## Environmental Monitoring – Multi-City Study Water, Sludge, Sediment, POTW Effluent and Landfill Leachate Samples

## **Results: PFOA**

Results of Duplicate Samples							
						Port St.	Port St.
Sample	Decatur	Cleveland	Mobile	Columbus	Pensacola	Lucie*	Lucie**
	2.14	0.655	0.067	0.139	0.084	0.041	0.043
POTW effluent	2.42	0.674	0.088	0.147	0.090	0.044	0.040
POTW sludge	101	3.11		16.5	2.51		
(dry wt)	244	2.82	NQ	16.3	2.40	NQ	ND
Drinking water				0.026			
influent	ND	ND	ND	NQ	ND	ND	ND
Drinking water				0.025			
treated	ND	ND	ND	0.029	ND	ND	ND
Drinking water				0.026			
tap 1	ND	ND	ND	NQ	ND	ND	ND
Drinking water				0.026			
tap 2	not analyzed	ND	ND	NQ	ND	ND	ND
Drinking water				0.025			
tap 3	not analyzed	ND	ND	NQ	ND	ND	ND
Landfill	48.1			NQ		0.953	1.03
leachate	46.8	not collected	ND	0.028	ND	0.939	1.02
Surface water	NQ	NQ	0.026	0.026			
1	ND	ND	0.027	0.026	ND	ND	ND
Surface water	ND		0.054	0.026			
2	NQ	ND	0.060	0.027	ND	NQ	ND
Surface water			0.083				
3	ND	ND	0.083	NQ	ND	ND	ND
Sediment 1	ND					0.370	
(dry wt)	NQ	ND	NQ	ND	ND	0.326	ND
Sediment 2					NQ	0.316	
(dry wt)	NQ	NQ	ND	ND	ND	0.294	ND
Sediment 3						1.68	
(dry wt)	NQ	ND	NQ	ND	ND	1.75	ND
	0.057		NQ			0.737	0.097
Quiet water	0.063	not collected	0.027	ND	ND	0.760	0.097

## Table 4PFOA Concentration, Parts per Billion

\*Data from 1999 sample event

\*\*Data from 2000 sample event. Additional samples in 2001 (not shown) showed similar results.

LOD (Limit of Detection) approximately 0.0075  $\mu$ g/L for water and 0. 80  $\mu$ g/kg for sludge and sediment as received (wet weight)

LOQ (Limit of Quantitation) is 0.025 µg/L for water, 0.2 µg/kg for sludge and sediment as received (wet weight). ND = not detected

NQ = compound detected at a level between the LOD and LOQ

PFOA was found in similar samples in the same cities as PFOS. The concentrations of PFOA were generally lower than those of PFOS, although in some cases the concentrations were similar.