

CHAPTER 102 PRE-DEVELOPMENT SITE CHARACTERIZATION SPREADSHEET

Project Site Name: HCPP Pipeline

Project Site Area: 101.8 acres Applicant: Homer City Generation, L.P.

Will PCSM requirements for the project be satisfied entirely by stormwater capture and use or riparian forest buffer SCMs or can the entire project be considered a site restoration activity?

Yes No

Is the project site located in an area of known karst terrain?

Yes No

Areas Excluded for Infiltration SCMs (*attach map(s)*)

Exclusion	Description	Area (ac)
1	Areas of a project site that will be disturbed for underground utilities or other infrastructure and then restored to approximate original condition.	91.8
4	Areas that are impervious land cover in the pre-construction condition and will not be disturbed and areas where road maintenance activities will occur as defined at 25 Pa. Code § 102.1.	4.5

Area Unsuitable for Infiltration SCMs (ac): 96.3
Area Potentially Suitable for Infiltration SCMs (ac): 5.5

Soils Investigation

Investigation method(s): Test pits Soil borings Other:

Name(s) of professional(s) overseeing soils investigation:

Name	Company	License/Certification
Tyler Reynolds	Civil & Environmental Consultants	PE with soils expertise

Test Pit / Soil Boring Log No. Test Locations: 10

Test Location ID	Investigation Method	Total Depth Investigated (ft)	Limiting Zone Elevation (ft)	Limiting Zone Description	Infiltration Test(s) Completed?
IT-01	Test Pit	4.2	4.2	Bedrock	No
IT-02	Test Pit	6.6	6.6	Bedrock	Yes
IT-03	Test Pit	4.2		None	Yes
IT-05	Test Pit	5.7	5.7	Bedrock	No
IT-06	Test Pit	3.3		None	Yes
IT-07	Test Pit	6		None	Yes

IT-08	Test Pit	6.7	6.7	Bedrock	Yes
IT-09	Test Pit	5.9		None	Yes
IT-10	Test Pit	5.6	4.6	Fragipan	No
IT-11	Test Pit	5.5		None	Yes

Infiltration Test Results No. Infiltration Tests: 7

Test Location ID	Infiltration Test ID	Infiltration Test Elevation (ft)	Infiltration Test Method	Field Ksat (in/hr)	Temp (°F)	Adjusted Ksat (in/hr)
IT-02	IT-02	3	Double Ring	0.6	60	0.660
IT-03	IT-03	2.2	Double Ring	2.92	60	3.212
IT-06	IT-06	1.1	Double Ring	0.22	66	0.217
IT-07	IT-07	4	Double Ring	16.24	60	17.864
IT-08	IT-08	4.6	Double Ring	13.38	68	12.818
IT-09	IT-09	4.3	Double Ring	4.36	77	3.732
IT-11	IT-11	0.75	Double Ring	5.02	77	4.297

Recommended infiltration test location frequency: 1 test / 40,000 square feet (4 minimum)
 Actual infiltration test location frequency: 1.17 test(s) / 40,000 square feet

Infiltration test location frequency is adequate.

Based on Ksat results alone (not considering limiting zones), opportunities for infiltration SCMs may exist on-site. These opportunities must be maximized to the extent practicable.