921828	91941	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/28/2019	10/28/2019	1	1	0.0276	0.0276
1921845	92081	DB	PC	3/4"	Less than or equal to 60	Code 1	B	M	10/30/2019	10/30/2019	303	1	0.0276	8.3628
1921851	92084	MB	P	2"	Less than or equal to 60	Code 1	B	S	10/30/2019	10/30/2019	303	1	0.2988	90.3364
1921881	92081	MB	P	3"	Less than or equal to 60	Code 1	B	M	10/30/2019	10/31/2019	304	2	0.2988	90.8522
1921982	91950	MB	PC	1 1/2"	Less than or equal to 60	Code 1	B	M	10/31/2019	10/31/2019	1	1	0.0612	0.0612

1924517 92101	MB	P	3"	422	less than or equal to 60	Code 1	B	M	12/17/2019	12/17/2019	1	1	0.2988	0.2988
1924636 91877	MB	PC	2"	479	Less than or equal to 60	Code 1	B	M	12/19/2019	12/19/2019	1	1	0.0612	0.0612
1924637 92028	MB	PC	2"	563	Less than or equal to 60	Code 1	B	M	12/19/2019	12/19/2019	1	1	0.0612	0.0612
1924649 92115	MB	PC	1 1/2"	731	Less than or equal to 60	Code 1	B	M	12/19/2019	12/19/2019	1	1	0.0612	0.0612
1924712 92008	MB	P	3"	583	Less than or equal to 60	Code 1	B	M	12/20/2019	12/20/2019	1	1	0.2988	0.2988
1924721 92102	MB	PC	1 1/2"	767	Less than or equal to 60	Code 1	B	M	12/21/2019	12/21/2019	1	1	0.0612	0.0612
1924925 92109	MB	PC	1 1/2"	363	Less than or equal to 60	Code 1	B	M	12/28/2019	12/28/2019	1	1	0.0612	0.0612
1924981 92014	MB	P	3"	451	Less than or equal to 60	Code 1	B	M	12/28/2019	12/28/2019	1	1	0.2988	0.2988
1924994 92115	DB	PC	1"	839	Less than or equal to 60	Code 1	B	M	12/29/2019	12/29/2019	1	1	0.0276	0.0276
1925045 92102	MB	PC	1 1/2"	767	Less than or equal to 60	Code 1	B	M	12/31/2019	12/31/2019	1	1	0.0612	0.0612
1925046 92109	MB	PC	1 1/2"	755	Less than or equal to 60	Code 1	B	M	12/30/2019	12/30/2019	1	1	0.0612	0.0612
2000198 92107	DB	PC	3/4"	111	Less than or equal to 60	Code 1	B	M	12/30/2019	12/30/2019	1	1	0.0276	0.0276
1903160 92131	DB	P	1/2" CTS		Less than or equal to 61	Code 1	B	M	1/3/2019	1/3/2019	1	1	0.0089	0.0089
1900480 92118	DB	P	1/2" CTS		Less than or equal to 62	Code 1	B	M	1/7/2019	1/7/2019	1	1	0.0089	0.0089
1901790 91911	DB	PC	3/4"	791	Less than or equal to 61	Code 2	B	S	1/28/2019	2/28/2019	59	59	0.0276	1.6284
1902338 92020	DB	PC	3/4"		Less than or equal to 64	Code 1	B	M	2/8/2019	2/8/2019	1	1	0.0276	0.0276
1903375 92104	DB	P	1/2" CTS	359	Less than or equal to 65	Code 1	B	M	2/24/2019	2/24/2019	1	1	0.0089	0.0089
1909212 91915	DB	P	1"		Less than or equal to 66	Code 1	B	M	5/13/2019	5/13/2019	1	1	0.0089	0.0089
1912735 92154	DB	PC	3/4"	527	Less than or equal to 67	Code 1	B	M	6/27/2019	6/27/2019	1	1	0.0276	0.0276
1913046 92027	DB	PC	3/4"		Less than or equal to 68	Code 1	B	M	7/3/2019	7/3/2019	1	1	0.0276	0.0276
1917559 92138	DB	P	1"		Less than or equal to 69	Code 1	B	M	8/26/2019	8/26/2019	1	1	0.0089	0.0089
1918822 91945	DB	PC	3/4"		Less than or equal to 70	Code 1	B	M	9/19/2019	9/19/2019	1	1	0.0276	0.0276
1921128 92027	DB	P	1"		Less than or equal to 71	Code 1	B	M	10/15/2019	10/15/2019	1	1	0.0089	0.0089

SDG&E, June 15, 2020

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2020 June Report
Appendix 4; Rev. 03/31/20

Notes:

Definitions in Data Request R15-01-008 2018 June Report

If highlighted cells are filled in, the other cells will auto-populate

Summary of Data by Pipeline Facility/Material and Results for Annual System Leak Rate and Resulting Number of Unknown Leaks for Each Pipeline Facility/Material

Facility/Material	Total System Miles per material type	Miles on Annual Survey $[M_{X,A}]$	Miles on Multi-Year Survey Cycles $[M_{X,Tot}]$	Survey Interval (yrs) $[I]$	Miles Surveyed Annually from Multi-Year Survey Cycles $[M_{X,I}]$	Total # of Leaks Detected from Survey $[N_{X,I}]$	If using a 3-year trailing leak rate average then include - 2017 Annual Leak Rate $[R_{X,1}]$	If using a 3-year trailing leak rate average then include - 2018 Annual Leak Rate $[R_{X,2}]$	2019 Annual Leak Rate $[R_{X,3}]$ $R_{X,3} = \frac{N_{X,I}}{M_{X,A} + (I \times M_{X,I})}$	If applicable, then calculate the 3-year Average Leak Rate [Leaks / Mile / Yr] $\bar{R}_X = \frac{1}{3} \sum_{i=1}^3 R_{X,i}$	# of Unknown Leaks $N_{X,unk} = \bar{R}_X \times (M_{X,Tot}^I - \frac{I}{2})$	Total # of Leaks Detected from O&M* $[N_{X,O}]$
Main/Vintage* Plastic	1,552	1,552	-	1	0	39	0.0050	0.018	0.0251	-	-	45
Main/Plastic	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Main/Plastic	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Main/Plastic	3,095	439	2,656	5	531.14	3	0.00	0.0003	0.0010	0.0004	2	5
Main/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Main/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A			N/A	N/A	N/A	N/A
Main/Vintage* Protected Steel	455			1	N/A	N/A			N/A	N/A	N/A	N/A
Main/Protected Steel	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Main/Protected Steel	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Main/Protected Steel	3,575	1,012	2,563	5	512.67	52	0.006	0.006	0.0145	0.0088	45	123
Main/Unknown	N/A	N/A	N/A									2
Service/Vintage* Plastic	1,682	1,682	-	1	0	51	0.0267	0.0126	0.0303	0.0232	-	43
Service/Plastic	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Service/Plastic	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Service/Plastic	3,422	852	2,569	5	513.89	3	0.0019	0.0000	0.0009	0.0009	5	8
Service/Unprotected Steel	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Service/Unprotected Steel	N/A	N/A	N/A	5	N/A	N/A			N/A	N/A	N/A	N/A
Service/Vintage* Protected Steel	369			1	N/A	N/A			N/A	N/A	N/A	N/A
Service/Protected Steel	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Service/Protected Steel	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Service/Protected Steel	3,546	1,295	2,251	5	450.28	134	0.0179	0.0091	0.0378	0.0216	97	164
Service/Copper	N/A	N/A	N/A	3	N/A	N/A			N/A	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	4	N/A	N/A			N/A	N/A	N/A	N/A
Service/Copper	N/A	N/A	N/A	5	N/A	N/A			N/A	N/A	N/A	N/A
Service/Unknown		N/A	N/A		N/A	1			N/A	N/A	N/A	4
Total	16,872	6,832	10,040	N/A	2,008	283				N/A	149	394

*Definitions for "vintage" materials:

Vintage Plastic

Pipe installed before 1986

Vintage Protected Steel

Pipe Installed before 1950

**

Total System Miles of Main & Service/ Vintage Protected Steel is included in the Total Miles of Main/Service

Estimated Emissions by Pipeline Facility/Material for Each Leakage Category

Leakage Category	Emission Factor (Mscf/day/leak)	2019 Emissions from Leaks detected Prior to 2018 (Mscf)	2019 Emissions from Leaks Detected from 2018 Survey (Mscf)	2019 Emissions from O&M* Leaks Detected in 2018 (Mscf)	2019 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2019 Emissions from Distribution Pipelines (Mscf)
Facility/Material						
Main/Vintage* Plastic	0.2988	23	2,196	50	0	2,269
Main/Plastic	0.2988	N/A	N/A	N/A	N/A	N/A
Main/Plastic	0.2988	N/A	N/A	N/A	N/A	N/A
Main/Plastic	0.2988	0	348	2	254	603
Main/Unprotected Steel	0.1548	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	0.1548	N/A	N/A	N/A	N/A	N/A
Main/Unprotected Steel	0.1548	N/A	N/A	N/A	N/A	N/A
Main/Vintage* Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	0.0612	0	512	38	1,006	1,556
Main/Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A
Main/Protected Steel	0.0612	N/A	N/A	N/A	N/A	N/A

Service/Vintage* Plastic	0.0089	0	34	0	0	35
Service/Plastic	0.0089	N/A	N/A	N/A	N/A	N/A
Main/Unknown	0.2988	0	0	2	0	2
Service/Plastic	0.0089	N/A	N/A	N/A	N/A	N/A
Service/Plastic	0.0089	0	57	1	15	73
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Unprotected Steel	0.0600	N/A	N/A	N/A	N/A	N/A
Service/Vintage* Protected Steel	0.0276	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	0.0276	N/A	N/A	N/A	N/A	N/A
Service/Protected Steel	0.0276	N/A	N/A	N/A		
Service/Protected Steel	0.0276	0	482	26	979	1,487
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/Copper	0.0226	N/A	N/A	N/A	N/A	N/A
Service/ Unknown		0	1	4	N/A	5
Total	N/A	23	3,629	123	2,255	6,031

O&M leaks include any other pipeline leaks that are discovered during the year from operations and maintenance activity, third party and gas odor reports, etc. that are not accounted for in other categories of this worksheet.

The cells below should be used for calculating emissions when a risk based leak detection and repair practice is used by the Utility. This table is intended to help categorize emissions associated with large leaks (Super Emitters (SEs)), and non-large leaks (non-SEs).

	2019 Emissions from Leaks detected Prior to 2018 (Mscf)	2019 Emissions from Leaks Detected from 2019 Survey (Mscf)	2019 Emissions from O&M* Leaks Detected in 2019 (Mscf)	2019 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2019 Emissions from Distribution Pipelines

Large Leak Emitter Program					
Compliance Leak Survey - Non-LL					-
Compliance Leak Survey - LL					-
Large Leak Emitter Program Outside Compliance Area - Non-LL					-
Large Leak Emitter Program Outside Compliance Area - LL					-
O&M - Non-LL					-
O&M - LL					-
TOTAL	-	-	-	-	-

SDG&E, June 15, 2020

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

In Response to Data Request, R15-01-008 2020 June Report
Appendix 4; Rev. 03/31/20

This summary purposefully should exclude damages, blowdowns, component emissions and component leaks.

	Count of Leaks Carried over from Prior Year	Count of Leaks Discovered in the Year of Interest	Count of Leaks Reported in the Year of Interest	Average Days to Repair Leaks	Count of Estimated Unsurveyed Leaks in the Year of Interest	Count of Remaining Leaks at Final day of the Year of Interest (12/31/20)	Emissions from Leaks Carried over from Prior Year.	Emissions from Leaks Discovered in the Year of Interest.	Emissions from Estimated Unsurveyed Leaks in the Year of Interest	Total Emissions in the Year of Interest (Mcf of Natural Gas)
Grade 1	0	449	449	1	N/A*	0	0	1837	NA	N/A
Grade 2	1	223	223	22	N/A*	1	23	1851	NA	N/A
Grade 3	0	5	5	16	N/A*	0	0	67	NA	N/A
Graded Leak Total	1	677	677	N/A**		1	23	3,756	-	-
Above Ground Hazardous	0	0	0	N/A**		0	0	0	N/A*	N/A
Above Ground Non-Hazardous	0	0	0	N/A**		0	0	0	N/A*	N/A
Above Ground Non-Hazardous Minor	0	0	0	N/A**		0	0	0	N/A*	N/A
AG Total	0	0	0	N/A**	-	0	0	0	N/A*	N/A
Total of All Leaks	1	677	677	N/A**		1	23	3,756	N/A*	N/A
Main/Plastic	0	11	11	66	2	0	0	349	254	603
Main Vintage Plastic	1	81	82	9	0	0	23	2246	0	2269
Main/Unprotected Steel	0	0	0	0	N/A	0	0	0	0	0
Main/Protected Steel	0	175	175	8	45	0	0	550	1006	1556
Main Unknown	0	2	2		0	0	0	5	0	2
Service/Plastic	0	67	66	11	5	1	0	58	15	73
Service Vintage	0	38	38	18	0	0	0	35	0	35
Service/Unprotected Steel	0	0	0	0	N/A	0	N/A	N/A	N/A	N/A
Service/Protected Steel	0	298	298	0	97	0	0	508	979	1487
Service Unknown	0	5	5	N/A	0	0	0	5	0	5
Service/Copper					0	0	0	0	0	0
Total	1	677	677	N/A	149	1	23	3,756	2,255	6,031

Large Leak or Super Emitter Program Categorization										
Compliance Leak Survey - Non-LL						0				0
Compliance Leak Survey - LL						0				0
Large Leak/Super Emitter Program Outside Compliance Area - Non-LL						0				0
Large Leak/Super Emitter Program Outside Compliance Area - LL						0				0
O&M - Non-LL						0				0
O&M - LL						0				0
TOTAL	-	-	-	-	-	-	-	-	-	-
Change Due to LL/SE Program on 2019:	(1)	(677)	(677)	#VALUE!	(149)	(1)	(23)	(3,756)	(2,255)	(6,031)
% Change Due to LL/SE Program on 2019:	(100.0%)	(100.0%)	(100.0%)		(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

This section added to the template for 2020 Reporting. Send any suggestions to improve this worksheet to Staff for consideration.

Sum Total Emissions from leaks carried over from before 2019
Sum Total Emissions from Survey leaks discovered in 2019
Sum Total Emissions from O&M Leaks discovered in 2019

x

Notes:
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

Sum Total Emissions from leaks carried over from before 2019
Sum Total Emissions from **Survey** leaks discovered in 2009
Sum Total Emissions from O&M Leaks discovered in 2019

[illegible]

9,400[illegible]

SDG&E, June 15, 2020

Rulemaking (R) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.

In Response to Data Request, R15-01-008 2020 June Report
Appendix 4; Rev. 03/31/20

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

Sum Total Emissions from leaks carried over from before 2019

Sum Total Emissions from Survey leaks discovered in 2019

Sum Total Emissions from O&M Leaks discovered in 2019

Distribution Main & Service Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Pipe Size (nominal) (in)	Length of Pipe (ft)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	248	N/A	N/A	N/A	0.66600	Distribution Odor Intensity Tests
N/A	SDG&E Territory			1.049	0.048014051	320	Abandoned HP Pipe
N/A	SDG&E Territory			2.067	8.738554723	320	Abandoned HP Pipe
N/A	SDG&E Territory			3.124	0.159687416	320	Abandoned HP Pipe
N/A	SDG&E Territory			4.124	92.29704212	320	Abandoned HP Pipe
N/A	SDG&E Territory			6.249	28.11398248	320	Abandoned HP Pipe
N/A	SDG&E Territory			8.125	24.4840378	320	Abandoned HP Pipe
N/A	SDG&E Territory			10.25	3630.69936	320	50.43688 Blowdown for Pipeline Safety Enhancement Plan project
N/A	SDG&E Territory			12.25	10644.94241	320	211.21545 Blowdown for Pipeline Safety Enhancement Plan project
N/A	SDG&E Territory			15.5	34790.07068	320	1105.16950 Blowdown for Pipeline Safety Enhancement Plan project
N/A	SDG&E Territory			0.76	0.192169477	320	0.00001 Abandoned HP Pipe
N/A	SDG&E Territory			1.049	0.126036885	320	0.00002 Abandoned HP Pipe
N/A	SDG&E Territory			1.049	0.16804918	55	0.00000 Abandoned HP Pipe
N/A	SDG&E Territory			1.372	0.164268993	55	0.00001 Abandoned HP Pipe
N/A	SDG&E Territory			1.61	22.40827409	55	0.00150 Abandoned HP Pipe
N/A	SDG&E Territory			2.067	22.30079165	55	0.00246 Abandoned HP Pipe
N/A	SDG&E Territory			2.469	0.132993238	55	0.00002 Abandoned HP Pipe
N/A	SDG&E Territory			3.124	3.51312316	55	0.00089 Abandoned HP Pipe
N/A	SDG&E Territory			4.124	61.87148452	55	0.02717 Abandoned HP Pipe
N/A	SDG&E Territory			6.249	0.851938863	55	0.00086 Abandoned HP Pipe
N/A	SDG&E Territory			1.067	0.012418988	55	0.00000 Abandoned HP Pipe
N/A	SDG&E Territory			1.318	128.5505813	55	0.00577 Abandoned HP Pipe
N/A	SDG&E Territory			1.931	1455.556346	55	0.14013 Abandoned HP Pipe
N/A	SDG&E Territory			2.876	1256.767921	55	0.26840 Abandoned HP Pipe
N/A	SDG&E Territory			3.816	9.927825484	55	0.00373 Abandoned HP Pipe
N/A	SDG&E Territory			5.621	271.0711402	55	0.22113 Abandoned HP Pipe
N/A	SDG&E Territory			0.76	41.5747638	55	0.00062 Abandoned HP Pipe
N/A	SDG&E Territory			1.049	4.189225981	55	0.00012 Abandoned HP Pipe
N/A	SDG&E Territory			1.372	3.377781167	55	0.00016 Abandoned HP Pipe
N/A	SDG&E Territory			1.61	10.03777577	55	0.00067 Abandoned HP Pipe
N/A	SDG&E Territory			2.067	5.126618771	55	0.00057 Abandoned HP Pipe
N/A	SDG&E Territory			0.437	93.06362378	55	0.00046 Abandoned HP Pipe
N/A	SDG&E Territory			1.067	12.55559734	55	0.00037 Abandoned HP Pipe
N/A	SDG&E Territory			1.318	43.48814622	55	0.00195 Abandoned HP Pipe
N/A	SDG&E Territory			1.931	19.442398	55	0.00187 Abandoned HP Pipe
N/A	SDG&E Territory			2.876	0.090226716	55	0.00002 Abandoned HP Pipe
N/A	SDG&E Territory			3.816	0.317690416	55	0.00012 Abandoned HP Pipe
						1,369	

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2020 June Report
Appendix 4, Rev. 03/31/20

Notes:
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.
The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Distribution Main & Service Pipeline Component Vented Emissions (see note above):						
Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions	Annual Emissions (Mscf)	Explanatory Notes / Comments
Note: No devices						

0

Sum Total Emissions from leaks carried over from before 2019
Sum Total Emissions from Survey leaks discovered in 2019
Sum Total Emissions from O&M Leaks discovered in 2019

Sum Total Provided as an example.

SDG&E, June 15, 2020
Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
In Response to Data Request, R15-01-008 2020 June Report
Appendix 4; Rev. 03/31/20

Notes:
Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.
At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.
The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the component is releasing gas or "bleeding" as a result of its design or function then it is not to be

Sum Total Emissions from leaks carried over from before 2019
Sum Total Emissions from **Survey** leaks discovered in 2019
Sum Total Emissions from O&M Leaks discovered in 2019

Distribution Main & Service Pipeline Component Fugitive Leaks (see note above):									
Total Number of Devices	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor (Mscf/day)	Annual Emission (Mscf)	Explanatory Notes / Comments

Sum total Provided as an example.

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (If not self-explanatory)
Pipeline Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent
Pipe Classification	MA = distribution main, above ground MB = distribution main, below ground DA = distribution service, above ground DB = distribution service, below ground
Pipe Material	C = copper CI = cast iron P = plastics (Acetyl, ABS, PE, PVC, etc.) PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	
Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	If the utility uses grades for above ground leaks, it is unnecessary to use the AH, AN, or AM designations. 1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 AH = Above Ground Hazardous synonymous with Grade 1. AN = Above Ground Non-Hazardous, synonymous with Grade 2 and 2+. AM = Above Ground Non-Hazardous Minor (akin to grade 3 below ground leak). N = non-graded or ungraded
Upgraded Leak Grade or Downgraded Leak Grade	U: Upgraded Leak such as a grade 2 or 3 leak that was surveyed again and changed designation to grade 1 or 2. D: downgraded leak, such as a grade 1 or 2 leak that was surveyed again and changed designation to grade 2 or 3.
Above Ground or Below Ground	A = Above Ground B = below ground
Leak Discovery Method	S = Routine Leak Survey (This discovery method should be parsed and the emissions summarized into leaks carried over from before 2016, and those detected in 2016. The totals for these subcategories should be carried over to column C43 through D63 on the Unsurveyed Pipeline Leaks tab.) M = O&M (E.G. O&M Activities, Third party reports, customer odor reports etc.) O = Other (This will be grouped with M in the summary categorization of leaks.)
Discovery Date (MM/DD/YY)	
Re-Grade Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	Date that the pipeline repair stopped the leak. Any associated blowdowns resulting from the repair should be included in the blowdowns tab.
Scheduled Repair Date (MM/DD/YY)	If leak is open, specify the scheduled date of repair; Otherwise type "M," signifying that the leak is being monitored with no scheduled date of repair; Then, provide the reason for not scheduling a repair in Column P.
Reason for Not Scheduling a Repair	If Repair Date is blank, and Scheduled Repair Date (Column O) = "M", then provide the reason for not scheduling a repair.
Number of Days Leaking	If the leak was discovered by survey in the year of interest, then assume leaking from January 1st of subject year <u>thru</u> repair date or December 31st of subject year, whichever is earlier. (E.G. Days Leaking = Repair - Jan 1st + 1 day.) (For days leaking for leaks carried over use January 1st as start date for emissions calculations.) For O&M discovered leaks, assume that the leak begins with the discovery date <u>thru</u> repair date or December 31st of subject year, whichever is earlier.

Sum Total Emissions from leaks carried over from before 2019
Sum Total Emissions from **Survey** leaks discovered in 2019

Sum Total Emissions from O&M Leaks discovered in 2019

Number of Days to Repair	Use only Repair-Discovery +1. Do not use January 1st for time to repair. For regraded leaks, use Repair Date - Regrade Date +1.
Emission Factor (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Unsurveyed Pipeline Leaks	
2017 Emissions from O&M* Leaks Detected in 2016 (Mscf)	O&M Sources Include: O&M Activities Customer Odor Reports Third Party Reports and other
2017 Estimated Emissions from Unknown Leaks (Mscf)	Calculation based on the input from column J above.

Pipeline Leaks Summary	
Count of Leaks Carried over from Prior Year	Based on a leak start date prior to the first day of the year of interest.
Count of Leaks Discovered in the Year of Interest	The total number of leaks by grade or category discovered in the year of interest. If a leak is downgraded to not leaking, do not count it.
Count of Leaks Repaired in the Year of Interest	
Average Days to Repair Leaks	The average days to repair leaks should be based on the formula: (Repair Date/Time minus Discovery Date/Time) plus (one day, unless using a discrete time stamp for leak repairs), then take the sum and divide by number of leaks repaired by grade to get the average days to repair.
Count of Estimated Unsurveyed Leaks in the Year of Interest	For leaks identified in Unserved areas extrapolate the proportion of leak counts by grade that were found in the respective areas based on the year or periods used to estimate the unserved leak count. If the unserved leak count was based on the current year leak count by grade detected then use the current proportion of graded leak count applied to the unserved leaks.
Count of Remaining Leaks at final day of the Year of Interest (12/31/xx)	This count is only of the actual leaks detected in the operator's system that have not been repaired as of 12/31 of the year of interest.
Emissions from Leaks Carried over from Prior Year.	Based on a leak start date prior to the first day of the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Leaks Discovered in the Year of Interest.	The total number of leaks by grade or category discovered in the year of interest. This includes leaks discovered through O&M and survey activities.
Emissions from Estimated Unsurveyed Leaks in the Year of Interest	The emissions by grade would be on the same basis that used to extrapolate the count of leaks in the unserved areas. For example: For leaks identified in Unserved areas extrapolate the proportion of leak emissions by grade that were found in the respective areas based on the year or periods used to estimate the unserved leak count. If the unserved leak count was based on the current year leaks detected then use the current proportion of graded leaks applied to the unserved leak emissions.
Total Emissions in the Year of Interest [Mscf of Natural Gas]	

All Damages	
ID	
Geographic Location	GIS, zip code, or equivalent
Damage Type	E = excavation damage N = natural force damage O = other outside force damage
Pipe Classification	MA = distribution main, above ground MB = distribution main, below ground DA = distribution service, above ground DB = distribution service, below ground
Pipe Material	C = copper CI = cast iron P = plastics (Acetal, ABS, PE, PVC, etc.) PB = cathodically protected steel, bare PC = cathodically protected steel, coated UB = unprotected steel, bare UC = unprotected steel, coated
Pipe Size (nominal)	
Pipe Age (months)	

Pressure (psi)	MOP = maximum operating pressure over the past year
Leak Grade	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 N = Non-Graded
Above Ground or Below Ground	AH = above ground, hazardous AN = above ground, non-hazardous B = below ground
Discovery Date (MM/DD/YY)	
Repair Date (MM/DD/YY)	
Number of Days Leaking	<p>If date and time stamp are reliable and used consistently by respondent, then emissions may be calculated based on actual time leaking. E.G. Repair time - damage event time = duration of event.</p> <p>If respondent has average or historical leak duration based on the nature and circumstances of damages, then these may be applied to like damage events. The emissions factors should be adequately supported and explained in the filing.</p> <p>If actual time stamps and historical averages are not available, then whole days should be used in the engineering calculation. The leak begins with the damage event date thru repair date or December 31st of subject year, whichever is later. E.G. Days Leaking = Repair date - date of damage + 1 day.</p>
Emission Factor or Engineering Estimate (Mscf/Day)	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	If counting a series of small blowdowns associated with services such as MSA replacement, or Service pipe of small diameter or section length then enter total and the formula in the explanation column.
Pipe Size (nominal)	
Length of Pipe	
Pressure (psi)	MOP = maximum operating pressure over the past year
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Vented Emissions	
Total Number of Devices	
Device Type	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Leaks	
Total Number of Devices	
Device Type	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Discovery Date (MM/DD/YY)	<p>List the actual discovery date.</p> <p>If the leak was discovered in the year of interest, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes.</p>

Repair Date (MM/DD/YY)	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
Number of Days Leaking	Assume Leaking from January 1 of subject year or prior survey date, whichever is later, thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier. For O&M discovered leaks, assume that the leak begins with the discovery date thru repair date or December 31st of subject year, whichever is earlier.
Emission Factor (Mscf/day)	
Annual Emission (Mscf)	
Explanatory Notes / Comments	