

## SDG&amp;E, June 15, 2026

Rulemaking (R) 15-01-008 to Adapt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1377, Lenn.  
In Response to Data Request, R15-01-008, 2026 June Report  
Appendix 4, Rev. 03/26/2026

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

If 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

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 2025

- 7 -

Sum: Total Emissions from Survey Leaks discovered in 2025

10,539

Sum: Total Emissions from O&M Leaks discovered in 2025

122

Grand Total of all 2025 emissions from leaks

10,661

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

## Distribution Main &amp; Service Pipeline Leaks:

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	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 (MMBtu/Day)	Annual Emissions (MMBtu)	Explanatory Notes / Comments
252342	92124 08	P	1/2" CTS	623	Less than or equal to 60	2	B	M			12/31/2025		12/31/2025			1	1	0.1154	0	
2521247	92124 08	P	1 1/4"	632	Less than or equal to 60	1	B	S			1/10/2025		12/10/2025			354	1	0.1154	42	
2502161	92107 08	PC	3/4"	911	Less than or equal to 60	2	B	M			1/27/2025					339	0	0.1154	39	
2521582	92057 MB	P	2"	575	Less than or equal to 60	2	B	S			1/22/2025		1/26/2026			305	16	0.1154	42	
2521140	91932 08	PC	3/4"	827	Less than or equal to 60	1	B	M			11/23/2025		11/23/2025			1	1	0.1154	0	
2519317	92113 08	PC	3/4"	827	Less than or equal to 60	2	B	M			10/27/2025		11/10/2025			15	15	0.1154	2	
2523011	92071 MB	P	2"	539	Less than or equal to 60	2	B	S			1/14/2025		1/17/2026			365	23	0.1154	42	
2521485	92101 08	P	1/2" CTS	563	Less than or equal to 60	2	B	M			12/21/2025		1/8/2026			11	19	0.1154	1	
2521979	92034 08	P	1/2" CTS	575	Less than or equal to 60	2	B	S			1/13/2025		1/13/2026			365	14	0.1154	42	
2521978	92114 08	PC	3/4"	767	Less than or equal to 60	2	B	S			1/21/2025		1/6/2026			365	7	0.1154	42	
2511800	92115 08	PC	3/4"	899	Less than or equal to 60	2	B	S			7/31/2025		1/22/2026			154	176	0.1154	18	
2507176	92115 08	PC	1 1/2"	895	Less than or equal to 60	2	B	S			4/4/2025		10/9/2025			282	179	0.1154	33	
2507172	92115 08	PC	3/4"	839	Less than or equal to 60	2	B	S			4/14/2025		10/9/2025			282	179	0.1154	33	
2507252	92115 08	PC	3/4"	899	Less than or equal to 60	2	B	S			4/15/2025		10/9/2025			282	178	0.1154	33	
2521340	92106 08	PC	3/4"	875	Less than or equal to 60	2	B	S			1/26/2025		1/13/2026			365	29	0.1154	42	
2507304	92115 08	PC	3/4"	899	Less than or equal to 60	2	B	S			4/15/2025		10/9/2025			282	178	0.1154	33	
2518541	92020 MB	PC	2"	923	Less than or equal to 60	2	B	S			1/18/2025		1/18/2026			322	34	0.1154	37	
250439	92020 08	PC	3/4"	911	Less than or equal to 60	1	B	S			1/29/2025		1/29/2026			29	1	0.1154	3	
2521488	92011 MB	P	2"	587	Less than or equal to 60	2	B	M			1/22/2025					1	0.1154	0		
2505221	91950 MB	PC	2"	983	Less than or equal to 60	1	B	S			3/16/2025		3/16/2025			73	1	0.1154	9	
2503993	92054 08	PC	1"	883	Less than or equal to 60	2	B	S			2/21/2025		2/21/2025			52	12	0.1154	6	
2504190	92075 08	PC	1"	563	Less than or equal to 60	2	B	S			2/26/2025		4/23/2025			113	58	0.1154	13	
2517831	92037 08	PC	3/4"	791	Less than or equal to 60	2	B	S			1/30/2025		10/29/2025			302	24	0.1154	35	
2507007	91942 MB	PC	2"	1031	Less than or equal to 60	2	B	S			4/29/2025		4/23/2025			113	114	0.1154	13	
2500256	92115 08	PC	3/4"	911	Less than or equal to 60	2	B	S			1/6/2025		1/6/2025			6	1	0.1154	1	
2509017	92114 08	PC	3/4"	899	Less than or equal to 60	2	B	S			1/9/2025		1/9/2025			9	0	0.1154	1	
2508811	92105 08	PC	3/4"	815	Less than or equal to 60	2	B	S			5/7/2025		6/16/2025			167	41	0.1154	19	
2504990	92113 MB	PC	1 1/2"	959	Less than or equal to 60	2	B	S			3/9/2025		2/10/2025			112	65	0.1154	15	
2510386	92113 08	PC	3/4"	971	Less than or equal to 60	2	B	S			8/7/2025		8/7/2025			213	51	0.1154	20	
2507678	92114 08	PC	3/4"	863	Less than or equal to 60	2	B	S			4/25/2025		5/20/2025			140	30	0.1154	16	
2508912	92114 08	PC	3/4"	875	Less than or equal to 60	2	B	S			4/8/2025		5/2/2025			152	43	0.1154	16	
2511843	92103 MB	P	1 1/4"	599	Less than or equal to 60	2	B	S			6/26/2025		7/29/2025			210	34	0.1154	24	
2517036	92126 08	P	3"	493	Less than or equal to 60	2	B	S			9/24/2025		10/30/2025			303	37	0.1154	35	
2505641	91950 08	PC	1 1/2"	837	Less than or equal to 60	2	B	S			1/29/2025		1/29/2025			118	40	0.1154	14	
2508680	91945 08	PC	3/4"	791	Less than or equal to 60	2	B	S			5/5/2025		6/4/2025			155	31	0.1154	18	
2500732	92114 08	PC	3/4"	851	Less than or equal to 60	2	B	S			1/10/2025		1/23/2025			22	24	0.1154	5	
2509327	92102 MB	PC	1 1/2"	875	Less than or equal to 60	2	B	S			5/14/2025		6/10/2025			161	29	0.1154	19	
2501621	92113 08	PC	3/4"	875	Less than or equal to 60	2	B	S			1/21/2025		2/10/2025			41	21	0.1154	5	
2511865	92119 08	PC	3/4"	748	Less than or equal to 60	2	B	S			8/4/2025		8/24/2025			297	51	0.1154	20	
2517311	92115 08	PC	3/4"	189	Less than or equal to 60	2	B	M			9/28/2025		9/28/2025			3	3	0.1154	0	
2507003	92115 08	PC	1 1/4"	150	Less than or equal to 60	2	B	S			4/18/2025		4/18/2025			108	1	0.1154	1	
2522113	92037 MB	PC	3"	659	Less than or equal to 60	2	B	S			12/6/2025					342	3	0.1154	39	
2511906	92106 08	PC	3/4"	1019	Less than or equal to 60	2	B	S			6/27/2025		8/9/2025			217	40	0.1154	25	
2511806	92028 MB	PC	2"	115	Less than or equal to 60	2	B	S			10/14/2025		10/17/2025			114	194	0.1154	1	
2519828	91910 MB	PC	2"	887	Less than or equal to 60	1	B	M			11/4/2025		11/4/2025			1	1	0.1154	0	
2503063	91911 08	PC	3/4"	839	Less than or equal to 60	2	B	S			2/9/2025		2/9/2025			78	2	0.1154	7	
2510807	92103 MB	P	3"	523	Less than or equal to 60	2	B	S			6/9/2025		7/17/2025			198	39	0.1154	23	
2504721	91950 MB	PC	1 1/2"	875	Less than or equal to 60	2	B	S			2/12/2025		3/27/2025			86	55	0.1154	10	
2507786	92115 08	PC	3/4"	755	Less than or equal to 60	2	B	S			3/17/2025		6/17/2025			163	154	0.1154	19	
2504607	91911 MB	PC	1 1/4"	887	Less than or equal to 60	2	B	S			3/9/2025		4/9/2025			89	58	0.1154	11	
2515425	91942 MB	PC	2"	875	Less than or equal to 60	2	B	S			8/28/2025		8/28/2025			240	1	0.1154	28	
2520060	92116 08	PC	3/4"	1067	Less than or equal to 60	2	B	S			11/14/2025		11/13/2025			317	2	0.1154	37	
2501652	92114 MB	PC	2"	587	Less than or equal to 60	2	B	S			1/21/2025		2/26/2025			57	37	0.1154	7	
2508011	92115 08	PC	3/4"	947	Less than or equal to 60	2	B	S			4/24/2025		4/26/2025			177	114	0.1154	20	
2505262	91950 08	PC	2"	851	Less than or equal to 60	2	B	S			1/19/2025		4/16/2025			106	29	0.1154	12	
2501449	92007 MB	PC	1"	791	Less than or equal to 60	2	B	S			6/20/2025		6/20/2025			171	42	0.1154	20	
2512485	92101 08	PC	3/4"	851	Less than or equal to 60	2	B	S			7/14/2025		7/8/2025			199	8	0.1154	23	
2506683	91912 MB	PC	1 1/2"	887	Less than or equal to 60	2	B	S			3/26/2025		4/16/2025			104	20	0.1154	12	
2504947	92113 08	PC	3/4"	652	Less than or equal to 60	2	B	S			1/22/2025		3/13/2025			10	1	0.1154	10	
2520022	92126 08	PC	3/4"	659	Less than or equal to 60	2	B	S			11/13/2025		11/13/2025			317	1	0.1154	37	
2501649	92106 08	PC	3/4"	1019	Less than or equal to 60	2	B	S			7/7/2025		7/7/2025			188	1	0.1154	22	
2504950	91950 08	PC	1 1/2"	779	Less than or equal to 60	2	B	S			1/9/2025		1/22/2025			22	14	0.1154	3	
2504201	92103 MB	P	1 1/2"	46	Less than or equal to 60	2	B	S			2/25/2025		3/26/2025			85	30	0.1154	10	
2510168	92106 08	PC	3/4"	911	Less than or equal to 60	2	B	S			1/26/2025		4/24/2025			102	60	0.1154	19	
2502760	91910 08	PC	3/4"	971	Less than or equal to 60	2	B	S			2/20/2025		3/20/2025			79	47	0.1154	9	
2502495	92113 08	PC	3/4"	971	Less than or equal to 60	2	B	S			1/9/2025		1/4/2025			63	1</			

2509110	91902	DB	PC	3/4"	815	Less than or equal to 60	2	B	S	2/6/2005	3/13/2005	72	36	0.1154	8
2505200	91910	MB	PC	1 1/2"	815	Less than or equal to 60	2	B	S	4/14/2005	4/14/2005	304	30	0.1154	31
2506322	92014	MB	P	2"	275	Less than or equal to 60	2	B	M	3/9/2005	4/29/2005	31	31	0.1154	4
2507010	91941	DB	PC	3/4"	815	Less than or equal to 60	2	B	S	4/26/2005	4/26/2005	114	15	0.1154	13
2507117	92114	DB	PC	3/4"	778	Less than or equal to 60	2	B	S	4/21/2005	4/11/2005	101	1	0.1154	101
2509169	92114	DB	PC	3/4"	587	Less than or equal to 60	2	B	S	5/13/2005	6/12/2005	163	31	0.1154	19
2510946	92007	MB	PC	3/4"	791	Less than or equal to 60	2	B	S	6/2/2005	6/2/2005	175	23	0.1154	175
2501358	92173	DB	PC	3/4"	659	Less than or equal to 60	2	B	S	1/17/2005	2/11/2005	42	26	0.1154	5
2514845	92114	DB	PC	3/4"	683	Less than or equal to 60	1	B	S	10/15/2005	10/15/2005	288	1	0.1154	33
2514035	92111	DB	PC	3/4"	1019	Less than or equal to 60	2	B	S	8/5/2005	8/5/2005	32	0.1154	32	1
2513912	92109	MB	PC	1 1/2"	911	Less than or equal to 60	2	B	S	8/4/2005	8/4/2005	260	45	0.1154	30
2502114	91950	MB	PC	3/4"	147	Less than or equal to 60	2	B	S	1/27/2005	1/26/2005	79	53	0.1154	1
2513796	92106	DB	PC	3/4"	899	Less than or equal to 60	1	B	M	7/31/2005	7/31/2005	1	1	0.1154	0
2513106	92107	DB	PC	3/4"	923	Less than or equal to 60	2	B	S	7/24/2005	8/9/2005	218	14	0.1154	25
2510424	92102	MB	PC	3/4"	479	Less than or equal to 60	2	B	S	7/8/2005	7/8/2005	248	0.1154	32	1
2507710	92114	DB	PC	3/4"	647	Less than or equal to 60	2	B	S	4/21/2005	4/21/2005	154	44	0.1154	18
2501193	91950	MB	PC	3/4"	887	Less than or equal to 60	2	B	S	1/16/2005	2/6/2005	17	22	0.1154	17
2504766	91911	DB	PC	3/4"	707	Less than or equal to 60	2	B	S	3/5/2005	4/9/2005	99	36	0.1154	11
2510095	92084	MB	PC	1 1/2"	875	Less than or equal to 60	1	B	S	5/26/2005	5/26/2005	148	1	0.1154	17
2503978	91911	MB	PC	1 1/2"	863	Less than or equal to 60	2	B	S	7/21/2005	3/24/2005	83	0.1154	10	1
2512079	92107	DB	PC	3/4"	911	Less than or equal to 60	2	B	S	7/1/2005	7/1/2005	198	7	0.1154	23
2501044	92114	DB	PC	3/4"	630	Less than or equal to 60	2	B	S	7/9/2005	7/9/2005	202	19	0.1154	23
2512225	92108	MB	PC	2"	767	Less than or equal to 60	2	B	S	3/15/2005	4/14/2005	104	31	0.1154	12
2505307	91910	DB	PC	3/4"	683	Less than or equal to 60	2	B	S	7/25/2005	7/25/2005	56	1	0.1154	1
2504189	92154	DB	PC	3/4"	875	Less than or equal to 60	2	B	S	5/22/2005	7/1/2005	182	41	0.1154	21
2506862	92105	DB	PC	3/4"	719	Less than or equal to 60	2	B	S	1/26/2005	1/26/2005	38	1	0.1154	3
2502217	92129	MB	PC	2"	1019	Less than or equal to 60	2	B	S	10/7/2005	10/7/2005	304	25	0.1154	35
2517953	92111	MB	PC	1"	629	Less than or equal to 60	2	B	S	8/4/2005	10/3/2005	276	64	0.1154	32
2518283	92020	MB	P	2"	827	Less than or equal to 60	2	B	S	2/5/2005	2/7/2005	18	23	0.1154	7
2503050	91911	DB	PC	3/4"	779	Less than or equal to 60	2	B	M	12/12/2005	12/11/2005	2	2	0.1154	0
2521554	92104	DB	PC	3/4"	875	Less than or equal to 60	2	B	S	5/26/2005	6/22/2005	265	117	0.1154	31
2501005	91911	MB	PC	1 1/2"	971	Less than or equal to 60	2	B	S	2/24/2005	3/27/2005	86	32	0.1154	10
2518363	91950	MB	PC	1 1/2"	839	Less than or equal to 60	1	B	M	10/4/2005	10/4/2005	1	1	0.1154	0
2500915	92114	MB	P	1 1/4"	599	Less than or equal to 60	2	B	S	1/13/2005	1/13/2005	13	11	0.1154	13
2504935	92114	DB	PC	3/4"	863	Less than or equal to 60	2	B	S	5/16/2005	7/21/2005	202	67	0.1154	23
2505216	92009	MB	PC	3/4"	623	Less than or equal to 60	2	B	S	3/14/2005	3/14/2005	79	7	0.1154	7
2515934	91945	MB	PC	1 1/2"	791	Less than or equal to 60	2	B	S	9/5/2005	9/19/2005	262	15	0.1154	30
2505517	92040	DB	PC	3/4"	659	Less than or equal to 60	2	B	M	3/19/2005	4/4/2005	17	17	0.1154	2
2521607	92008	MB	PC	2"	671	Less than or equal to 60	2	B	S	12/12/2005	12/12/2005	346	11	0.1154	24
2520551	92123	DB	PC	1 1/2"	755	Less than or equal to 60	2	B	S	11/13/2005	11/9/2005	343	27	0.1154	40
2511001	92103	MB	PC	3/4"	1109	Less than or equal to 60	2	B	M	4/2/2005	4/2/2005	2	2	0.1154	0
2509448	91941	MB	PC	1 1/2"	899	Less than or equal to 60	2	B	S	5/14/2005	6/6/2005	157	24	0.1154	18
2504988	91910	DB	PC	3/4"	1079	Less than or equal to 60	2	B	S	3/9/2005	4/10/2005	100	33	0.1154	12
2514230	92075	DB	PC	3/4"	28	Less than or equal to 60	2	B	S	8/7/2005	8/9/2005	146	0.1154	38	1
2507642	92109	DB	PC	3/4"	1511	Less than or equal to 60	1	B	M	4/19/2005	4/19/2005	1	1	0.1154	0
2507196	92105	MB	PC	3/4"	923	Less than or equal to 60	2	B	S	1/26/2005	4/2/2005	153	1	0.1154	1
2514375	91942	DB	PC	3/4"	707	Less than or equal to 60	2	B	S	8/11/2005	10/28/2005	301	79	0.1154	35
2508445	92115	DB	PC	3/4"	1184	Less than or equal to 60	2	B	M	10/4/2005	10/13/2005	6	6	0.1154	1
2504977	91910	DB	P	1"	42	Less than or equal to 60	1	B	S	3/8/2005	3/8/2005	67	1	0.1154	8
2511583	92119	MB	PC	3/4"	803	Less than or equal to 60	2	B	S	8/27/2005	1/1/2006	239	31	0.1154	16
2505823	91911	MB	PC	1 1/2"	923	Less than or equal to 60	2	B	S	3/22/2005	4/24/2005	114	34	0.1154	13
2505389	92029	MB	P	1 1/4"	587	Less than or equal to 60	1	B	M	3/19/2005	3/19/2005	1	1	0.1154	0
2507328	92105	DB	PC	3/4"	791	Less than or equal to 60	2	B	S	4/25/2005	5/15/2005	135	1	0.1154	16
2513225	92069	MB	PC	1 1/2"	671	Less than or equal to 60	2	B	S	7/21/2005	8/5/2005	217	14	0.1154	25
2504555	92129	MB	PC	2"	659	Less than or equal to 60	2	B	S	3/2/2005	4/8/2005	96	0.1154	38	1
2508611	92128	MB	P	2"	503	Less than or equal to 60	2	B	M	2/16/2005	2/16/2005	1	1	0.1154	0
2502127	92139	MB	PC	1 1/2"	923	Less than or equal to 60	2	B	S	1/27/2005	2/20/2005	51	25	0.1154	6
2511026	92024	DB	PC	3/4"	779	Less than or equal to 60	2	B	S	10/2/2005	7/2/2005	183	1	0.1154	1
2504987	92064	DB	P	1/2" CTS	659	Less than or equal to 60	1	B	S	3/9/2005	3/9/2005	68	1	0.1154	8
2516886	92120	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	10/30/2005	10/30/2005	29	0.1154	36	1
2508915	92114	MB	PC	1 1/2"	875	Less than or equal to 60	2	B	S	5/8/2005	5/23/2005	143	16	0.1154	16
2505098	92105	DB	PC	1"	911	Less than or equal to 60	2	B	S	6/5/2005	7/15/2005	196	41	0.1154	23
2511539	91977	DB	PC	3/4"	767	Less than or equal to 60	2	B	M	8/7/2005	8/28/2005	1	1	0.1154	0
2512179	92116	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	12/1/2005	12/1/2005	339	3	0.1154	39
2502797	92113	MB	PC	1 1/2"	899	Less than or equal to 60	2	B	S	4/19/2005	4/19/2005	9	0.1154	39	1
2515655	91911	MB	PC	2"	743	Less than or equal to 60	2	B	S	9/2/2005	9/2/2005	245	1	0.1154	28
2511283	92054	MB	PC	1 1/2"	1103	Less than or equal to 60	2	B	S	7/21/2005	8/4/2005	216	13	0.1154	25
2504802	92114	DB	PC	3/4"	743	Less than or equal to 60	2	B	S	6/2/2005	6/2/2005	153	1	0.1154	13
2508181	92114	DB	PC	3/4"	887	Less than or equal to 60	2	B	S	4/28/2005	5/13/2005	13	16	0.1154	15
2512370	92103	MB	PC	2"	599	Less than or equal to 60	2	B	M	7/8/2005	7/8/2005	1	1	0.1154	1
2509399	92025	DB	P	1/2" CTS	443	Less than or equal to 60	2	B	S	5/16/2005	5/27/2005	147	12	0.1154	17
2506071	92126	DB	PC	3/4"	671	Less than or equal to 60	1	B	S	11/7/2005	11/7/2005	321	1	0.1154	37
2513751	92120	DB	PC	3/4"	819	Less than or equal to 60	2	B	S	9/6/2005	9/6/2005	293	0.1154	37	1
2511839	92129	DB	PC	3/4"	659	Less than or equal to 60	1	B	S	6/26/2005	6/26/2005	177	1	0.1154	20
2507680	91945	DB	PC	3/4"	671	Less than or equal to 60	2	B	M	4/21/2005	4/21/2005	1154	0.1154	38	1
2505005	92111	MB	PC	3/4"	683	Less than or equal to 60	2	B	M	1/24/2005	2/14/2005	12	12	0.1154	1
2506566	92105	DB	PC	3/4"	1175	Less than or equal to 60	1	B	S	5/19/2005	5/19/2005	139	1	0.1154	16
2517651	92109	MB	PC	3/4"	899	Less than or equal to 60	2	B	S	10/2/2005	10/2/2005	276	0.1154	37	1
2504465	92113	DB	PC	3/4"	551	Less than or equal to 60	2	B	S	1/30/2005	2/26/2005	57	28	0.1154	7
2511034	92104	DB	PC	3/4"	1160	Less than or equal to 60	2	B	S	8/12/2005	8/12/2005	40	0.1154	40	1
2514486	91942	DB	PC	3/4"	875	Less than or equal to 60	1	B	S	8/4/2005	8/4/2005	226	1	0.1154	26
2521295	91978	MB	P	1 1/4"	571	Less than or equal to 60	2	B	S	7/16/2005	8/2/2005	113	17	0.1154	25
2511247	91977	DB	PC	3/4"	791	Less than or equal to 60	2	B	S	7/3/2005	7/3/2005	112	0.1154	26	1
2504114	91911	DB	PC	3/4"	815	Less than or equal to 60	2	B	S	2/28/2005	4/1/2005	91	33	0.1154	10
2511884	92110	MB	PC	3/4"	863	Less than or equal to 60	2	B	S	6/7/2005	6/7/2005	1	5	0.1154	21
2505130	92139	MB	PC	3"	671	Less than or equal to 60	2	B	S	1/16/2005	2/25/2005	56	41	0.1154	6
2510044	92113	DB	PC												

252182	91911 DB	P	1 1/4"	587	Less than or equal to 60	1	B	S	11/26/2005	11/26/2005	330	1	0.1154	38
250602	92114 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	4/8/2005	4/8/2005	89	1	0.1154	89
251248	92104 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	7/9/2005	8/1/2005	223	34	0.1154	26
251765	92054 MB	P	2"	479	Less than or equal to 60	2	B	S	10/3/2005	10/3/2005	286	11	0.1154	33
251822	92084 MB	P	1 1/2"	755	Less than or equal to 60	2	B	S	10/20/2005	10/21/2005	284	12	0.1154	284
250972	91945 DB	PC	3/4"	791	Less than or equal to 60	2	B	S	5/21/2005	9/5/2005	248	108	0.1154	29
252209	92139 MB	P	1 1/2"	947	Less than or equal to 60	2	B	S	1/20/2005	2/2/2005	56	29	0.1154	56
252189	92010 DB	P	1 1/4"	587	Less than or equal to 60	2	B	S	12/2/2005	12/3/2005	337	1	0.1154	39
250731	92108 DB	PC	3/4"	791	Less than or equal to 60	1	B	S	4/14/2005	4/14/2005	104	1	0.1154	12
250209	92114 MB	PC	1 1/2"	863	Less than or equal to 60	2	B	S	1/3/2005	1/3/2005	23	23	0.1154	23
250412	92009 DB	P	1/27 CTS	115	Less than or equal to 60	1	B	S	5/16/2005	5/16/2005	136	1	0.1154	16
251105	92110 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	8/4/2005	8/4/2005	216	39	0.1154	39
250292	92075 MB	PC	1"	755	Less than or equal to 60	1	B	M	1/28/2005	1/28/2005	1	1	0.1154	0
250628	91950 DB	PC	3/4"	779	Less than or equal to 60	2	B	S	1/9/2005	1/22/2005	22	14	0.1154	3
250630	92139 MB	P	2"	951	Less than or equal to 60	2	B	S	9/20/2005	9/20/2005	1	1	0.1154	34
250689	92115 MB	PC	1 1/2"	731	Less than or equal to 60	2	B	S	4/10/2005	4/17/2005	107	8	0.1154	12
250680	91942 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	4/6/2005	4/18/2005	138	13	0.1154	13
250630	92075 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	4/16/2005	4/16/2005	106	38	0.1154	12
250125	92114 MB	PC	1 1/2"	887	Less than or equal to 60	2	B	S	1/15/2005	1/30/2005	30	16	0.1154	3
250794	91977 MB	PC	1 1/2"	803	Less than or equal to 60	2	B	S	4/8/2005	6/17/2005	262	163	0.1154	39
250649	92139 MB	PC	2"	955	Less than or equal to 60	2	B	S	1/9/2005	1/28/2005	28	20	0.1154	3
250565	92113 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	3/20/2005	4/7/2005	57	19	0.1154	11
251249	91977 MB	P	2"	622	Less than or equal to 60	2	B	S	7/18/2005	8/4/2005	216	18	0.1154	25
250474	92011 MB	P	4"	335	Less than or equal to 60	2	B	S	3/5/2005	3/18/2005	17	14	0.1154	9
251868	92020 MB	P	2"	611	Less than or equal to 60	2	B	S	10/18/2005	10/18/2005	291	24	0.1154	37
251320	91977 DB	PC	3/4"	671	Less than or equal to 60	2	B	S	7/21/2005	8/14/2005	226	23	0.1154	26
251936	91942 DB	PC	3/4"	815	Less than or equal to 60	2	B	S	10/27/2005	11/2/2005	133	24	0.1154	37
250518	92113 MB	PC	2"	1156	Less than or equal to 60	2	B	S	1/30/2005	3/4/2005	63	34	0.1154	7
251181	92103 DB	PC	3/4"	933	Less than or equal to 60	2	B	S	6/26/2005	7/31/2005	212	36	0.1154	24
250951	91911 MB	PC	2"	851	Less than or equal to 60	2	B	S	7/20/2005	8/1/2005	81	41	0.1154	10
251454	92111 DB	PC	3/4"	803	Less than or equal to 60	1	B	S	9/13/2005	9/13/2005	218	1	0.1154	30
251498	92083 MB	PC	2"	107	Less than or equal to 60	2	B	S	10/28/2005	11/1/2005	15	116	0.1154	37
251466	92101 DB	PC	3/4"	851	Less than or equal to 60	2	B	S	6/7/2005	7/24/2005	205	52	0.1154	24
250747	92114 DB	PC	3/4"	875	Less than or equal to 60	2	B	S	4/14/2005	7/1/2005	182	79	0.1154	21
250384	92136 DB	PC	1 1/4"	527	Less than or equal to 60	2	B	S	11/7/2005	11/7/2005	111	11	0.1154	36
250591	92113 MB	PC	2"	527	Less than or equal to 60	2	B	S	1/31/2005	3/10/2005	69	39	0.1154	8
251407	92113 MB	PC	2"	587	Less than or equal to 60	2	B	S	6/2/2005	6/2/2005	154	7	0.1154	1
251129	92116 DB	PC	3/4"	503	Less than or equal to 60	2	B	S	6/25/2005	7/28/2005	209	34	0.1154	24
250593	91911 MB	PC	2"	695	Less than or equal to 60	2	B	S	1/9/2005	1/23/2005	23	15	0.1154	3
251073	92108 DB	P	1 1/2"	635	Less than or equal to 60	2	B	S	6/6/2005	6/6/2005	1	1	0.1154	0
250959	92105 DB	PC	3/4"	743	Less than or equal to 60	2	B	S	5/20/2005	6/9/2005	181	42	0.1154	21
251461	92107 MB	PC	1 1/2"	671	Less than or equal to 60	2	B	S	6/1/2005	6/1/2005	230	230	0.1154	230
250632	92139 MB	PC	1 1/4"	983	Less than or equal to 60	2	B	S	1/9/2005	1/21/2005	21	13	0.1154	2
250398	92139 MB	PC	2"	947	Less than or equal to 60	2	B	S	1/7/2005	1/21/2005	21	15	0.1154	2
250393	92014 MB	PC	2"	599	Less than or equal to 60	2	B	S	7/20/2005	7/20/2005	99	99	0.1154	99
250319	92113 DB	PC	3/4"	1055	Less than or equal to 60	1	B	S	2/5/2005	2/5/2005	36	1	0.1154	4
250762	91945 DB	PC	3/4"	811	Less than or equal to 60	2	B	S	4/7/2005	4/8/2005	3	3	0.1154	3
250879	91977 DB	PC	3/4"	803	Less than or equal to 60	2	B	S	5/2/2005	8/5/2005	217	96	0.1154	25
251731	92105 DB	PC	3/4"	659	Less than or equal to 60	2	B	M	9/21/2005	9/21/2005	1	1	0.1154	0
250971	92037 DB	PC	3/4"	623	Less than or equal to 60	2	B	S	11/20/2005	11/20/2005	314	314	0.1154	314
250680	92114 DB	PC	3/4"	875	Less than or equal to 60	1	B	S	4/9/2005	4/9/2005	99	1	0.1154	11
251147	92103 DB	PC	3/4"	900	Less than or equal to 60	2	B	S	10/2/2005	10/2/2005	212	61	0.1154	31
251743	92130 MB	P	2"	491	Less than or equal to 60	1	B	S	9/30/2005	9/30/2005	273	37	0.1154	31
252192	92111 DB	PC	3/4"	647	Less than or equal to 60	2	B	S	12/1/2005	12/1/2005	344	8	0.1154	40
250380	91950 MB	PC	1 1/2"	683	Less than or equal to 60	2	B	S	4/3/2005	4/3/2005	83	60	0.1154	83
250825	92173 DB	PC	3/4"	647	Less than or equal to 60	2	B	S	1/21/2005	1/23/2005	23	1	0.1154	3
250918	91910 MB	PC	2"	578	Less than or equal to 60	2	B	S	3/8/2005	3/8/2005	249	24	0.1154	249
250210	92139 DB	P	1/27 IP5	515	Less than or equal to 60	1	B	S	1/27/2005	1/27/2005	27	1	0.1154	3
250678	91942 MB	PC	2"	587	Less than or equal to 60	2	B	S	4/6/2005	5/5/2005	125	30	0.1154	14
250729	91945 MB	PC	1 1/2"	791	Less than or equal to 60	2	B	S	9/7/2005	9/7/2005	53	138	0.1154	138
250491	92007 DB	P	1/27 CTS	527	Less than or equal to 60	2	B	S	3/7/2005	4/5/2005	105	40	0.1154	12
251500	91942 DB	PC	1 1/4"	603	Less than or equal to 60	2	B	S	11/13/2005	11/13/2005	217	117	0.1154	217
250585	91913 MB	PC	2"	683	Less than or equal to 60	2	B	S	3/24/2005	4/25/2005	115	33	0.1154	13
250666	92037 DB	PC	3/4"	683	Less than or equal to 60	2	B	M	1/9/2005	2/4/2005	27	27	0.1154	3
250809	91942 MB	PC	2"	519	Less than or equal to 60	2	B	S	5/7/2005	5/8/2005	138	1	0.1154	138
250903	92114 MB	PC	1 1/2"	899	Less than or equal to 60	1	B	S	5/12/2005	5/12/2005	132	1	0.1154	15
250529	91950 DB	PC	3/4"	811	Less than or equal to 60	2	B	S	3/8/2005	3/8/2005	62	31	0.1154	6
250732	92115 DB	PC	3/4"	892	Less than or equal to 60	1	B	S	4/15/2005	4/15/2005	106	1	0.1154	12
250194	91911 MB	PC	2"	839	Less than or equal to 60	2	B	S	3/5/2005	4/9/2005	99	36	0.1154	3
251183	92105 DB	PC	3/4"	911	Less than or equal to 60	2	B	S	1/29/2005	6/73/2005	114	114	0.1154	114
250476	91911 DB	PC	3/4"	887	Less than or equal to 60	2	B	S	1/16/2005	2/18/2005	49	34	0.1154	6
250576	92154 MB	PC	3/4"	917	Less than or equal to 60	2	B	S	1/8/2005	1/23/2005	23	15	0.1154	15
250585	91911 MB	PC	1 1/2"	815	Less than or equal to 60	2	B	S	1/15/2005	2/4/2005	35	21	0.1154	4
250516	91977 DB	PC	3/4"	587	Less than or equal to 60	2	B	S	2/6/2005	2/6/2005	37	1	0.1154	4
250558	92037 DB	PC	3/4"	835	Less than or equal to 60	2	B	M	1/8/2005	1/8/2005	1	1	0.1154	0
250587	92020 DB	PC	3/4"	887	Less than or equal to 60	1	B	M	6/9/2005	6/9/2005	1	1	0.1154	0
250585	92103 DB	P	1/27 IP5	255	Less than or equal to 60	2	B	M	5/10/2005	5/10/2005	1	1	0.1154	0
250991	92118 DB	P	1"	215	Less than or equal to 60	2	B	M	5/23/2005	5/23/2005	1	1	0.1154	0
250909	92110 DB	PC	3/4"	671	Less than or equal to 60	2	B	M	1/20/2005	2/20/2005	1	1	0.1154	0
250587	92115 MB	PC	1 1/2"	899	Less than or equal to 60	2	B	S	4/2/2005	4/2/2005	112	112	0.1154	112
250505	91910 MB	PC	2"	1091	Less than or equal to 60	2	B	S	3/10/2005	4/9/2005	98	30	0.1154	11
251306	92109 MB	PC	3/4"	887	Less than or equal to 60	2	B	S	8/12/2005	8/12/2005	1	1	0.1154	11
250675	92115 DB	PC	3/4"	743	Less than or equal to 60	2	B	S	4/7/2005	4/11/2005	101	7	0.1154	12
250636	91950 MB	PC	2"	731	Less than or equal to 60	2	B	S	3/15/2005	4/2/2005	82	19	0.1154	11
250420	91902 DB	PC	3/4"	791	Less than or equal to 60	2	B	S	1/27/2005	3/7/2005	84	6	0.1154	84
251970	92083 MB	P	2"	623	Less than or equal to 60	2	B	M	10/1/2005	11/4/2005	5	5	0.1154	1
252148	92116 DB	PC	1 1/2"	611	Less than or equal to 60	2	B	M	11/26/2005	11/26/2005	1	1	0.1154	1
252141	92024 MB	PC	4"	1139	Less than or equal to 60	2	B	S	12/5/2005	12/5/2005	10	10	0.1154	1
250878	92139 DB	PC	3/4"	863	Less than or equal to 60	2	B	S	1/13/2005	1/28/2005	28	16	0.1154	3
251006	92105 DB	PC	3/4"	755	Less than or equal to 60	2	B	S	4/6/2005	7/24/2005	205	24	0.1154	24
250629	91911 MB													

2515240	92115	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	8/25/2025	9/9/2025	252	16	0.1154	29
2509817	92102	DB	PC	3/4"	875	Less than or equal to 60	2	B	S	5/22/2025	7/28/2025	209	68	0.1154	24
2505109	92109	DB	PC	3/4"	755	Less than or equal to 60	1	B	M	3/10/2025	3/10/2025	1	1	0.1154	0
2511779	92104	DB	PC	3/4"	1079	Less than or equal to 60	2	B	S	6/26/2025	7/28/2025	209	34	0.1154	24
2514944	92130	DB	PC	3/4"	791	Less than or equal to 60	1	B	S	8/20/2025	8/20/2025	1	1	0.1154	27
2509410	92114	DB	PC	3/4"	863	Less than or equal to 60	2	B	S	5/14/2025	6/17/2025	168	33	0.1154	19
2513614	92026	DB	PC	3/4"	467	Less than or equal to 60	2	B	S	8/1/2025	8/1/2025	231	19	0.1154	27
2515977	92115	MB	PC	1 1/2"	899	Less than or equal to 60	1	B	M	9/6/2025	9/6/2025	1	1	0.1154	0
2515459	92078	DB	PC	3/4"	623	Less than or equal to 60	2	B	S	9/3/2025	9/10/2025	253	9	0.1154	29
2513809	92104	DB	PC	1 1/4"	611	Less than or equal to 60	2	B	S	7/14/2025	8/13/2025	214	28	0.1154	26
2514414	92056	MB	PC	1 1/2"	707	Less than or equal to 60	2	B	S	6/12/2025	8/29/2025	241	18	0.1154	28
2514519	92102	DB	PC	3/4"	695	Less than or equal to 60	2	B	S	6/4/2025	8/4/2025	216	63	0.1154	25
2512578	92104	DB	PC	3/4"	899	Less than or equal to 60	1	B	S	7/11/2025	7/11/2025	182	1	0.1154	22
2506720	92114	DB	P	1"	103	Less than or equal to 60	2	B	S	4/7/2025	5/1/2025	125	29	0.1154	14
2512745	92116	MB	PC	1 1/2"	859	Less than or equal to 60	2	B	M	9/18/2025	9/18/2025	1	1	0.1154	0
2511446	92103	DB	P	1 1/4"	635	Less than or equal to 60	2	B	S	6/24/2025	8/4/2025	216	42	0.1154	25
2514734	92084	DB	PC	3/4"	695	Less than or equal to 60	2	B	S	10/21/2025	10/21/2025	304	12	0.1154	35
2514286	91911	DB	PC	3/4"	239	Less than or equal to 60	1	B	M	8/8/2025	8/8/2025	1	1	0.1154	0
2500978	91911	DB	P	1"	635	Less than or equal to 60	2	B	S	1/14/2025	1/27/2025	27	14	0.1154	3
2510047	92102	DB	PC	3/4"	695	Less than or equal to 60	2	B	S	5/27/2025	7/15/2025	196	50	0.1154	23
2509944	92102	MB	PC	2"	719	Less than or equal to 60	2	B	S	5/23/2025	5/29/2025	149	7	0.1154	17
2510321	92105	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	5/21/2025	7/14/2025	155	45	0.1154	22
2509907	91950	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	3/24/2025	5/1/2025	121	39	0.1154	14
2517055	92020	DB	PC	3/4"	863	Less than or equal to 60	2	B	S	9/26/2025	9/29/2025	272	5	0.1154	31
2520015	92004	DB	PC	3/4"	671	Less than or equal to 60	2	B	S	1/16/2025	11/11/2025	311	6	0.1154	36
2506020	91950	DB	PC	3/4"	851	Less than or equal to 60	2	B	S	3/25/2025	5/1/2025	121	38	0.1154	14
2511245	91950	MB	PC	2"	299	Less than or equal to 60	2	B	S	7/23/2025	7/23/2025	204	1	0.1154	24
2519380	92083	MB	P	1 1/4"	146	Less than or equal to 60	2	B	S	10/28/2025	11/10/2025	314	14	0.1154	36
2503146	92115	DB	PC	3/4"	899	Less than or equal to 60	2	B	M	2/11/2025	2/11/2025	1	1	0.1154	0
2511726	92010	DB	P	1 1/4"	611	Less than or equal to 60	2	B	S	10/6/2025	10/6/2025	279	11	0.1154	32
2520305	92126	MB	P	2"	112	Less than or equal to 60	2	B	S	11/10/2025	11/24/2025	128	15	0.1154	38
2509007	92078	DB	PC	1 1/2"	695	Less than or equal to 60	1	B	S	5/8/2025	5/8/2025	129	1	0.1154	15
2511066	92102	MB	P	1 1/4"	635	Less than or equal to 60	2	B	S	6/12/2025	8/18/2025	230	68	0.1154	27
2508184	91977	MB	PC	1 1/2"	129	Less than or equal to 60	2	B	S	4/28/2025	5/14/2025	134	17	0.1154	15
2501782	91902	DB	P	1 1/4"	623	Less than or equal to 60	2	B	S	7/19/2025	8/27/2025	86	37	0.1154	10
2520741	92126	MB	PC	3"	671	Less than or equal to 60	2	B	S	11/18/2025	12/4/2025	338	17	0.1154	39
2513604	92020	MB	PC	1 1/2"	1019	Less than or equal to 60	2	B	S	7/28/2025	11/17/2025	321	112	0.1154	37
2500805	91950	MB	PC	1 1/2"	887	Less than or equal to 60	2	B	S	1/13/2025	1/28/2025	28	16	0.1154	3
2520320	92105	MB	PC	3"	767	Less than or equal to 60	2	B	S	5/14/2025	9/8/2025	251	101	0.1154	29
2509149	92105	DB	PC	3/4"	659	Less than or equal to 60	2	B	S	4/29/2025	6/10/2025	161	69	0.1154	25
2515170	92116	MB	PC	2"	1019	Less than or equal to 60	2	B	S	6/25/2025	7/29/2025	210	37	0.1154	24
2507668	92114	MB	PC	3/4"	185	Less than or equal to 60	2	B	S	4/23/2025	5/20/2025	143	21	0.1154	4
2515345	92120	MB	PC	2"	803	Less than or equal to 60	2	B	S	8/25/2025	10/14/2025	287	51	0.1154	33
2506318	92071	MB	PC	2"	671	Less than or equal to 60	1	B	M	4/3/2025	4/3/2025	1	1	0.1154	0
2511138	92129	DB	P	1 1/4"	611	Less than or equal to 60	2	B	M	11/23/2025	11/23/2025	1	1	0.1154	0
2510700	92105	MB	PC	2"	935	Less than or equal to 60	2	B	S	6/4/2025	7/14/2025	197	41	0.1154	23
2502868	92129	MB	P	1"	447	Less than or equal to 60	2	B	S	2/10/2025	2/10/2025	34	1	0.1154	4
2506079	92105	DB	PC	3/4"	887	Less than or equal to 60	2	B	S	5/19/2025	5/19/2025	139	25	0.1154	16
2510431	92102	DB	PC	3/4"	1007	Less than or equal to 60	2	B	S	6/1/2025	7/2/2025	183	30	0.1154	21
2508085	92114	DB	PC	3/4"	623	Less than or equal to 60	2	B	S	4/29/2025	4/29/2025	115	4	0.1154	13
2510097	92105	DB	PC	3/4"	863	Less than or equal to 60	2	B	S	5/10/2025	5/10/2025	161	14	0.1154	19
2502023	92129	DB	PC	3/4"	175	Less than or equal to 60	2	B	S	2/5/2025	2/5/2025	36	22	0.1154	36
2509046	91977	DB	PC	1"	803	Less than or equal to 60	2	B	S	5/9/2025	5/12/2025	132	4	0.1154	15
2509103	92024	DB	PC	1"	227	Less than or equal to 60	1	B	M	5/12/2025	5/12/2025	1	1	0.1154	0
2515586	92007	DB	PC	3/4"	635	Less than or equal to 60	2	B	S	10/30/2025	11/7/2025	311	9	0.1154	36
2505813	92113	DB	PC	3/4"	959	Less than or equal to 60	2	B	M	3/21/2025	3/21/2025	1	1	0.1154	0
2500272	92008	MB	PC	1 1/2"	911	Less than or equal to 60	2	B	M	1/6/2025	2/5/2025	31	1	0.1154	21
2507510	92105	DB	PC	3/4"	299	Less than or equal to 60	1	B	S	4/17/2025	4/17/2025	107	1	0.1154	12
2522496	92103	MB	PC	2"	1103	Less than or equal to 60	2	B	M	12/10/2025	12/10/2025	1	1	0.1154	0
2506626	91941	MB	PC	1 1/2"	947	Less than or equal to 60	1	B	S	4/6/2025	4/6/2025	84	1	0.1154	11
2502103	92139	DB	P	2"	947	Less than or equal to 60	2	B	S	1/27/2025	1/27/2025	51	25	0.1154	6
2510425	92009	MB	P	1 1/4"	659	Less than or equal to 60	2	B	S	6/1/2025	7/7/2025	188	35	0.1154	22
2506222	92154	DB	PC	3/4"	683	Less than or equal to 60	1	B	S	2/25/2025	2/25/2025	56	1	0.1154	6
2508818	91945	MB	P	2"	647	Less than or equal to 60	2	B	S	5/22/2025	5/22/2025	142	1	0.1154	16
2505084	92113	MB	P	1 1/4"	623	Less than or equal to 60	2	B	S	1/10/2025	4/17/2025	107	39	0.1154	12
2510527	92102	MB	PC	2"	1163	Less than or equal to 60	2	B	S	4/6/2025	7/22/2025	203	49	0.1154	23
2501388	91911	DB	PC	3/4"	695	Less than or equal to 60	2	B	S	2/11/2025	4/22/2025	112	71	0.1154	13
2518245	92109	MB	PC	1 1/2"	1174	Less than or equal to 60	2	B	S	10/10/2025	10/23/2025	296	14	0.1154	34
2512346	92104	MB	P	2"	624	Less than or equal to 60	2	B	S	7/8/2025	8/6/2025	218	30	0.1154	25
2511148	92109	MB	PC	6"	13	Less than or equal to 60	2	B	S	9/10/2025	10/29/2025	302	50	0.1154	35
2514249	92056	MB	P	1 1/4"	599	Less than or equal to 60	1	B	S	8/8/2025	8/8/2025	220	1	0.1154	25
2514413	92113	MB	PC	2"	887	Less than or equal to 60	2	B	M	9/12/2025	9/16/2025	5	5	0.1154	1
2506245	92105	MB	PC	2"	371	Less than or equal to 60	2	B	S	4/28/2025	5/22/2025	142	25	0.1154	16
250804	91911	DB	PC	3/4"	639	Less than or equal to 60	2	B	S	2/19/2025	3/12/2025	71	22	0.1154	8
2511992	92110	DB	PC	3/4"	1079	Less than or equal to 60	1	B	S	6/30/2025	6/30/2025	181	1	0.1154	21
2502184	92139	DB	PC	3/4"	947	Less than or equal to 60	2	B	S	1/28/2025	2/5/2025	36	9	0.1154	4
2502243	91950	DB	PC	3/4"	671	Less than or equal to 60	2	B	S	1/28/2025	2/10/2025	41	14	0.1154	5
2519693	92101	MB	PC	2"	1091	Less than or equal to 60	2	B	M	10/30/2025	11/4/2025	6	6	0.1154	1
2507895	92115	DB	PC	3/4"	899	Less than or equal to 60	2	B	S	4/24/2025	6/12/2025	163	51	0.1154	19
2506894	91942	DB	PC	3/4"	627	Less than or equal to 60	2	B	S	4/9/2025	5/29/2025	149	51	0.1154	17
2514597	92124	MB	P	1 1/4"	624	Less than or equal to 60	2	B	S	8/4/2025	9/4/2025	267	42	0.1154	31
2511022	92021	MB	PC	3/4"	56	Less than or equal to 60	2	B	S	10/23/2025	11/24/2025	328	33	0.1154	38
2507647	92117	DB	PC	3/4"	767	Less than or equal to 60	2	B	S	4/19/2025	4/23/2025	113	5	0.1154	13
2506379	92115	MB	PC	1 1/2"	983	Less than or equal to 60	2	B	S	4/30/2025	5/19/2025	139	20	0.1154	16
2511186	92103	DB	PC	3/4"	887	Less than or equal to 60	2	B	S	6/21/2025	7/10/2025	191	18	0.1154	22
2506216	91910	MB	PC	1 1/2"	911	Less than or equal to 60	2	B	M	3/27/2025	3/28/2025	2	2	0.1154	0
250947															

**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, 2026 June Report**  
**Appendix 4: Rev. 03/26/2026**

Notes:

Please show the calculation for determining the total emissions. If additional worksheets are necessary, please include those to show intermediate calculations, such as the formula for the Risk-Based Survey Method.

Definitions in Data Request R15-01-008, 2026 June Report

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

The number of miles surveyed (Column C) should be the number of unique miles surveyed, and should not include any repeated miles surveyed multiple times per year.

To clarify the definition of O&amp;M Leaks (Column O), the following criteria for O&amp;M Leaks should be met: (1) occur stochastically across the whole territory, (2) are reported by customers, (3) found quickly after occurring, (4) found independently of survey activities but would have been found later by surveyors, and (5) considered a small number of leaks.

To clarify the definition of Survey Leaks (Column C), the following criteria for Survey Leaks should be met: (1) found from company employees or contractors actively searching for leaks (2) including, but not limited to, compliance survey leaks and non-compliance survey leaks (e.g. Super Emitter Programs, Aerial Methane Mapping, Corrosion Surveying.)

**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 <sub>SA</sub> ]	Miles on Multi-Year Survey Cycles [M <sub>SL</sub> ]	Survey Interval (yrs) [I]	Miles Surveyed Annually from Multi-Year Survey Cycles [M <sub>SL</sub> ]	Total # of Leaks Detected from Survey [N <sub>SL</sub> ]	If using a 3-year trailing leak rate average then include - 2023 Annual Leak Rate [R <sub>SL</sub> ]	If using a 3-year trailing leak rate average then include - 2024 Annual Leak Rate [R <sub>SL</sub> ]	2025 Annual Leak Rate [R <sub>SL</sub> ]	$R_{SL} = \frac{N_{SL}}{M_{SA} + (I \times M_{SL})}$	If applicable, then calculate the 3-year Average Leak Rate [Leaks / Mile / Yr] $\bar{R}_3 = \frac{1}{3} \sum_{i=1}^3 R_{SL}$	# of Unknown Leaks $N_{SL,unk} = \bar{R}_3 \times (M_{SL}^{tot} - M_{SL}) \times \frac{I}{2}$	Total # of Leaks Detected from O&M* [N <sub>LO</sub> ]
Main/Vintage* Plastic	1,426	1,426	0	1	0	51	0.0312	0.0461		0.03576	0.03768	-	16
Main/Plastic	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Plastic	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Plastic	3,416	896	2,520	3	840	8	0.0015	0.0021		0.00234	0.00199	5.01	1
Main/Unprotected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Vintage* Protected Steel	437	437	0	1	0	43	0.0973	0.1119		0.09840	0.10252	-	10
Main/Protected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Protected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Main/Protected Steel	3,116	794	2,322	3	774	125	0.0241	0.0423		0.04012	0.03551	82.45	10
Main/Unknown	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Vintage* Plastic	1,187	1,187	0	1	0	37	0.0350	0.0305		0.03117	0.03222	-	9
Service/Plastic	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Plastic	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Plastic	3,219	678	2,541	3	847	11	0.0029	0.0061		0.00342	0.00414	10.51	3
Service/Unprotected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Vintage* Protected Steel	262	262	0	1	0	43	0.1769	0.1926		0.16412	0.17787	-	8
Service/Protected Steel	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Protected Steel	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Protected Steel	2,516	914	1,602	3	534	234	0.0585	0.0896		0.09302	0.08039	128.77	35
Service/Copper	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Copper	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Copper	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Unknown	NA	NA	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Service/Copper	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total</b>	<b>15,579</b>	<b>6,594</b>	<b>8,985</b>	<b>N/A</b>	<b>2,995</b>	<b>552</b>					<b>N/A</b>	<b>227</b>	<b>101</b>

\*Definitions for "vintage" materials:

Vintage Plastic

Vintage Protected Steel

Pipe installed before 1986 + "unknown" manufacture PE pipe

Pipe installed before 1950

**Estimated Emissions by Pipeline Facility/Material for Each Leakage Category**

Leakage Category	Emission Factor (Mscf/day/leak)	2025 Emissions from Leaks detected Prior to 2025 (Mscf)	2025 Emissions from Leaks Detected from 2025 Survey (Mscf)	2025 Emissions from O&M* Leaks Detected in 2025 (Mscf)	2025 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2025 Emissions from Distribution Pipelines (Mscf)
Facility/Material						
Main/Vintage* Plastic	0.1154	0	1,245	6	0	1,251
Main/Plastic	0.1154	NA	NA	NA	NA	NA
Main/Plastic	0.1154	NA	NA	NA	NA	NA
Main/Plastic	0.1154	0	195	4	211	410
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Main/Vintage* Protected Steel	0.1154	0	762	5	0	767
Main/Protected Steel	0.1154	0	2,212	23	3,472	5,707
Main/Protected Steel	0.1154	NA	NA	NA	NA	NA
Main/Protected Steel	0.1154	NA	NA	NA	NA	NA
Main/Unknown	0.1154	NA	NA	NA	NA	NA
Service/Vintage* Plastic	0.1154	0	809	2	0	812
Service/Plastic	0.1154	NA	NA	NA	NA	NA
Service/Plastic	0.1154	NA	NA	NA	NA	NA
Service/Plastic	0.1154	0	225	0	443	668
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.1154	NA	NA	NA	NA	NA
Service/Vintage* Protected Steel	0.1154	0	769	1	0	771
Service/Protected Steel	0.1154	NA	NA	NA	NA	NA
Service/Protected Steel	0.1154	NA	NA	NA	NA	NA
Service/Protected Steel	0.1154	0	4,321	80	5,423	9,824
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Copper	0.1154	NA	NA	NA	NA	NA
Service/Unknown	0.1154	NA	NA	NA	NA	NA
<b>Total</b>	<b>N/A</b>	<b>0</b>	<b>10,539</b>	<b>122</b>	<b>9,549</b>	<b>20,209</b>

O&amp;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).**

	2025 Emissions from Leaks detected Prior to 2025 (Mscf)	2025 Emissions from Leaks Detected from 2025 Survey (Mscf)	2025 Emissions from O&M* Leaks Detected in 2025 (Mscf)	2025 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2025 Emissions from Distribution Pipelines

<b>Large Leak Emitter Program</b>					
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					-
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

<b>Please Provide the following:</b>	<b>Total Count</b>
The portion of the survey mileage that includes mileage that is surveyed multiple times per year. Repeated mileage will not be accounted for in the unknown leak calculation.	0

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, 2026 June Report

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	Count of Leaks Carried over from Prior Year	Count of Leaks Discovered in the Year of Interest	Count of Leaks Repaired 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 (12/31/25)	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 [Mscf of Natural Gas]
Grade 1	-	158	158	1		-	-	2,033	NA	2,033
Grade 2	-	495	487	29		8	-	8,628	NA	8,628
Grade 3	-	-	-	-		-	-	-	NA	-
<b>Graded Leak Total</b>	-	653	645	30	-	8	-	10,661	-	10,661
Above Ground Hazardous	0	0	-	-	-	-	0	0	NA	
Above Ground Non-Hazardous	0	0	-	-	-	-	0	0	NA	
Above Ground Non-Hazardous Minor	0	0	-	-	-	-	0	0	NA	
AG Total	-	-	-	-	-	-	-	-	-	-
<b>Total of All Leaks</b>	-	653	645	30	-	8	-	10,661	-	10,661
Main/Plastic	0	9	9	18	5	0	0	199	211	410
Main/Vintage* Plastic	0	67	65	17	0	2	0	1,251	0	1,251
Main/Unprotected Steel	0	0	0	NA	0	0	NA	NA	NA	NA
Main/Protected Steel	0	144	144	26	82	0	0	2,235	3,472	5,707
Main Vintage Protected Steel	0	53	53	26	0	0	0	767	0	767
Main Unknown	0	0	0	NA	0	0	NA	NA	NA	NA
Service/Plastic	0	14	14	15	11	0	0	225	443	668
Service/Vintage* Plastic	0	46	44	13	0	2	0	812	0	812
Service/Unprotected Steel	0	0	0	NA	0	0	NA	NA	NA	NA
Service Vintage Protected Steel	0	51	50	18	0	1	0	771	0	771
Service/Protected Steel	0	269	266	25	129	3	0	4,401	5,423	9,824
Service Unknown	0	0	0	NA	0	0	NA	NA	NA	NA
Service/Copper	0	0	0	NA	0	0	NA	NA	NA	NA
<b>Total</b>	0	653	645	158	227	8	0	10,661	9,549	20,209

[illegible]

**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, Lenn.**  
**In Response to Data Request, R15-01-008, 2026 June Report**  
**Appendix 4: Rev. 03/26/2026**

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.

**Distribution Main & Service Pipeline Damage (3rd party dig-ins, natural disasters, etc.)**

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (Inches)	Pipe Age (Years)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YYYY)	Repair Date (MM/DD/YYYY)	Number of Days Leaking	Emission Factor or Engineering Estimate (lb/ft³/Day)	Annual Emissions (lb/yr)	Explanatory Notes / Comments
250007 92104	O	DR	PC	3/4"	35	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	21.21	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.	
250048 92058	E	MR	P	3"	299	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	98.10	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.	
250048 92102	E	DR	P	1/2" CTS	479	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.	
250012 91111	O	DR	P	1/2" CTS	49	less than or equal to 60	2	8	6	1/3/2025	1/3/2025	6	0.089	21.21 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.	
250033 92129	E	DR	P	1"	48	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	1	5.52	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250048 92028	E	DR	P	1/2" IPS	395	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250074 93155	E	MR	P	2"	89	less than or equal to 60	1	1	1	1/1/2025	1/1/2025	1	1	68.06	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250073 92021	N	MR	P	2"	25	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250088 92148	E	DR	P	1/2" CTS	487	less than or equal to 60	1	1	1	1/13/2025	1/13/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250081 92056	E	DR	P	1"	42	less than or equal to 60	1	1	1	1/9/2025	1/9/2025	1	1	6.35	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250083 92126	E	DR	P	1"	37	less than or equal to 60	1	1	1	1/13/2025	1/13/2025	1	1	8.59	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250087 92054	E	DR	P	1/2" CTS	563	less than or equal to 60	1	1	1	1/9/2025	1/9/2025	1	1	9.95	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250090 91913	E	DR	P	1/2" IPS	481	less than or equal to 60	1	1	1	1/13/2025	1/13/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250120 91913	E	DR	P	1/2" IPS	189	less than or equal to 60	1	1	1	1/16/2025	1/16/2025	1	1	4.56	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250144 92054	E	DR	P	1/2" CTS	503	less than or equal to 60	1	1	1	1/1/2025	1/1/2025	1	1	14.99	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250140 92122	E	DR	PC	3/4"	791	less than or equal to 60	1	1	1	1/12/2025	1/12/2025	1	1	21.21	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250140 92021	E	DR	P	1/2" CTS	481	less than or equal to 60	1	1	1	1/1/2025	1/1/2025	1	1	8.84	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250139 92057	E	DR	P	1/2" CTS	563	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	1	6.77	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250209 92129	N	DR	P	1/2" CTS	611	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250218 92007	E	MR	PC	1"	181	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	1	31.01	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250220 92021	E	DR	P	1/2" IPS	609	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	1	4.84	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250236 92116	E	DR	P	1/2" CTS	813	less than or equal to 60	1	1	1	1/2/2025	1/2/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250241 91935	E	DR	P	1"	419	less than or equal to 60	1	1	1	1/3/2025	1/3/2025	1	1	34.37	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250292 92101	E	DR	P	1/2" IPS	221	less than or equal to 60	1	1	1	1/4/2025	1/4/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250296 92107	E	MR	P	1/2" IPS	441	less than or equal to 60	1	1	1	1/4/2025	1/4/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250291 91913	E	MR	P	2"	17	less than or equal to 60	1	1	1	1/4/2025	1/4/2025	1	1	40.37	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250741 91910	E	DR	P	1/2" CTS	551	less than or equal to 60	1	1	1	1/1/2025	1/1/2025	1	1	6.08	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250167 92071	E	DR	P	1/2" CTS	647	less than or equal to 60	1	1	1	1/5/2025	1/5/2025	1	1	8.98	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250137 92107	E	DR	P	1"	31	less than or equal to 60	1	1	1	1/6/2025	1/6/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250423 92001	E	DR	PC	3/4"	755	less than or equal to 60	1	1	1	2/1/2025	2/1/2025	1	1	7.29	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250519 92008	E	DR	P	1/2" CTS	647	less than or equal to 60	1	1	1	2/3/2025	2/3/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250129 92127	N	DR	P	1"	11	less than or equal to 60	1	1	1	2/8/2025	2/8/2025	1	1	1.54	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250614 92114	E	DR	P	1"	47	less than or equal to 60	1	1	1	2/8/2025	2/8/2025	1	1	1.69	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250688 92113	E	DR	P	1"	10	less than or equal to 60	1	1	1	2/8/2025	2/8/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250693 92107	E	DR	P	1/2" CTS	28	less than or equal to 60	1	1	1	2/8/2025	2/8/2025	1	1	6.08	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250983 92129	E	MR	P	2"	20	less than or equal to 60	1	1	1	2/8/2025	2/8/2025	1	1	4.58	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250600 92009	E	DR	P	1/2" CTS	635	less than or equal to 60	1	1	1	3/19/2025	3/19/2025	1	1	8.17	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250557 92009	E	DR	P	1/2" IPS	575	less than or equal to 60	1	1	1	3/1/2025	3/1/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250636 92114	E	DR	P	1/2" CTS	563	less than or equal to 60	1	1	1	3/20/2025	3/20/2025	1	1	9.39	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250424 91917	E	DR	P	1/2" CTS	468	less than or equal to 60	1	1	1	3/22/2025	3/22/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250799 92037	O	DR	P	1 1/4"	611	less than or equal to 60	1	1	1	3/12/2025	3/12/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250837 91910	E	DR	PC	3/4"	779	less than or equal to 60	1	1	1	3/2/2025	3/2/2025	1	1	30.14	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250666 92113	E	DR	P	1/2" CTS	10	less than or equal to 60	1	1	1	3/2/2025	3/2/2025	1	1	2.85	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250705 92024	E	DR	P	1/2" IPS	635	less than or equal to 60	1	1	1	3/5/2025	3/5/2025	1	1	9.53	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250809 91917	E	DR	P	1"	77	less than or equal to 60	1	1	1	3/8/2025	3/8/2025	1	1	11.13	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250877 92024	E	DR	P	1 1/4"	164	less than or equal to 60	1	1	1	3/7/2025	3/7/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250895 92111	E	DR	P	1/2" IPS	30	less than or equal to 60	1	1	1	3/8/2025	3/8/2025	1	1	44.40	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250984 92056	E	DR	P	1/2" CTS	623	less than or equal to 60	1	1	1	4/3/2025	4/3/2025	1	1	1.59	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250704 92027	E	DR	P	1/2" IPS	355	less than or equal to 60	1	1	1	4/9/2025	4/9/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250748 92113	E	DR	P	1/2" IPS	479	less than or equal to 60	1	1	1	4/9/2025	4/9/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250532 91910	O	MR	P	2"	635	less than or equal to 60	2	8	32	3/9/2025	3/9/2025	32	0.288	9.56	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250765 92084	E	DR	P	1/2" CTS	527	less than or equal to 60	1	1	1	4/8/2025	4/8/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250746 92116	E	DR	P	1/2" CTS	411	less than or equal to 60	1	1	1	4/12/2025	4/12/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250733 92129	E	DR	P	1"	12	less than or equal to 60	1	1	1	4/12/2025	4/12/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250788 92131	E	DR	P	1"	10	less than or equal to 60	1	1	1	4/15/2025	4/15/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250841 92117	E	DR	PC	3/4"	827	less than or equal to 60	1	1	1	4/6/2025	4/6/2025	1	1	21.21	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250837 92026	E	MR	P	1"	40	less than or equal to 60	1	1	1	4/8/2025	4/8/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250833 92126	E	DR	P	1/2" CTS	30	less than or equal to 60	1	1	1	4/8/2025	4/8/2025	1	1	4.70	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250841 92024	E	DR	P	1/2" CTS	80	less than or equal to 60	1	1	1	4/8/2025	4/8/2025	1	1	3.18	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250794 92114	E	DR	P	1/2" IPS	587	less than or equal to 60	1	1	1	4/23/2025	4/23/2025	1	1	18.80	Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250748 92026	E	DR	P	1/2" IPS	209	less than or equal to 60	1	1	1	4/3/2025	4/3/2025	1	1	11.95	18.80 Emission estimated from population of similar events. See Explanatory Note/Comments for Distribution Pipeline All Damages in Appendix 9.
250857 92131															

[illegible]

Sum Total	6,510
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**SDG&E, June 15th, 2026**  
**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 2026 June Report**

**Appendix 4; Rev. 03/26/2026**

**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.

**Distribution Main & Service Pipeline Blowdowns:**

ID	Geographic Location	Number of Blowdown Events	Pipe Size (nominal) (inches)	Length of Pipe (feet)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	SDG&E Territory	242		N/A	N/A	N/A	0.65 Distribution Odor Intensity Tests
N/A	SDG&E Territory	2		4	12	320	0.03 ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	10		6	76	320	0.38 ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	1		8	13	320	0.11 ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	9		16	467	320	14.41 ABANDONED HP MAIN PIPE
N/A	SDG&E Territory	2		1	5	55	0.00 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	15		1	87	55	0.00 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	2		1	144	55	0.01 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	138		2	2,281	55	0.15 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	169		2	1,698	55	0.19 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	10		3	42	55	0.01 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	25		4	209	55	0.09 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	10		6	87	55	0.09 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	47		1	1,777	55	0.08 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	224		2	33,079	55	3.18 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	33		3	2,886	55	0.62 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	18		4	93	55	0.03 ABANDONED MP MAIN PIPE
N/A	SDG&E Territory	1638		1	21,299	55	0.32 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	72		1	1,534	55	0.04 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	11		1	22	55	0.00 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	33		2	382	55	0.03 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	8		2	74	55	0.01 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	965		1	30,753	55	0.15 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	206		1	2,710	55	0.08 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	88		1	3,027	55	0.14 ABANDONED MP SERVICE PIPE
N/A	SDG&E Territory	25		2	1,107	55	0.11 ABANDONED MP SERVICE PIPE
BD-25-26	SDG&E Territory	4		18	26	400	1.44 Distribution Blowdown
BD-25-27	SDG&E Territory	3		18	26	320	0.84 Distribution Blowdown
BD-25-25	SDG&E Territory	1		18	26	320	0.07 Distribution Blowdown
BD-25-28	SDG&E Territory	1		20	7,762	400	10.82 Distribution Blowdown
BD-25-29	SDG&E Territory	1		16	1,637	400	1.99 Distribution Blowdown
BD-25-30	SDG&E Territory	1		16	3,960	400	1.02 Distribution Blowdown
BD-25-31	SDG&E Territory	1		20	6,336	302	6.29 Distribution Blowdown
BD-25-32	SDG&E Territory	1		20	19,906	302	16.32 Distribution Blowdown
BD-25-33	SDG&E Territory	1		16	13,200	375	4.11 Distribution Blowdown
BD-25-34	SDG&E Territory	1		20	7,392	305	5.00 Distribution Blowdown
BD-25-35	SDG&E Territory	1		20	2,112	400	0.43 Distribution Blowdown
BD-25-36	SDG&E Territory	1		16	15,840	320	15.28 Distribution Blowdown

<b>Sum Total</b>	<b>84</b>
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SDG&E, June 15th, 2026

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 2026 June Report  
Appendix 4; Rev. 03/26/2026

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
Sum Total					0	

## SDG&amp;E, June 15th, 2026

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 2026 June Report  
Appendix 4; Rev. 03/26/2026**

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

**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	0	

Appendix 4; Rev. 03/26/2026

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Pipeline Leaks	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Pipe Classification</b>	MA = distribution main, above ground MB = distribution main, below ground DA = distribution service, above ground DB = distribution service, below ground
<b>Pipe Material</b>	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
<b>Pipe Size (nominal)</b>	
<b>Pipe Age (months)</b>	
<b>Pressure (psi)</b>	MOP = maximum operating pressure over the past year
<b>Leak Grade</b>	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
<b>Upgraded Leak Grade or Downgraded Leak Grade</b>	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.
<b>Above Ground or Below Ground</b>	A = Above Ground B = below ground

<b>Leak Discovery Method</b>	<p>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.)</p> <p>M = O&amp;M (E.G. O&amp;M Activities, Third party reports, customer odor reports etc.)</p> <p>O = Other (This will be grouped with M in the summary categorization of leaks.)</p>
<b>Discovery Date (MM/DD/YY)</b>	
<b>Re-Grade Date (MM/DD/YY)</b>	
<b>Repair Date (MM/DD/YY)</b>	Date that the pipeline repair stopped the leak. Any associated blowdowns resulting from the repair should be included in the blowdowns tab.
<b>Scheduled Repair Date (MM/DD/YY)</b>	<p>If leak is open, specify the scheduled date of repair;</p> <p>Otherwise type "M," signifying that the leak is being monitored with no scheduled date of repair;</p> <p>Then, provide the reason for not scheduling a repair in Column P.</p>
<b>Reason for Not Scheduling a Repair</b>	If Repair Date is blank, and Scheduled Repair Date (Column O) = "M", then provide the reason for not scheduling a repair.
<b>Number of Days Leaking</b>	<p>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.)</p> <p>(For days leaking for leaks carried over use January 1st as start date for emissions calculations.)</p> <p>For O&amp;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.</p>
<b>Number of Days to Repair</b>	<p>Use only Repair-Discovery +1. Do not use January 1st for time to repair.</p> <p>For regraded leaks, use Repair Date - Regrade Date +1.</p>
<b>Emission Factor (Mscf/Day)</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Unknown Leaks</b>	
<b>Facility/Material</b>	
<b>Total System Miles per material type</b>	
<b>Miles on Annual Survey [<math>M_{X,A}</math>]</b>	

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 $[N_{X,L}]$	
If using a 3-year trailing leak rate average then include - 2019 Annual Leak Rate  $[R_{X,1}]$	
If using a 3-year trailing leak rate average then include - 2020 Annual Leak Rate  $[R_{X,2}]$	
2022 Annual Leak Rate $[R_{X,3}]$	$R_{X,3} = \frac{N_{X,L}}{M_{X,A} + (I \times M_{X,I})}$
If applicable, then calculate the 3-year Average Leak Rate [Leaks / Mile / Yr]	$\overline{R_X} = \frac{1}{3} \sum_{i=1}^3 R_{X,i}$
# of Unknown Leaks	$N_{X,unk} = \overline{R_X} \times (M_X^{Tot} - M_{X,I}) \times \frac{I}{2}$
Total # of Leaks Detected from O&M* $[N_{X,O}]$	
<b>Pipeline Leaks Summary</b>	
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	

<b>Average Days to Repair Leaks</b>	The average days to repair leaks should be baase 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.
<b>Count of Estimated Unsurveyed Leaks in the Year of Interest</b>	For leaks identified in Unsurveyed 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 unsurveyed leak count.  If the unsurveyed 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 unsurveyed leaks.
<b>Count of Remaining Leaks at final day of the Year of Interest (12/31/xx)</b>	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.
<b>Emissions from Leaks Carried over from Prior Year.</b>	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.
<b>Emissions from Leaks Discovered in the Year of Interest.</b>	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.
<b>Emissions from Estimated Unsurveyed Leaks in the Year of Interest</b>	The emissions by grade would be on the same basis that used to extrapolate the count of leaks in the unsurveyed areas. For example: For leaks identified in Unsurveyed 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 unsurveyed leak count.  If the unsurveyed leak count was based on the current year leaks detected then use the current proportion of graded leaks applied to the unsurveyed leak emissions.
<b>Total Emissions in the Year of Interest [Mscf of Natural Gas]</b>	
<b>All Damages</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent
<b>Damage Type</b>	E = excavation damage N = natural force damage O = other outside force damage
<b>Pipe Classification</b>	MA = distriibution main, above ground MB = distriibution main, below ground DA = distribution service, above ground DB = distribution service, below ground

<b>Pipe Material</b>	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 = unptotected steel, coated
<b>Pipe Size (nominal)</b>	
<b>Pipe Age (months)</b>	
<b>Pressure (psi)</b>	MOP = maximum operating pressure over the past year
<b>Leak Grade</b>	1 = grade 1 2 = grade 2 2+ = grade 2+ 3 = grade 3 N = Non-Graded
<b>Above Ground or Below Ground</b>	AH = above ground, hazardous AN = above ground, non-hazardous B = below ground
<b>Discovery Date (MM/DD/YY)</b>	
<b>Repair Date (MM/DD/YY)</b>	
<b>Number of Days Leaking</b>	<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>
<b>Emission Factor or Engineering Estimate (Mscf/Day)</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Blowdowns</b>	
<b>ID</b>	
<b>Geographic Location</b>	GIS, zip code, or equivalent



<b>Number of Blowdown Events</b>	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.
<b>Pipe Size (nominal)</b>	
<b>Length of Pipe</b>	
<b>Pressure (psi)</b>	MOP = maximum operating pressure over the past year
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Component Vented Emissions</b>	
<b>Total Number of Devices</b>	
<b>Device Type</b>	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Engineering or Manufacturer's based Estimate of Emissions</b>	
<b>Annual Emissions (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	
<b>Component Fugitive Leaks</b>	
<b>Total Number of Devices</b>	
<b>Device Type</b>	P = pneumatic device H = hydraulic valve operator T = turbine valve operator PR = pressure relief valve O = other devices
<b>Bleed Rate</b>	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
<b>Manufacturer</b>	
<b>Discovery Date (MM/DD/YY)</b>	List the actual discovery date.  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.

<b>Repair Date (MM/DD/YY)</b>	Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.
<b>Number of Days Leaking</b>	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 <u>thru</u> repair date or December 31st of subject year, whichever is earlier.
<b>Emission Factor (Mscf/day)</b>	
<b>Annual Emission (Mscf)</b>	
<b>Explanatory Notes / Comments</b>	