

Data Table 5-25, 2013 Sediment Surveillance-Inorganic Contaminants, Pesticides, and Herbicides

ND = nondetectable or < PQL; PQL = Practical Quantitation Limit

Note: SCDHEC Duplicate Sampling Locations are on Sheet 2

Routine Sediment Sampling Locations

		Locations											
		UTR 4	PQL	BDC	PQL	FMC at 125	PQL	PB	PQL	SC 4	PQL	L3R 2	PQL
Aluminum	mg/kg	7300	28.0	11000	21.0	2300	19.0	5000	25.0	7500	21	2800	16.0
Arsenic	mg/kg	1.40	1.40	3.30	1.00	ND	0.97	ND	1.30	1.20	1.00	ND	0.81
Barium	mg/kg	91.0	3.60	63.0	2.70	16.0	2.50	55.0	3.30	53	2.70	21	2.10
Cadmium	mg/kg	0.37	0.28	ND	0.21	0.23	0.19	ND	0.25	ND	0.21	ND	0.16
Chromium	mg/kg	10.0	0.69	11.0	0.52	4.60	0.49	9.70	0.63	10.0	0.52	7.20	0.41
Copper	mg/kg	4.40	0.69	12.0	0.52	2.40	0.49	3.20	0.63	4.70	0.52	1.20	0.41
Iron	mg/kg	2500	14.0	12000	10.0	1300	9.70	5500	13.0	7300	10.0	2300	8.10
Lead	mg/kg	8.50	1.40	5.20	1.00	3.00	0.97	4.10	1.30	7.70	1.00	12.0	0.81
Magnesium	mg/kg	ND	690	540	520	ND	490	ND	630	ND	520	ND	410
Manganese	mg/kg	30.0	2.10	260	1.60	16.0	1.50	200	1.90	590	1.60	200	1.20
Mercury	mg/kg	ND	0.23	0.53	0.17	ND	0.16	ND	0.22	ND	0.18	ND	0.14
Nickel	mg/kg	9.90	5.50	12.0	4.20	ND	3.90	ND	5.10	ND	4.20	ND	3.20
Selenium	mg/kg	ND	1.40	ND	1.00	ND	0.97	ND	1.30	ND	1.00	ND	0.81
Silver	mg/kg	ND	0.69	0.56	0.52	ND	0.49	ND	0.63	ND	0.52	ND	0.41
Uranium	mg/kg	ND	69.0	72.0	52.0	ND	49.0	ND	63.0	61.0	52	ND	41.0
Zinc	mg/kg	38	6.90	43.0	5.20	24.0	4.90	21.0	6.30	17.0	5.20	11.0	4.10
% Solids	%	34.2	0.00	46.2	0.00	49.3	0.00	37.6	0.00	43.7	0.00	56.7	0.00
Cyanide total	mg/kg	ND	1.50	ND	1.10	ND	1.00	ND	1.30	ND	1.10	ND	0.88

		UTR 1A	PQL	TC 1	PQL	RM 160	PQL	Vog Dis	PQL	RM 118.7	PQL		
Aluminum	mg/kg	8100	51	2300	21.0	8200	17.0	36000	28.0	16000	22.0		
Arsenic	mg/kg	ND	2.50	ND	1.10	0.87	0.83	2.00	1.40	1.80	1.10		
Barium	mg/kg	79.0	6.60	38.0	2.70	68.0	2.20	170	1.80	120	2.80		
Cadmium	mg/kg	ND	0.51	ND	0.21	0.22	0.17	ND	0.28	0.31	0.22		
Chromium	mg/kg	12.0	1.30	4.40	0.53	9.60	0.41	35.0	0.70	19.0	0.54	Location Key	
Copper	mg/kg	6.7	1.30	1.20	0.53	5.80	0.41	20.0	0.70	12.0	0.54	UTR = Upper Three Runs	
Iron	mg/kg	5900	25.0	2300	11.0	9000	8.30	36000	14	15000	11.0	BDC = Beaver Dam Creek	
Lead	mg/kg	13.0	2.50	3.60	1.10	4.40	0.83	13.0	1.40	7.30	1.10	FMC = Fourmile Creek	
Magnesium	mg/kg	ND	1300	ND	530	780	410	3100	350	1800	540	PB = Pen Branch	
Manganese	mg/kg	28.0	3.80	100	1.60	710	1.20	1500	2.10	1200	1.60	SC = Steel Creek	
Mercury	mg/kg	ND	0.43	ND	0.17	ND	0.11	ND	0.11	ND	0.19	L3R = Lower Three Runs	
Nickel	mg/kg	ND	10.0	ND	4.20	3.80	3.30	16.0	5.60	7.60	4.30	TC = Tinker Creek	
Selenium	mg/kg	ND	2.50	ND	1.10	ND	0.83	ND	1.40	ND	1.10	RM = River Mile	
Silver	mg/kg	ND	1.30	ND	0.53	ND	0.41	1.20	0.70	ND	0.54	VOG Dis = Vogtle Discharge	
Uranium	mg/kg	ND	130	10.0	53.0	ND	41.0	160	70.0	67.0	54.0	S qualified	
Zinc	mg/kg	15.0	13.0	ND	5.30	21.0	4.10	59.0	7.00	42.0	5.40		
% Solids	%	18.2	0.00	45.8	0.00	56.3	0.00	68.3	0.00	42.2	0.00		
Cyanide total	mg/kg	ND	2.80	ND	1.10	ND	0.89	ND	0.73	ND	1.20		

Data Table 5-25, 2013 Sediment Surveillance-Inorganic Contaminants, Pesticides, and Herbicides

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Note: Routine Sampling Locations are on Sheet 1
SCDHEC Duplicate Sampling Locations

		U3RM		BDCM		FMC		SCM		L3RM					
		RM 157.4	PQL	RM 152.3	PQL	RM 150.6	PQL	RM 141.5	PQL	RM129.1	PQL	L3R 2	PQL	L3R 2 DUP	PQL
Aluminum	mg/kg	5700	17.0	13000	20.0	4000	14.0	6500	17.0	9400	20	5500	22	5700	22.0
Arsenic	mg/kg	ND	0.87	2.00	1.00	1.20	0.70	ND	0.84	ND	1.00	ND	1.10	ND	1.10
Barium	mg/kg	51	2.30	150	2.60	44.0	1.80	54	2.20	96	2.70	42	2.90	40	2.90
Cadmium	mg/kg	0.17	0.17	0.21	0.20	ND	0.14	ND	0.17	ND	0.20	0.25	0.22	0.22	0.22
Chromium	mg/kg	7.60	0.44	18.0	0.50	6.20	0.35	9.20	0.42	15	0.51	13	0.56	18.0	0.55
Copper	mg/kg	3.30	0.44	12.0	0.50	2.50	0.35	4.90	0.42	7.20	0.51	3.30	0.56	3.20	0.55
Iron	mg/kg	5700	8.70	16000	10.0	5900	7.00	8900	8.40	12000	10	2700	11.0	2800	11.0
Lead	mg/kg	3.20	0.87	8.20	1.00	2.70	0.70	3.30	0.84	5.60	1.00	11	1.10	13.0	1.10
Magnesium	mg/kg	640	440	1600	500	390	350	760	420	1300	510	ND	560	ND	550
Manganese	mg/kg	220	1.30	2600	1.50	380	1.10	300	1.30	1100	1.50	60	1.70	52.0	1.70
Mercury	mg/kg	ND	0.14	ND	0.17	ND	0.12	ND	0.14	ND	0.15	ND	0.19	ND	0.18
Nickel	mg/kg	5.10	3.50	8.20	4.00	ND	2.80	3.40	3.40	5.40	4.1	5.9	4.50	ND	4.40
Selenium	mg/kg	ND	0.87	1.20	1.00	ND	0.70	ND	0.84	ND	1.00	ND	1.10	1.80	1.10
Silver	mg/kg	ND	0.44	ND	0.50	ND	0.35	ND	0.42	ND	0.51	ND	0.56	ND	0.55
Uranium	mg/kg	48	44.0	150	50.0	50.0	35.0	76.0	42	100	51	ND	56.0	ND	55.0
Zinc	mg/kg	24	4.40	47.0	5.00	15.0	3.50	18.0	4.20	37	5.10	24	5.60	24.0	5.50
% Solids	%	56.1	0.00	45.5	0.00	68.2	0.00	56.8	0.00	48.7	0.00	41.6	0.00	43.8	0.00
Cyanide total	mg/kg	ND	0.89	ND	1.10	ND	0.73	ND	0.88	ND	1.0	ND	1.20	ND	1.10

		McQueens Branch		UTR		Basin		Basin		Basin		UTR off			
		Monroe Owens Rd	PQL	at Rd 2-1	PQL	E-001	PQL	E-002	PQL	E-005	PQL	C Road	PQL	TB-5	PQL
Aluminum	mg/kg	20000	25.0	5700	20.0	18000	16.0	13000	19.0	12000	21.0	2400	20.0	1200	15.0
Arsenic	mg/kg	4.30	1.30	1.70	0.99	3.90	0.82	2.70	0.95	ND	1.10	ND	0.99	ND	0.77
Barium	mg/kg	100	3.30	51.0	2.60	30.0	2.10	49.0	2.50	110	2.70	30	2.60	11.0	2.00
Cadmium	mg/kg	0.38	0.25	ND	0.20	0.16	0.16	0.54	0.19	ND	0.21	ND	0.20	ND	0.15
Chromium	mg/kg	28.0	0.64	8.60	0.50	23.0	0.41	17.0	0.48	18.0	0.53	4.0	0.49	2.50	0.38
Copper	mg/kg	40.0	0.64	4.70	0.50	6.30	0.41	40.0	0.48	8.40	0.53	1.40	0.49	0.97	0.38
Iron	mg/kg	17000	13.0	5600	9.90	18000	8.20	12000	9.50	14000	11.0	2300	9.90	1200	7.70
Lead	mg/kg	13.0	1.30	7.40	0.99	6.70	0.82	15.0	0.95	6.30	1.10	2.80	0.99	2.10	0.77
Magnesium	mg/kg	ND	640	ND	500	ND	410	2500	480	1600	530	ND	490	ND	380
Manganese	mg/kg	140	1.90	36.0	1.50	42.0	1.20	230	1.4	1300	1.60	46.0	1.50	39	1.20
Mercury	mg/kg	ND	0.22	ND	0.15	ND	0.13	ND	0.17	ND	0.16	ND	0.16	ND	0.13
Nickel	mg/kg	11.0	5.10	ND	4.00	ND	3.30	7.20	3.80	6.40	4.20	ND	3.90	5.40	3.10
Selenium	mg/kg	ND	1.30	1.10	0.99	ND	0.82	ND	0.95	ND	1.10	ND	0.99	ND	0.77
Silver	mg/kg	ND	0.64	ND	0.50	ND	0.41	ND	0.48	ND	0.53	ND	0.49	ND	0.38
Uranium	mg/kg	150	64.0	ND	50.0	170	41.0	110	48.0	130	53.0	ND	49.0	ND	38
Zinc	mg/kg	57.0	6.40	18.0	5.00	21.0	4.10	310	4.80	38.0	5.30	8.90	4.90	ND	3.80
% Solids	%	36.9	0.00	48.3	0.00	60.1	0.00	48.2	0.00	46.7	0.00	48.3	0.00	60.4	0.00
Cyanide total	mg/kg	ND	1.40	ND	1.00	ND	0.83	ND	1.00	ND	1.10	ND	1.00	ND	0.83

- Location Key
UTR = Upper Three Runs
BDC = Beaver Dam Creek
FMC = Fourmile Creek
PB = Pen Branch
SC = Steel Creek
L3R = Lower Three Runs
TC = Tinker Creek
RM = River Mile
VOG Dis = Vogtle Discharge
UTRM = Upper Three Runs River Mouth
BDCM = Beaver Dam Creek River Mouth
SCM = Steel Creek River Mouth
S Qualified