Appendix C

VOC Speciation Profiles for O&G Sources

VOC Speciation Profiles for O&G Sources

Table C1. WRAP Phase III Speciation Code by Basin.

Basin	County	Process	Profile Code
Uinta	All basin counties	Gas Composition at CBM Wells	UNT01
Uinta	All basin counties	Gas Composition at Conventional Wells	UNT02
Uinta	All basin counties	Flashing Gas Composition for Oil	UNT03
Uinta	All basin counties	Flashing Gas Composition for Condensate	UNT04
Piceance	All basin counties	Gas Composition at Conventional Wells	PNC01
Piceance	All basin counties	Gas Composition at Oil Wells	PNC02
Piceance	All basin counties	Flashing Gas Composition for Condensate	PNC03
Denver-Julesburg	All basin counties	Flashing Gas Composition for Condensate	DJ01

Table C2. WRAP Phase III VOC CB-05 Speciation Profiles.

Profile Code	Model Species						
	CH_4	ETHA	MEOH	PAR	TOL	UNR	XYL
DJ01	0.1049	0.1695		0.5718	0.0028	0.1504	0.0006
PNC01	0.8103	0.1007		0.0671	0.0009	0.0208	0.0002
PNC02	0.2590	0.0887		0.5493	0.0004	0.1025	0.0001
PNC03	0.1315	0.1630		0.5644	0.0056	0.1342	0.0013
UNT01	0.9812	0.0112		0.0053		0.0024	
UNT02	0.5470	0.1192	0.0002	0.2714	0.0035	0.0570	0.0017
UNT03	0.0001	0.0006		0.8574	0.0689	0.0300	0.0430
UNT04	0.0318	0.0285		0.8920	0.0003	0.0473	0.0001

Table C3. Southwest Wyoming Speciation Profile Code by Process by County.

Basin	O&G Field / County	O&G production –Processes	Profile Code
SW Wyoming	Carbon	flash	CBN01
SW Wyoming	Carbon	fugitive - sales	CBN02
SW Wyoming	Carbon	fugitive - produced	CBN03
SW Wyoming	Carbon	fugitive - condensate	CBN04
SW Wyoming	Carbon	pneumatic pumps	CBN05
SW Wyoming	Carbon	well venting	CBN06
SW Wyoming	Jonah	flash	JON01
SW Wyoming	Jonah	fugitives	JON02
SW Wyoming	Jonah	pneumatic pumps	JON05
SW Wyoming	Jonah	well venting	JON06
SW Wyoming	Lincoln	flash	LNC01
SW Wyoming	Lincoln	fugitive - sales	LNC02
SW Wyoming	Lincoln	fugitive - produced	LNC03
SW Wyoming	Lincoln	fugitive - condensate	LNC04
SW Wyoming	Lincoln	pneumatic pumps	LNC05
SW Wyoming	Lincoln	well venting	LNC06
SW Wyoming	Pinedale	flash	PND01
SW Wyoming	Pinedale	fugitives	PND02
SW Wyoming	Pinedale	pneumatic pumps	PND05
SW Wyoming	Pinedale	well venting	PND06
SW Wyoming	Sublette	flash	SBL01
SW Wyoming	Sublette	fugitive - sales	SBL02
SW Wyoming	Sublette	fugitive - produced	SBL03
SW Wyoming	Sublette	fugitive - condensate	SBL04
SW Wyoming	Sublette	pneumatic pumps	SBL05
SW Wyoming	Sublette	well venting	SBL06
SW Wyoming	Sweetwater - East	flash	SWE01
SW Wyoming	Sweetwater - East	fugitive - sales	SWE02
SW Wyoming	Sweetwater - East	fugitive - produced	SWE03
SW Wyoming	Sweetwater - East	fugitive - condensate	SWE04
SW Wyoming	Sweetwater - East	pneumatic pumps	SWE05
SW Wyoming	Sweetwater - East	well venting	SWE06
SW Wyoming	Sweetwater - West	flash	SWW01
SW Wyoming	Sweetwater - West	fugitive - sales	SWW02
SW Wyoming	Sweetwater - West	fugitive - produced	SWW03
SW Wyoming	Sweetwater - West	fugitive - condensate	SWW04
SW Wyoming	Sweetwater - West	pneumatic pumps	SWW05
SW Wyoming	Sweetwater - West	well venting	SWW06
SW Wyoming	Uinta	flash	UNT01
SW Wyoming	Uinta	fugitive - sales	UNT02
SW Wyoming	Uinta	fugitive - produced	UNT03
SW Wyoming	Uinta	fugitive - condensate	UNT04
SW Wyoming	Uinta	pneumatic pumps	UNT05
SW Wyoming	Uinta	well venting	UNT06

Table C4. Southwest Wyoming VOC CB-05 Speciation Profiles.

	Model Species					
Profile Code	CH_4	ETHA	PAR	TOL	UNR	XYL
CBN01	0.1397	0.1025	0.6374	0.0090	0.1066	0.0048
CBN02	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
CBN03	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
CBN04	0.1400	0.1015	0.6393	0.0090	0.1055	0.0047
CBN05	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
CBN06	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
JON01	0.2372	0.1141	0.5530	0.0037	0.0842	0.0078
JON02	0.5389	0.0583	0.3373	0.0180	0.0189	0.0287
JON05	0.8146	0.0878	0.0744	0.0012	0.0215	0.0006
JON06	0.8146	0.0878	0.0744	0.0012	0.0215	0.0006
LNC01	0.1545	0.1512	0.5528	0.0146	0.1198	0.0071
LNC02	0.8045	0.0902	0.0812		0.0241	
LNC03	0.8045	0.0902	0.0812		0.0241	
LNC04	0.1400	0.1015	0.6393	0.0090	0.1055	0.0047
LNC05	0.8045	0.0902	0.0812		0.0241	
LNC06	0.8045	0.0902	0.0812		0.0241	
PND01	0.2527	0.1272	0.5170	0.0116	0.0854	0.0061
PND02	0.5517	0.1076	0.2759	0.0035	0.0594	0.0019
PND05	0.8146	0.0878	0.0744	0.0012	0.0215	0.0006
PND06	0.7743	0.0990	0.0953	0.0010	0.0298	0.0005
SBL01	0.1545	0.1512	0.5528	0.0146	0.1198	0.0071
SBL02	0.8045	0.0902	0.0812		0.0241	
SBL03	0.8045	0.0902	0.0812		0.0241	
SBL04	0.1555	0.1127	0.6547	0.0100	0.0618	0.0053
SBL05	0.8045	0.0902	0.0812		0.0241	
SBL06	0.8045	0.0902	0.0812		0.0241	
SWE01	0.1397	0.1025	0.6374	0.0090	0.1066	0.0048
SWE02	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
SWE03	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
SWE04	0.1400	0.1015	0.6393	0.0090	0.1055	0.0047
SWE05	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
SWE06	0.7339	0.1103	0.1162	0.0009	0.0382	0.0005
SWW01	0.1545	0.1512	0.5528	0.0146	0.1198	0.0071
SWW02	0.8045	0.0902	0.0812		0.0241	
SWW03	0.8045	0.0902	0.0812		0.0241	
SWW04	0.1400	0.1015	0.6393	0.0090	0.1055	0.0047
SWW05	0.8045	0.0902	0.0812		0.0241	
SWW06	0.8045	0.0902	0.0812		0.0241	
UNT01	0.1545	0.1512	0.5528	0.0146	0.1198	0.0071
UNT02	0.8045	0.0902	0.0812		0.0241	
UNT03	0.8045	0.0902	0.0812		0.0241	
UNT04	0.1400	0.1015	0.6393	0.0090	0.1055	0.0047
UNT05	0.8045	0.0902	0.0812		0.0241	
UNT06	0.8045	0.0902	0.0812		0.0241	