

Addition of WRAP 2006 Phase III Emission Sources to the 2014 Utah Air Agencies O&G Emissions Inventory

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Utah Division of Air Quality (DAQ) in collaboration with EPA and the Ute Tribe recently developed the Utah Air Agencies 2014 Oil and Gas Emissions Inventory. This inventory covered a variety of oil and gas equipment types and emission sources. However, there were several equipment types and sources that were not easily collect through this inventory effort. Many of these missing equipment types were previously collected through the 2006 WRAP Phase III emissions inventory project. To help ensure the Utah Air Agencies 2014 Oil and Gas Emissions Inventory is as complete as possible, UDAQ decided to supplement the recent inventory effort with data collected previously for the WRAP inventory but which had been updated and projected with 2014 oil and gas production and activity data. The equipment types added to the Utah Air Agencies 2014 Oil and Gas Emissions Inventory included the following: condensate tank flaring, venting (blowdowns, initial completions, and recompletions), gas plant truck loading, venting (compressor startup and shutdown), dehydrator flaring, and initial completion flaring. The additional emissions added to the inventory are shown in the table below.

2014 WRAP Projection Estimates												
Description	NOx (tons/year)		VOCs (tons/year)		CO (tons/year)		SOx (tons/year)		PM10 (tons/year)		PM2.5 (tons/year)	
	Duchesne	Uintah	Duchesne	Uintah	Duchesne	Uintah	Duchesne	Uintah	Duchesne	Uintah	Duchesne	Uintah
Condensate tank flaring	0.16	0.32	0.00	0.00	0.89	1.72	0.00	0.00	0.00	0.00		
Venting - blowdowns	0.00	0.00	60.09	350.50	0.00	0.00	0.00	0.00	0.00	0.00		
Venting - initial completions	0.00	0.00	41.92	69.47	0.00	0.00	0.00	0.00	0.00	0.00		
Venting - recompletions	0.00	0.00	6.48	10.73	0.00	0.00	0.00	0.00	0.00	0.00		
Gas Plant Truck Loading	0.00	0.00	0.15	3.62	0.00	0.00	0.00	0.00	0.00	0.00		
Venting - Compressor Startup	0.00	0.00	169.81	990.51	0.00	0.00	0.00	0.00	0.00	0.00		
Venting - Compressor Shutdown	0.00	0.00	160.95	938.84	0.00	0.00	0.00	0.00	0.00	0.00		
Dehydrator Flaring	0.02	0.11	0.00	0.00	0.10	0.59	0.00	0.00	0.00	0.00		
Initial completion Flaring	0.20	0.12	0.00	0.00	1.08	0.66	0.00	0.00	0.00	0.00		