Sanitary Sewer Manholes Permit Required Confined Space Entry Permit												
1. Sanitary Sewer Manholes Entry Procedure and Permit **All shaded areas must be completed by the Entry Supervisor or Entrant**												
2. Work to be Performed and Location:						3. Date Issued: / /						
					Time Issued: : □ a.m. □ p.m.							
4. Permit Spa	ace Hazards (X = P	otential Hazard o	r Testing Requiremen	nt)	Tillie	e issue	u.	. ua.iii.	□ p.m.			
X Oxygen - hazardous when less that than or equal to 23.5 %.			an or equal to 19.5%	OR greater			Mechanic Steam F	cal Hazards (Pneuma alling Objects, Etc.)	tic, Hydraulic, Electri	cal, Chemical,		
X Flammable Gases or Vapors - haz			ardous when greater	than 10% of	Х			ent Potential				
X Hydrogen Sulfide - hazardous who			en greater than 10 PF	PM			Physical	Hazards - (bees, inse	ects, spiders, heat du	ring the summer)		
X Carbon Monoxide - hazardous when for when welding or near a fuel comb					X Confined Space Configuration, Layout or Arrangement				nent			
	Other Toxics:											
	al Permits or Form		if required)									
Hot Work Permit: □YES □NO □N/A LOTO / Hazardous Energy Control Procedure: □YES □NO □N/A Other:												
6. Equipment Required for Entry & Work (Check box when complete)												
□ PPE		Typek suit, rubber gloves, rubber boots, and body harness.										
Atmospheric Testing the space. Conf			quired for testing. Test atmosphere in manhole by using stratified method of checking atmosphere at different levels within tinuous monitoring is required throughout the duration of the entry.									
☐ Respirato	ry Protection	·	this space under normal atmospheric conditions. If contaminant levels are outside limits, ventilate space before entry.									
□ Ventilati	ion Equipment		ere by 4-gas meter prior to and during entry. Ventilation must be used on sanitary sewer manholes due to sewage gas. and downstream manhole covers, if possible, to help improve the fresh air ventilation of the sewer system.									
□ Rescue E		connected to the	pod with 4-way hauling system to pull out entrant in the event of an emergency. Entrant must wear harness and be 4-way hauling system.							ness and be		
_								Confined Space Rescue The assigned confined space attendant is responsible for evacuating entrants in				
	adio						the event of an emergency by means of vocal communication or retrieval equipment used for the entry. At no time will the attendant enter the confined space. In the event the attendant is unable to evacuate the entrant(s), the					
□ Other					Charlotte Fire Department will be 704-687-2200 to provide rescue			Department will be not to provide rescue assi	notified by UNC Charlotte Police Dispatch at assistance. Upon the arrival of rescue			
9. Authorize	d Entrants (List by	name)			personnel, the attendant should brief the rescuers of any notable information. 10. Authorized Attendants (List by name)					nable information.		
11. Preparati	ion for Entry (Chec											
			rvice interruption and complete the Confined Space Entry Permit and other related permits or forms. Service on a sanitary completed on a day with no precipitation or chance of precipitation. Storm water coming into the sanitary sewer system									
			ntry. If necessary, use a pump within the sanitary manhole to remove excess water. bols and PPE prior to entry. Barricade the area to prevent unauthorized entry or access. Setup necessary equipment for									
	entry operations Ensure that all I	is isolated per the sp	isolated per the specific Hazardous Energy Control Procedure. If possible, stop water discharges to the sanitary sewer									
	manhole in question during the servicing period. De-energize any pump ed						o equipment that discharges to the sewer prior to making entry into the sewer.					
	Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.											
	reading with ap	Open upstream and downstream manhole covers, if possible, to help improve the fresh air ventilation of the sewer system. Take a preliminary atmospheric reading with approved 4-gas meter and record reading on Step 12. Atmosphere should be continuously tested during entry. Periodically record sample readings in Step 12. Ventilate as necessary. Test atmosphere from the bottom to the top of the manhole so that all levels are checked.										
	Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.											
12. Atmosphere Testing Record Acceptable Conditions			Pre-Entry Results	Entry #1 Resu	ılts En	ntry #2	Results	Entry #3 Results	Entry #4 Results	Entry #5 Results		
Time of Sampling												
CH ₄ – Methane - Less than 10% of LEL / LFL												
O ₂ - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%												
H ₂ S - Hydrogen Sulfide - < than 10 PPM												
CO - Carbon Monoxide - < than 35 PPM												
Other Toxic:												
Tester Initia	ls											
13. Authorization by Entry Supervisors I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this sanitary sewer manhole confined space.										ed space		
Printed Nam			gnature					ork in this samary se Date	Time	□a.m. □p.m.		
14. Permit Cancellation (Complete at the end of job not to exceed 24 hours)							Date Time □a.m. □p.m.					
This permit must be posted at the job site One Copy to Department's File and One Copy to EHS Office (Fax 7-5302 or EHS Building)												