SDG&E

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.
and In Response to Data Request SDG&E R15-01-008 2017 June Report
Issued: May 16, 2017
Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):
Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**

The following questions in the above mentioned data requests are answered using the spreadsheets in this Appendix (#4):
(2) A List of new graded gas leaks discovered, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, by grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered and annual volume of gas leaked for each, by month, from January 1st through December 31st of the previous calendar year.
(3) List of graded gas leaks repaired, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, date of repair, annual volume of gas leaked for each and the number of days from the time the leak was discovered until the date of repair.
(4) List of ALL open graded leaks, regardless of when they were found, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, that are being monitored or are scheduled to be repaired, by month, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, scheduled date of repair, and annual volume of methane leake

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.
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."

Response:

Sum Total Emissions from leaks carried over from before 2016	45
Sum Total Emissions from Survey Leaks discovered in 2016	7,152
Sum Total Emissions from O&M Leaks discovered in 2016	6
Grand Total of all 2016 emissions from leaks	7,203

Distribution Main & Service Pipeline Leaks:

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1600017	91977	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	1/2/2016	1/3/2016			3	0.0276	0.0828		2
1600021	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/3/2016	1/4/2016			4	0.0276	0.1104		2
1600162	92083	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/4/2016	1/4/2016			4	0.0276	0.1104		1
1600158	92083	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/4/2016	1/4/2016			4	0.0276	0.1104		1
1600172	92057	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/5/2016	1/6/2016			6	0.2988	1.7928		2
1600323	92115	MB	PC	1 1/2"	756	Less than or equal to 60	Code 1	B	S	1/6/2016	1/6/2016			6	0.0612	0.3672		1
1600316	92091	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/6/2016	1/6/2016			6	0.0089	0.0534		1
1600305	91910	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	1/6/2016	1/6/2016			6	0.0276	0.1656		1
1600235	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/6/2016	1/6/2016			6	0.0276	0.1656		1
1600317	92139	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/6/2016	1/7/2016			7	0.2988	2.0916		2
1600420	91950	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/7/2016	1/7/2016			7	0.0089	0.0623		1
1600404	92128	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/7/2016	1/7/2016			7	0.0089	0.0623		1
1600399	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/7/2016	1/7/2016			7	0.0276	0.1932		1
1600410	92021	MB	P	3"		Less than or equal to 60	Code 1	B	S	1/7/2016	1/8/2016			8	0.2988	2.3904		2
1600515	92111	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.0276	0.2208		1
1600511	91902	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.0276	0.2208		1
1600505	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.0276	0.2208		1
1600479	92021	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.0089	0.0712		1
1600470	92124	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.2988	2.3904		1
1600426	92064	MB	P	3"	516	Less than or equal to 60	Code 1	B	S	1/8/2016	1/8/2016			8	0.2988	2.3904		1
1600516	92064	MB	P	2"	536	Less than or equal to 60	Code 1	B	S	1/8/2016	1/9/2016			9	0.2988	2.6892		2
1600509	92069	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/8/2016	1/9/2016			9	0.0276	0.2484		2
1600870	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/9/2016	1/9/2016			9	0.0276	0.2484		1
1600542	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/9/2016	1/9/2016			9	0.0276	0.2484		1
1600715	92105	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/10/2016	1/10/2016			10	0.0089	0.0890		1
1600616	92154	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	1/10/2016	1/10/2016			10	0.0089	0.0890		1
1600851	92105	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	1/10/2016	1/11/2016			11	0.0612	0.6732		2
1600771	92129	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/10/2016	1/11/2016			11	0.2988	3.2868		2
1600558	92029	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/10/2016	1/11/2016			11	0.0089	0.0979		2
1600757	92103	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/11/2016	1/11/2016			11	0.0276	0.3036		1
1600716	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/11/2016	1/11/2016			11	0.0276	0.3036		1
1600661	92102	MB	P	3"		Less than or equal to 60	Code 1	B	S	1/11/2016	1/11/2016			11	0.2988	3.2868		1
1600647	92014	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/11/2016	1/11/2016			11	0.2988	3.2868		1
1600632	92103	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	1/11/2016	1/12/2016			12	0.0089	0.1068		2
1600887	92131	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/12/2016	1/12/2016			12	0.0089	0.1068		1
1600796	92037	MB	PC	2"	540	Less than or equal to 60	Code 1	B	S	1/12/2016	1/12/2016			12	0.0612	0.7344		1
1600894	92154	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/12/2016	1/13/2016			13	0.0089	0.1157		2
1601009	92106	MB	PC	1 1/2"	1020	Less than or equal to 60	Code 1	B	S	1/13/2016	1/13/2016			13	0.0612	0.7956		1
1600932	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/13/2016	1/13/2016			13	0.0276	0.3588		1
1600927	92027	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	1/13/2016	1/13/2016			13	0.2988	3.8844		1
1601010	92102	MB	P	2"	336	Less than or equal to 60	Code 1	B	S	1/13/2016	1/14/2016			14	0.2988	4.1832		2
1601136	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/14/2016	1/14/2016			14	0.0276	0.3864		1
1601120	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/14/2016	1/14/2016			14	0.0276	0.3864		1
1601063	92123	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/14/2016	1/14/2016			14	0.0276	0.3864		1
1601013	92129	MB	P	2"	456	Less than or equal to 60	Code 1	B	S	1/14/2016	1/14/2016			14	0.2988	4.1832		1
1601012	92056	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	1/14/2016	1/14/2016			14	0.2988	4.1832		1
1601139	92136	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/14/2016	1/15/2016			15	0.2988	4.4820		2
1601257	92007	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/15/2016	1/15/2016			15	0.0276	0.4140		1
1601208	92128	MB	P	2"	348	Less than or equal to 60	Code 1	B	S	1/15/2016	1/15/2016			15	0.2988	4.4820		1
1601200	92054	MB	P	2"	386	Less than or equal to 60	Code 1	B	S	1/15/2016	1/15/2016			15	0.2988	4.4820		1
1601146	92007	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/15/2016	1/15/2016			15	0.2988	4.4820		1
1601144	92024	DB	P	1 1/4"		Less than or equal to 60	Code 2	B	S	1/15/2016	1/15/2016			15	0.0089	0.1335		1
1601264	92123	DB	PC	1"		Less than or equal to 60	Code 1	B	S	1/15/2016	1/16/2016			16	0.0276	0.4416		2
1601288	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/16/2016	1/16/2016			16	0.0276	0.4416		1
1601281	91942	MB	PC	1 1/2"	828	Less than or equal to 60	Code 1	B	S	1/16/2016	1/16/2016			16	0.0612	0.9792		1
1601277	92037	MB	PC	4"	396	Less than or equal to 60	Code 1	B	S	1/16/2016	1/16/2016			16	0.0612	0.9792		1
1601293	91941	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/17/2016	1/17/2016			17	0.0276	0.4692		1
1601290	92064	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	1/17/2016	1/17/2016			17	0.0089	0.1513		1
1601304	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/18/2016	1/18/2016			18	0.0276	0.4968		1
1528540	92037	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	12/22/2015	1/19/2016			19	0.0276	0.5244		29
1526124	92020	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	11/11/2015	1/19/2016			19	0.0276	0.5244		70
1601446	92020	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/19/2016	1/19/2016			19	0.0276	0.5244		1
1601355	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/19/2016	1/19/2016			19	0.0276	0.5244		1
1524330	92114	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	10/14/2015	1/20/2016			20	0.0276	0.5520		99
1601442	92117	DB	P	1"		Less than or equal to 60	Code 1	B	S	1/19/2016	1/20/2016			20	0.0089	0.1780		2
1601543	92154	MB	P	3"		Less than or equal to 60	Code 1	B	S	1/20/2016	1/20/2016			20	0.2988	5.9760		1
1519946	92154	MB	PC	2"		Less than or equal to 60	Code 2	B	S	8/17/2015	1/21/2016			21	0.0612	1.2852		158
1600020	92037	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	1/3/2016	1/21/2016			21	0.0276	0.5796		19
1601449	91942	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/20/2016	1/21/2016			21	0.0276	0.5796		2
1601656	92113	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/21/2016	1/21/2016			21	0.0276	0.5796		1
1601565	92020	MB	P	3"		Less than or equal to 60	Code 1	B	S	1/21/2016	1/22/2016			22	0.2988	6.5736		2
1601836	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/22/2016	1/22/2016			22	0.0276	0.6072		1
1601821	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/24/2016	1/24/2016			24	0.0276	0.6624		1
1520025	92007	MB	PC	2"	727	Less than or equal to 60	Code 2	B	S	8/18/2015	1/25/2016			25	0.0612	1.5300		161
1601948	92101	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/25/2016	1/25/2016			25	0.0089	0.2225		1
1519903	92075	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/17/2015	1/26/2016			26	0.0276	0.7176		163
1601985	92104	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/25/2016	1/26/2016			26	0.2988	7.7688		2
1602114	92084	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/26/2016	1/26/2016			26	0.0276	0.7176		1
1602062	91950	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/26/2016	1/27/2016			27	0.0276	0.7452		2
1602164	92113	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/27/2016	1/27/2016			27	0.0089	0.2403		1

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1602116	92071	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	1/27/2016	1/27/2016			27	0.0089	0.2403		1
1602367	92083	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	1/28/2016	1/28/2016			28	0.0276	0.7728		1
1602313	91932	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	1/28/2016	1/28/2016			28	0.0612	1.7136		1
1602211	92115	MB	PC	1 1/2"	864	Less than or equal to 60	Code 1	B	S	1/28/2016	1/28/2016			28	0.0612	1.7136		1
1523409	92064	MB	P	2"		Less than or equal to 60	Code 2	B	S	10/1/2015	1/29/2016			29	0.2988	8.6652		121
1602456	92083	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	1/29/2016	1/29/2016			29	0.0612	1.7748		1
1602484	91941	MB	PC	1 1/2"	924	Less than or equal to 60	Code 1	B	S	1/30/2016	1/30/2016			30	0.0612	1.8360		1
1602481	92154	MB	P	2"		Less than or equal to 60	Code 1	B	S	1/30/2016	1/30/2016			30	0.2988	8.9640		1
1602591	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/1/2016	2/1/2016			32	0.0276	0.8832		1
1602508	92118	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/1/2016	2/1/2016			32	0.0276	0.8832		1
1602613	92009	MB	P	1 1/4"	481	Less than or equal to 60	Code 1	B	S	2/1/2016	2/2/2016			33	0.2988	9.8604		2
1602505	92008	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/1/2016	2/2/2016			33	0.0276	0.9108		2
1602736	92130	DB	P			Less than or equal to 60	Code 2	B	S	2/2/2016	2/2/2016			33	0.0089	0.2937		1
1602872	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/3/2016	2/3/2016			34	0.0276	0.9384		1
1602871	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/3/2016	2/3/2016			34	0.0276	0.9384		1
1488529	92103	MB	PC	2"	599	Less than or equal to 60	Code 3	B	S	12/22/2014	2/4/2016			35	0.0612	2.1420		410
1603036	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/5/2016	2/5/2016			36	0.0276	0.9936		1
1603011	92037	MB	PC	2"		Greater than 60	Code 1	B	S	2/5/2016	2/5/2016			36	0.0612	2.2032		1
1603005	92037	MB	PC	2"		Less than or equal to 60	Code 1	B	S	2/5/2016	2/5/2016			36	0.0612	2.2032		1
1603146	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/6/2016	2/6/2016			37	0.0276	1.0212		1
1603136	92007	DB	PC	1"		Less than or equal to 60	Code 1	B	S	2/7/2016	2/7/2016			38	0.0276	1.0488		1
1522656	92054	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	9/23/2015	2/8/2016			39	0.0276	1.0764		139
1603135	92071	MB	P	2"		Less than or equal to 60	Code 1	B	S	2/7/2016	2/8/2016			39	0.2988	11.6532		2
1603233	92101	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	2/8/2016	2/8/2016			39	0.0089	0.3471		1
1520043	92007	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/18/2015	2/9/2016			40	0.0276	1.1040		176
1603236	92021	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/8/2016	2/9/2016			40	0.0276	1.1040		2
1603417	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/9/2016	2/9/2016			40	0.0276	1.1040		1
1603352	92107	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/9/2016	2/9/2016			40	0.0276	1.1040		1
1603285	92020	MB	PC	2"	613	Less than or equal to 60	Code 1	B	S	2/9/2016	2/9/2016			40	0.0612	2.4480		1
1603261	92083	MB	PC	1 1/2"	757	Less than or equal to 60	Code 1	B	S	2/9/2016	2/9/2016			40	0.0612	2.4480		1
1603394	92021	MB	PC	4"	601	Less than or equal to 60	Code 1	B	S	2/9/2016	2/10/2016			41	0.0612	2.5092		2
1603872	92117	MB	PC	1 1/2"	757	Less than or equal to 60	Code 1	B	S	2/13/2016	2/13/2016			44	0.0612	2.6928		1
1603906	92104	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	2/16/2016	2/16/2016			47	0.0089	0.4183		1
1524923	92024	DB	P	1/2" IPS		Less than or equal to 60	Code 2	B	S	10/22/2015	2/17/2016			48	0.0089	0.4272		119
1602473	91942	MB	PC	1 1/2"	732	Less than or equal to 60	Code 2	B	S	1/29/2016	2/17/2016			48	0.0612	2.9376		20
1603993	92106	MB	PC	1 1/2"	1071	Greater than 60	Code 1	B	S	2/16/2016	2/17/2016			48	0.0612	2.9376		2
1519518	92105	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/11/2015	2/18/2016			49	0.0276	1.3524		192
1604200	91932	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/19/2016	2/19/2016			50	0.0276	1.3800		1
1604397	92105	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	2/22/2016	2/22/2016			53	0.0612	3.2436		1
1513215	92154	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	5/26/2015	2/23/2016			54	0.0276	1.4904		274
1601168	92122	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	1/15/2016	2/23/2016			54	0.0276	1.4904		40
1604466	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/22/2016	2/23/2016			54	0.0276	1.4904		2
1604525	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/23/2016	2/23/2016			54	0.0276	1.4904		1
1604608	91910	MB	PC	2"	649	Less than or equal to 60	Code 1	B	S	2/23/2016	2/24/2016			55	0.0612	3.3660		2
1604754	92122	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	2/24/2016	2/24/2016			55	0.0089	0.4895		1
1604619	92009	MB	P	2"	469	Less than or equal to 60	Code 1	B	S	2/24/2016	2/24/2016			55	0.2988	16.4340		1
1604862	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/25/2016	2/25/2016			56	0.0276	1.5456		1
1604765	92126	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	2/25/2016	2/25/2016			56	0.0089	0.4984		1
1604985	92014	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	2/27/2016	2/27/2016			58	0.0276	1.6008		1
1605259	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/1/2016	3/1/2016			61	0.0276	1.6836		1
1603988	92114	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/16/2016	3/2/2016			62	0.0276	1.7112		16
1605264	92083	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/2/2016	3/2/2016			62	0.0276	1.7112		1
1603519	92106	MB	PC	1"	908	Less than or equal to 60	Code 2	B	S	2/10/2016	3/3/2016			63	0.0612	3.8556		23
1605492	92101	DB	PC	2"		Less than or equal to 60	Code 1	B	S	3/4/2016	3/4/2016			64	0.0276	1.7664		1
1605479	92037	MB	PC	2"		Less than or equal to 60	Code 1	B	S	3/4/2016	3/4/2016			64	0.0612	3.9168		1
1605619	91941	MB	PC	2"	794	Less than or equal to 60	Code 1	B	S	3/7/2016	3/7/2016			67	0.0612	4.1004		1
1604867	92106	MB	PC	1 1/2"	733	Less than or equal to 60	Code 2	B	S	2/26/2016	3/8/2016			68	0.0612	4.1616		12
1605738	92024	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	3/8/2016	3/9/2016			69	0.0612	4.2228		2
1526531	92024	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	11/19/2015	3/10/2016			70	0.0276	1.9320		113
1605845	92103	MB	PC	1 1/2"	1030	Less than or equal to 60	Code 1	B	S	3/9/2016	3/10/2016			70	0.0612	4.2840		2
1605835	92105	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	3/9/2016	3/11/2016			71	0.0612	4.3452		3
1606045	92121	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/13/2016	3/13/2016			73	0.0276	2.0148		1
1606132	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/14/2016	3/14/2016			74	0.0276	2.0424		1
1606092	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/14/2016	3/14/2016			74	0.0276	2.0424		1
1518728	92075	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	7/31/2015	3/15/2016			75	0.0276	2.0700		229
1606140	92058	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	3/14/2016	3/15/2016			75	0.0089	0.6675		2
1606793	91942	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/15/2016	3/15/2016			75	0.0276	2.0700		1
1606262	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/16/2016	3/16/2016			76	0.0276	2.0976		1
1601065	91910	MB	PC	2"		Less than or equal to 60	Code 2	B	S	1/14/2016	3/18/2016			78	0.0612	4.7736		65
1606465	92107	DB	PC	1"		Less than or equal to 60	Code 1	B	S	3/17/2016	3/18/2016			78	0.0276	2.1528		2
1606562	92105	MB	PC	1 1/2"	794	Less than or equal to 60	Code 1	B	S	3/20/2016	3/20/2016			80	0.0612	4.8960		1
1527964	92115	MB	PC	1 1/2"	863	Less than or equal to 60	Code 2	B	S	12/14/2015	3/22/2016			82	0.0612	5.0184		100
1604493	92111	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/23/2016	3/22/2016			82	0.0276	2.2632		29
1606619	91902	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	3/21/2016	3/22/2016			82	0.0089	0.7298		2
1527723	92084	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	12/9/2015	3/23/2016			83	0.0089	0.7387		106
1525570	92102	MB	PC	6"	1067	Less than or equal to 60	Code 2	B	S	11/2/2015	3/23/2016			83	0.0612	5.0796		143
1606772	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/23/2016	3/23/2016			83	0.0276	2.2908		1
1528801	92025	DB	PB	3/4"		Less than or equal to 60	Code 2	B	S	12/30/2015	3/24/2016			84	0.0276	2.3184		86
1607068	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/25/2016	3/25/2016			85	0.0276	2.3460		1
1607067	92009	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	3/25/2016	3/25/2016			85	0.0089	0.7565		1
1607066	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/25/2016	3/25/2016			85	0.0276	2.3460		1
1607062	92007	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/25/2016	3/25/2016			85	0.0276	2.3460		1
1607069	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/26/2016	3/26/2016			86	0.0276	2.3736		1
1607078	92118	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	3/27/2016	3/27/2016			87	0.0089	0.7743		1
1607119	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/28/2016	3/28/2016			88	0.0276	2.4288		1
1603642	91911	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/11/2016	3/29/2016			89	0.0276	2.4564		48
1603912	92104	DB	P	1/2" IPS		Less than or equal to 60	Code 2	B	S	2/16/2016	3/29/2016			89	0.0089	0.7921		43
1607239	92054	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	3/29/2016	3/29/2016			89	0.0089	0.7921		1
1603646	91911	MB	PC	1 1/2"	649	Less than or equal to 60	Code 2	B	S	2/11/2016	3/30/2016			90	0.0612	5.5080		49
1607208	92118	MB	PC	1 1/2"	758	Less than or equal to 60	Code 2	B	S	3/29/2016	3/30/2016			90	0.0612	5.5080		2
1607426	92084	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/30/2016	3/30/2016			90	0.0276	2.4840		1
1607327	91950	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/30/2016	3/30/2016			90	0.0276	2.4840		1
1604544	91932	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/23/2016	3/31/2016			91	0.0276	2.5116		38
1607532	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	3/31/2016	3/31/2016			91	0.0276	2.5116		1
1607737	92103	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/4/2016	4/4/2016			95	0.0276	2.6220		1
1605391	92110	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	3/3/2016	4/5/2016			96	0.0276	2.6496		34
1607814	92019	MB	P	2"		Less than or equal to 60	Code 1	B	S	4/4/2016	4/5/2016			96	0.2988	28.6848		2
1607936	91950	DB	PC	3/4"		Greater than 60	Code 1	B	S	4/5/2016	4/5/2016			96	0.0276	2.6496		1
1607876	92121	MB	P	2"		Less than or equal to 60	Code 1	B	S	4/5/2016	4/5/2016			96	0.2988	28.6848		1
1606608	92114	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	3/21/2016	4/7/2016			98	0.0276	2.7048		18
1608189	92122	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/8/2016	4/8/2016			99	0.0276	2.7324		1
1608173	92021	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	4/8/2016	4/8/2016			99	0.0089	0.8811		1
1608196	92014	MB	PC	1 1/2"	531	Less than or equal to 60	Code 1	B	S	4/9/2016	4/9/2016			100	0.0612	6.1200		1
1608197	92105	MB	P	2"		Less than or equal to 60	Code 1	B	S	4/10/2016	4/10/2016			101	0.2988	30.1788		1
1606202	91950	MB	PC	3/4"		Less than or equal to 60	Code 2	B	S	3/15/2016	4/12/2016			103	0.0612	6.3036		29
1527517	92084	MB	PC	3"	695	Less than or equal to 60	Code 2	B	S	12/7/2015	4/18/2016			109	0.0612	6.6708		134
1609024	92009	DB	P			Less than or equal to 60	Code 3	B	S	4/20/2016	4/20/2016			111	0.0089	0.9879		1
1609081	92126	MB	P	3"		Less than or equal to 60	Code 1	B	S	4/20/2016	4/20/2016			111	0.2988	33.1668		1

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1609072	92107	MB	PC	2"		Less than or equal to 60	Code 1	B	S	4/20/2016	4/20/2016			111	0.0612	6.7932		1
1608993	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/20/2016	4/20/2016			111	0.0276	3.0636		1
1609133	92126	MB	P	3"		Less than or equal to 60	Code 1	B	S	4/21/2016	4/22/2016			113	0.2988	33.7644		2
1609416	92014	DB	P			Less than or equal to 60	Code 1	B	S	4/25/2016	4/25/2016			116	0.0089	1.0324		1
1609518	91910	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/26/2016	4/27/2016			118	0.0276	3.2568		2
1609622	91941	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	4/27/2016	4/27/2016			118	0.0276	3.2568		1
1609564	92103	MB	PC	2"		Less than or equal to 60	Code 1	B	S	4/27/2016	4/27/2016			118	0.0612	7.2216		1
1609718	91941	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	4/28/2016	4/29/2016			120	0.0612	7.3440		2
1604633	92105	MB	PC	1 1/2"		Less than or equal to 60	Code 2	B	S	2/24/2016	5/2/2016			123	0.0612	7.5276		69
1604629	92105	MB	PC	1 1/2"		Less than or equal to 60	Code 2	B	S	2/24/2016	5/2/2016			123	0.0612	7.5276		69
1607446	92113	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	3/31/2016	5/2/2016			123	0.0089	1.0947		33
1605306	91950	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	3/2/2016	5/3/2016			124	0.0276	3.4224		63
1608791	92117	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	4/18/2016	5/3/2016			124	0.0276	3.4224		16
1609990	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/3/2016	5/3/2016			124	0.0276	3.4224		1
1607111	92102	DB	PB	3/4"		Less than or equal to 60	Code 2	B	S	3/28/2016	5/4/2016			125	0.0276	3.4500		38
1610239	91950	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/5/2016	5/5/2016			126	0.0276	3.4776		1
1610264	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/6/2016	5/6/2016			127	0.0276	3.5052		1
1610454	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/9/2016	5/9/2016			130	0.0276	3.5880		1
1610641	92056	DB	P			Less than or equal to 60	Code 1	B	S	5/11/2016	5/11/2016			132	0.0089	1.1748		1
1610684	92110	MB	PC	1 1/2"	676	Less than or equal to 60	Code 1	B	S	5/12/2016	5/12/2016			133	0.0612	8.1396		1
1610675	91941	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/12/2016	5/12/2016			133	0.0276	3.6708		1
1610906	92056	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	5/14/2016	5/14/2016			135	0.0089	1.2015		1
1611023	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/16/2016	5/16/2016			137	0.0276	3.7812		1
1610981	92114	MB	PC	2"	688	Less than or equal to 60	Code 1	B	S	5/16/2016	5/16/2016			137	0.0612	8.3844		1
1611131	91950	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/17/2016	5/17/2016			138	0.0276	3.8088		1
1611086	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/17/2016	5/17/2016			138	0.0276	3.8088		1
1611191	91942	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/18/2016	5/18/2016			139	0.0276	3.8364		1
1611165	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/18/2016	5/18/2016			139	0.0276	3.8364		1
1606019	91950	MB	PC	1 1/2"	698	Less than or equal to 60	Code 2	B	S	3/11/2016	5/19/2016			140	0.0612	8.5680		70
1611344	92014	MB	P	2"	496	Less than or equal to 60	Code 1	B	S	5/19/2016	5/20/2016			141	0.2988	42.1308		2
1611539	92154	MB	P	2"		Less than or equal to 60	Code 1	B	S	5/23/2016	5/23/2016			144	0.2988	43.0272		1
1611540	92084	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/23/2016	5/24/2016			145	0.0276	4.0020		2
1611656	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/24/2016	5/24/2016			145	0.0276	4.0020		1
1611847	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/26/2016	5/26/2016			147	0.0276	4.0572		1
1611986	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/27/2016	5/27/2016			148	0.0276	4.0848		1
1611905	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/27/2016	5/27/2016			148	0.0276	4.0848		1
1612069	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	5/30/2016	5/30/2016			151	0.0276	4.1676		1
1612268	92103	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/1/2016	6/1/2016			153	0.0276	4.2228		1
1612253	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/1/2016	6/1/2016			153	0.0276	4.2228		1
1612232	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/1/2016	6/1/2016			153	0.0276	4.2228		1
1604971	92106	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	2/26/2016	6/2/2016			154	0.0276	4.2504		98
1612497	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/6/2016	6/6/2016			158	0.0276	4.3608		1
1610725	92107	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	5/12/2016	6/7/2016			159	0.0276	4.3884		27
1612480	92154	MB	PC	1 1/2"	773	Less than or equal to 60	Code 1	B	S	6/6/2016	6/7/2016			159	0.0612	9.7308		2
1612552	92009	DB	P			Less than or equal to 60	Code 1	B	S	6/7/2016	6/7/2016			159	0.0089	1.4151		1
1610820	92107	MB	PC	1 1/2"	664	Less than or equal to 60	Code 2	B	S	5/13/2016	6/9/2016			161	0.0612	9.8532		28
1612973	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/10/2016	6/10/2016			162	0.0276	4.4712		1
1612982	92110	MB	PC	1"	953	Less than or equal to 60	Code 1	B	S	6/11/2016	6/11/2016			163	0.0612	9.9756		1
1612983	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/11/2016	6/12/2016			164	0.0276	4.5264		2
1613003	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/12/2016	6/12/2016			164	0.0276	4.5264		1
1613210	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/14/2016	6/14/2016			166	0.0276	4.5816		1
1613343	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/16/2016	6/17/2016			169	0.0276	4.6644		2
1613468	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/17/2016	6/17/2016			169	0.0276	4.6644		1
1613881	92117	MB	PC	1 1/2"	689	Less than or equal to 60	Code 1	B	S	6/23/2016	6/23/2016			175	0.0612	10.7100		1
1614169	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/27/2016	6/27/2016			179	0.0276	4.9404		1
1614166	91977	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	6/27/2016	6/27/2016			179	0.0276	4.9404		1
1614197	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	6/28/2016	6/28/2016			180	0.0276	4.9680		1
1606540	92025	MB	PC	2"		Less than or equal to 60	Code 2	B	S	3/18/2016	6/29/2016			181	0.0612	11.0772		104
1614275	92110	DB	PC	3/4"		Greater than 60	Code 1	B	S	6/29/2016	6/29/2016			181	0.0276	4.9956		1
1611022	92110	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	5/16/2016	6/30/2016			182	0.0276	5.0232		46
1614468	92103	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/1/2016	7/1/2016			183	0.0276	5.0508		1
1614527	92020	MB	P	2"	462	Less than or equal to 60	Code 1	B	S	7/2/2016	7/2/2016			184	0.2988	54.9792		1
1612712	92037	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	5/11/2016	7/5/2016			187	0.0089	1.6643		56
1614692	91910	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/6/2016	7/6/2016			188	0.0276	5.1888		1
1614663	91950	DB	PB			Less than or equal to 60	Code 1	B	S	7/6/2016	7/6/2016			188	0.0276	5.1888		1
1614652	92123	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/6/2016	7/6/2016			188	0.0276	5.1888		1
1610639	92114	MB	PC	2"	820	Less than or equal to 60	Code 2	B	S	5/11/2016	7/7/2016			189	0.0612	11.5668		58
1614563	92109	DB	Unknown	3/4"		Less than or equal to 60	Code 2	B	S	7/5/2016	7/7/2016			189	0.0276	5.2164	Pipe Material of Unknov	3
1614776	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/7/2016	7/7/2016			189	0.0276	5.2164		1
1614790	92114	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/7/2016	7/8/2016			190	0.0276	5.2440		2
1615068	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/12/2016	7/12/2016			194	0.0276	5.3544		1
1613263	92109	MB	PC	1 1/2"	737	Less than or equal to 60	Code 2	B	S	6/15/2016	7/14/2016			196	0.0612	11.9952		30
1615260	92008	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/14/2016	7/14/2016			196	0.0276	5.4096		1
1615188	92121	DB	P	2"		Less than or equal to 60	Code 1	B	S	7/14/2016	7/14/2016			196	0.0089	1.7444		1
1615262	92117	MB	P	2"	54	Less than or equal to 60	Code 1	B	S	7/14/2016	7/15/2016			197	0.2988	58.8636		2
1615258	92117	MB	P	2"	54	Less than or equal to 60	Code 1	B	S	7/14/2016	7/15/2016			197	0.2988	58.8636		2
1615265	92117	MB	P	2"	54	Less than or equal to 60	Code 1	B	S	7/15/2016	7/15/2016			197	0.2988	58.8636		1
1613406	92117	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	6/16/2016	7/18/2016			200	0.0276	5.5200		33
1615700	92109	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	7/20/2016	7/20/2016			202	0.0089	1.7978		1
1612344	92110	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	6/2/2016	7/21/2016			203	0.0276	5.6028		50
1614009	92110	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	6/24/2016	7/21/2016			203	0.0276	5.6028		28
1615893	92103	MB	PC	2"	678	Less than or equal to 60	Code 1	B	S	7/22/2016	7/22/2016			204	0.0612	12.4848		1
1615885	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/22/2016	7/22/2016			204	0.0276	5.6304		1
1615841	92008	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/22/2016	7/22/2016			204	0.0276	5.6304		1
1615928	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/23/2016	7/24/2016			206	0.0276	5.6856		2
1615923	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/23/2016	7/24/2016			206	0.0276	5.6856		2
1615932	92173	MB	PC	4"	1026	Less than or equal to 60	Code 1	B	S	7/24/2016	7/24/2016			206	0.0612	12.6072		1
1617539	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/25/2016	7/26/2016			208	0.0276	5.7408		2
1616152	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/26/2016	7/27/2016			209	0.0276	5.7684		2
1616142	92110	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	7/26/2016	7/27/2016			209	0.0089	1.8601		2
1616199	92118	MB	P	2"	522	Less than or equal to 60	Code 1	B	S	7/27/2016	7/27/2016			209	0.2988	62.4492		1
1616158	92102	MB	PC	2"	774	Less than or equal to 60	Code 1	B	S	7/27/2016	7/27/2016			209	0.0612	12.7908		1
1616457	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	7/30/2016	7/30/2016			212	0.0276	5.8512		1
1616446	92009	MB	P	3"	498	Less than or equal to 60	Code 1	B	S	7/30/2016	7/30/2016			212	0.2988	63.3456		1
1616475	92114	MB	PC	1 1/2"	609	Less than or equal to 60	Code 1	B	S	8/1/2016	8/2/2016			215	0.0612	13.1580		2
1614691	91945	MB	P	2"	534	Less than or equal to 60	Code 2	B	S	7/6/2016	8/3/2016			216	0.2988	64.5408		29
1616915	92105	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/4/2016	8/5/2016			218	0.0276	6.0168		2
1616878	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/5/2016	8/5/2016			218	0.0276	6.0168		1
1616987	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/8/2016	8/9/2016			222	0.0276	6.1272		2
1616998	92009	MB	P	3"	499	Less than or equal to 60	Code 2	B	S	8/9/2016	8/9/2016			222	0.2988	66.3336		1
1616027	91932	MB	PC	1"	738	Less than or equal to 60	Code 2	B	S	7/25/2016	8/11/2016			224	0.0612	13.7088		18
1617122	91950	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/10/2016	8/11/2016			224	0.0276	6.1824		2
1617148	92107	MB	PC	2"	667	Less than or equal to 60	Code 1	B	S	8/11/2016	8/12/2016			225	0.0612	13.7700		2
1617335	92104	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/12/2016	8/12/2016			225	0.0276	6.2100		1
1617255	91977	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	8/12/2016	8/12/2016			225	0.0276	6.2100		1
1617254	92154	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	8/12/2016	8/12/2016			225	0.0089	2.0025		1
1617350	92117	MB	PC	1 1/2"	727	Less than or equal to 60	Code 1	B	S	8/12/2016	8/13/2016			226	0.0612	13.8312		2
1617470	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/16/2016	8/16/2016			229	0.0276	6.3204		1

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1617781	92084	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/18/2016	8/18/2016			231	0.0276	6.3756		1
1617777	92007	MB	PC	1"	847	Greater than 60	Code 1	B	S	8/18/2016	8/18/2016			231	0.0612	14.1372		1
1617894	92075	MB	PB	2"	715	Less than or equal to 60	Code 1	B	S	8/20/2016	8/21/2016			234	0.0612	14.3208		2
1617917	92008	DB	PC	3/8"		Less than or equal to 60	Code 1	B	S	8/21/2016	8/22/2016			235	0.0276	6.4860		2
1617912	92008	MB	PC	4"	379	Less than or equal to 60	Code 1	B	S	8/21/2016	8/22/2016			235	0.0612	14.3820		2
1617992	91977	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	8/22/2016	8/22/2016			235	0.0089	2.0915		1
1617918	91942	MB	PC	2"		Less than or equal to 60	Code 1	B	S	8/22/2016	8/22/2016			235	0.0612	14.3820		1
1618013	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/22/2016	8/23/2016			236	0.0276	6.5136		2
1618120	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/23/2016	8/23/2016			236	0.0276	6.5136		1
1618356	92107	MB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/22/2016	8/24/2016			237	0.0612	14.5044		3
1618982	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/23/2016	8/24/2016			237	0.0276	6.5412		2
1618219	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/23/2016	8/24/2016			237	0.0276	6.5412		2
1618448	91911	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	8/26/2016	8/26/2016			239	0.0089	2.1271		1
1618391	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/26/2016	8/26/2016			239	0.0276	6.5964		1
1618496	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/27/2016	8/27/2016			240	0.0276	6.6240		1
1618004	92075	MB	P	1 1/4"	487	Less than or equal to 60	Code 2	B	S	8/22/2016	8/29/2016			242	0.2988	72.3096		8
1618619	91932	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/29/2016	8/29/2016			242	0.0276	6.6792		1
1618623	92075	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/29/2016	8/30/2016			243	0.0276	6.7068		2
1618738	92113	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	8/30/2016	8/30/2016			243	0.0276	6.7068		1
1613294	92104	MB	P	2"	509	Less than or equal to 60	Code 2	B	S	6/15/2016	8/31/2016			244	0.2988	72.9072		78
1618803	92075	DB	PC	3/4"		Greater than 60	Code 1	B	S	8/31/2016	8/31/2016			244	0.0276	6.7344		1
1618934	91977	MB	PB	2"	536	Less than or equal to 60	Code 1	B	S	9/1/2016	9/1/2016			245	0.0612	14.9940		1
1619024	92139	MB	PC	2"	824	Less than or equal to 60	Code 1	B	S	9/5/2016	9/5/2016			249	0.0612	15.2388		1
1619103	91945	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	9/6/2016	9/6/2016			250	0.0276	6.9000		1
1619227	92120	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/7/2016	9/7/2016			251	0.0276	6.9276		1
1616815	92014	DB	PB	3/4"		Less than or equal to 60	Code 2	B	S	8/4/2016	9/8/2016			252	0.0276	6.9552		36
1619223	92110	MB	P	1 1/4"	452	Less than or equal to 60	Code 1	B	S	9/7/2016	9/8/2016			252	0.2988	75.2976		2
1619253	92056	MB	P	2"	536	Less than or equal to 60	Code 1	B	S	9/8/2016	9/8/2016			252	0.2988	75.2976		1
1619319	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/8/2016	9/9/2016			253	0.0276	6.9828		2
1619424	92024	MB	P	2"	512	Less than or equal to 60	Code 1	B	S	9/10/2016	9/11/2016			255	0.2988	76.1940		2
1619435	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/11/2016	9/11/2016			255	0.0276	7.0380		1
1619551	92102	MB	P	2"	488	Less than or equal to 60	Code 1	B	S	9/12/2016	9/12/2016			256	0.2988	76.4928		1
1619663	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/13/2016	9/13/2016			257	0.0276	7.0932		1
1607408	92101	MB	PC	6"	1063	Less than or equal to 60	Code 2	B	S	3/30/2016	9/14/2016			258	0.0612	15.7896		169
1619995	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/16/2016	9/16/2016			260	0.0276	7.1760		1
1619889	92028	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	9/16/2016	9/16/2016			260	0.0089	2.3140		1
1618745	92057	MB	P	1 1/4"	451	Less than or equal to 60	Code 2	B	S	8/31/2016	9/19/2016			263	0.2988	78.5844		20
1620132	92009	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	9/19/2016	9/20/2016			264	0.0089	2.3496		2
1620245	92113	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/20/2016	9/20/2016			264	0.0276	7.2864		1
1620134	92107	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	9/20/2016	9/20/2016			264	0.0089	2.3496		1
1620417	91911	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/22/2016	9/22/2016			266	0.0276	7.3416		1
1620533	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/24/2016	9/24/2016			268	0.0276	7.3968		1
1620523	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/24/2016	9/24/2016			268	0.0276	7.3968		1
1620508	92105	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	9/23/2016	9/26/2016			270	0.0276	7.4520		4
1620584	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/26/2016	9/26/2016			270	0.0276	7.4520		1
1620653	92124	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	9/26/2016	9/27/2016			271	0.0089	2.4119		2
1620652	92075	MB	PC	1 1/2"	776	Less than or equal to 60	Code 1	B	S	9/27/2016	9/27/2016			271	0.0612	16.5852		1
1620540	92126	MB	P	2"	416	Less than or equal to 60	Code 2	B	S	9/24/2016	9/28/2016			272	0.2988	81.2736		5
1620773	92131	MB	P	2"	440	Less than or equal to 60	Code 1	B	S	9/28/2016	9/28/2016			272	0.2988	81.2736		1
1621703	92064	DB	P	1 1/4"	452	Less than or equal to 60	Code 1	B	S	9/29/2016	9/29/2016			273	0.0089	2.4297		1
1621041	92064	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	9/29/2016	9/29/2016			273	0.0089	2.4297		1
1621070	92024	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	9/30/2016	9/30/2016			274	0.0276	7.5624		1
1621184	91950	MB	PC	3"	513	Less than or equal to 60	Code 1	B	S	10/3/2016	10/4/2016			278	0.0612	17.0136		2
1621293	92126	MB	P	1 1/4"	465	Less than or equal to 60	Code 1	B	S	10/4/2016	10/5/2016			279	0.2988	83.3652		2
1621404	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/5/2016	10/5/2016			279	0.0276	7.7004		1
1614281	92037	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	6/29/2016	10/6/2016			280	0.0276	7.7280		100
1621608	92057	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/7/2016	10/7/2016			281	0.0276	7.7556		1
1621553	92128	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	10/7/2016	10/7/2016			281	0.2988	83.9628		1
1621641	92116	DB	PC	3/4"	825	Less than or equal to 60	Code 1	B	S	10/10/2016	10/10/2016			284	0.0276	7.8384		1
1614766	92123	MB	PB	2"	714	Less than or equal to 60	Code 2	B	S	7/7/2016	10/11/2016			285	0.0612	17.4420		97
1621857	92123	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/11/2016	10/12/2016			286	0.0276	7.8936		2
1616769	92126	MB	P	2"	499	Less than or equal to 60	Code 2	B	S	8/4/2016	10/14/2016			288	0.2988	86.0544		72
1622120	92054	DB	PC	1 1/2"		Less than or equal to 60	Code 2	B	S	10/14/2016	10/14/2016			288	0.0276	7.9488		1
1616348	92102	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	7/28/2016	10/17/2016			291	0.0276	8.0316		82
1622289	92057	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/17/2016	10/17/2016			291	0.0276	8.0316		1
1622264	92117	MB	PC	1 1/2"	717	Less than or equal to 60	Code 1	B	S	10/17/2016	10/18/2016			292	0.0612	17.8704		2
1622427	92104	MB	PC	1 1/2"	969	Less than or equal to 60	Code 1	B	S	10/18/2016	10/19/2016			293	0.0612	17.9316		2
1622511	92008	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	10/19/2016	10/19/2016			293	0.0276	8.0868		1
1622433	92024	MB	PC	1 1/2"	729	Less than or equal to 60	Code 1	B	S	10/19/2016	10/19/2016			293	0.0612	17.9316		1
1622428	92105	MB	PC	1 1/2"	753	Less than or equal to 60	Code 1	B	S	10/19/2016	10/19/2016			293	0.0612	17.9316		1
1622331	92027	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	10/18/2016	10/20/2016			294	0.0276	8.1144		3
1622552	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/20/2016	10/20/2016			294	0.0276	8.1144		1
1622753	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/22/2016	10/22/2016			296	0.0276	8.1696		1
1622770	92057	DB	P	2"	453	Less than or equal to 60	Code 1	B	S	10/22/2016	10/23/2016			297	0.0089	2.6433		2
1622765	92057	MB	PC	1 1/2"	573	Less than or equal to 60	Code 1	B	S	10/22/2016	10/23/2016			297	0.0612	18.1764		2
1616826	92024	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/4/2016	10/24/2016			298	0.0276	8.2248		82
1617429	92007	MB	PC	1"	1015	Less than or equal to 60	Code 2	B	S	8/15/2016	10/24/2016			298	0.0612	18.2376		71
1620980	92021	DB	PB	3/4"		Less than or equal to 60	Code 2	B	S	9/30/2016	10/24/2016			298	0.0276	8.2248		25
1622883	92139	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/24/2016	10/24/2016			298	0.0276	8.2248		1
1622886	92021	MB	P	2"	537	Less than or equal to 60	Code 1	B	S	10/25/2016	10/25/2016			299	0.2988	89.3412		1
1622885	92028	MB	P	1 1/4"	465	Less than or equal to 60	Code 1	B	S	10/25/2016	10/25/2016			299	0.2988	89.3412		1
1620648	92105	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	9/26/2016	10/26/2016			300	0.0276	8.2800		31
1618816	92014	MB	P	3"	535	Less than or equal to 60	Code 2	B	S	8/31/2016	10/27/2016			301	0.2988	89.9388		58
1617472	92007	DB	Unknown	3/4"		Less than or equal to 60	Code 2	B	S	8/16/2016	10/28/2016			302	0.0276	8.3352	Pipe Material of Unknov	74
1623363	92021	DB	P			Less than or equal to 60	Code 1	B	S	10/28/2016	10/28/2016			302	0.0089	2.6878		1
1623298	92102	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/28/2016	10/28/2016			302	0.0276	8.3352		1
1623281	91910	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/28/2016	10/29/2016			303	0.0276	8.3628		2
1623267	91910	MB	PC	1 1/2"	789	Less than or equal to 60	Code 1	B	S	10/28/2016	10/29/2016			303	0.0612	18.5436		2
1623403	92026	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	10/29/2016	10/29/2016			303	0.0276	8.3628		1
1623315	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	10/30/2016	10/30/2016			304	0.0276	8.3904		1
1623332	92024	MB	PC	2"	741	Less than or equal to 60	Code 1	B	S	10/31/2016	10/31/2016			305	0.0612	18.6660		1
1623258	91910	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	10/28/2016	11/1/2016			306	0.0276	8.4456		5
1623401	91902	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/1/2016	11/1/2016			306	0.0276	8.4456		1
1619080	92107	MB	PC	1 1/2"	1092	Less than or equal to 60	Code 2	B	S	9/6/2016	11/2/2016			307	0.0612	18.7884		58
1623452	91910	MB	PC	1"	958	Less than or equal to 60	Code 1	B	S	11/2/2016	11/3/2016			308	0.0612	18.8496		2
1623536	92054	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	11/3/2016	11/3/2016			308	0.0276	8.5008		1
1623508	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/3/2016	11/3/2016			308	0.0276	8.5008		1
1623709	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/7/2016	11/7/2016			312	0.0276	8.6112		1
1621576	92113	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	S	10/7/2016	11/9/2016			314	0.0089	2.7946		34
1623814	92113	DB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	11/9/2016	11/9/2016			314	0.0276	8.6664		1
1623893	91910	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/10/2016	11/10/2016			315	0.0276	8.6940		1
1623817	92014	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/10/2016	11/10/2016			315	0.0276	8.6940		1
1623919	92114	MB	PC	1 1/2"	706	Less than or equal to 60	Code 1	B	S	11/12/2016	11/12/2016			317	0.0612	19.4004		1
1623930	92114	MB	PC	1"	1047	Greater than 60	Code 1	B	S	11/13/2016	11/13/2016			318	0.0612	19.4616		1
1623971	92007	DB	PC	1"		Less than or equal to 60	Code 2	B	S	11/14/2016	11/14/2016			319	0.0276	8.8044		1
1623946	92007	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/14/2016	11/15/2016			320	0.0276	8.8320		2
1624026	92007	MB	PC	2"		Less than or equal to 60	Code 1	B	S	11/15/2016	11/15/2016			320	0.0612	19.5840		1
1624016	92069	MB	P	2"	514	Less than or equal to 60	Code 1	B	S	11/15/2016	11/15/2016			320	0.2988	95.6160		1

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1619600	91978	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	9/13/2016	11/16/2016			321	0.0276	8.8596		65
1623950	92109	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	11/14/2016	11/16/2016			321	0.0612	19.6452		3
1618732	92075	MB	PC	1 1/2"	763	Less than or equal to 60	Code 2	B	S	8/30/2016	11/17/2016			322	0.0612	19.7064		80
1624128	92004	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	11/17/2016	11/17/2016			322	0.0276	8.8872		1
1617902	92014	DB	PC	3/4"		Less than or equal to 60	Code 2	B	S	8/20/2016	11/18/2016			323	0.0276	8.9148		91
1624234	92075	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	11/18/2016	11/19/2016			324	0.0612	19.8288		2
1624315	92021	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/21/2016	11/21/2016			326	0.0276	8.9976		1
1624305	92113	MB	PC	1 1/2"	526	Less than or equal to 60	Code 1	B	S	11/21/2016	11/21/2016			326	0.0612	19.9512		1
1624386	92107	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/22/2016	11/22/2016			327	0.0276	9.0252		1
1624383	92114	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	11/22/2016	11/22/2016			327	0.0089	2.9103		1
1624394	92113	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/22/2016	11/23/2016			328	0.0276	9.0528		2
1624472	92104	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/25/2016	11/26/2016			331	0.0276	9.1356		2
1624461	92064	MB	P	2"	490	Less than or equal to 60	Code 1	B	S	11/25/2016	11/26/2016			331	0.2988	98.9028		2
1624522	92124	MB	P	2"	550	Less than or equal to 60	Code 1	B	S	11/28/2016	11/28/2016			333	0.2988	99.5004		1
1624558	92075	MB	PC	2"	766	Less than or equal to 60	Code 1	B	S	11/28/2016	11/29/2016			334	0.0612	20.4408		2
1624619	92027	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	11/29/2016	11/29/2016			334	0.0089	2.9726		1
1624572	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/29/2016	11/29/2016			334	0.0276	9.2184		1
1624676	92102	DB	P			Less than or equal to 60	Code 1	B	S	11/29/2016	11/30/2016			335	0.0089	2.9815		2
1624696	92116	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	11/30/2016	11/30/2016			335	0.0089	2.9815		1
1624693	92109	MB	P	1 1/4"	442	Less than or equal to 60	Code 1	B	S	11/30/2016	11/30/2016			335	0.2988	100.0980		1
1624648	92056	MB	P	3"		Less than or equal to 60	Code 1	B	S	11/30/2016	11/30/2016			335	0.2988	100.0980		1
1624630	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/30/2016	11/30/2016			335	0.0276	9.2460		1
1624698	92037	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	11/30/2016	12/1/2016			336	0.0276	9.2736		2
1624740	92054	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/1/2016	12/1/2016			336	0.0276	9.2736		1
1624739	91932	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/1/2016	12/1/2016			336	0.0276	9.2736		1
1624706	92103	MB	PC	1 1/2"	815	Less than or equal to 60	Code 1	B	S	12/1/2016	12/1/2016			336	0.0612	20.5632		1
1624703	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/1/2016	12/1/2016			336	0.0276	9.2736		1
1624702	92069	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/1/2016	12/1/2016			336	0.0276	9.2736		1
1624761	92113	DB	PC	1"	767	Less than or equal to 60	Code 1	B	S	12/1/2016	12/2/2016			337	0.0276	9.3012		2
1624776	92120	MB	P	2"	539	Less than or equal to 60	Code 1	B	S	12/1/2016	12/2/2016			337	0.2988	100.6956		2
1624850	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/2/2016	12/2/2016			337	0.0276	9.3012		1
1624861	91977	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/3/2016	12/3/2016			338	0.0276	9.3288		1
1624892	92116	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/4/2016	12/4/2016			339	0.0276	9.3564		1
1624956	92118	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/5/2016	12/5/2016			340	0.0276	9.3840		1
1624907	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/5/2016	12/5/2016			340	0.0276	9.3840		1
1624878	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/5/2016	12/5/2016			340	0.0276	9.3840		1
1620791	92024	DB	PB	3/4"		Less than or equal to 60	Code 2	B	S	9/28/2016	12/6/2016			341	0.0276	9.4116		70
1624989	92120	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/6/2016	12/6/2016			341	0.0276	9.4116		1
1624965	91945	MB	PC	1 1/2"	76	Less than or equal to 60	Code 1	B	S	12/6/2016	12/6/2016			341	0.0612	20.8692		1
1625059	92014	MB	PC	1 1/2"	695	Less than or equal to 60	Code 1	B	S	12/6/2016	12/7/2016			342	0.0612	20.9304		2
1625045	92007	MB	Unknown	1 1/2"	803	Less than or equal to 60	Code 1	B	S	12/6/2016	12/7/2016			342	0.2988	102.1896	Pipe Material of Unknov	2
1625060	91977	MB	P	1 1/4"	491	Less than or equal to 60	Code 1	B	S	12/7/2016	12/7/2016			342	0.2988	102.1896		1
1621276	91945	MB	PC	1 1/2"	801	Less than or equal to 60	Code 3	B	M	10/4/2016	11/17/2016			45	0.0612	2.7540		45
1621253	91945	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	10/4/2016	12/2/2016			60	0.0276	1.6560		60
1625138	92118	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/7/2016	12/8/2016			343	0.0276	9.4668		2
1625281	92103	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	12/8/2016	12/8/2016			343	0.0089	3.0527		1
1625147	91911	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/8/2016	12/8/2016			343	0.0276	9.4668		1
1625231	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/9/2016	12/9/2016			344	0.0276	9.4944		1
1625223	92104	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	12/9/2016	12/9/2016			344	0.0089	3.0616		1
1625197	91945	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/9/2016	12/9/2016			344	0.0276	9.4944		1
1700748	92111	MB	P	1 1/4"	347	Less than or equal to 60	Code 1	B	S	12/9/2016	12/10/2016			345	0.2988	103.0860		2
1625238	92037	MB	PC	2"	455	Less than or equal to 60	Code 1	B	S	12/9/2016	12/10/2016			345	0.0612	21.1140		2
1625241	92071	DB	PB	3/4"		Less than or equal to 60	Code 1	B	S	12/10/2016	12/10/2016			345	0.0276	9.5220		1
1625336	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/12/2016	12/12/2016			347	0.0276	9.5772		1
1625264	92115	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/12/2016	12/12/2016			347	0.0276	9.5772		1
1625309	92082	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/12/2016	12/13/2016			348	0.0276	9.6048		2
1625389	92069	MB	P	3"	443	Less than or equal to 60	Code 1	B	S	12/13/2016	12/13/2016			348	0.2988	103.9824		1
1625348	92126	MB	P	2"	527	Less than or equal to 60	Code 1	B	S	12/13/2016	12/13/2016			348	0.2988	103.9824		1
1625347	92027	MB	P	2"	455	Less than or equal to 60	Code 1	B	S	12/13/2016	12/13/2016			348	0.2988	103.9824		1
1625408	92120	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/13/2016	12/14/2016			349	0.0276	9.6324		2
1625407	92110	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/13/2016	12/14/2016			349	0.0276	9.6324		2
1616600	92083	MB	P	2"	523	Less than or equal to 60	Code 1	B	M	8/2/2016	8/3/2016			2	0.2988	0.5976		2
1616490	92056	MB	P	2"		Less than or equal to 60	Code 1	B	M	8/1/2016	8/1/2016			1	0.2988	0.2988		1
1616429	92154	MB	P	3"	498	Less than or equal to 60	Code 1	B	M	7/29/2016	7/29/2016			1	0.2988	0.2988		1
1625401	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/13/2016	12/14/2016			349	0.0276	9.6324		2
1625447	92105	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/14/2016	12/14/2016			349	0.0276	9.6324		1
1625478	92126	MB	P	2"	503	Less than or equal to 60	Code 1	B	S	12/15/2016	12/16/2016			351	0.2988	104.8788		2
1625588	92117	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/16/2016	12/16/2016			351	0.0276	9.6876		1
1625536	92069	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/16/2016	12/16/2016			351	0.0276	9.6876		1
1625670	92126	MB	PC	4"		Less than or equal to 60	Code 1	B	S	12/19/2016	12/19/2016			354	0.0612	21.6648		1
1625595	92106	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/19/2016	12/19/2016			354	0.0276	9.7704		1
1625682	92139	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/20/2016	12/20/2016			355	0.0276	9.7980		1
1622047	92008	MB	P	3"	497	Less than or equal to 60	Code 3	B	S	10/13/2016	12/21/2016			356	0.2988	106.3728		70
1625741	92021	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	12/21/2016	12/21/2016			356	0.0089	3.1684		1
1613473	92007	MB	P	2"	509	Less than or equal to 60	Code 1	B	M	6/17/2016	6/17/2016			1	0.2988	0.2988		1
1626073	92108	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/22/2016	12/22/2016			357	0.0276	9.8532		1
1625795	91978	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	12/22/2016	12/22/2016			357	0.0089	3.1773		1
1625812	92105	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	12/22/2016	12/23/2016			358	0.0089	3.1862		2
1625840	92024	MB	P	1 1/4"	515	Less than or equal to 60	Code 2	B	S	12/23/2016	12/23/2016			358	0.2988	106.9704		1
1625835	92021	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	S	12/23/2016	12/23/2016			358	0.0612	21.9096		1
1625855	92064	MB	P	3"	383	Less than or equal to 60	Code 1	B	S	12/25/2016	12/25/2016			360	0.2988	107.5680		1
1625854	91910	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/25/2016	12/25/2016			360	0.0276	9.9360		1
1625864	92054	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	12/26/2016	12/26/2016			361	0.0089	3.2129		1
1625966	92104	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	S	12/27/2016	12/27/2016			362	0.0089	3.2218		1
1625883	92130	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	S	12/27/2016	12/27/2016			362	0.0089	3.2218		1
1606876	92105	DB	PC	3/4"		Less than or equal to 60	Code 2	B	M	3/23/2016	3/24/2016			2	0.0276	0.0552		2
1625878	92056	MB	P	2"	539	Less than or equal to 60	Code 1	B	S	12/27/2016	12/27/2016			362	0.2988	108.1656		1
1625872	91942	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/27/2016	12/27/2016			362	0.0276	9.9912		1
1625870	92037	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	12/27/2016	12/27/2016			362	0.0089	3.2218		1
1605274	92104	MB	P	2"		Less than or equal to 60	Code 1	B	M	3/2/2016	3/2/2016			1	0.2988	0.2988		1
1604663	92104	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	M	2/24/2016	2/24/2016			1	0.0089	0.0089		1
1626036	92057	MB	P	2"	387	Less than or equal to 60	Code 1	B	S	12/28/2016	12/28/2016			363	0.2988	108.4644		1
1625974	92083	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/28/2016	12/28/2016			363	0.0276	10.0188		1
1626038	91911	MB	PC	1 1/2"	731	Less than or equal to 60	Code 1	B	S	12/28/2016	12/29/2016			364	0.0612	22.2768		2
1626035	92114	MB	PC	1 1/2"	791	Less than or equal to 60	Code 1	B	S	12/28/2016	12/29/2016			364	0.0612	22.2768		2
1626097	92071	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/29/2016	12/29/2016			364	0.0276	10.0464		1
1626088	92109	DB	PC	3/4"		Less than or equal to 60	Code 1	B	S	12/29/2016	12/29/2016			364	0.0276	10.0464		1
1626054	92028	DB	P	1 1/4"	551	Less than or equal to 60	Code 1	B	S	12/29/2016	12/29/2016			364	0.0089	3.2396		1
1626044	92040	MB	P	1 1/4"	467	Less than or equal to 60	Code 1	B	S	12/29/2016	12/29/2016			364	0.2988	108.7632		1
1626042	92028	MB	P	2"	395	Less than or equal to 60	Code 1	B	S	12/29/2016	12/29/2016			364	0.2988	108.7632		1
1700308	91950	MB	PC	2"		Less than or equal to 60	Code 1	B	S	12/29/2016	12/30/2016			365	0.0612	22.3380		2
1626092	92114	MB	PC	1 1/2"	767	Less than or equal to 60	Code 1	B	S	12/29/2016	12/30/2016			365	0.0612	22.3380		2
1700138	91941	MB	PC	2"	911	Less than or equal to 60	Code 1	B	S	12/30/2016	12/30/2016			365	0.0612	22.3380		1
1626151	92037	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	12/30/2016	12/30/2016			365	0.0089	3.2485		1
1626118	92111	MB	P	1 1/4"	347	Less than or equal to 60	Code 1	B	S	12/30/2016	12/30/2016			365	0.2988	109.0620		1
1700000	92101	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	S	12/31/2016	12/31/2016			366	0.0089	3.2574		1
1616028	92114	MB	PB			Less than or equal to 60	Code 2	B	S	7/25/2016		10/25/2017		366	0.0612	22.3992		
1617564	92075	MB	PB			Less than or equal to 60	Code 2	B	S	8/16/2016		11/16/2017		366	0.0612	22.3992		

ID	Geographic Location	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Leak Discovery Method	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Scheduled Repair Date (MM/DD/YY)	Reason for Not Scheduling a Repair	Number of Days Leaking	Emission Factor (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Number of Days Leaking from Discover to Repair
1618930	92007	MB/DB	PB			Less than or equal to 60	Code 2	B	S	9/1/2016		12/1/2017		366	0.0276	10.1016	Pipe Classification of ME	
1620853	92024	DB	P			Less than or equal to 60	Code 2	B	S	9/28/2016		12/28/2017		366	0.0089	3.2574		
1622165	92109	MB	PB			Less than or equal to 60	Code 2	B	S	10/14/2016		1/14/2018		366	0.0612	22.3992		
1622509	92111	MB	PB			Less than or equal to 60	Code 2	B	S	10/19/2016		1/19/2018		366	0.0612	22.3992		
1622561	92064	DB	P			Less than or equal to 60	Code 2	B	S	10/20/2016		1/20/2018		366	0.0089	3.2574		
1623218	92037	DB	P			Less than or equal to 60	Code 2	B	S	10/27/2016		1/27/2018		366	0.0089	3.2574		
1623470	92083	MB	PB			Less than or equal to 60	Code 2	B	S	11/2/2016		2/2/2018		366	0.0612	22.3992		
1623920	92083	MB	PB			Less than or equal to 60	Code 2	B	S	11/12/2016		2/12/2018		366	0.0612	22.3992		
1623996	92075	MB	PB			Less than or equal to 60	Code 2	B	S	11/14/2016		2/14/2018		366	0.0612	22.3992		
1623978	92054	DB	PB			Less than or equal to 60	Code 2	B	S	11/14/2016		2/14/2018		366	0.0276	10.1016		
1624022	92026	MB	PB			Less than or equal to 60	Code 2	B	S	11/15/2016		2/15/2018		366	0.0612	22.3992		
1624228	92008	DB	P			Less than or equal to 60	Code 2	B	S	11/18/2016		2/18/2018		366	0.0089	3.2574		
1624265	92037	MB	PB			Less than or equal to 60	Code 2	B	S	11/20/2016		2/20/2018		366	0.0612	22.3992		
1524938	92103	DB	P	1 1/4"		Less than or equal to 60	Code 2	B	M	10/22/2015	1/25/2016			25	0.0089	0.2225		96
1624653	92118	DB	PB			Less than or equal to 60	Code 2	B	S	11/30/2016		2/28/2018		366	0.0276	10.1016		
1624782	92037	MB	PB			Less than or equal to 60	Code 2	B	S	12/2/2016		3/2/2018		366	0.0612	22.3992		
1625950	92105	MB	PB			Less than or equal to 60	Code 2	B	S	12/27/2016		3/27/2018		366	0.0612	22.3992		
1626078	92027	MB	PB			Less than or equal to 60	Code 2	B	S	12/29/2016		3/29/2018		366	0.0612	22.3992		
1624977	92037	MB	PC			Less than or equal to 60	Code 2	B	S	12/6/2016		3/6/2018		366	0.0612	22.3992		
1620758	92116	DB	PC			Less than or equal to 60	Code 1	B	S	9/27/2016	9/27/2016			271	0.0276	7.4796		1
1625518	92057	MB	P			Less than or equal to 60	Code 2	B	S	12/15/2016		3/15/2018		366	0.2988	109.3608		
1625249	92024	DB	PC			Less than or equal to 60	Code 2	B	S	12/10/2016		3/10/2018		366	0.0276	10.1016		

SDG&E

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.

and In Response to Data Request SDG&E R15-01-008 2017 June Report

Issued: May 16, 2017

Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):

Notes:
Definitions in Data Request SDG&E R15-01-008 **2017 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	Survey Interval (yrs) $[I]$	Miles Surveyed Annually from Multi-Year Survey Cycles $[M_{X,I}]$	Total # of Leaks Detected from Survey $[N_{X,L}]$	Multi-Year Interval Constant $[C_I]$	Annual Leak Rate [Leaks / Mile] $R_X = \frac{N_{X,L}}{M_{X,A} + (I \times M_{X,I})}$	# of Unknown Leaks $N_{X,unk} = R_X \times C_I \times M_{X,I} \times I$	Total # of Leaks Detected from O&M* $[N_{X,O}]$
Main/Plastic	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Main/Plastic	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Main/Plastic	4,479	950	3,529	5	706	75	2	0.0167	118	5
Main/Unprotected Steel	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Main/Unprotected Steel	NA	NA	NA	5	NA	NA	2	NA	NA	NA
Main/Protected Steel	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Main/Protected Steel	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Main/Protected Steel	3,592	1,091	2,501	5	500	109	2	0.0303	152	1
Service/Plastic	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Service/Plastic	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Service/Plastic	4,190	889	3,301	5	660	70	2	0.0167	110	1
Service/Unprotected Steel	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Service/Unprotected Steel	NA	NA	NA	5	NA	NA	2	NA	NA	NA
Service/Protected Steel	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Service/Protected Steel	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Service/Protected Steel	3,032	921	2,111	5	422	250	2	0.0825	348	2
Service/Copper	NA	NA	NA	3	NA	NA	1	NA	NA	NA
Service/Copper	NA	NA	NA	4	NA	NA	1.5	NA	NA	NA
Service/Copper	NA	NA	NA	5	NA	NA	2	NA	NA	NA
Total	**15,293**	**3,851**	**11,442**	**N/A**	**2,288**	**504**	**N/A**	**N/A**	**728**	**9**

SDG&E Estimated Emissions by Pipeline Facility/Material for Each Leakage Category

Leakage Category / Facility/Material	Emission Factor (Mscf/day/leak)	2016 Emissions from Leaks detected Prior to 2016 (Mscf)	2016 Emissions from Leaks Detected from 2016 Survey (Mscf)	2016 Emissions from O&M* Leaks Detected in 2016 (Mscf)	2016 Estimated Emissions from Unknown Leaks (Mscf)	Total Estimated 2016 Emissions from Distribution Pipelines (Mscf)
Main/Plastic	0.2988	NA	NA	NA	NA	NA
Main/Plastic	0.2988	NA	NA	NA	NA	NA
Main/Plastic	0.2988	9	4,255	2	12,889	17,155
Main/Unprotected Steel	0.1548	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1548	NA	NA	NA	NA	NA
Main/Unprotected Steel	0.1548	NA	NA	NA	NA	NA
Main/Protected Steel	0.0612	NA	NA	NA	NA	NA
Main/Protected Steel	0.0612	NA	NA	NA	NA	NA
Main/Protected Steel	0.0612	22	1,369	3	3,391	4,784
Main/Unknown*	0.2988	0	102	0	0	102
Service/Plastic	0.0089	NA	NA	NA	NA	NA
Service/Plastic	0.0089	NA	NA	NA	NA	NA
Service/Plastic	0.0089	1.39	115	0.01	359	476
Service/Unprotected Steel	0.0600	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.0600	NA	NA	NA	NA	NA
Service/Unprotected Steel	0.0600	NA	NA	NA	NA	NA
Service/Protected Steel	0.0276	NA	NA	NA	NA	NA
Service/Protected Steel	0.0276	NA	NA	NA	NA	NA
Service/Protected Steel	0.0276	13.66	1,296	2	3,517	4,829
Service/Copper	0.0226	NA	NA	NA	NA	NA
Service/Copper	0.0226	NA	NA	NA	NA	NA
Service/Copper	0.0226	NA	NA	NA	NA	NA
Service/Unknown*	0.0276	0	14	0	0	14
Unknown/Unknown*	0.2988	0	0	0	0	0
Total	**N/A**	**45**	**7,152**	**6**	**20,156**	**27,360**

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

* Leaks are occasionally repaired without excavation of the leak location resulting in Material and/or Facility to be unknown. In these cases the most conservative emission factor is applied. There are no "Unknown leaks" for these line items because all system mileage is accounted for in the other categories.

SDG&E

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and In Response to Data Request SDG&E R15-01-008 2017 June Report

Issued: May 16, 2017

Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB)
Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**
This summary purposefully should exclude damages, blowdowns, component emissions and component leaks.

Response:

	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 Known Leaks at final day of the Year of Interest (12/31/16)	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]	Explanatory Notes / Comments
Grade 1	0	410	410	1	N/A*	0	0	5,435	N/A*	N/A	
Grade 2	20	100	98	58	N/A*	22	43	1,612	N/A*	N/A	
Grade 3	1	3	4	132	N/A*	0	2	110	N/A*	N/A	
Graded Leak Total	21	513	512	N/A**	N/A*	22	45	7,158	N/A*	N/A	
Above Ground Hazardous	0	0	0	0	N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous	0	0	0	0	N/A*	0	0	0	N/A*	N/A	
Above Ground Non-Hazardous Minor	0	0	0	0	N/A*	0	0	0	N/A*	N/A	
AG Total	0	0	0	N/A**	N/A*	0	0	0	N/A*	N/A	
Total of All Leaks	**21**	**513**	**512**	N/A**	**#VALUE!**	**22**	**45**	**7,158**	**#VALUE!**	**#VALUE!**	
											Column E - The duration of Grade 1 leaks is estimated based on company policy.
Main/Plastic	1	80	80	7	118	1	9	4,257	12,889	17,155	
Main/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Main/Protected Steel	6	109	102	23	152	13	22	1,372	3,391	4,784	
Main/Unknown	0	1	1	2	0	0	0	102	0	102	
Service/Plastic	3	71	70	8	110	4	1	115	359	476	
Service/Unprotected Steel	0	0	0	0	0	0	0	0	0	0	
Service/Protected Steel	11	250	257	12	348	4	14	1,298	3,517	4,829	
Service/Copper	0	0	0	0	0	0	0	0	0	0	
Service/Unknown	0	2	2	39	0	0	0	14	0	14	
Unknown/Unknown	0	0	0	0	0	0	0	0	0	0	
Total	21	513	512	N/A**	728	22	45	7,158	20,156	27,360	

Note: This summary cannot be compared to prior years due to changes in reporting templates
* Since the estimated number of Unknown Leaks occurs at various points in time during the leak survey cycle, estimation of the number of leaks by leak grade, and whether or not the leaks are Below Ground or Above Ground may be misleading using the suggested method. The wording in the column headers is also misleading since these numbers would be an estimation rather than a "Count". The estimated emissions in these categories can not be provided since they are dependent on an estimated number of leaks.
** Totals are not applicable in these columns.

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Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):
Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**

The following questions in the above mentioned data requests are answered using the spreadsheets in this Appendix (#4):
(2) A List of new graded gas leaks discovered, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, by grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered and annual volume of gas leaked for each, by month, from January 1st through December 31st of the previous calendar year.
(3) List of graded gas leaks repaired, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, date of repair, annual volume of gas leaked for each and the number of days from the time the leak was discovered until the date of repair.
(4) List of ALL open graded leaks, regardless of when they were found, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, that are being monitored or are scheduled to be repaired, by month, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, scheduled date of repair, and annual volume of methane leaked for each.
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.

Response:

Sum Total: **9.239**

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

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1624443	92118	E	MB	PC	3"	862	Less than or equal to 60	Code 1	B	11/24/2016	11/24/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611130	92069	E	MB	P	3"	472	Less than or equal to 60	Code 1	B	5/17/2016	5/17/2016	1		337.616	
1614455	92116	O	DB	P	1"	713	Less than or equal to 60	Code 1	B	6/30/2016	6/30/2016	1		74.346	
1613111	92009	E	MB	P	6"		Less than or equal to 60	Code 1	B	6/13/2016	6/13/2016	1		54.896	
1621377	92019	E	MB	PC	2"	609	Less than or equal to 60	Code 1	B	10/5/2016	10/5/2016	1		47.090	
1618698	92057	E	DB	P	1"	199	Less than or equal to 60	Code 1	B	8/30/2016	8/30/2016	1		19.332	
1617253	92020	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/11/2016	8/11/2016	1		14.892	
1617932	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/22/2016	8/22/2016	1		12.924	
1623214	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/27/2016	10/27/2016	1		10.652	
1618727	92091	E	DB	P	1/2" IPS	29	Less than or equal to 60	Code 1	B	8/30/2016	8/30/2016	1		9.320	
1610658	92136	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/11/2016	5/11/2016	1		3.272	
1615707	92057	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	7/20/2016	7/20/2016	1		1.742	
1626037	91977	N	MB	P	1 1/4"	479	Less than or equal to 60	Code 1	B	12/28/2016	12/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618825	92056	N	MB	P	1 1/4"	475	Less than or equal to 60	Code 1	B	8/4/2016	8/4/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614168	91902	N	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600519	92021	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/8/2016	1/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600686	92071	N	MB	P	2"		Less than or equal to 60	Code 1	B	1/11/2016	1/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602341	92027	E	MB	P	2"	444	Less than or equal to 60	Code 1	B	1/28/2016	1/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1606759	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/22/2016	3/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1608448	91950	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/12/2016	4/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612179	92103	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	5/31/2016	5/31/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1613062	92127	E	MB	P	3"		Less than or equal to 60	Code 1	B	6/13/2016	6/13/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614171	92114	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620325	91945	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/21/2016	9/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620549	91977	N	MB	P	3"	536	Less than or equal to 60	Code 1	B	9/26/2016	9/26/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622243	92064	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/15/2016	10/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624126	92008	E	MB	P	2"		Less than or equal to 60	Code 1	B	11/16/2016	11/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624352	92081	N	MB	P	3"	358	Less than or equal to 60	Code 1	B	11/22/2016	11/22/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624471	92075	N	DB	P	2"		Less than or equal to 60	Code 1	B	11/25/2016	11/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624563	92129	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/28/2016	11/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624979	92025	E	MB	P	2"	347	Less than or equal to 60	Code 1	B	12/6/2016	12/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625624	91977	N	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	12/19/2016	12/19/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1626020	92020	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/27/2016	12/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1626100	92173	E	MB	P	2"	479	Less than or equal to 60	Code 1	B	12/29/2016	12/29/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612869	91950	N	DB	PC	3/4"		Less than or equal to 60	Code 1	B	6/9/2016	6/9/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623449	92008	E	DB	PC	3/4"	826	Less than or equal to 60	Code 1	B	11/1/2016	11/1/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600883	92020	N	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/12/2016	1/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600534	92071	N	MB	P	1 1/4"	420	Less than or equal to 60	Code 1	B	1/9/2016	1/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600236	92081	N	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/5/2016	1/5/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611443	92057	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/23/2016	5/23/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611898	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/26/2016	5/26/2016	1		819.758	
1622097	92056	E	MB	P	3"	369	Less than or equal to 60	Code 1	B	10/13/2016	10/13/2016	1		192.068	
1604297	92056	E	MB	P	3"		Less than or equal to 60	Code 1	B	2/19/2016	2/19/2016	1		150.612	
1614057	92014	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/25/2016	6/25/2016	1		98.111	
1606556	92054	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	3/19/2016	3/19/2016	1		91.516	
1613188	91941	E	DB	P	1"		Less than or equal to 60	Code 2	B	6/13/2016	6/13/2016	1		13.293	
1606663	92130	E	DB	P	1"	3	Less than or equal to 60	Code 1	B	3/21/2016	3/21/2016	1		70.569	
1613731	92026	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	6/21/2016	6/21/2016	1		70.327	
1619431	92008	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/10/2016	9/10/2016	1		66.854	
1619022	92067	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/5/2016	9/5/2016	1		65.740	
1605808	92057	E	MB	P	2"	302	Less than or equal to 60	Code 1	B	3/9/2016	3/9/2016	1		64.219	
1609419	92129	E	MB	P	3"		Less than or equal to 60	Code 1	B	4/25/2016	4/25/2016	1		61.121	
1619985	92027	E	MB	P	2"	476	Less than or equal to 60	Code 1	B	9/16/2016	9/16/2016	1		57.137	
1618929	92103	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		52.792	
1615654	92105	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/20/2016	7/20/2016	1		45.596	
1612537	92071	E	MB	P	1 1/4"	449	Less than or equal to 60	Code 1	B	6/6/2016	6/6/2016	1		45.493	
1610559	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/10/2016	5/10/2016	1		43.942	
1608897	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/2/2016	5/2/2016	1		39.096	
1612980	92129	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/11/2016	6/11/2016	1		38.668	
1614983	92130	E	MB	P	2"	174	Less than or equal to 60	Code 1	B	7/11/2016	7/11/2016	1		37.834	
1615562	92021	E	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	7/19/2016	7/19/2016	1		35.766	
1618917	92028	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		35.284	
1619318	92024	E	MB	PC	1"	1,016	Less than or equal to 60	Code 1	B	9/8/2016	9/8/2016	1		35.026	
1615170	91932	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	7/13/2016	7/13/2016	1		34.646	
1612401	92008	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/3/2016	6/3/2016	1		34.531	
1611646	92119	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/24/2016	5/24/2016	1		33.972	
1611788	92119	E	MB	P	2"	340	Less than or equal to 60	Code 1	B	5/25/2016	5/25/2016	1		33.972	
1621078	92009	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/30/2016	9/30/2016	1		33.514	
1616157	92003	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/26/2016	7/26/2016	1		33.430	
1600474	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	1/8/2016	1/8/2016	1		32.281	
1614333	92054	E	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/29/2016	6/29/2016	1		32.259	
1609606	92014	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/27/2016	4/27/2016	1		31.787	
1607225	92054	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	3/29/2016	3/29/2016	1		31.479	
1612063	92040	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/30/2016	5/30/2016	1		29.656	
1615314	92040	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/15/2016	7/15/2016	1		29.656	
1609415	92105	E	MB	PC	1 1/2"		Greater than 60	Code 1	B	4/25/2016	4/25/2016	1		28.529	
1608655	92114	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	4/15/2016	4/15/2016	1		27.660	
1612117	92114	E	MB	P	2"	436	Less than or equal to 60	Code 1	B	5/31/2016	5/31/2016	1		27.629	
1618773	92101	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/4/2016	8/4/2016	1		26.762	
1615974	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/25/2016	7/25/2016	1		25.578	
1604010	92081	E	DB	P	-		Less than or equal to 60	Code 1	B	2/16/2016	2/16/2016	1		25.250	
1606382	92009	E	MB	P	1 1/4"	422	Less than or equal to 60	Code 1	B	3/16/2016	3/16/2016	1		24.809	
1608037	92110	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/6/2016	4/6/2016	1		23.862	
1617435	92067	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/15/2016	8/15/2016	1		23.050	
1608517	91910	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/13/2016	4/13/2016	1		22.691	
1606925	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	3/24/2016	3/24/2016	1		22.285	
1620166	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/20/2016	9/20/2016	1		22.285	
1621139	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/3/2016	10/3/2016	1		21.892	
1614626	92116	E	MB	PC	2"		Less than or equal to 60	Code 1	B	7/6/2016	7/6/2016	1		21.735	
1615850	92114	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/22/2016	7/22/2016	1		20.388	
1614055	92064	E	MB	P	2"		Less than or equal to 60	Code 1	B	6/24/2016	6/24/2016	1		19.831	
1611662	92064	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/21/2016	5/21/2016	1		19.227	
1626069	92064	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/29/2016	12/29/2016	1		19.227	
1620962	91902	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/29/2016	9/29/2016	1		17.444	
1606307	92057	E	DB	P	1"		Less than or equal to 60	Code 1	B	3/16/2016	3/16/2016	1		17.085	
1617518	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/16/2016	8/16/2016	1		16.773	
1617592	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/17/2016	8/17/2016	1		16.773	
1613303	92075	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/15/2016	6/15/2016	1		16.617	
1613520	92075	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/17/2016	6/17/2016	1		16.617	
1621384	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/5/2016	10/5/2016	1		16.419	
1622293	92056	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	10/17/2016	10/17/2016	1		16.145	
1619875	92057	E	MB	P	2"		Less than or equal to 60	Code 1	B	9/15/2016	9/15/2016	1		16.055	
1620758	92116	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	9/27/2016	9/27/2016	1		16.040	
1614467	91910	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/1/2016	7/1/2016	1		15.628	
1614534	91911	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	7/2/2016	7/2/2016	1		15.520	
1614161	92069	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		15.431	
1621581	92057	E	DB	P	1"		Less than or equal to 60	Code 1	B	10/7/2016	10/7/2016	1		15.169	
1600966	91901	E	DB	P	1"		Less than or equal to 60	Code 1	B	1/13/2016	1/13/2016	1		14.823	

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1610535	92026	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/10/2016	5/10/2016	1		14.748	
1616603	92007	E	MB	P	1 1/4"	463	Less than or equal to 60	Code 1	B	8/2/2016	8/2/2016	1		14.348	
1610408	91950	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	5/9/2016	5/9/2016	1		13.929	
1621577	92027	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/7/2016	10/7/2016	1		13.682	
1616033	92084	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/25/2016	7/25/2016	1		13.572	
1613685	91913	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/21/2016	6/21/2016	1		13.293	
1605312	92028	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/2/2016	3/2/2016	1		13.049	
1618070	92003	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/20/2016	8/20/2016	1		12.767	
1621847	92019	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/11/2016	10/11/2016	1		12.725	
1618194	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/24/2016	8/24/2016	1		12.649	
1610039	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/4/2016	5/4/2016	1		12.177	
1603731	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/11/2016	2/11/2016	1		12.103	
1614020	92104	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	6/24/2016	6/24/2016	1		11.808	
1619473	92014	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/12/2016	9/12/2016	1		11.734	
1608728	92102	E	MB	PC	2"	891	Less than or equal to 60	Code 1	B	4/15/2016	4/15/2016	1		11.196	
1604185	92069	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	2/18/2016	2/18/2016	1		11.050	
1606944	92008	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/24/2016	3/24/2016	1		10.576	
1617643	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/17/2016	8/17/2016	1		10.174	
1616459	92129	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/30/2016	7/30/2016	1		10.145	
1616729	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/3/2016	8/3/2016	1		9.791	
1603919	92071	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/25/2016	1/25/2016	1		9.777	
1609350	92007	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	4/25/2016	4/25/2016	1		9.705	
1613908	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/23/2016	6/23/2016	1		9.696	
1623914	92091	E	MB	P	2"	31	Less than or equal to 60	Code 1	B	11/11/2016	11/11/2016	1		9.320	
1612274	92057	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/1/2016	6/1/2016	1		9.286	
1613469	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/17/2016	6/17/2016	1		9.286	
1606440	92127	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	3/17/2016	3/17/2016	1		8.791	
1612206	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/1/2016	6/1/2016	1		8.740	
1618201	92021	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/24/2016	8/24/2016	1		8.249	
1616423	91902	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/29/2016	7/29/2016	1		8.225	
1617273	92081	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	8/11/2016	8/11/2016	1		7.974	
1618369	92081	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/25/2016	8/25/2016	1		7.974	
1618854	92118	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		7.699	
1621734	91932	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/10/2016	10/10/2016	1		7.525	
1605386	91942	E	DB	PB	3/4"		Greater than 60	Code 1	B	3/3/2016	3/3/2016	1		7.346	
1614111	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		7.264	
1620298	92118	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/21/2016	9/21/2016	1		7.142	
1622704	92084	E	DB	P	1"		Less than or equal to 60	Code 1	B	10/21/2016	10/21/2016	1		7.115	
1611278	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/19/2016	5/19/2016	1		7.101	
1617561	92104	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/16/2016	8/16/2016	1		7.012	
1600297	92071	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/6/2016	1/6/2016	1		6.802	
1604982	92028	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/27/2016	2/27/2016	1		6.798	
1608371	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/12/2016	4/12/2016	1		6.424	
1610331	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/7/2016	5/7/2016	1		6.296	
1614503	92105	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/1/2016	7/1/2016	1		6.032	
1616252	92014	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/27/2016	7/27/2016	1		5.807	
1601043	91977	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/14/2016	1/14/2016	1		5.800	
1619837	92115	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	9/15/2016	9/15/2016	1		5.755	
1614878	92067	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/8/2016	7/8/2016	1		5.601	
1614671	92008	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	7/6/2016	7/6/2016	1		5.484	
1609070	92105	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/20/2016	4/20/2016	1		5.194	
1607905	92027	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/5/2016	4/5/2016	1		4.784	
1619019	92027	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/4/2016	9/4/2016	1		4.593	
1618924	92101	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		4.400	
1609407	92007	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/25/2016	4/25/2016	1		4.237	
1608959	92009	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/19/2016	4/19/2016	1		4.084	
1612761	92009	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	6/8/2016	6/8/2016	1		4.084	
1614136	92116	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		3.652	
1619288	92105	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/8/2016	9/8/2016	1		3.434	
1620595	91913	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/26/2016	9/26/2016	1		3.368	
1614062	92056	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	6/26/2016	6/26/2016	1		3.288	
1606551	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/19/2016	3/19/2016	1		3.277	
1619877	92091	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/15/2016	9/15/2016	1		3.277	
1617042	92008	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	8/9/2016	8/9/2016	1		3.249	
1619950	92029	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/16/2016	9/16/2016	1		3.246	
1602982	92054	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/4/2016	2/4/2016	1		3.117	
1608447	91941	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/12/2016	4/12/2016	1		2.984	
1621882	92014	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/12/2016	10/12/2016	1		2.715	
1613163	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/14/2016	6/14/2016	1		2.710	
1614388	92028	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/30/2016	6/30/2016	1		2.710	
1606475	92008	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	3/17/2016	3/17/2016	1		2.664	
1614578	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/5/2016	7/5/2016	1		2.659	
1610245	92071	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/5/2016	5/5/2016	1		2.618	
1613611	92128	E	DB	P	2"		Less than or equal to 60	Code 1	B	6/20/2016	6/20/2016	1		2.608	
1608314	92057	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/11/2016	4/11/2016	1		2.590	
1613963	92104	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/23/2016	6/23/2016	1		2.527	
1614114	92020	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		2.496	
1614150	92021	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		2.496	
1612931	92102	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/10/2016	6/10/2016	1		2.458	
1615290	92028	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/15/2016	7/15/2016	1		2.262	
1613254	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/15/2016	6/15/2016	1		2.162	
1614393	92009	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	6/30/2016	6/30/2016	1		2.162	
1608911	92009	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/19/2016	4/19/2016	1		2.133	
1613259	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/15/2016	6/15/2016	1		2.131	
1607320	92128	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/29/2016	3/29/2016	1		2.113	
1611874	92057	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/26/2016	5/26/2016	1		2.070	
1621944	92064	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		1.990	
1610776	92064	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/12/2016	5/12/2016	1		1.918	
1615818	92008	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/22/2016	7/22/2016	1		1.853	
1623086	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/26/2016	10/26/2016	1		1.800	
1608603	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/14/2016	4/14/2016	1		1.798	
1608931	92009	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/19/2016	4/19/2016	1		1.768	
1623368	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/31/2016	10/31/2016	1		1.739	
1621789	92078	E	DB	P	1"		Less than or equal to 60	Code 1	B	10/11/2016	10/11/2016	1		1.678	
1612266	92103	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	6/1/2016	6/1/2016	1		1.576	
1619758	92008	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	9/8/2016	9/8/2016	1		1.501	
1614849	91941	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/8/2016	7/8/2016	1		1.467	
1612165	92127	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/31/2016	5/31/2016	1		1.440	
1614933	92101	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/11/2016	7/11/2016	1		1.406	
1620505	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/23/2016	9/23/2016	1		1.381	
1604458	92019	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/22/2016	2/22/2016	1		1.157	
1609712	92105	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	4/28/2016	4/28/2016	1		1.128	
1602845	92008	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	2/3/2016	2/3/2016	1		1.043	
1617410	92024	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	8/15/2016	8/15/2016	1		1.012	
1613714	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/21/2016	6/21/2016	1		1.005	
1602278	92024	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	1/28/2016	1/28/2016	1		0.804	
1613104	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/13/2016	6/13/2016	1		0.700	
1609059	92056	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/20/2016	4/20/2016	1		0.609	
1602121	92008	E	DB	P	1"		Less than or equal to 60	Code 1	B	1/27/2016	1/27/2016	1		0.076	
1601638	92130	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	1/21/2016	1/21/2016	1		0.051	
1600765	91911	N	DB	PC	3/4"		Less than or equal to 60	Code 2	B	1/11/2016	1/11/2016	1	0.0276	0.028	
1601679	92105	N	DB	PC	3/4"		Less than or equal to 60	Code 2	B	1/21/2016	1/21/2016	1	0.0276	0.028	
1607073	92008	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	3/26/2016	3/26/2016	1	0.0089	0.009	
1613018	92081	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	6/11/2016	6/11/2016	1	0.0089	0.009	
1617528	92083	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	8/16/2016	8/16/2016	1	0.0089	0.009	
1617669	92014	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	8/17/2016	8/17/2016	1	0.0089	0.009	
1619414	92081	N	DB	P	1"		Less than or equal to 60	Code 2	B	9/9/2016	9/9/2016	1	0.0089	0.009	
1620634	92069	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	9/26/2016	9/26/2016	1	0.0089	0.009	
1621511	92014	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	10/6/2016	10/6/2016	1	0.0089	0.009	
1623424	92024	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	11/1/2016	11/1/2016	1	0.0089	0.009	
1625181	92009	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	12/8/2016	12/8/2016	1	0.0089	0.009	
1626135	92056	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	12/30/2016	12/30/2016	1	0.0089	0.009	
1624557	92014	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	11/28/2016	12/1/2016	4	0.0089	0.036	
5100004714961	91914	O	MA	LIC			Less than or equal to 60	AN	AN	11/15/2016	11/15/2016	1	0.096	0.096	Emissions estimate based on company emission factor for maximum leak rate of AG Non-hazardous leaks based on soap test criteria.
1616359	92007	E	DB	PC	3/4"		Less than or equal to 60	Code 2	B	7/28/2016	9/14/2016	49	0.0276	1.352	
1617535	92014	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	8/16/2016	10/6/2016	52	0.0089	0.463	
1611339	92069	E	MB	P	2"	508	Less than or equal to 60	Code 2	B	5/19/2016	7/12/2016	55	0.2988	16.434	
1526010	92027	N	DB	P	1/2" CTS		Less than or equal to 60	Code 2	B	11/9/2015	3/1/2016	61	0.0089	0.543	
1604885	92014	N	DB	P	1/2" IPS		Less than or equal to 60	Code 2	B	2/26/2016	6/29/2016	125	0.0089	1.113	
1600356	92102	N	DB	PC	3/4"		Less than or equal to 60	Code 3	B	1/7/2016	1/8/2016	2	0.0276	0.055	
1612454	92105	N	DB	PC	3/4"		Less than or equal to 60	Code 3	B	6/5/2016	6/5/2016	1	0.0276	0.028	
1600496	92027	E	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	1/8/2016	1/8/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1600711	92115	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/11/2016	1/11/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600792	92117	O	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/12/2016	1/12/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600886	92116	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/12/2016	1/12/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601654	91942	E	DB	PC	1"		Less than or equal to 60	Code 1	B	1/21/2016	1/21/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601811	92123	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/23/2016	1/23/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601971	92037	E	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	1/25/2016	1/25/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602185	92114	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/27/2016	1/27/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602336	91911	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	1/28/2016	1/28/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600005	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/1/2016	1/1/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600311	92064	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/6/2016	1/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600320	92083	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/6/2016	1/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600402	91910	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/7/2016	1/7/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600504	92020	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/8/2016	1/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600569	92071	N	MB	P	2"		Less than or equal to 60	Code 1	B	1/10/2016	1/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600748	92124	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/11/2016	1/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1600766	92040	N	MB	P	2"		Less than or equal to 60	Code 1	B	1/12/2016	1/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603889	91950	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	2/16/2016	2/16/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603995	92117	E	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	2/16/2016	2/16/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601113	92007	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/14/2016	1/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625644	92101	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	12/19/2016	12/19/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624339	92029	N	MB	P	1 1/4"	442	Less than or equal to 60	Code 1	B	11/22/2016	11/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601544	92069	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	1/20/2016	1/20/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604459	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	2/22/2016	2/22/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601644	92037	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/21/2016	1/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624229	92105	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	11/18/2016	11/18/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624117	92075	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	11/16/2016	11/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602029	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	1/26/2016	1/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602569	92024	E	MB	P	4"	4	Less than or equal to 60	Code 1	B	2/1/2016	2/1/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602696	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/2/2016	2/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605105	92104	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	2/29/2016	2/29/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602869	92037	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/3/2016	2/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1602983	91915	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/4/2016	2/4/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603418	92127	E	MB	P	2"	157	Less than or equal to 60	Code 1	B	2/9/2016	2/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603542	92111	E	DB	P	2"		Less than or equal to 60	Code 1	B	2/10/2016	2/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603588	92056	N	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	2/10/2016	2/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603651	92111	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/11/2016	2/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605916	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	3/10/2016	3/10/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603844	91910	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/12/2016	2/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1603875	92122	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/14/2016	2/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604111	92154	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/17/2016	2/17/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1606390	92115	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	3/17/2016	3/17/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604197	92126	N	MB	P	2"		Less than or equal to 60	Code 1	B	2/18/2016	2/18/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604465	92102	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/22/2016	2/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604546	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/23/2016	2/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604604	92037	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/23/2016	2/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604607	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	2/23/2016	2/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604746	91911	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/24/2016	2/24/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604747	92131	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/24/2016	2/24/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1604850	92008	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	2/25/2016	2/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1607434	91910	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	3/30/2016	3/30/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1607570	92037	E	MB	PC	1 1/2"		Less than or equal to 60	Code 1	B	3/31/2016	3/31/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605474	92108	E	MB	P	2"		Less than or equal to 60	Code 1	B	3/3/2016	3/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605477	92014	N	DB	P	1"		Less than or equal to 60	Code 1	B	3/3/2016	3/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605560	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/4/2016	3/4/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605591	92057	N	MB	P	2"		Less than or equal to 60	Code 1	B	3/6/2016	3/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1605887	91950	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/10/2016	3/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1606246	92110	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/15/2016	3/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1606374	92173	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	3/16/2016	3/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623923	92057	N	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	11/12/2016	11/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623761	91910	N	MB	P	1 1/4"	459	Less than or equal to 60	Code 1	B	11/9/2016	11/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623312	92122	N	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	10/29/2016	10/29/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609481	92106	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	4/26/2016	4/26/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1607337	92154	E	MB	P	4"		Less than or equal to 60	Code 1	B	3/30/2016	3/30/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1607547	92173	E	DB	P	2"		Less than or equal to 60	Code 1	B	3/31/2016	3/31/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609827	92107	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	4/29/2016	4/29/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1608547	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/13/2016	4/13/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1608802	92154	E	DB	P	1"		Less than or equal to 60	Code 1	B	4/18/2016	4/18/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1608937	92126	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/19/2016	4/19/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1610621	92123	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/11/2016	5/11/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1610822	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/13/2016	5/13/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609349	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/25/2016	4/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611406	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	5/20/2016	5/20/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609509	92107	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	4/26/2016	4/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609852	92122	N	DB	P	1"		Less than or equal to 60	Code 1	B	5/2/2016	5/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1609917	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/2/2016	5/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1610005	92056	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/3/2016	5/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1610207	92152	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/5/2016	5/5/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620517	92103	O	DB	P	-		Less than or equal to 60	Code 1	B	9/23/2016	9/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618261	91911	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	8/24/2016	8/24/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611027	92081	N	DB	P	1"		Less than or equal to 60	Code 1	B	5/16/2016	5/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611177	92124	E	MB	P	2"	508	Less than or equal to 60	Code 1	B	5/18/2016	5/18/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611415	91950	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/20/2016	5/20/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611435	91901	E	MB	P	2"	268	Less than or equal to 60	Code 1	B	5/21/2016	5/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611566	92107	E	DB	P	1"		Less than or equal to 60	Code 1	B	5/24/2016	5/24/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611737	92007	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/25/2016	5/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611796	92020	E	MB	P	2"	88	Less than or equal to 60	Code 1	B	5/26/2016	5/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1611900	92009	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	5/26/2016	5/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612275	92081	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/2/2016	6/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612408	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/3/2016	6/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612668	92069	E	MB	P	2"		Less than or equal to 60	Code 1	B	6/7/2016	6/7/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612724	92057	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/8/2016	6/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612733	92037	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/8/2016	6/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616456	92026	E	DB	P	1 1/4"	438	Less than or equal to 60	Code 1	B	7/30/2016	7/30/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1613088	92122	E	MB	P	3"		Less than or equal to 60	Code 1	B	6/13/2016	6/13/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1613145	92075	E	DB	P	1"		Less than or equal to 60	Code 1	B	6/14/2016	6/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1613719	92057	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	6/21/2016	6/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614520	92120	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	7/1/2016	7/1/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614105	92008	E	MB	P	3"		Less than or equal to 60	Code 1	B	6/27/2016	6/27/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614954	92054	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	7/11/2016	7/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1614334	91932	N	DB	P	1"		Less than or equal to 60	Code 1	B	6/29/2016	6/29/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1615238	92009	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/14/2016	7/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616324	92111	E	DB	Unknown	3/4"		Less than or equal to 60	Code 1	B	7/28/2016	7/28/2016	1		16.456	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9. Pipe Material of Unknown, will use worst case emission factor for respective Pipe Classification.
1615626	92019	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/20/2016	7/20/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616527	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/1/2016	8/1/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1615981	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	7/25/2016	7/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616026	92126	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/25/2016	7/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616733	91910	N	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/4/2016	8/4/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616255	92111	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/27/2016	7/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616445	92130	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	7/29/2016	7/29/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616460	92102	N	DB	P	1"		Less than or equal to 60	Code 1	B	7/30/2016	7/30/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1612763	92117	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	6/8/2016	6/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1616606	92111	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/2/2016	8/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1617660	92109	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	8/17/2016	8/17/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1617428	92121	E	MB	P	2"		Less than or equal to 60	Code 1	B	8/15/2016	8/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1617654	92130	E	MB	P	2"	199	Less than or equal to 60	Code 1	B	8/17/2016	8/17/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618014	92120	E	DB	P	1"		Less than or equal to 60	Code 1	B	8/22/2016	8/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618024	92130	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/23/2016	8/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618908	92106	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	9/1/2016	9/1/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1618311	92020	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/25/2016	8/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619058	92107	E	MB	P	2"	284	Less than or equal to 60	Code 1	B	9/6/2016	9/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619776	91945	E	MB	PC	1 1/2"	524	Less than or equal to 60	Code 1	B	9/14/2016	9/14/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619780	92115	E	MB	PC	3/4"	9	Less than or equal to 60	Code 1	B	9/15/2016	9/15/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619417	91932	E	DB	P	2"		Less than or equal to 60	Code 1	B	9/9/2016	9/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619506	92007	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/12/2016	9/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619763	92037	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/14/2016	9/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1619779	91950	N	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	9/14/2016	9/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620295	92040	E	MB	P	2"	308	Less than or equal to 60	Code 1	B	9/21/2016	9/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620420	92009	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/22/2016	9/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1621060	92037	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	9/30/2016	9/30/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

ID	Geographic Location	Damage Type	Pipe Classification	Pipe Material	Pipe Size (nominal)	Pipe Age (months)	Pressure (psi)	Leak Grade	Above Ground or Below Ground	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Number of Days Leaking	Emission Factor or Engineering Estimate (Mscf/Day)	Annual Emissions (Mscf)	Explanatory Notes / Comments
1620580	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	9/26/2016	9/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1620768	92008	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	9/28/2016	9/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1621088	92057	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/1/2016	10/1/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1621145	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/3/2016	10/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1621159	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/3/2016	10/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1621319	92105	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	8/23/2016	8/23/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622280	92173	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/17/2016	10/17/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622418	92126	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/18/2016	10/18/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622727	92111	E	MB	P	2"	909	Less than or equal to 60	Code 1	B	10/21/2016	10/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622949	92008	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	10/25/2016	10/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1622994	92111	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	10/25/2016	10/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623106	92008	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/26/2016	10/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623120	91901	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/26/2016	10/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623174	92021	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/27/2016	10/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623179	92124	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/27/2016	10/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623189	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/27/2016	10/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623277	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	10/28/2016	10/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623517	92109	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/3/2016	11/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623566	92111	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/3/2016	11/3/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623677	92024	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/7/2016	11/7/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623748	92037	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/8/2016	11/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623788	92025	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/9/2016	11/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623806	92024	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/9/2016	11/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623890	92020	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/10/2016	11/10/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623836	92024	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/10/2016	11/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623880	92130	E	DB	P	1"	40	Less than or equal to 60	Code 1	B	11/10/2016	11/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623882	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/10/2016	11/10/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623905	92008	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/11/2016	11/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623913	92121	E	DB	P	2"		Less than or equal to 60	Code 1	B	11/11/2016	11/11/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1610374	92009	N	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	5/9/2016	5/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623959	92071	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/14/2016	11/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1623980	92019	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/14/2016	11/14/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624083	92118	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/16/2016	11/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1607122	92075	E	MB	P	1 1/4"	470	Less than or equal to 60	Code 1	B	3/28/2016	3/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624255	92019	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/19/2016	11/19/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624328	92071	N	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/21/2016	11/21/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624151	92130	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/17/2016	11/17/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624330	92064	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/21/2016	11/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624338	92131	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/21/2016	11/21/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624442	92029	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/24/2016	11/24/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624449	92028	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/25/2016	11/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624478	92057	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/26/2016	11/26/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624484	92084	E	DB	PC	1 1/2"		Less than or equal to 60	Code 1	B	11/27/2016	11/27/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624542	92037	E	DB	P	1"		Less than or equal to 60	Code 1	B	11/28/2016	11/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624556	92024	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	11/28/2016	11/28/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624624	92057	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	11/29/2016	11/29/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624560	91977	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/28/2016	11/28/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624807	92122	N	DB	P	1"		Less than or equal to 60	Code 1	B	12/2/2016	12/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624617	91911	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	11/29/2016	11/29/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624827	91935	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/2/2016	12/2/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624743	92129	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	12/1/2016	12/1/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625004	92127	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/6/2016	12/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625051	92056	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	12/6/2016	12/6/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1624853	92116	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	12/2/2016	12/2/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625129	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/7/2016	12/7/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625154	92054	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/8/2016	12/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625203	92123	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/9/2016	12/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625233	92078	E	MB	P	2"	13	Less than or equal to 60	Code 1	B	12/9/2016	12/9/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625262	92105	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/8/2016	12/8/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625265	92129	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/12/2016	12/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625332	92116	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/12/2016	12/12/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625377	92054	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/13/2016	12/13/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625397	92083	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/13/2016	12/13/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625574	92056	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/16/2016	12/16/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625591	92019	N	MB	P	3"		Less than or equal to 60	Code 1	B	12/19/2016	12/19/2016	1		88.191	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625384	92109	E	DB	PC	3/4"		Less than or equal to 60	Code 1	B	12/13/2016	12/13/2016	1		20.460	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625617	92126	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/19/2016	12/19/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625467	92114	E	MB	PC	3"	491	Less than or equal to 60	Code 1	B	12/14/2016	12/14/2016	1		35.931	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625661	92115	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/19/2016	12/19/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625699	92064	E	DB	P	1/2" IPS		Less than or equal to 60	Code 1	B	12/20/2016	12/20/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625825	92054	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/22/2016	12/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625938	92084	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/27/2016	12/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625944	92103	E	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/27/2016	12/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1625958	92054	E	DB	P	1"		Less than or equal to 60	Code 1	B	12/27/2016	12/27/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1626160	92019	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/31/2016	12/31/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1700029	92021	N	DB	P	1/2" CTS		Less than or equal to 60	Code 1	B	12/17/2016	12/17/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601977	92131	N	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/25/2016	1/25/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601789	92124	N	MB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/22/2016	1/22/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601258	92009	E	DB	P			Less than or equal to 60	Code 1	B	1/15/2016	1/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601226	92121	E	DB	P	1 1/4"		Less than or equal to 60	Code 1	B	1/15/2016	1/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.
1601196	92054	N	MB	P	1 1/4"	468	Less than or equal to 60	Code 1	B	1/15/2016	1/15/2016	1		15.890	Emission estimated from population of similar events. See Explanatory Notes/Comments for Distribution Pipeline All Damages in Appendix 9.

Note: Selection for "AH = Above Ground Hazardous, AN = Above Ground Non-Hazardous, and AM = Above Ground Non-Hazardous Minor" Leak Grade were not available as a selection category. Suggest adding this category into the list of Leak Grade.

SDG&E

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.

and In Response to Data Request SDG&E R15-01-008 2017 June Report

Issued: May 16, 2017

Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):
Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**
The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#4):
(6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request SDG&E R15-01-008 2016 May Report.
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.

Response:

Distribution Main & Service Pipeline Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Pipe Size (nominal)	Length of Pipe (ft)	Pressure (psi)	Annual Emissions (Mscf)	Explanatory Notes / Comments
NA	SDGE Territory	NA	10	10,219	320	135.12	Abandoned HP Pipe
NA	SDGE Territory	NA	12	684	320	13.02	Abandoned HP Pipe
NA	SDGE Territory	NA	16	475	320	16.08	Abandoned HP Pipe
NA	SDGE Territory	NA	2	201	320	0.11	Abandoned HP Pipe
NA	SDGE Territory	NA	3	2	320	0.00	Abandoned HP Pipe
NA	SDGE Territory	NA	4	31	320	0.07	Abandoned HP Pipe
NA	SDGE Territory	NA	6	56	320	0.27	Abandoned HP Pipe
NA	SDGE Territory	NA	8	5	320	0.04	Abandoned HP Pipe
NA	SDGE Territory	NA	1 1/2	4,669	320	1.39	Abandoned MP Pipe
NA	SDGE Territory	NA	1 1/4	1,255	55	0.05	Abandoned MP Pipe
NA	SDGE Territory	NA	1	1,718	55	0.04	Abandoned MP Pipe
NA	SDGE Territory	NA	1	3	55	0.00	Abandoned MP Pipe
NA	SDGE Territory	NA	2	9,816	55	1.01	Abandoned MP Pipe
NA	SDGE Territory	NA	2	38,528	55	3.98	Abandoned MP Pipe
NA	SDGE Territory	NA	3	151	55	0.04	Abandoned MP Pipe
NA	SDGE Territory	NA	3	15,576	55	3.62	Abandoned MP Pipe
NA	SDGE Territory	NA	4	3,870	55	1.60	Abandoned MP Pipe
NA	SDGE Territory	NA	4	1,261	55	0.52	Abandoned MP Pipe
NA	SDGE Territory	NA	6	9	55	0.01	Abandoned MP Pipe
NA	SDGE Territory	NA	1 1/2	581	55	0.03	Abandoned MP Service
NA	SDGE Territory	NA	1 1/4	218	55	0.01	Abandoned MP Service
NA	SDGE Territory	NA	1 1/4	1,944	55	0.08	Abandoned MP Service
NA	SDGE Territory	NA	1	1,474	55	0.04	Abandoned MP Service
NA	SDGE Territory	NA	1	1,914	55	0.05	Abandoned MP Service
NA	SDGE Territory	NA	1/2	8	55	0.00	Abandoned MP Service
NA	SDGE Territory	NA	1/2	48,785	55	0.31	Abandoned MP Service
NA	SDGE Territory	NA	2	71	55	0.01	Abandoned MP Service
NA	SDGE Territory	NA	2	198	55	0.02	Abandoned MP Service
NA	SDGE Territory	NA	3/4	24,294	55	0.35	Abandoned MP Service
NA	SDGE Territory	276	NA	NA	NA	0.74	Distribution Odor Intensity Tests
					Sum Total	**178.61**	

SDG&E

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.

and In Response to Data Request SDG&E R15-01-008 2017 June Report

Issued: May 16, 2017

Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):

Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**

The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#4):

(6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request SDG&E R15-01-008 2016 May Report

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

Sum Total 0

SDG&E

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.

and In Response to Data Request SDG&E R15-01-008 2017 June Report

Issued: May 16, 2017

Appendix 4 Rev. 5/16/17

Pursuant to SB 1371, Leno - Natural gas: leakage abatement, the California Public Utilities Commission (CPUC) requests that the following information be transmitted to the CPUC and the State Air Resources Board (ARB):
Note - Definitions in Data Request SDG&E R15-01-008 **2017 June Report**
The following question in the above mentioned data request is answered using the spreadsheets in this Appendix (#4)

(2) A List of new graded gas leaks discovered, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, by grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered and annual volume of gas leaked for each, by month, from January 1st through December 31st of the previous calendar year.

(3) List of graded gas leaks repaired, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, date of repair, annual volume of gas leaked for each and the number of days from the time the leak was discovered until the date of repair.

(4) List of ALL open graded leaks, regardless of when they were found, tracked by geographic location in a Geographic Information System (GIS) or best equivalent, that are being monitored or are scheduled to be repaired, by month, from January 1st through December 31st of the previous calendar year. Include the grade, component or equipment, pipe size, schedule and material, pressure, age, date discovered, scheduled date of repair, and annual volume of methane leaked for each.

(6) Calculable or estimated emissions and non-graded gas leaks, as defined in Data Request SDG&E R15-01-008 2016 May Report

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 captured in this tab.

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

Note: No Component Leaks

Sum total **0**