Three Mile Creek Stormwater Outfall Inventory (Raw Data)

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2415	85	Box Culvert	Con		DF	264970	1782081	6/18/2013			4	4	PRICHARD ST.	177	Box Culvert	4ft at base of bridge	
2416	86	Box Culvert	Con			260143	1782628	6/17/2013			4	10	CLINTON ST.	169	Box Culvert		
2417	87	Channel	Con			253727	1784659	6/14/2013			3'	8'	INDIAN CIRCLE	87	Channel	135	
2418	88	Channel	Con			253807	1785011	6/14/2013			8'	6'	INDIAN CIRCLE	88	Channel	135	flow
2419	89	Channel	Con			254647	1785966	6/14/2013			4'	8'	MOBILE INFIRMARY		Channel	150	
2420	90	Pipe	Con		DF	255584	1776606	6/20/2013	y	5'			FREDRICK ST.	271	Pipe	1-3" water, trash	
2421	91	Pipe	Con	50		257014	1773958	6/20/2013		3.5'			MOFFET RD	278	Pipe	sediment	
2422	92	Box Culvert				262245	1765963						FOREST DELL RD		Box Culvert		
2423	93	Pipe				260175	1765931						FOREST DELL		Pipe		
2424	94	Pipe	CMP		NR	253190	1758258	6/20/2013					VANDERBILT DR.	256	Pipe	eroded at base, needs repair	
2425	95	Pipe	CMP		Er	253569	1758340	6/20/2013		3.5			CHAPEL HILL DR.	258	Pipe	bank erosion, clear flow	
2426	96	Other				251297	1756871	6/20/2013			3	3	REGIONS BANK		Other	storm drain/iron gate	
2427	97	Pipe	Con			251390	1756895	6/20/2013			3	6	OLD SHELL RD.	245	Pipe	storm drain	
2428	98	Pipe	Con	0		251782	1756997	6/19/2013			3.5	3.5	OLD SHELL RD.	240	Pipe	STORM DRAIN AND CHANNEL	

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2429	99	Channel	Con			249013	1754018	6/19/2013			6	20	N OF BRANDY RUN RD S E OF FERN HILL CT.	226	Channel	20x6 concrete lined channel	good
2430	100	Pipe	CMP	0	co	254716	1754851	6/11/2013		3			USA CAMPUS	100	Pipe		orange IRB, moderate flow
2431	101	Pipe	Con			250335	1749293	6/19/2013	Y	3			WEST OF BURTONWOOD DR	213	Pipe	GOOD CONDITION NO FLOW	
2432	102	Channel	Oth	5	Er	250479	1747066	6/19/2013			5	6.5	WEST OF FOREMAN RD.	208	Channel	ERODED CHANNEL W SEDIMENT LOW FLOW TURBID	ERODED TURBID SEDIMENT
2433	103	Channel				259481	1752778						RIDGEWOOD DR.		Channel		
2434	104	Channel	Oth			260387	1758454	6/18/2013			8	20	DOWNSTEAM FOREST RIDGE RD. WEST BY RAILROAD		Channel		
2435	105	Channel	Oth			260301	1758422	6/18/2013			12	30	DOWNSTEAM FOREST RIGDE RD. WEST BY RAILROAD	203	Channel	UNLINED CHANNEL 1-2FT DEEP MIN FLOW	
2436	106	Channel	Con	0	Tu	259793	1768440	6/13/2013			2'	4'	EAST OF CARRE DR. EAST OR WEST OF WOLF RIDGE RD.	106	Channel	65,66	1/2" flow brown
2437	107	Pipe	Con	100	NR	257244	1756662	6/12/2013		2'			UNIVERSITY BESIDE RD.	107	Pipe	34	obstruct upstream

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2438	108	Pipe	Con	100	NR	257389	1756676	6/12/2013		2'			UNIVERSITY BESIDE RD.	35	Pipe		
2439	109	Pipe	Con	90		257484	1756695	6/12/2013		2'			UNIVERSITY BESIDE RD.	36	Pipe		
2440	110	Pipe	Oth	100		257584	1756719	6/12/2013		?			UNIVERSITY BESIDE RD.	110	Pipe		not visible
2441	111	Pipe	Con			256558	1756524	6/12/2013			3'	5'	UNIVERSITY BLVD.	111	Pipe	38	
2442	112	Pipe				257387	1790113	6/17/2013	Y	3			BELSAW AVE.	168	Pipe	3FT CON PIPE W/ HWALL 75% SUBMERGED CLR TO CLOUDY STAND WATER	
2443	113	Pipe	Con	50		259551	1748959	6/11/2013		38"	38"	38"	1155 ANDERS DR.	113	Pipe		trash, sediment
2444	114	Pipe	Con			257082	1791519	6/17/2013	Y	3			PEACH ST.	167	Pipe	3FT CON PIPE W/HWALL MOSTLY SUBMERGED	
2445	115	Pipe	Con		Tu	263945	1795171	6/17/2013		4			CSX	164	Pipe	4FT CONC PIPE W/CHANNEL ERODED BANKB	

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2446	116	Channel	Oth			264057	1795971	6/17/2013					CSX SIBERT YARD RESTRICTED AREA		Channel	restricted area	
2447	117	Channel				257791	1795857	6/17/2013			2	12	CSX	162	Channel	12FT WIDE UNLINED CHANNEL FAIR COND	
2448	118	Channel			DF	263635	1792871	6/17/2013			4	4	CSX RR AND TELEGRAPH RD	118	Channel	154	UNLINED channel
2449	119	Channel	Oth	10		262009	1788365	6/18/2013			1	6	DUMAINE RD	188	Channel	UNLINED CHANNEL DENSE VEG, SEDIMENT FRM RD	
2450	120	Pipe	Oth	50	DF	264805	1795947	6/17/2013					HERBERT ST.	158	Pipe	4x4 metal culvert w gate	
2451	121	Channel				264735	1795329						HERBERT ST.		Channel		
2452	122	Pipe	CMP	50		264592	1794958	6/17/2013		2.5			HERBERT ST.	161	Pipe	2.5 CMP PINCHED END MOSTLY SUBMERGED	
2453	123	STORM DRAIN	Con	50		264506	1794746	6/17/2013		3			HERBERT ST.	160	Pipe	STORM DRAIN	sediment obstruction, veg
2454	124	Channel				264501	1794667	6/17/2013			2	12	CSX RR @ KIMB CLARK WHOUSE	159	Channel	CHANNEL W DUCKWEED 12X2 1-2FT DEEP	

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2455	125	Channel	RIP		Er	262836	1790552	6/17/2013			3	4	LPG LUMBER	125	Channel	152	unlined w/ minor erosion
2456	126	Pipe	Oth			260751	1789012	6/18/2013					WHIITNEY ST.	186	Pipe	COULD NOT LOCATE DENSE VEG	
2457	127	Pipe	Con	50		260689	1789158	6/18/2013		2.5			WHITNEY ST.	187	Pipe	MOSTLY SUBMERGED EXCESSIVE VEG	
2458	128	Channel				255204	1786907	6/14/2013			2'	3'	MOBILE INFIRMARY	128	Channel	148	
2459	129	Channel	Oth		Er	259136	1778779	6/14/2013			12'	8'	MOBILE PAPER BOARD	129	Channel	105	trash, erosion
2460	130	Channel	Con	50		257022	1773964	6/20/2013		4'			MOFFETT RD.	279	Channel	sediment	
2461	131	Pipe				260089	1765788						FOREST DELL		Pipe		
2462	132	Other				261134	1765970						FOREST DELL		Other		
2463	133	Other				260789	1765969						FOREST DELL		Other		
2464	134	Other				260654	1765983						FOREST DELL		Other		
2465	135	Pipe				258763	1764590						PINEWOOD DR. EAST		Pipe		
2466	136	Channel				258501	1763796						FOREST HILL		Channel		
2467	137	Pipe	CMP	0	DF	257820	1764096	6/12/2013		3'			FISH HATCHERY	137	Pipe	55	clear flow
2468	138	Channel	Oth		DF	257715	1764274	6/12/2013			20'	5'	DOWN STEAM FROM ZEIGLER BLVD.	138	Channel	56	clear flow, sandy bottom

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2469	139	Channel	Oth	0		258087	1764874	6/12/2013			2'	6'	CARONDOLET APT.	139	Channel	57	
2470	140	Channel	Con			257409	1770918	6/13/2013			6'	5'	ACROSS FROM SPRINGWOOD DR. EAST	140	Channel	70	dry
2471	141	Channel	Oth	0	Tu	258997	1769192	6/13/2013			3'	6'	AT RAILROAD TRACK / ACROSS FROM 424	141	Channel	67	stagnant, brown, silty bottom, algae
2472	142	Channel	Oth	0	DF	256874	1771162	6/13/2013			2'	5'	SPRINGHILL AVE.	142	Channel	77	dense veg, sandy bottom,
2473	143	Channel	Oth	0	DF	256917	1771060	6/13/2013			6'	4'	SPRINGHILL AVE.	143	Channel	78	sandy bottom, dense veg
2474	144	Pipe				257077	1769777						SPRINGHILL AVE.		Pipe		
2475	145	Pipe				256652	1769289						SOUTH OF SPRINGHILL AVE.		Pipe		
2476	146	Channel	Oth			257673	1760289	6/12/2013			4'	20'	GALLIARD ST.	146	Channel	42	lots of aq veg
2477	147	Channel				254657	1759081						UPSTREAM FROM MUSEUM DR.		Channel		
2478	148	Pipe	Con			255808	1760356	6/12/2013	y	3'x2			UPSTREAM FROM MUSEUM DR.	148	Pipe	49	a lot of sediment
2479	149	Channel	Oth			261003	1788668	6/18/2013			1	2	WHITNEY ST.	185	Channel	vegetated no stand water	
2480	150	Pipe				255561	1762633						CARMEL DR.		Pipe		

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2481	151	Channel				255057	1762911						RIDGELAWN DR. EAST		Channel		
2482	152	Channel				253089	1762776						RIDGELAWN DR.		Channel		
2483	153	Pipe				262229	1773662						BELTLINE		Pipe		
2484	154	Pipe				262386	1773674						BELTLINE		Pipe		
2485	155	Pipe				262337	1773599						I-65		Pipe		
2486	156	Channel				262317	1773378						BELTLINE		Channel		
2487	157	Channel				262394	1773378						BELTLINE		Channel		
2488	158	Channel				262396	1773363						BELTLINE		Channel		
2489	159	Channel				262184	1771467						SHARON DR.		Channel		
2490	160	Channel				262357	1772256						DOWN STREAM FROM AUTUMDALE DR.		Channel		
2491	161	Pipe				262099	1770683						LYDIA DR.		Pipe		
2492	162	Box Culvert	Con		DF	251464	1746113	6/19/2013			3	3	NORTH CODY RD.	205, 206	Box Culvert	BANK EROSION DWNSTREAM	
2493	163	Channel	Con			257417	1746486	6/11/2013			1'	3'	DOWN STREAM FROM CODY RD.	163	Channel		
2494	164	Pipe	Con	20		254635	1751498	6/11/2013		38"			USA	164	Pipe		
2495	165	Pipe	Con	50		254439	1753615	6/11/2013		24"			USA	165	Pipe		sediment
2496	166	Channel	RIP	0	DF	254622	1753265	6/11/2013			1'	5'	USA	166	Channel		algae, turbid, dry flow

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2497	167	Channel	Oth	10	Er	257457	1749459	6/11/2013			2'	20'	DEWITT	167	Channel		sedimetn
2498	168	Channel	Oth	15	Er	257629	1749258	6/11/2013			4'	20'	DOWN STREAM FROM ZEIGLER BLVD.	168	Channel		trash, privet, sediment
2499	169	Pipe	Con	0		259816	1748937	6/11/2013	y	38"	38"	38"	1159 ANDERS DR.	169	Pipe		excessive trash, privet,riprap stream
2500	170	Box Culvert	Con	0		260986	1746115	6/11/2013			34 in	62 in	CODY RD.	170	Box Culvert	concrete	
2501	171	box culvert	Con	0		258467	1746930	6/11/2013	y		4.5'	10'	ZIEGLER BLVD.	171	Pipe		kudzo
2502	172	box culvert	Con	50		259589	1747062	6/11/2013	y		5'	10'	ORANGEBURG DR. NORTH	173	Pipe		trash, sewer line adjacent
2503	173	Channel	Con			250442	1748452	6/19/2013			7	25	EAST OF FOREMAN RD.	210	Channel	CONCRETE CHANNEL NO FLOW	GOOD
2504	174	Channel	Con			250336	1748738	6/19/2013			5	12	EAST OF FOREMAN RD.	212	Channel		GOOD
2505	175	Channel	Oth	10	Er	257260	1749805	6/11/2013			3'	20'	UPSTEAM FROM TYUS ST. MAWSS TRAIL		Channel		sediment
2506	176	Channel	RIP	5		261729	1756246	6/18/2013			20	30	5679 MORLEE DR. WEST	199	Channel	2-3IN STAND WATER, TREES IN CHANNEL , RIP RAP ARMOR	
2507	177	Pipe	CMP			261987	1758189	6/18/2013	y	4			FOREST RIDGE RD. WEST	201	Pipe	2, 4FT CMP NO FLOW	

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2508	178	Channel	Con			262733	1753980	6/18/2013			4	12	5975 SCOTTSDALE CT.	191	Channel	1-2 in sediment	
2509	179	Channel	Con			263010	1753412	6/18/2013			4	12	WEST OF SCOTTSDALE CT.	190	Channel	WE	
2510	180	Channel	Con			263179	1753158	6/18/2013			3	3	WEST OF SCOTTSDALE CT.	192	Channel		
2511	181	Pipe	CMP			259465	1759406	6/12/2013		3'			ZEIGLER BLVD.	181	Pipe	40	
2512	183	Pipe	Con			257035	1756941	6/12/2013		3'			GAILLARD DR.	183	Pipe	33	
2513	184	Pipe	Con		co	258192	1756512	6/12/2013		3'			5755 PARKMOUT CIR. SOUTH	184	Pipe	32	orange IRB, dry flow
2514	185	Pipe	Con			260724	1782575	6/17/2013	Y	3			OFF WELLWORTH ST	170	Pipe	170	
2515	186	Pipe	Con	50		255344	1780347	6/14/2013		2'			STANTON RD	123	Pipe		
2516	187	Channel	Con			256168	1780065	6/14/2013			6'	6'	BETWEEN STANTON & USA HOSPITAL	187	Channel	121	
2517	188	Channel	Con	0	DF	257408	1763767	6/12/2013			5'	60'	ZEIGLER BLVD.	188	Channel	52	spillway
2518	189	Pipe	Con			255353	1780342	6/14/2013		2.5'			STANTON RD.	189	Pipe	122	apple snails
2519	190	Pipe	Con			257424	1763790	6/12/2013		3'			ZEIGLER BLVD.	190	Pipe	54	
2520	191	Pipe	Con			256503	1788786	6/14/2013	y	4'			OFF DR MLK AVE.	191	Pipe	144	
2521	192	Pipe	CMP	5	NR	256921	1759554	6/12/2013		2.5'			MUSEUM DRIVE	162	Pipe	44,45	needs repair, apple snail

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2522	193	Pipe	Con			262479	1786561	6/18/2013	y	4			OFF OSAGE RD.	183	Pipe	30% submerged no visible flow, excessive trash, sediment	
2523	194	Channel	Con			257571	1779797	6/14/2013			4'	6'	BEHIND USAMC	194	Channel	117	
2524	195	Pipe	Con	0	DF	257926	1765241	6/12/2013	y	4'			CARONDOLET CT. NORTH	195	Pipe	58	
2525	196	Pipe	Con	50	NR	259125	1766550	6/12/2013		3'			BRISTOL CT.	196	Pipe	59	severe erosion, dry flow
2526	197	Pipe	Con			260713	1782560	6/17/2013	Y	3			OFF WELLWORTH AND TUCKER	171	Pipe	NO FLOW	
2527	198	Pipe	Con			261867	1782046	6/18/2013			4	4	OFF BARRETT LN	175	Pipe	storm drain discharge under road	
2528	199	Pipe	Con			260702	1782564	6/17/2013		3			OFF TUCKER	172	Pipe		
2529	200	Pipe	Con			254129	1782722	6/14/2013	y	3'			STANTON RD.	200	Pipe	125	
2530	201	Channel				255798	1779970						SIENA VISTA		Channel		
2531	202	Pipe	Con	0		260366	1748069	6/11/2013	y	3'2"	3'2"	38 in	ANDERS DR.	202	Pipe		needs clearing
2616	182	Pipe	con		g	258086	1756349	6/12/2013		4'x2			5763 PARKMOUT CIR. SOUTH	162	Pipe	31	clear flow
2330	0	Box Culvert	Con			250693	1788227	6/20/2013			4	4.5	FEARNWAY	261	Box Culvert		
2331	1	Pipe	Con		DF	251476	1787647	6/20/2013		4.5			OLD SHELL RD.	259	Pipe		

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2332	2	Box Culvert	Con		DF	251470	1787605	6/20/2013			5	8	OLD SHELL RD.	260	Box Culvert		
2333	3	Pipe	Con		co	256223	1788217	6/14/2013		3'			SIMMINGTON DR	3	Pipe	143	flow, irb
2334	4	Pipe	Con	0	DF	260625	1774699	6/13/2013		3'			ARMOUR AVE	4	Pipe	95	low flow, algae
2335	5	Pipe	CMP	0		261115	1775200	6/13/2013		3'			OFF GEORGIA PACIFIC AVE.	5	Pipe	96	
2336	6	Channel	Con			258626	1779343	6/14/2013			8'	20'	MOBILE ST.	6	Channel	110	2' water
2337	7	Pipe	Con		DF	261049	1782451	6/18/2013	y	3			813 WELLWORTH ST.	173	Pipe	173	
2338	8	Pipe	Con		g	261847	1782055	6/18/2013		3			BARRETT LN.	174	Pipe	discharge under bridge under road	
2339	9	Channel	Con			259434	1778183	6/14/2013			3'	8'	OFF MOBILE ST.	9	Channel	108	clear flow
2340	10	Pipe	Con			259361	1778413	6/14/2013		12"			OFF MOBILE ST.	10	Pipe	107	clear flow, some rain
2341	11	Channel	Con			258917	1778975	6/14/2013			2'	8'	OFF MOBILE ST.	11	Channel	109	
2342	12	Channel				258544	1764249						FISH HATCHERY		Channel		
2343	13	Channel	RIP	0	DF	260654	1776541	6/13/2013			3'	3'	ARMOUR AVE.	13	Channel	100	
2344	14	Channel	Con	df		261284	1775552	6/13/2013			20'	12'	DOWN THE STREET FROM GEORGIA PACIFIC AVE.	14	Channel	97	
2345	15	Pipe	Con	0	DF	260113	1767351	6/13/2013	y	4'			CARRE DRIVE EAST	15	Pipe	63	

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2346	16	Channel		30	DF	260085	1767180	6/13/2013			1'	4'	BETWEEN CARRE DR. EAST & CARRE DR. WEST	16	Channel	64	debris damn at sewer crossing
2347	17	Pipe	Con			259162	1778674	6/14/2013		12"			OFF MOBILE ST.	17	Pipe	106	
2348	18	Pipe	Con			258039	1779651	6/14/2013	y	3'			FILLINGIM ST.	18	Pipe	116	flow
2349	19	Pipe	Con			257971	1779631	6/14/2013	y	3'			BEHIND USAMC	19	Pipe	115	apple snail eggs
2350	20	Channel	Con			257837	1779687	6/14/2013			3'	4'	BEHIND USAMC	20	Channel	113	
2351	21	Pipe	Con			257257	1779894	6/14/2013	y	4			FORENSIC DR.	21	Pipe	118	flow
2352	22	Channel	Con			257079	1779962	6/14/2013			4'	6'	USAMC	22	Channel	119	
2353	23	Channel	Con			256822	1779986	6/14/2013			4'	6'	USAMC	23	Channel	120	
2354	24	Pipe	Con			257863	1779674	6/14/2013	y	3'			BEHIND USAMC	24	Pipe	114	
2355	25	Other	Con	0		251798	1757111	6/19/2013			3.5	3.5	OLD SHELL RD	237	Other	STORM DRAIN AND CHANNEL	
2356	26	Pipe	Con	0	DF	259024	1768977	6/13/2013	y	4'			OFF BRAWOOD DR.	26	Pipe	26	metal flap
2357	27	Channel	Con			258505	1769322	6/13/2013			2'	4'	OFF BRAWOOD DR.	26	Channel	69	dry
2358	28	Channel	RIP		co	257022	1762380	6/12/2013				15'	MUSEUM DR.	28	Channel	50	clear up, iron reducing bacteria down stream, orange
2359	29	Channel	Con	20		263841	1783474	6/18/2013			6	4	COLLEGE ST	179	Channel	4X6 CON CHANNEL	

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2360	30	Channel	Oth	5		263871	1783201	6/18/2013			6	4	S SIDE S COLLEGE ST	181	Channel	UNLINED CHANNEL DENSE VEG NO DISCHARGE	
2361	31	Pipe	Con			263998	1783475	6/18/2013	y	4			COLLEGE ST.	180	Pipe	PHOTO 180 DRY	
2362	32	Pipe	Con			264954	1782061	6/18/2013	y	1.5			PRICHARD AVE.	176	Pipe	1.5 ft pipe in sidewall of con channel	
2363	33	Pipe	HDP		NR	252917	1758058	6/20/2013		3			VANDERBILT DR.	254,255	Pipe	eroded at base, signif. flow, needs repair	
2364	34	Channel	Con		Tu	261888	1787331	6/18/2013			3	15	CRAWFORD PL	184	Channel	STAND WATER 2FT, NO VIS FLOW	
2365	35	Box Culvert				260927	1779729						CONE ST.		Box Culvert		
2366	36	Pipe	Con			253198	1787189	6/20/2013		2			BETWEEN SPRINGHILL AVE. AND USA WOMENS & CHILDREN HOSPITAL	264	Pipe		
2367	37	Other	Con			251802	1757210	6/19/2013			3.5	3.5	OLD SHELL RD.	235	Other	STORM DRAIN AND CHANNEL	CHANNEL STAINED
2368	38	Channel	Con	0		259057	1772709	6/13/2013			4'	3'	I-65 / MOFFETT RD.	38	Channel	89	
2369	39	CHANNEL	Oth	20	DF	264562	1793587	6/17/2013			2	4	OFF TELEGRAPH	156	CHANNEL	UNLIND	F

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
													RD.			CHANNEL	
2370	40	Pipe	Con	50		262800	1794786	6/17/2013		3			INDUSTRIAL CANAL RD.	163	Pipe	3FT CONC PIPE MOSTLY SUBMERGED W/UNLINED CHANNEL	
2371	41	Pipe	Con			265837	1793491	6/17/2013	Y	5			CHIN ST.	155	Pipe	5 FT CON PIPE W HWALL AND 18IN PIPE	
2372	42	Box Culvert	Con		DF	264487	1791617	6/17/2013	Y		3	8	STIMRAD RD.		Box Culvert	153	BOX CULV W/rip rap good cond
2373	43	Channel	Oth		Tu	262489	1789517	6/18/2013			10	40	TREATMENT PLANT RD.	189	Channel	UNLINED CHANNEL, TURBID, 2-3FT DEEP NO FLOW	
2374	44	Pipe	Con			266172	1794620	6/17/2013	Y	5			CHIN ST.	157	Pipe	5ft conc w hdwall clear stand water 1.5ft	
2375	45	Pipe	Con			255592	1787471	6/14/2013		4'			DUNBAR ST.	45	Pipe	147	
2376	46	Pipe	Con			256138	1778016	6/20/2013					BAY SHORE AVE.		Pipe	in culvert, unknown dia	
2377	47	Pipe	CMP	0	co	258235	1772493	6/13/2013		3'			MOFFAT RD.	47	Pipe	85	orange IRB
2378	48	Pipe	Con			257940	1772434	6/13/2013	y	3'			MOFFETT RD.	48	Pipe	74	
2379	49	Channel	Con			257854	1772390	6/13/2013			3'	6'	MOFFAT RD.	49	Channel	73	

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2380	50	Channel	Con			257555	1761721	6/12/2013			4'	4'	MUNICIPAL PARK	50	Channel	61	
2381	51	Channel	Con			254227	1785364	6/14/2013		8'	4'		INDIAN CIRCLE	51	Channel	150	
2382	52	Pipe	Con			255344	1787027	6/14/2013	y	3'			ST. STEPHENS RD.	141	Pipe		
2383	53	Channel	Con			256174	1788644	6/14/2013			4'	8'	DR MLK BLVD.	53	Channel	146	
2384	54	Box Culvert	Con			256352	1788892	6/14/2013	y		4'	6'	DR MLK BLVD.	54	Box Culvert	145	
2385	55	Pipe	Con	0		257497	1763740	6/12/2013	y	3'			ZEIGLER BLVD.		Pipe	53	
2386	56	Channel	Con	0	DF	257589	1762924	6/12/2013			4'	3'	MUNICIPAL PARK	56	Channel	60	apple snail eggs
2387	57	Pipe	Con			259957	1758628	6/12/2013		4'			UNIVERSITY BLVD.	57	Pipe	41	clear flow
2388	58	Channel	Oth			262692	1755646	6/18/2013			6	20	CARLISLE DR.	195	Channel	CONFLUENCE , UNLINED, RIP RAP ARMOR, HIGHLY VEGETATED	
2389	59	Channel	Con			263058	1755573	6/18/2013			6	12	SOUTH OF CARLISLE DR EASTW	194	Channel	DRY, CONFLUENCE 2 CHANNELS	
2390	60	Channel	Con			264148	1754327	6/18/2013			4	15	5921 PRINCESS HELEN RD	193	Channel	DRY	
2391	61	Channel			Er	254264	1785238	6/14/2013			4'	8'	STANTON RD.	138	Channel	138	
2392	62	Pipe				259270	1779197						MOBILE ST.		Pipe		

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2393	63	Pipe	Con			256219	1779014	6/20/2013					MOBILE ST.	274,275	Pipe		
2394	64	Channel	Oth			255880	1779615	6/20/2013			4	6	NALL ST.	277	Channel	unlined,excess veg	
2395	65	Pipe				260189	1779041						MOBILE ST.		Pipe		
2396	66	Pipe	CMP	75	NR	258130	1753555	6/12/2013		2.5'			ZEIGLER BLVD.		Pipe	29,30	needs repair, collpased headwall, dry flow
2397	67	Pipe				260435	1779466						CONE ST.		Pipe		
2304	1001	Pipe	CMP	0% obstructed		0	0	6/11/2013	N	24 in	24 in	24 in	photos 1, 2, 3	1001			
2305	1002	Pipe	Con	26% - 50% obstructed	NR	0	0	6/11/2013	N	2'			photo 14,15	1002			
2306	1004	Pipe	Con		DF	0	0	6/12/2013		2'			Photo 43, from tennis court deten pond	1004			
2307	1005	Pipe	CMP	0%	Su	0	0	6/12/2013		2.5'			photo 46	1005			
2308	1006	Pipe	Con		Su	0	0	6/12/2013		2.5'			photo 47	1006			
2309	1008	Pipe	Con	1% - 25% obstructed		0	0	6/12/2013		1.5'			photo 51	1008			
2310	1009	Pipe	Con	0%		0	0	6/12/2013		2.5'			Photo 62	1009			
2311	1018	Pipe	Con	0%		0	0	6/14/2013	y	3'			Photo 128	1018			
2312	1019	Pipe	Con	0%	DF	0	0	6/14/2013	y	2.5'x3			photo 129	1018			
2313	1020	Pipe	Con	0%		0	0	6/14/2013		3'			photo 130	1020			
2314	1021	Pipe	Con	0%		0	0	6/14/2013	y	2.5'			Photo 134, Apple Snails in Cattails	1021			
2315	1022	Pipe	Con	0%		0	0	6/14/2013		2.5'			136	1022			

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2316	1024	Pipe	Con	0% obstructed		0	0	6/19/2013		3'			225	1024			
2398	68	Other	Con		DF	261545	1757107	6/18/2013			10	30	SANDRA DR.	200	Other	CONC BRIDGE W STORM DRAINS	
2399	69	Pipe	Con			259367	1758852	6/12/2013	y	3'			ZEIGLER BLVD.	69	Pipe	39	kudzu
2400	70	Pipe	Con	0	Tu	254909	1751353	6/11/2013		5'			USA CAMPUS / MIDDLE RING	70	Pipe		
2401	71	Pipe	Con	0		261042	1747680	6/11/2013		10"	10"	10"	AMELIA	71	Pipe		g
2402	72	Pipe	Con	5		249600	1754669	6/19/2013	Y	1.5			WEST OF EAST DR. SOUTH OF MAGNOLIA PL	228	Pipe	NO FLOW	
2403	73	Pipe	Con			250987	1756715	6/20/2013		3			UNIVERSITY BLVD.		Pipe	in sidewall of bridge structure	
2404	74	Pipe				259494	1752756						DOWN FROM RIDGWOOD DR.		Pipe		
2405	75	Pipe	HDP			262165	1756213	6/18/2013					DOWN STEAM FROM OVERLOOK RD.	197-198	Pipe	2FT PIPE IN RIP RP SIDEWALL	
2406	76	Pipe	Con			250995	1756762	6/20/2013		3			UNIVERSITY BLVD.		Pipe		
2407	77	Pipe	Con			251002	1756813	6/20/2013			1	3	UNIVERSITY BLVD.	248	Pipe	storm drain w/ channel and 2x2.5' pipes	
2408	78	Pipe	Con			251077	1756916	6/20/2013			5	5	UNIVERSITY BLVD.	247	Pipe		

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2409	79	Channel	Con		DF	261045	1775971	6/13/2013			2'	5'	MOFFET RD. / I-65 NEXT TO RAILROAD	79	Channel	99	stagnant, algae, sandy bottom,sediment
2410	80	Channel	Bri		DF	259590	1777355	6/13/2013			3'	2'	SHELL ST.		Channel	103	sandy bottom, veg
2411	81	Channel	Con			253817	1783575	6/14/2013			2'	8'	STANTON RD.	81	Channel	132	apple snail eggs
2532	203	Box Culvert	Con	100	NR	256325	1750818	6/11/2013	y		5'	10'	LISLOY DR.	203	Box Culvert		turbid, major impoundment
2533	204	Pipe	Con	20		255421	1755664	6/11/2013	y	3'			USA CAMPUS		Pipe		sediment
2534	205	Pipe	CMP	0	DF	254655	1754127	6/11/2013	y	5'			USA CAMPUS	205	Pipe		clear, dry flow
2535	206	Pipe	Con			254200	1782107	6/14/2013		3'	2'	3'	STANTON RD.	206	Pipe	124	channel/pipe
2536	207	Pipe	Con	0		249591	1754758	6/19/2013		2.5			COVERT @ EAST RD.	229	Pipe	NO FLOW	GOOD
2537	208	Pipe	Con	0		250300	1755680	6/19/2013		4			WINDHAM CT.	231	Pipe	NO FLOW	
2538	209	Channel	Con			253793	1783830	6/14/2013			8'	3'	STANTON	209	Channel	133	
2539	210	Pipe	Con			256317	1793162	6/17/2013	Y	3			MAPLE ST.	166	Pipe	3FT CONC PIPE COLOCATED W/ PT239	
2540	211	Channel				254968	1786501	6/14/2013			8'	30'	LITTLE STICKNEY	211	Channel	149	
2541	212	Channel	Con	0		259648	1773707	6/13/2013			3'	5'	CORPORATE DR N	212	Channel	90	
2542	213	Channel	Con	0		260245	1774500	6/13/2013			2'	4'	CORPORATE DR N	213	Channel	94	

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2543	214	Channel	Con			260068	1774035	6/13/2013			2'	8'	ARMOUR	214	Channel	92	
2544	215	Pipe	Con	0		249724	1755447	6/19/2013	y	4			EAST OF EAST DR. / ACROSS CREEK	230	Pipe	NO FLOW	
2545	216	Pipe	CMP			259899	1774031	6/13/2013	y	4'			CORPORATE DR. NORTH	214	Pipe	93	
2546	217	Pipe	Con			249185	1753783	6/19/2013	y	3.5			EAST OF WEST DR.	222	Pipe	no flow good condition	good
2547	218	Pipe	Con			249184	1753735	6/19/2013					EAST OF WEST DR.		Pipe		
2548	219	Channel	Con			254066	1784313	6/14/2013			4'	8'	STANTON	219	Channel	137	
2549	220	Pipe	Con		co	255517	1753407	6/11/2013	y	2.5'			USA CAMPUS	220	Pipe		sediment, orange IRB, dry flow
2550	221	Pipe	Con	0		248955	1754036	6/19/2013		5			N. OF BRANDY RUN RD S, EAST OF FERN HILL CT.		Pipe		G
2551	222	Channel	Con			258296	1772590	6/13/2013			4'	8'	I-65 MOFFETT RD	222	Channel	82	
2552	223	Pipe	Con		NR	249977	1750666	6/19/2013	Y	3			WEST OF HILLCREST RD.	214, 215	Pipe	CON PIPE ERODED UPSTREAM OF HEADWALL NO FLOW	needs repair

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2553	224	Channel	Oth	5	DF	249939	1751005	6/19/2013			3	6.5	400' WEST OF HILLCREST RD.	216, 217	Channel	UNLINED CHANNEL SLIGHT EROSION SEDIMENT CLEAR 1-6 IN DEEP MIN FLOW	
2554	225	Pipe	Con		DF	249196	1753417	6/19/2013		3.5			WEST DR.	220	Pipe	CON PIPE IN CHANNEL SIDEWALL MIN FLOW CLEAR	GOOD
2555	226	Pipe	Con			250441	1748084	6/19/2013	Y	4			FOREMAN RD.	209	Pipe	CON PIPE GOOD CONDITION NO FLOW	
2556	227	Pipe	Con			249769	1751424	6/19/2013		5			HILLCREST RD.	219	Pipe	1, 5FT AND 1, 18IN PIPE CONCRETE NO FLOW	GOOD
2557	228	Pipe	Con			250414	1747746	6/19/2013		3			WEST OF FOREMAN RD.	211	Pipe	GOOD CONDITION NO FLOW	
2558	229	Pipe	Con	90		250427	1747039	6/19/2013		1.5			N OF AIRPORT BLVD, WARREN APTS.	207	Pipe	90% OBS, SEDIMENT	
2559	230	Channel	Con	0		250614	1756067	6/19/2013			3	8	ACOSS FROM LONG ST.	232	Channel	BANKS ERODED ON MAIN CHANNEL 300-500 FT DOWNSTREAM	

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2560	231	Pipe	Con			249772	1751384	6/19/2013	Y	4			HILLCREST RD.	218	Pipe	concrete pipe under bridge no flow	
2561	232	Pipe	Con			249562	1752313	6/19/2013		3			WEST OF BRANDY RUN WEST	223	Pipe	good condition no flow	good
2562	233	Pipe	Con			256864	1795113	6/17/2013		3			OFF CONCEPTION ST.	165	Pipe	3FT CON PIPE MOSTLY SUBMERGED STAG WATER	
2563	234	Pipe	Con			256158	1778019	6/20/2013		2.5'			BAY SHORE AVE.	272	Pipe		
2564	235	Pipe				256955	1775635						JOSEPHINE ST.		Pipe		
2565	236	Pipe	Con		DF	255804	1776933	6/20/2013		3'			PAGES LN.		Pipe	pipe w/i box culvert, trickle	
2566	237	Pipe	Con	20		256135	1777962	6/20/2013					BAY SHORE AVE.	273	Pipe	in box culvert	
2567	238	Pipe	Con		co	253676	1786937	6/20/2013		2.5			CENTER ST.	265	Pipe	min flow, orange IRB	
2568	239	Pipe	Con			256336	1793135	6/17/2013	Y	3			MAPLE ST.	166	Pipe	3FT CONCRETE PIPE W/HDWALL MOSTLY SUBMERGED	
2569	240	Pipe				259727	1779111						MOBILE ST.		Pipe		
2570	241	Pipe				262399	1774377						OFF BELTLINE		Pipe		

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
													HWY.				
2571	242	Pipe	Con	25	Tu	257499	1751246	6/11/2013	y 10'	4'			VICTORIA PL.		Pipe		
2572	243	Pipe	Con			255519	1776418	6/20/2013		3.5			SPRINGHILL AVE.	268,269	Pipe	50% submerged, 2x4" pipes coming from shop ctr	
2573	244	Pipe	Con	10	DF	257189	1750610	6/11/2013	y	2.5'			VICTORIA PL.	244	Pipe		sediment, turbid, veg obstruction
2317	1023	Pipe	Con	0% obstructed		0	0	6/19/2013		2'			235	1023			
2318	1025	Other	Con	0% obstructed		0	0	6/20/2013		3'			250	1025			
2319	1026	Pipe	HDP	0% obstructed		0	0	6/20/2013	y	3'			252	1026			
2320	1027	Pipe	HDP	1% - 25% obstructed		0	0	6/20/2013	Y	3'			257	1027			
2321	1011	Pipe	CMP	0%		0	0	6/13/2013	Y	2'			Photo 79	1011			
2322	1012	Pipe	CMP	0% obstructed	DF	0	0	6/13/2013	Y	2'			Photo 80	1012			
2323	1013	Pipe	CMP	0%		0	0	6/13/2013	N	2.5'			Photo 81	1013			
2324	1014	Pipe	Con	0%		0	0	6/13/2013	Y	18"			Photo 84	1014			
2325	1015	Pipe	Con	0%	DF	0	0	6/13/2013	N	2'			Photo 87	1015			
2326	1016	Pipe	HDP	0%		0	0	6/13/2013	N	6"			Photo 88	1016			
2327	1017	Pipe	CMP	0%	DF	0	0	6/13/2013	Y	2.5'			Photo 91	1017			
2328	1010	Channel	Con	0%	DF	0	0	6/13/2013			4'	8'	Photo 75	1010			

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2329	1007			0%		0	0	6/12/2013					Photo 48 Apple Snails	1007			
2412	82	Box Culvert	Con			254106	1786489	8/20/2013			40	8	USA WOMENS & CHILDREN HOSPITAL		Box Culvert	standing water .5-1.0'	
2413	83	Box Culvert				253908	1794304						BROAD ST.		Box Culvert		
2414	84	Channel		20		264146	1782652	6/18/2013			3	3	OFF PIERCE AND REYNOLDS		Channel	highly overgrown	
2574	245	Other	Con			251792	1757072	6/19/2013			3.5	3.5	OLD SHELL RD.	238	Other	STORM DRAIN AND CHANNEL	
2575	246	Other	Con	0		251770	1757024	6/19/2013			3.5	3.5	OLD SHELL RD.	239	Other	STORM DRAIN AND CHANNEL	
2576	247	Other	Con			251722	1757000	6/19/2013			3.5	3.5	OLD SHELL RD.	241	Other	STORM DRAIN AND CHANNEL	
2577	248	Other				251637	1756969						OLD SHELL RD.		Other		
2578	249	Other	Con			251582	1756940	6/20/2013			3	5	OLD SHELL RD.	242	Other	storm drain w/concrete channel	
2579	250	Pipe	Con	5		255834	1787432	6/14/2013		3'			SIMMINGTON DR.	250	Pipe	142	trash
2580	251	Channel	Con			259157	1773012	6/13/2013			8'	8'	I-65 / MOFFETT RD.	251	Channel	86	
2581	252	Pipe	Con			256884	1771306	6/13/2013	y	3'			SPRINGHILL PLAZA	252	Pipe	76	
2582	253	Pipe	CMP		DF	258236	1772584	6/13/2013		3'			I-65 / MOFFETT RD.	253	Pipe	83	apple snail at dam, orange discharge

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2583	254	Pipe	Con			257598	1772409	6/13/2013	y	3'			I-65 / MOFFETT RD.	254	Pipe	72	
2584	255	Channel	Con			253969	1783562	6/14/2013			4'	3'	STANTON RD.	255	Channel	126	
2585	256	Pipe	CMP	0		255580	1755295	6/11/2013	y	3'			USA CAMPUS	256	Pipe		
2586	257	Pipe	CMP			255292	1755045	6/11/2013		2.5'			USA CAMPUS	256	Pipe		
2587	258	Pipe	CMP			257419	1772264	6/13/2013		2'			MOFFETT RD.	258	Pipe	71	
2588	259	Pipe	Con		DF	253688	1786953	6/20/2013					CENTER ST.	265	Pipe	min fllow, orange IRB	
2589	260	Other				251476	1756925	6/20/2013			3	5	OLD SHELL RD.		Other	dumpster	
2590	261	Pipe	Con			252251	1787584	6/20/2013			3	3	SPRINGHILL AVE.	262,263	Pipe		
2591	262	Other	Con			251526	1756937	6/20/2013			3	5	OLD SHELL RD.	243	Other	storm drain w/concrete channel	
2592	263	Channel	Con	5		263227	1785711	6/18/2013			6	12	VELMA ST.	182	Channel	CLEAR 2IN DEEP ACROSS BASE DENSE VEG ON SIDES	
2593	264	Pipe				254412	1758986						OFF MUSEUM DR.		Pipe		
2594	265	Other	Con	0		251799	1757158	6/19/2013			3.5	3.5	OLD SHELL RD.	236	Other	STORM DRAIN AND CHANNEL	
2595	266	Pipe	HDP			252471	1757952	6/20/2013	y	4.5			VANDERBILT DR.	253	Pipe		
2596	267	Channel	Oth			251792	1757432	6/20/2013			1.5	2.5	OLD SHELL RD.	251	Channel	unlined, dense veg	

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2597	268	Other	Con			251811	1757308	6/19/2013			3.5	3.5	OLD SHELL RD.	233	Other	CONCRETE CHANNEL W CONCRETE STORM DRAIN	
2598	269	Other	Con			251802	1757264	6/19/2013			3.5	3.5	OLD SHELL RD.	234	Other	STORM DRAIN AND CHANNEL	
2599	270	Box Culvert	Con			255490	1786902	6/14/2013	y		4'	4'	ST. STEPHENS RD.	270	Box Culvert	140	
2600	271	Pipe	Con	0	DF	259609	1777374	6/13/2013		4'			SHELL ST.	271	Pipe	102	
2601	272	Channel			DF	258898	1778773	6/13/2013			2'	4'	MOBILE ST.	272	Channel	104	sed,trash, sandy bottom, veg
2602	273	Pipe	Con			258298	1779389	6/14/2013	y	3'			FILLINGIM ST.	273	Pipe	111	
2603	274	Channel	Con			258034	1779467	6/14/2013			3'	3'	MOBILE ST.	274	Channel	112	
2604	275	Channel	Con		DF	257774	1779557		y	18"			MOBILE ST.		Channel		
2605	276	Pipe				257245	1779757						MILL ST.		Pipe		
2606	277	Channel	Con			255124	1780349	6/14/2013			8'	12'	WINGFIELD DR.	277	Channel	127	
2607	278	Channel	Con			255272	1786553	6/14/2013			4'	8'	ST. STEPHENS RD.	278	Channel	139	
2608	279	Pipe	Con			253831	1783597	6/14/2013		2.5			STANTON RD.	281	Pipe	131	flow
2609	280	Box Culvert	Con	0		257418	1746185	6/11/2013	y		5'	6'	CODY RD.	280	Box Culvert		vegetation in channel
2610	281	Channel		0	Er	260339	1747437	6/11/2013			1'	3'	DOWN STEAM GURLEY RD.		Channel		trash, sediment upstream

OBJECT ID	TEMP ID	STRUCTURE TYPE	STRUCT MAT	% OBS	COND	NORTH	EAST	INFODATE	HW	DIA	H	W	COMMENTS	STRUC ID	Struc Desc	Struc_De_1	Condi Desc
2611	282	Pipe	Con	0	DF	260291	1776586	6/13/2013		4'			FENNEL ST.	282	Pipe		flow clear, algae
2612	283	Other	Oth		DF	259986	1758550	6/18/2013			7	40	UNIVERSITY BLVD.	202	Other	BRIDGE STRUCTURE OVER UNLINED CHANNEL	
2613	284	Channel	RIP			260034	1758474	6/18/2013			6	12	UNIVERSITY BLVD.	204	Channel	UNLINED CHANNEL	
2614	285	Pipe	HDP			262426	1756194	6/18/2013		2			OVERLOOK RD.	196	Pipe	DRY, IN SIDEWALL OF CHANNEL	
2615	286	Channel	Con	0	DF	261061	1775781	6/13/2013			2'	3'	BESIDE RAILROAD	286	Channel	98	clear flow

Supplemental Groundwater, Sediment and Stormwater Sampling in Three Mile Creek

USA Sampling and Testing Plan

Assess groundwater contribution up and down gradient. Groundwater flow and samples will be obtained from river craft and will not require site access. Perform Subtitle D analysis.

Parameters: Groundwater flow rate and volume; 126 Priority Pollutants; TKN, NH_3, and NO_x, SRP and TP; BOD; COD; fecal coliform (freshwater reaches), Enterococcus (brackish water reaches); field pH, conductivity, DO, temp., ORP.

Frequency: Once in September. Dry weather - rainfall must be less than 0.1-inches for prior 72 hours.

Samples: 4- 1 each from 4 sites; two up gradient and two down gradient of landfill; one pair for One Mile Creek and one pair for TMC. Assumes all 4 samples will be brackish water. Please note brackish water samples on sample containers.

<u>Groundwater contribution assessment throughout TMC</u>

Assess groundwater contribution at various points throughout the watershed. Groundwater flow and samples can be obtained from river craft and will not require site access. Propose to perform limited list of parameters for analysis. One sample session can be performed this summer. Project also has potential for long term sampling in future years.

Parameters: Surface water flow rate; 8 RCRA metals; TKN, NH_3, and NO_x; SRP and TP; BOD; COD; fecal coliform (freshwater reaches), Enterococcus (brackish water reaches); field pH, conductivity, DO, temp., ORP, turbidity, salinity.

Frequency: Once in September. Dry weather - rainfall must be less than 0.1-inches for prior 72 hours.

Sites: 20 – 2 each from 10 sites, see map provided in Figure 3-3. Please note brackish water samples on sample containers.

<u>Sediment sample assessment throughout TMC</u>

Assess sediments at various points throughout the watershed. Three samples will be obtained from each site and composited for analysis. Samples will be obtained from river craft and will not require site access.

Parameters: 8 RCRA metals; moisture content; organic content; TN; TP; BOD; COD; fecal coliform (freshwater reaches), Enterococcus (brackish water reaches); visual characterization.

Frequency: Once in September. Dry weather, rainfall less than 0.1-inches for 72 hours.

Samples: 10 – 1 each from 10 sites, see map. Please note brackish water samples on sample containers.

USA Field Report

Groundwater and Sediment Sample Collection In The Three Mile Creek Watershed

Graduate student researchers from the University of South Alabama Marine Sciences and Environmental Toxicology programs collected groundwater and sediment samples at locations throughout the Three Mile Creek watershed in Mobile, Alabama during September and October 2013. The locations of these sample sites are displayed on Figures 1 and 2 below.

These samples were collected to:

1) Generically assess the chemical makeup of baseflow/groundwater entering Three Mile Creek and selected tributaries throughout the watershed;

2) Generally characterize any contaminants entrained in the creek sediments in the watershed; and

3) Specifically assess the chemical composition of groundwater entering the creek system from an abandoned municipal solid waste landfill located near downtown Mobile (the Hickory Street Landfill).

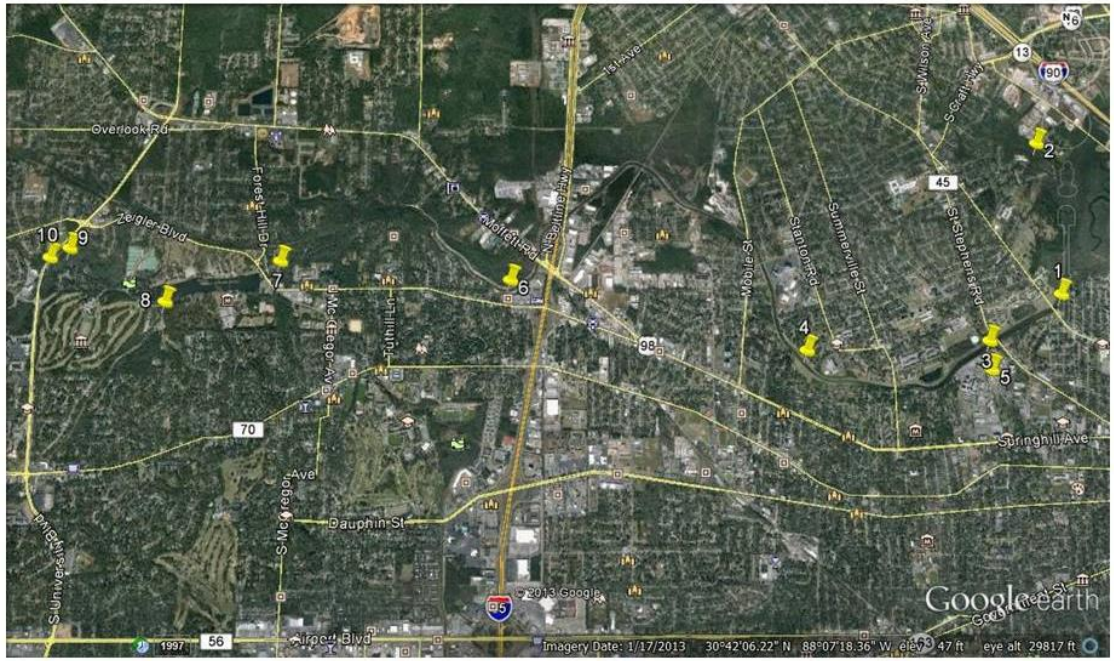

Figure 1. Locations of Sediment (SD) and Baseflow/Groundwater (GW) sample locations in the Three Mile Creek watershed.

The details of each of these sample subsets are described below, along with relevant information regarding sample collection and handing procedures.

Watershed Baseflow/Groundwater Samples

Baseflow/groundwater (GW) samples were collected at the locations displayed on Figure 1. The exception was location 1, where access concerns have prevented the collection of any samples to date.

Sampling was accomplished at all other locations using *mini piezometers* such as the one described schematically in Figure 3. Each of these was constructed onsite using PVC well screen, riser pipe, and fittings. A clear plastic sampling tube was attached to each mini piezometer. This tube was in turn connected at the surface to a peristaltic pump.

Figure 2. Locations of Hickory Street Landfill targeted groundwater (HS) samples.

At sampling locations GW-2 through GW-10 mini piezometers were emplaced into the creek bottom sediments close to the shoreline so that the screened section was completely buried. Prior to sampling, each piezometer was pumped for a few minutes and then allowed to rest. After a short equilibration period, the pressure of groundwater in the tubes at each sampling location was visually gauged and measured. Positive pressure gradients (groundwater rising in the tube above the level of local surface water) were indicative of groundwater flow into the creek. If no positive gradient was observed, the mini piezometer was relocated to other spots closer to shore at the same sampling location until a positive gradient was observed.

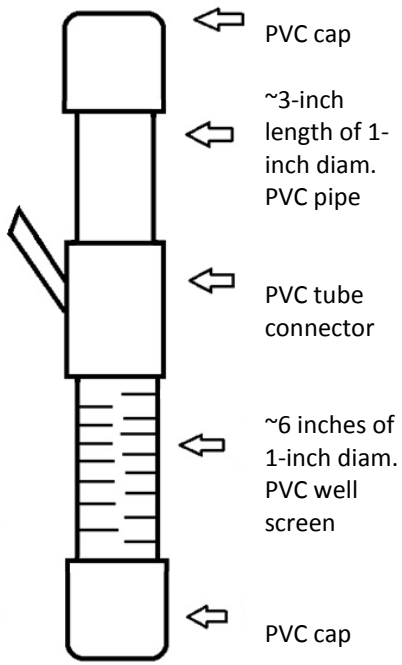

Figure 3. Mini piezometer schematic.

Piezometers displaying positive pressure gradients were sampled. To accomplish this, each was purged using a peristaltic pump and *low-flow/low-stress* sampling techniques.

Purging began with withdrawal of water from each mini piezometer at a rate that balanced discharge and recharge (equilibrium) and ended with the stabilization of field temperature, pH, and specific conductance readings as follows:

- pH = +/- 0.05
- Temperature = +/- 0.5 ^{o}C
- Conductivity = +/- 5%

Once the field parameters stabilized, groundwater was collected from the discharge stream of the peristaltic pump. For collection of VOC samples, the peristaltic pump discharge rate was placed on the lowest setting to minimize sample agitation.

Once collected, each sample was placed into a laboratory-provided sample container for subsequent laboratory analysis. Sample containers were labeled with waterproof ink, placed on ice in sealed laboratory-supplied coolers, and transported to the laboratory (TestAmerica Laboratories at 900 Lakeside Drive, Mobile, Alabama) for analysis within allotted holding times. Complete chain-of-custody documentation accompanied all coolers.

Personnel involved in groundwater (and all other) sampling wore clean latex gloves that were disposed of after each sample was collected, along with all tubing and other expendables used during the process.

Non-disposable sampling equipment (probes, etc.) was decontaminated prior to reuse using the following five-step procedure:

1) Phosphate-free detergent wash
2) Potable water rinse
3) Deionized water rinse
4) Isopropanol rinse

5) Deionized water rinse and air dry

Sediment Samples

Sediment (SD) samples were collected at the same locations as the baseflow/groundwater samples (Figure 1). These samples were collected from the upper 2 to 3 inches of sediment in the creek bed near the shoreline.

At each sampled location (SD-2 through SD-10), previously undisturbed sediment was collected using a glass container and then placed in a decontaminated glass mixing bowl. The material was then carefully homogenized with a glass mixing spoon. Subsequently, aliquots from the composited sample were placed in each laboratory-supplied sample container. These were then sealed, labeled, and placed on ice in laboratory-supplied coolers. The sealed coolers, along with completed chain-of-custody forms, were driven to the laboratory within allotted holding times for analysis.

Hickory Street Landfill Samples

Four locations (HS-1, 2, 3, and 4) were targeted for acquisition of groundwater discharge samples in the vicinity of the Hickory Street Landfill at the locations shown on Figure 2. One of these samples (HS-1) was located upgradient of the landfill and three (HS-2 through 4) were located downgradient. The HS-1 location was accessed by land at Earle Street bridge in the Orange Grove subdivision just north of Beauregard Street. The three downgradient sampling sites were all accessed by boat.

At each HS sampling location, a mini piezometer (Figure 3) was constructed and emplaced into the creek bottom close to the shoreline as described above. This allowed for low-flow/low-stress sample acquisition using a peristaltic pump. All HS groundwater sample acquisition, handing, and documentation/transport procedures, as well as all decontamination procedures, were carried out as described previously.

Sample Results Matrix

Sample Site Name	Groundwater Sample Report Restults						
	Gen Chem	O-P	P	Metals	BOD	Enterococci	Coliform, Fecal
1G							
1	400-80120-1						
2		400-80120-2					
3			400-80120-3				
4				400-80120-4			
5					400-80120-5		
6-7						*	*
2G							
1	*						
2		*					
3			*				
4				*			
5					*		
6-7						*	*
3G							
1	400-80120-6						
2-7		400-80383-7	400-80383-7	400-80383-7	400-80383-7	400-80383-7	400-80383-7
4G							
1	400-80120-7						
2		400-80120-8					
3			400-80120-9				
4				400-80120-10			
5					400-80120-11		
6-7						400-80383-6	400-80383-6
5G							
1-5	400-80411-2	400-80411-2	400-80411-2	400-80411-2	400-80411-2	*	*

Sample Site Name	Groundwater Sample Report Restults						
	Gen Chem	O-P	P	Metals	BOD	Enterococci	Coliform, Fecal
6G							
1	400-80120-16						
2		400-80120-17					
3			400-80120-18				
4				400-80120-19			
5					400-80120-20		
6-7						400-80383-5	400-80383-5
7G							
1	400-80118-10						
2		400-80118-11					
3			400-80118-12				
4				400-80118-13			
5					400-80118-14		
6-7						400-80383-4	400-80383-4
8G							
1	400-80118-7						
2		400-80118-6					
3	400-80118-5		*				
4				400-80118-4			
5					400-80118-3		
6-7						400-80383-3	400-80383-3
9G							
1-7	400-80383-2	400-80383-2	400-80383-2	400-80383-2	400-80383-2	400-80383-2	400-80383-2
10G							
1-7	400-80383-1	400-80383-1	400-80383-1	400-80383-1	400-80383-1	400-80383-1	400-80383-1

**Sample results not obtained.*

Sample Site Name	Sediment Sample Report Restults		
	Metals	Gen Chem	Coliform, Fecal
1S			
1	400-80120-12		
2		400-80120-13	
3			*
2S			
1	*		
2		*	
3			*
3S			
1-3	400-80383-9	400-80383-9	400-80383-9
4S			
1	400-80120-14		
2		400-80120-15	
3			400-80383-13
5S			
1-2	400-80411-1	400-80411-1	
3			*
6S			
1	400-80120-21		
2		400-80120-22	
3			400-80383-12
7S			
1	400-80118-8		
2		400-80118-9	
3			400-80383-14
8S			
1	400-80118-1		
2		400-80118-2	

Sample Site Name	Sediment Sample Report Restults		
	Metals	Gen Chem	Coliform, Fecal
3			400-80383-11
9S			
1-3	400-80383-8	400-80383-8	400-80383-8
10S			
1-3	400-80383-10	400-80383-10	400-80383-10

**Sample results not obtained.*

Sample Site Name	Stormwater Sample Report Restults									
	P	O-P	Metals	VOC	Semi-VOC	PCB	BOD	Phenol	Gen Chem	Cyanide
HS1										
1-14	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3	400-80411-3
HS2										
1	400-80278-27	_	_	_	_	_	_	_	_	_
2		400-80278-2								
3			400-80278-3							
4				400-80278-4						
6					400-80278-6					
8						400-80278-8				
10							400-80278-10			
11								400-80278-11		
12									400-80278-12	
13										400-80278-13
14									400-80278-14	
HS3										
1	400-80278-28									
2		400-80278-15								
3			400-80278-16							
4				400-80278-17						
6					400-80284-1					
8						400-80284-3				
10							400-80278-19			
11								400-80278-20		
12									*	
13										400-80278-22
14									*	
HS4										
1	400-80278-29									

Sample Site Name	Stormwater Sample Report Restults									
	P	O-P	Metals	VOC	Semi-VOC	PCB	BOD	Phenol	Gen Chem	Cyanide
2		400-80278-23								
3			400-80278-24							
4				400-80278-25						
6					400-80284-5					
8						400-80284-7				
10							400-80284-9			
11								400-80284-10		
13										400-80284-12
14									400-80284-13	