ENVIRONMENTAL MANAGEMENT PROGRAM 1. PROGRAM NAME: **NIEHS Drinking Water Program** 2. Significant Environmental Aspect(s): 3. Document Control Code: EMP-2007-DrinkingWater 11/29/2007 4. Date: Water Consumption 5. Program Lead: Bill Steinmetz - HSB NIH/ORF USRO Gordon Caviness - CMB/QAL 6. Goals and Objectives **Five-year Goals(s): Annual Objective(s): Resource requirements Performance Indicator(s)** Provide safe drinking water by % filters changed 1.5 years Current resources annually changing all filters Test all drinking water sources every two following installation years Maintain compliance with EPA All test results meet EPA primary Current resources drinking water standards and secondary drinking water standards Provide additional water filters Assure that filters meet ANSI/NSF Current resources Standards 42 (aesthetic) and 53 as needed based on test results (health) for reducing contaminants in drinking water Maintain compliance with cross Water vacuum breakers installed in Current resources connection regulations research laboratories as required Backflow prevention system maintained as required 7. Reason(s) for Significance: Potential health impact

Legal or Other Requirement

8. Potential Environmental Impacts:

Drinking water system contamination

9. Legal and Other Requirements (Specify):

10. Program Description:

Domestic water is provided to NIEHS facilities by the City of Durham. The municipal water supply is required to meet primary and secondary drinking water standards established by the EPA. All water fountains located in Building 101, Modules A - E are equipped with water filtration cartridges designed to remove 99 percent of chlorine, 90 percent of lead, as well as sediment, rust, bad taste and odor. Filtered water is also provided in the hallway break areas located just outside of the Building 101 D and E Module conference rooms and in the F1 and F2 break rooms. Filters are replaced on an annual basis or after 1200 gallons of water usage. Drinking water fountains located in Building 101, F-Module are not filtered as they have been certified lead-free by the manufacturer and were subsequently tested with satisfactory results following initial installation. Samples collected from all F-Module water fountains indicated levels of copper and iron that are below EPA drinking water guidelines and non-detectable levels of lead.

11. Operational Controls

Activity	Controls	Responsible Party / Job Function	Monitoring	Records	Comments
Water consumption from	City of Durham	City of Durham	City of Durham	City of Durham	
fountains, bottled water	Water Treatment		water quality	water test results	
coolers and break area	Plant	NIH/ORF USRO	testing		
faucets	Backflow prevention			NIEHS inspection	
	program	HSB / Environmental	NIEHS inspection	& maintenance	
	Vacuum breakers	Compliance Specialist	& maintenance	records	
	installed on		program		
	laboratory faucets				
	Separate icemakers		Periodic lab		
	provided for lab		inspections		
	usage and human				
	consumption				
	HSB water bottle				
	changing procedure				
Drinking water filter	Procedure for filter	NIH/ORF USRO	Filters replaced	Water filter	
replacement	installation provided		annually	database	
	by the manufacturer			Filter installation	
				date logged on	
				filter housing	
Maintenance and repair	Plumbing	NIH/ORF USRO	Maintenance and	Work order	A small amount of bottled
of drinking water	maintenance and		repair occur on an	requests submitted	water stations are also located
sources	repair procedures		as needed basis	through email Help	onsite, maintained through a

Drinking water sampland analysis program	obtained through on- the-job training and/or plumbing certification ing EPA drinking water sampling procedures and contract laboratory procedures National Primary and Secondary Drinking Water Regulations	CMB / Quality Assurance Lab		Procedure reviewed annually	Request (QAL sa records) Contrac	ampling	Drinking water samples are evaluated in-house for microbiological contaminants. All other parameters are evaluated offsite by contract laboratories		
12. Action Plan: Stru	icture, Authorities, Respons	sibilities							
Targets/Milestones to meet Annual Objectives				Timeframe	Responsible		Party/ Job Function		
Annually replace all drinking water filters				Annual	NIH/ORF U		SRO		
Assure that all drinking water filters are replaced						NIEHS/HSB Specialist	S/HSB Environmental Compliance		
Test drinking water sources every two years or as requested by HSB			В	Biennial		NIEHS/CMB/QAL			
13. Relevant Docume	ent(s)								
Document Name Lo			Locati			File Custodian			
EPA National Primary & Secondary Drinking Water Standards			Bldg 101 A-basement HSB files HSB / Environmental Compliance S						
14. Competence of po	ersons responsible								
			asis for Competence						
HSB / Environmental Compliance Specialist P.			Professional level education and experience; On-the-job Training,						
NIH / ORF USRO On			On-the-job Training,						
CMB / Quality Assurance Laboratory			On-the-job Training						
15. Authorization		,							
Name / Signature:	William K. Steinmetz								
Date:	November 29, 2007								