

November 2024

PORTLAND PIPE LINE CORPORATION

Chapter 171: Control of Petroleum Storage Facilities Fenceline Monitoring Quarterly Report: 2024 Quarter 3

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Begin Date:	7/17/2024	End Date:	7/31/2024	Start Time:	10:53 a.m. - 12:19 p.m.	End Time:	9:27 a.m. - 10:34 a.m.				
Avg Temp. (°F):	70.2	Avg. Bar. Pressure (in):	30.0	Avg. Wind Speed (mph):	7.1	Avg. Wind Direction:	197.1				
Shelter Number	Sample Type	Benzene		Ethylbenzene		Xylene (m/p)		Xylene (o)		Toluene	
		Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)
1	Sample	0.820	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.806	0.241
1	Blank	0.187*	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.241*	0.241
2	Sample	0.563	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.241*	0.241
2	Duplicate	0.436	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.241*	0.241
3	Sample	0.594	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.784	0.241
4	Sample	0.528	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.812	0.241
5	Sample	0.628	0.188	0.273*	0.273	0.309	0.273	0.273*	0.273	0.990	0.242
6	Sample	0.730	0.188	0.273*	0.273	0.284	0.273	0.273*	0.273	1.05	0.242
7	Sample	0.592	0.187	0.273*	0.273	0.550	0.273	0.273*	0.273	0.945	0.241
8	Sample	0.525	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.241*	0.241
8	Duplicate	0.448	0.187	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.241*	0.241
9	Sample	1.51	0.186	0.272*	0.272	0.426	0.272	0.272*	0.272	1.38	0.240
10	Sample	1.62	0.186	0.272*	0.272	0.272*	0.272	0.272*	0.272	1.21	0.240
11	Sample	1.01	0.187	0.272*	0.272	0.548	0.272	0.272*	0.272	0.918	0.241
12	Sample	0.857	0.187	0.272*	0.272	0.272*	0.272	0.272*	0.272	0.706	0.241
13	Sample	0.711	0.187	0.272*	0.272	0.272*	0.272	0.272*	0.272	0.733	0.241

* Results were non-detectable, and are being reported at the MDL in accordance with Chapter 171, Section 8.E

Location	Latitude	Longitude
Shelter 1	43.625044°	-70.268206°
Shelter 2	43.624461°	-70.269444°
Shelter 3	43.624128°	-70.272269°
Shelter 4	43.625869°	-70.273467°
Shelter 5	43.627444°	-70.274175°
Shelter 6	43.628351°	-70.272082°
Shelter 7	43.629353°	-70.270966°
Shelter 8	43.62845°	-70.269547°
Shelter 9	43.628232°	-70.267221°
Shelter 10	43.628461°	-70.265494°
Shelter 11	43.627796°	-70.263879°
Shelter 12	43.625964°	-70.263686°
Shelter 13	43.625017°	-70.265767°
KPVM Met Station	43.642222°	-70.304444°

Begin Date:	7/31/2024	End Date:	8/14/2024	Start Time:	9:29 a.m. - 10:35 a.m.	End Time:	9:33 a.m. - 10:45 a.m.				
Avg Temp. (°F):	70.7	Avg. Bar. Pressure (in):	29.9	Avg. Wind Speed (mph):	6.0	Avg. Wind Direction:	165.2				
Shelter Number	Sample Type	Benzene		Ethylbenzene		Xylene (m/p)		Xylene (o)		Toluene	
		Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)
1	Sample	0.882	0.186	0.271*	0.271	0.371	0.271	0.271*	0.271	0.847	0.240
1	Blank	0.186*	0.186	0.271*	0.271	0.271*	0.271	0.271*	0.271	0.240*	0.240
2	Sample	0.629	0.186	0.271*	0.271	0.357	0.271	0.271*	0.271	0.800	0.240
2	Duplicate	0.606	0.186	0.271*	0.271	0.355	0.271	0.271*	0.271	0.860	0.240
3	Sample	0.512	0.186	0.271*	0.271	0.338	0.271	0.271*	0.271	0.752	0.240
4	Sample	0.536	0.186	0.271*	0.271	0.497	0.271	0.271*	0.271	0.931	0.240
5	Sample	0.493	0.186	0.271*	0.271	0.365	0.271	0.271*	0.271	0.904	0.240
6	Sample	0.703	0.186	0.271*	0.271	0.341	0.271	0.271*	0.271	0.919	0.240
7	Sample	0.536	0.186	0.271*	0.271	0.428	0.271	0.271*	0.271	1.01	0.240
8	Sample	0.628	0.186	0.271*	0.271	0.402	0.271	0.271*	0.271	0.872	0.240
8	Duplicate	0.730	0.186	0.271*	0.271	0.419	0.271	0.271*	0.271	1.03	0.240
9	Sample	1.25	0.186	0.271*	0.271	0.597	0.271	0.271*	0.271	1.24	0.240
10	Sample	1.33	0.186	0.271*	0.271	0.883	0.271	0.311	0.271	1.68	0.240
11	Sample	1.02	0.186	0.271*	0.271	0.549	0.271	0.271*	0.271	1.13	0.240
12	Sample	0.843	0.186	0.271*	0.271	0.366	0.271	0.271*	0.271	0.941	0.240
13	Sample	0.714	0.186	0.271*	0.271	0.367	0.271	0.271*	0.271	0.809	0.240

* Results were non-detectable, and are being reported at the MDL in accordance with Chapter 171, Section 8.E

Location	Latitude	Longitude
Shelter 1	43.625044°	-70.268206°
Shelter 2	43.624461°	-70.269444°
Shelter 3	43.624128°	-70.272269°
Shelter 4	43.625869°	-70.273467°
Shelter 5	43.627444°	-70.274175°
Shelter 6	43.628351°	-70.272082°
Shelter 7	43.629353°	-70.270966°
Shelter 8	43.62845°	-70.269547°
Shelter 9	43.628232°	-70.267221°
Shelter 10	43.628461°	-70.265494°
Shelter 11	43.627796°	-70.263879°
Shelter 12	43.625964°	-70.263686°
Shelter 13	43.625017°	-70.265767°
KPVM Met Station	43.642222°	-70.304444°

Begin Date:	8/14/2024	End Date:	8/28/2024	Start Time:	9:35 a.m. - 10:46 a.m.	End Time:	9:16 a.m. - 10:28 a.m.				
Avg Temp. (°F):	65.6	Avg. Bar. Pressure (in):	30.0	Avg. Wind Speed (mph):	5.8	Avg. Wind Direction:	190.6				
Shelter Number	Sample Type	Benzene		Ethylbenzene		Xylene (m/p)		Xylene (o)		Toluene	
		Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)
1	Sample	0.778	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.21	0.241
1	Blank	0.187*	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.241*	0.241
2	Sample	0.875	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.971	0.241
2	Duplicate	0.807	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.13	0.241
3	Sample	0.568	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.914	0.241
4	Sample	0.985	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.985	0.241
5	Sample	0.889	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.20	0.241
6	Sample	0.823	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.08	0.241
7	Sample	0.777	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.16	0.241
8	Sample	0.836	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	1.10	0.241
9	Sample	1.29	0.187	0.587*	0.587	1.06	0.591	0.594*	0.594	1.94	0.241
10	Sample	1.50	0.187	0.587*	0.587	0.724	0.591	0.594*	0.594	1.47	0.241
11	Sample	0.847	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.873	0.241
12	Sample	1.45	0.187	0.587*	0.587	0.591*	0.591	0.594*	0.594	0.992	0.241
13	Sample	0.741	0.187	0.587*	0.587	0.592	0.591	0.594*	0.594	1.02	0.241

* Results were non-detectable, and are being reported at the MDL in accordance with Chapter 171, Section 8.E

Note: Only one duplicate sample is included in this sampling period and those moving forward pursuant to EPA's alternative method number ALT-122, as specified in EPA's approval letter dated September 11, 2017.

Location	Latitude	Longitude
Shelter 1	43.625044°	-70.268206°
Shelter 2	43.624461°	-70.269444°
Shelter 3	43.624128°	-70.272269°
Shelter 4	43.625869°	-70.273467°
Shelter 5	43.627444°	-70.274175°
Shelter 6	43.628351°	-70.272082°
Shelter 7	43.629353°	-70.270966°
Shelter 8	43.62845°	-70.269547°
Shelter 9	43.628232°	-70.267221°
Shelter 10	43.628461°	-70.265494°
Shelter 11	43.627796°	-70.263879°
Shelter 12	43.625964°	-70.263686°
Shelter 13	43.625017°	-70.265767°
KPWM Met Station	43.642222°	-70.304444°

Begin Date:	8/28/2024	End Date:	9/11/2024	Start Time:	9:18 a.m. - 10:29 a.m.	End Time:	9:12 a.m. - 10:31 a.m.				
Avg Temp. (°F):	63.0	Avg. Bar. Pressure (in):	30.1	Avg. Wind Speed (mph):	7.7	Avg. Wind Direction:	237.2				
Shelter Number	Sample Type	Benzene		Ethylbenzene		Xylene (m/p)		Xylene (o)		Toluene	
		Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)
1	Sample	0.803	0.188	0.273*	0.273	0.541	0.273	0.273*	0.273	1.66	0.242
1	Blank	0.188*	0.188	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.242*	0.242
2	Sample	0.708	0.188	0.273*	0.273	0.4	0.273	0.273*	0.273	0.874	0.242
3	Sample	0.747	0.188	0.273*	0.273	0.547	0.273	0.273*	0.273	1.35	0.242
4	Sample	0.535	0.188	0.273*	0.273	0.401	0.273	0.273*	0.273	1.12	0.242
5	Sample	0.561	0.188	0.273*	0.273	0.759	0.273	0.273*	0.273	2.73	0.242
6	Sample	0.593	0.188	0.273*	0.273	0.486	0.273	0.273*	0.273	1.12	0.242
7	Sample	0.723	0.188	0.273*	0.273	0.433	0.273	0.273*	0.273	1.74	0.242
8	Sample	0.648	0.188	0.273*	0.273	0.462	0.273	0.273*	0.273	1.14	0.242
8	Duplicate	0.735	0.188	0.273*	0.273	0.412	0.273	0.273*	0.273	1.13	0.242
9	Sample	1.21	0.188	0.273*	0.273	0.664	0.273	0.273*	0.273	3.4	0.242
10	Sample	1.34	0.188	0.273*	0.273	0.578	0.273	0.273*	0.273	1.29	0.242
11*	Sample	1.16	0.205	0.273*	0.299	0.452	0.299	0.273*	0.299	1.41	0.264
12	Sample	0.876	0.188	0.273*	0.273	0.364	0.273	0.273*	0.273	0.908	0.242
13	Sample	0.907	0.188	0.273*	0.273	0.288	0.273	0.273*	0.273	0.863	0.242

* Results were non-detectable, and are being reported at the MDL in accordance with Chapter 171, Section 8.E

* The sample associated with Shelter 11 was installed late due to unsafe conditions (stinging insect nest under shelter, discovered after sample recovery on 8/28/2024), thus this single sample had a start date and time of 8/29/2024 at 2:48 pm.

Location	Latitude	Longitude
Shelter 1	43.625044°	-70.268206°
Shelter 2	43.624461°	-70.269444°
Shelter 3	43.624128°	-70.272269°
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Shelter 10	43.628461°	-70.265494°
Shelter 11	43.627796°	-70.263879°
Shelter 12	43.625964°	-70.263686°
Shelter 13	43.625017°	-70.265767°
KPWM Met Station	43.642222°	-70.304444°

Begin Date:	9/11/2024	End Date:	9/25/2024	Start Time:	9:15 a.m. - 10:32 a.m.	End Time:	9:25 a.m. - 10:37 a.m.				
Avg Temp. (°F):	62.0	Avg. Bar. Pressure (in):	30.2	Avg. Wind Speed (mph):	6.9	Avg. Wind Direction:	141.2				
Shelter Number	Sample Type	Benzene		Ethylbenzene		Xylene (m/p)		Xylene (o)		Toluene	
		Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)	Conc. (µg/m ³)	MDL (µg/m ³)
1	Sample	0.869	0.188	0.273*	0.273	0.447	0.273	0.273*	0.273	1.18	0.242
1	Blank	0.188*	0.188	0.273*	0.273	0.273*	0.273	0.273*	0.273	0.242*	0.242
2	Sample	0.972	0.188	0.273*	0.273	0.472	0.273	0.273*	0.273	1.11	0.242
3	Sample	0.649	0.188	0.273*	0.273	0.599	0.273	0.273*	0.273	1.19	0.242
4	Sample	0.801	0.188	0.273*	0.273	0.628	0.273	0.273*	0.273	1.26	0.242
5	Sample	0.733	0.188	0.365	0.273	0.814	0.273	0.277	0.273	1.61	0.242
6	Sample	0.743	0.188	0.316	0.273	0.887	0.273	0.291	0.273	1.84	0.242
7	Sample	0.727	0.188	0.273*	0.273	0.679	0.273	0.273*	0.273	1.54	0.242
8	Sample	0.712	0.188	0.273*	0.273	0.532	0.273	0.273*	0.273	1.19	0.242
8	Duplicate	0.741	0.188	0.273*	0.273	0.446	0.273	0.273*	0.273	1.18	0.242
9	Sample	1.10	0.188	0.273*	0.273	0.571	0.273	0.273*	0.273	1.35	0.242
10	Sample	1.15	0.188	0.273*	0.273	0.567	0.273	0.273*	0.273	1.44	0.242
11	Sample	0.837	0.188	0.273*	0.273	0.394	0.273	0.273*	0.273	1.07	0.242
12	Sample	0.624	0.188	0.273*	0.273	0.426	0.273	0.273*	0.273	0.932	0.242
13	Sample	0.759	0.188	0.273*	0.273	0.418	0.273	0.273*	0.273	1.00	0.242

* Results were non-detectable, and are being reported at the MDL in accordance with Chapter 171, Section 8.E

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Shelter 1	43.625044°	-70.268206°
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