

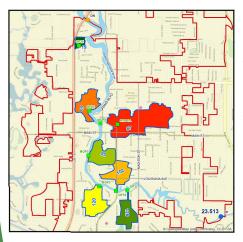
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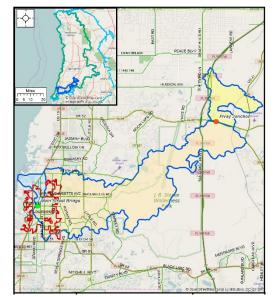
Client: New Port Richey Contact: Robert Rivera Phone: 727-853-1016 Date Awarded: 2/2015 Contract Amount: \$50,000

Pithlachascotee River Drainage Basin Study Water Quality Monitoring Assessment of Nutrient and Pollutant Loading

GHS Environmental, LLC (GHS) was contracted by the City of New Port Richey to develop a river basin study that falls in line with the objectives of SWFWMD and will identify the City's major nutrient and pollutant contributors along the Pithlachascotee River. Background data and information was gathered to create a historical record of data that included stream flow, water quality, rainfall and tidal influence. GHS



conducted an adaptive, phased water quality sampling program that was used to quantify basin loads and identified "hot spots" from specific sources. Sample collection occurred throughout



both the wet and dry seasons and were analyzed for concentrations of major inorganic constituents and physical characteristics, nutrients, trace elements, suspended sediment, selected organic compounds, and bacteriological and biological

constituents. A caffeine tracer analysis study was conducted and concluded that effluent from nearby septic systems reached the City's stormwater system and discharged directly to the Cotee River. With this data set, the City has a tool by which they can incorporate the correct best management practices (BMP's) relating to each of the individual basins specific land uses and pollutant load as the City continues its regular maintenance activities and restoration projects as the City continues to grow and change.

Priority List	Acreage	% Residential Land Uses	% Highway / Commercial Land Uses
60	38.5	72.6%	27.4%
87	122.5	39.4%	60.6%
120	46.8	47.3%	52.7%
102	37.0	80.8%	19.2%
19	8.6	51.9%	48.1%
95	40.3	99.3%	0.7%
92	71.3	35.4%	64.6%
126	34.0	47.0%	53.0%