Surface Water Sample Results

Location	Date	TPH (GRO) (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total-Xylene (µg/L)	Location Notes
	Ecological Screening Value (Acute)[1]	NE	700	560	550	240	
	Ecological Screening Value (Chronic)[1]	114	160	62	61	27	
	Consumption of Fish[2]	NE	15.47	8,722.74	1,244.44	NE	
PP-SW-02	9/16/2016	**0.86**	**100**	**150**	**1.3**	**150**	Pond 3 inside the welr
	9/17/2016	-	-	-	-	-	
	9/18/2016	**0.68**	**76**	**110**	**1.2**	**120**	
	9/19/2016	**0.5**	**56**	**80**	**0.89 J**	**92**	
PP-SW-03	9/16/2016	**0.75**	**85**	**130**	**1.2**	**130**	Pond 3 outside the welr
	9/17/2016	-	-	-	-	-	
	9/18/2016	**0.74**	**86**	**130**	**1.4**	**130**	
	9/19/2016	**0.44**	**48**	**65**	**0.76 J**	**83**	
PP-SW-03D	9/16/2016	**0.79**	**92**	**140**	**1.2**	**140**	Pond 3 outside the welr
	9/17/2016	-	-	-	-	-	
	9/18/2016	**0.69**	**80**	**120**	**1.2**	**130**	
	9/19/2016	**-**	**-**	**-**	**-**	**-**	
PP-SW-04	9/16/2016	0.1U	1.0U	5.0U	1.0U	5.0U	Peel Creek, upstream of confluence with Pond 3 drainage feature
	9/17/2016	-	-	-	-	-	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
PP-SW-07	9/16/2016	-	-	-	-	-	Cahaba River upstream
	9/17/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	-	-	-	-	-	
PP-SW-09	9/16/2016	-	-	-	-	-	Cahaba River downstream
	9/17/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	-	-	-	-	-	
PP-SW-12	9/16/2016	-	-	-	-	-	Downstream of conlfuence with Pond 3 and additional drainage feature upstream of sample location PP-SW-13
	9/17/2016	-	-	-	-	-	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
PP-SW-13	9/16/2016	**0.07 J**	1.0U	5.0U	1.0U	5.0U	Downstream of conlfuence with Pond 3 drainage feature
	9/17/2016	-	-	-	-	-	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	0.1U	**1.0**	5.0U	1.0U	5.0U	
PP-SW-14	9/16/2016	**0.064 J**	1.0U	5.0U	1.0U	5.0U	Cahaba River at confluence of Peel Creek and Cahaba River
	9/17/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
PP-SW-15[3]	9/16/2016	**0.67**	**80**	**120**	**1.0**	**120**	Pond 3 drainage pipe
	9/17/2016	-	-	-	-	-	
	9/18/2016	-	-	-	-	-	
	9/19/2016	-	-	-	-	-	

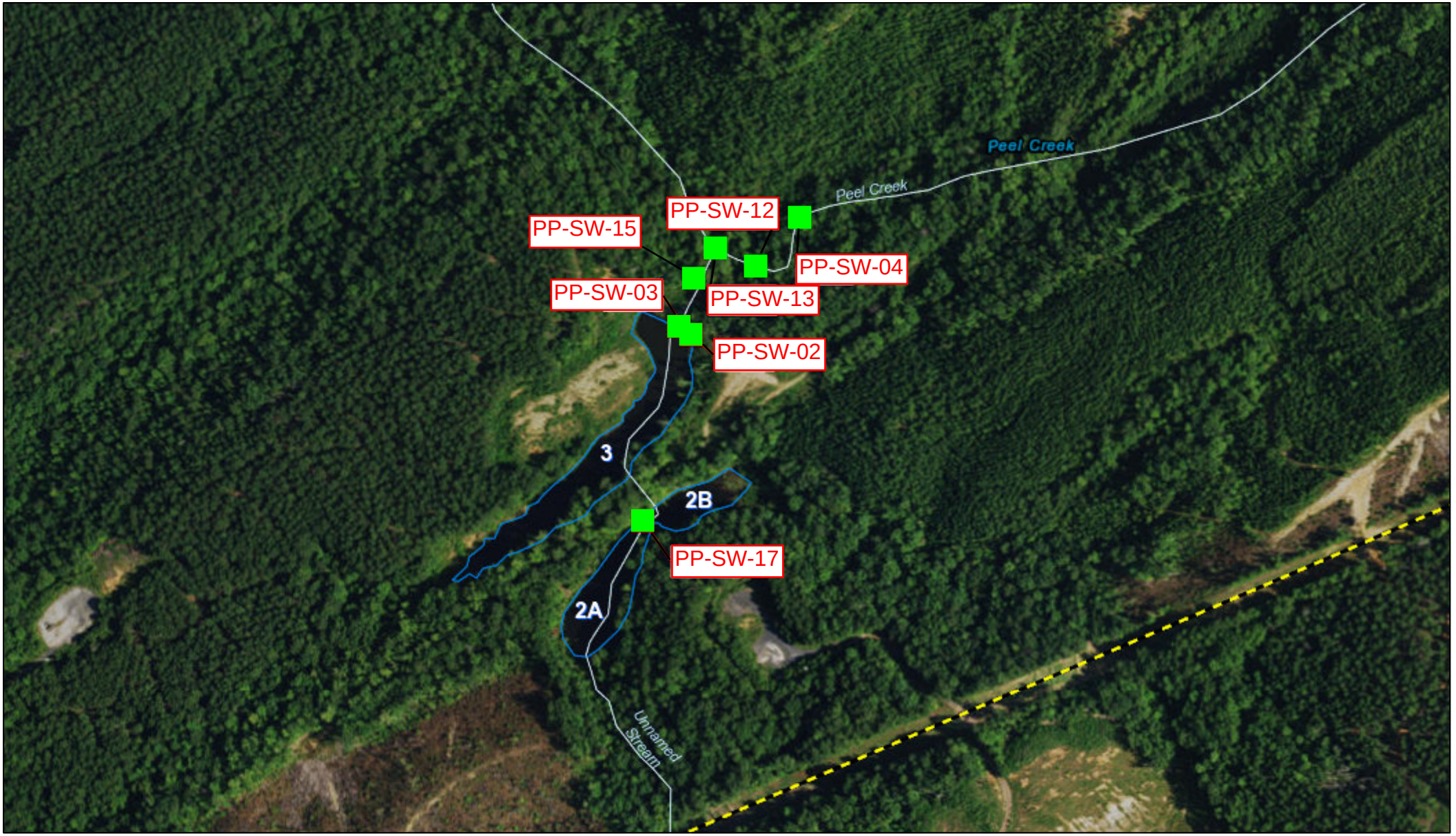
Surface Water Sample Results

Location	Date	TPH (GRO) (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total-Xylene (µg/L)	Location Notes
	Ecological Screening Value (Acute)[1]	NE	700	560	550	240	
	Ecological Screening Value (Chronic)[1]	114	160	62	61	27	
	Consumption of Fish[2]	NE	15.47	8,722.74	1,244.44	NE	
PP-SW-16	9/16/2016	-	-	-	-	-	Cahaba River approximately 4.75 miles downstream of the Cahaba/Peel Creek confluence
	9/17/2016	-	-	-	-	-	
	9/18/2016	0.1U	1.0U	5.0U	1.0U	5.0U	
	9/19/2016	-	-	-	-	-	
PP-SW-17[4]	9/16/2016	-	-	-	-	-	Pond 2
	9/17/2016	-	-	-	-	-	
	9/18/2016	-	-	-	-	-	
	9/19/2016	**1,600**	**2,200**	**8,000**	**1,600**	**14,000**	

Notes:

[1]	Ecological screening values were provided by EPA SSS in an email dated September 16, 2016.
[2]	ADEM provided State comparison criteria for the protection of human health in the water in an email dated September 19, 2016.
[3]	On September 17, 2016, CPC installed a plug in the 6-inch pipe to help reduce the potential of petroleum impacted water being released to Peel Creek.
[4]	Pond 2 was not sampled until September 19, 2016 because product previously covered the majority of the pond and prevented sampling access due to health and safety concerns related to hazardous atmospheres.
ADEM	Alabama Department of Environmental Management
CPC	Colonial Pipeline Company
D	Duplicate
EPA	U.S. Environmental Protection Agency
GRO	Gasoline range organics
J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
mg/L	milligrams per liter
NE	Not established
PP	Pelham pipeline
SSS	Scientific Support Section
SW	Surface water
TPH	Total petroleum hydrocarbons
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
µg/L	micrograms per liter
-	The sample at the associated location was not collected on that particular date.
	Constituent exceeds the chronic ecological screening value
	Constituent exceeds the consumption of fish screening value.
	Constituent exceeds the both the chronic and acute ecological screening value as well as the consumption of fish screening value.
BOLD	Constituent detected above the laboratroy reporting limit

Pond 2, Pond 3, and Peel Creek Surface Water Sample Locations



September 22, 2016

Surface Water Sampling

- Split Sample Locations
- Retention Ponds
- Colonial Pipeline
- Cahaba River MP

Hydrography

- Water Features
- Cahaba River

1:4,514

0 0.0375 0.075 0.15 mi

0 0.05 0.1 0.2 km

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
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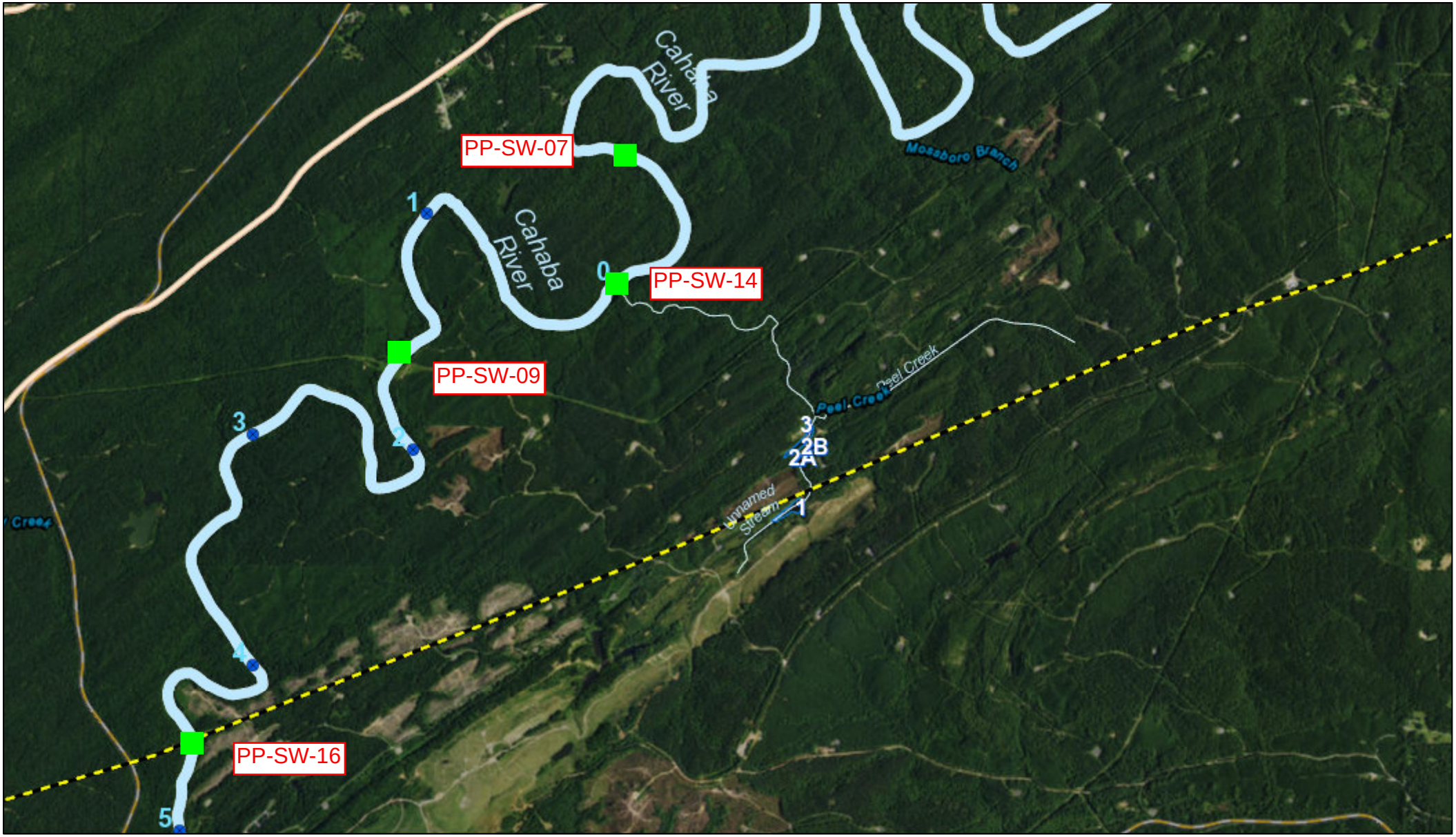
Cahaba River Surface Water Sample Locations



September 22, 2016

- Retention Ponds
- Colonial Pipeline
- Cahaba River MP

Hydrography

- Water Features
- Cahaba River

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
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