

Appendix D
2016 Facility Monitoring
Groundwater Results

AGS Research Areas

Analytical Results

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	054-07 depth : 35 4/21/2016 pCi/L				054-07 depth : 35 10/11/2016 pCi/L				054-08 depth : 48 11/16/2016 pCi/L				054-124 depth : 32 4/21/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	29100		387	2800	23500		364	2300	-20.3	U	364	200	-149	U	383	198

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-124 depth : 32 10/11/2016 pCi/L				054-125 depth : 32 11/3/2016 pCi/L				054-126 depth : 35 4/21/2016 pCi/L				054-126 depth : 35 10/11/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	18	U	360	203	22.5	U	376	210	-125	U	383	201	-73.4	U	384	203

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-127 depth : 30 11/8/2016 pCi/L				054-128 depth : 30 11/8/2016 pCi/L				054-129 depth : 28 11/8/2016 pCi/L				054-130 depth : 30 11/7/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-22.5	U	366	202	81.1	U	370	214	410		376	251	297	U	373	238

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	054-168 depth : 25 11/8/2016 pCi/L				054-169 depth : 25 11/8/2016 pCi/L				054-184 depth : 32 4/21/2016 pCi/L				054-184 depth : 32 10/11/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	9.01	U	376	209	-4.5	U	370	205	27000		385	2610	919		360	292

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-185 depth : 32 4/21/2016 pCi/L				054-185 depth : 32 10/11/2016 pCi/L				054-191 depth : 28 11/9/2016 pCi/L				054-62 depth : 26 11/9/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	8920		377	1010	766		367	281	222	U	397	244	-28.4	U	356	196

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-63 depth : 50 11/9/2016 pCi/L				054-64 depth : 50 11/9/2016 pCi/L				054-65 depth : 25 4/21/2016 pCi/L				054-65 depth : 25 10/11/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	342	U	373	243	-47.3	U	360	195	-190	U	382	194	-108	U	364	191

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-66 depth : 26 11/3/2016 pCi/L				054-67 depth : 25 11/3/2016 pCi/L				054-68 depth : 25 11/3/2016 pCi/L				054-69 depth : 25 11/3/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-45.9	U	364	198	-18	U	368	202	144	U	369	220	-38.7	U	366	199

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	055-14 depth : 25 11/3/2016 pCi/L				055-15 depth : 26 11/9/2016 pCi/L				055-16 depth : 25 11/16/2016 pCi/L				055-29 depth : 52 11/16/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	36	U	370	210	-20.3	U	367	201	-17.6	U	371	203	-117	U	380	195

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	055-30 depth : 28 11/16/2016 pCi/L				055-31 depth : 50 10/13/2016 pCi/L				055-32 depth : 48 11/9/2016 pCi/L				064-03 depth : 48 11/9/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-53.2	U	367	197	94.6	U	297	175	-80.2	U	368	195	-71.2	U	360	193

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	064-51 depth : 46 11/16/2016 pCi/L				064-53 depth : 40 11/9/2016 pCi/L				064-54 depth : 40 11/9/2016 pCi/L				064-55 depth : 33 11/8/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	85.6	U	360	210	-150	U	358	182	0	U	377	207	248	U	373	233

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	064-56 depth : 30 11/8/2016 pCi/L				064-80 depth : 30 11/8/2016 pCi/L				064-95 depth : 32 4/21/2016 pCi/L				064-95 depth : 32 10/11/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	158	U	375	224	604		373	270	-18	U	378	209	-13.5	U	373	205

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	065-120 depth : 30 11/9/2016 pCi/L				065-121 depth : 26 10/13/2016 pCi/L				065-122 depth : 29 10/13/2016 pCi/L				065-123 depth : 26 10/13/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	12.6	U	403	220	113	U	291	175	16300		300	1620	252	U	293	190

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	065-124 depth : 26 10/13/2016 pCi/L				065-125 depth : 26 10/13/2016 pCi/L				065-126 depth : 26 10/13/2016 pCi/L				065-192 depth : 52 11/9/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	126	U	293	177	194	U	281	178	252	U	292	189	159	U	392	234

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
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Analyte	065-193 depth : 55 10/13/2016 pCi/L				065-194 depth : 50 10/13/2016 pCi/L				065-195 depth : 50 10/13/2016 pCi/L				065-321 depth : 32 10/13/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	117	U	293	176	604		290	222	135	U	295	178	113	U	302	180

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	065-322 depth : 32 10/13/2016 pCi/L				065-323 depth : 30 10/13/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	81.1	U	276	165	29100		303	2750

**Motor Pool Area
Analytical Results**

Analyte	102-05 depth : 57 10/12/2016		102-06 depth : 56 10/12/2016		102-10 depth : 52 10/12/2016		102-11 depth : 52 10/12/2016		102-12 depth : 52 10/12/2016		102-13 depth : 52 10/12/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.3	J	0.77		0.61		0.84	
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.093	J	0.93		0.81		0.78	
1,1-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,2,4-trimethyl	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,3,5-trimethyl-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1-methylethyl-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.15	J	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.3	J	0.34	J	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cymene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
DBCP	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
EDB	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethene, 1,2-dichloro-, (E)-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
m-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
m/p xylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl bromide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert-butyl ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylene (total)	3	U	3	U	3	U	3	U	3	U	3	U
524.2 TVOC	0		0.3		0.883		1.7		1.42		1.62	

**Major Petroleum Facility
Analytical Results**

2016 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

<i>Analyte</i>	076-16 depth : 35 4/7/2016 µg/L		076-16 depth : 35 10/21/2016 µg/L		076-17 depth : 35 4/7/2016 µg/L		076-17 depth : 35 10/21/2016 µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U
Acetone	10	U	0.88	J	10	U	0.75	J
Benzene	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U
Chloroform	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
m-Dichlorobenzene	9.5	U	1.9	U	5	U	5	U
Methyl bromide	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U
o-Dichlorobenzene	9.5	U	5	U	9.5	U	5	U
p-Dichlorobenzene	9.5	U	5	U	5	U	5	U
Tetrachloroethylene	5	U	5	U	5	U	5	U
Toluene	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U

2016 Groundwater Data: Volatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-18 depth : 30 4/7/2016		076-18 depth : 30 10/21/2016		076-19 depth : 30 4/7/2016		076-19 depth : 30 10/24/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U
Acetone	10	U	1.2	J	10	U	0.94	J
Benzene	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U
Chloroform	1.5	J	2.4	J	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
m-Dichlorobenzene	9.8	U	5	U	11	U	1.9	U
Methyl bromide	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U
o-Dichlorobenzene	5	U	5	U	11	U	1.9	U
p-Dichlorobenzene	9.8	U	5	U	5	U	1.9	U
Tetrachloroethylene	0.85	J	5	U	5	U	5	U
Toluene	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U

2016 Groundwater Data: Volatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-25 depth : 42 4/7/2016		076-25 depth : 42 10/21/2016		076-378 depth : 34 4/7/2016		076-378 depth : 34 10/21/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U
Acetone	10	U	1	J	10	U	1.7	J
Benzene	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U
Chloroform	0.34	J	0.3	J	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
m-Dichlorobenzene	9.9	U	5	U	10	U	5	U
Methyl bromide	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U
o-Dichlorobenzene	9.9	U	5	U	5	U	5	U
p-Dichlorobenzene	9.9	U	1.9	U	5	U	2	U
Tetrachloroethylene	5.8		6.4		5	U	5	U
Toluene	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethylene	0.36	J	0.45	J	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U

2016 Groundwater Data: Volatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-379 depth : 36 4/7/2016		076-379 depth : 36 10/24/2016		076-380 depth : 34 4/7/2016		076-380 depth : 34 10/21/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U
Acetone	10	U	0.94	J	10	U	10	U
Benzene	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U
Chloroform	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
m-Dichlorobenzene	10	U	1.9	U	5	U	2	U
Methyl bromide	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U
o-Dichlorobenzene	10	U	1.9	U	9.7	U	2	U
p-Dichlorobenzene	10	U	1.9	U	9.7	U	2	U
Tetrachloroethylene	5	U	5	U	0.72	J	2.4	J
Toluene	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U

2016 Groundwater Data: Semivolatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-16 depth : 35 4/7/2016		076-16 depth : 35 10/21/2016		076-17 depth : 35 4/7/2016		076-17 depth : 35 10/21/2016		076-18 depth : 30 4/7/2016		076-18 depth : 30 10/21/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
1,2,4-Trichlorobenzene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2,4,6-Trichlorophenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2,4-Dichlorophenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2,4-Dimethylphenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2,4-Dinitrophenol	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
2,4-Dinitrotoluene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2,6-Dinitrotoluene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2-Chloronaphthalene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
2-Chlorophenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
3,3'-Dichlorobenzidine	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
4,6-Dinitro-o-cresol	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
4-Bromophenyl phenyl ether	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
4-Chlorophenyl phenyl ether	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Acenaphthene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Acenaphthylene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Anthracene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Benzo(a)anthracene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Benzo(a)pyrene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Benzo(b)fluoranthene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Benzo(ghi)perylene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Benzo(k)fluoranthene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Bis(2-chloroethoxy)methane	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Bis(2-chloroethyl)ether	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Bis(2-ethylhexyl)phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
bis-chloroisopropyl ether	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Butyl benzyl phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Chrysene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Di-n-butyl phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Di-n-octyl phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Dibenzo(a,h)anthracene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Diethyl phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Dimethyl phthalate	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Fluoranthene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Fluorene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Hexachlorobenzene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Hexachlorobutadiene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Hexachlorocyclopentadiene	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
Hexachloroethane	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Indeno(1,2,3-cd)pyrene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Isophorone	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
m-Dichlorobenzene	9.5	U	1.9	U	5	U	5	U	9.8	U	5	U
N-Nitrosodimethylamine	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
N-Nitrosodiphenylamine	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
N-Nitrosodipropylamine	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Naphthalene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Nitrobenzene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
o-Dichlorobenzene	9.5	U	5	U	9.5	U	5	U	5	U	5	U
o-Nitrophenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
p-Chloro-m-cresol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
p-Dichlorobenzene	9.5	U	5	U	5	U	5	U	9.8	U	5	U
p-Nitrophenol	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
PCP	47	U	9.6	U	48	U	9.6	U	49	U	9.5	U
Phenanthrene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Phenol	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U
Pyrene	9.5	U	1.9	U	9.5	U	1.9	U	9.8	U	1.9	U

2016 Groundwater Data: Semivolatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-19 depth : 30 4/7/2016		076-19 depth : 30 10/24/2016		076-25 depth : 42 4/7/2016		076-25 depth : 42 10/21/2016		076-378 depth : 34 4/7/2016		076-378 depth : 34 10/21/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
1,2,4-Trichlorobenzene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2,4,6-Trichlorophenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2,4-Dichlorophenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2,4-Dimethylphenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2,4-Dinitrophenol	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
2,4-Dinitrotoluene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2,6-Dinitrotoluene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2-Chloronaphthalene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
2-Chlorophenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
3,3'-Dichlorobenzidine	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
4,6-Dinitro-o-cresol	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
4-Bromophenyl phenyl ether	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
4-Chlorophenyl phenyl ether	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Acenaphthene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Acenaphthylene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Anthracene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Benzo(a)anthracene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Benzo(a)pyrene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Benzo(b)fluoranthene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Benzo(ghi)perylene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Benzo(k)fluoranthene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Bis(2-chloroethoxy)methane	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Bis(2-chloroethyl)ether	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Bis(2-ethylhexyl)phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
bis-chloroisopropyl ether	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Butyl benzyl phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Chrysene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Di-n-butyl phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Di-n-octyl phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Dibenzo(a,h)anthracene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Diethyl phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Dimethyl phthalate	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Fluoranthene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Fluorene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Hexachlorobenzene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Hexachlorobutadiene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Hexachlorocyclopentadiene	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
Hexachloroethane	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Indeno(1,2,3-cd)pyrene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Isophorone	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
m-Dichlorobenzene	11	U	1.9	U	9.9	U	5	U	10	U	5	U
N-Nitrosodimethylamine	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
N-Nitrosodiphenylamine	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
N-Nitrosodipropylamine	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Naphthalene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Nitrobenzene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
o-Dichlorobenzene	11	U	1.9	U	9.9	U	5	U	5	U	5	U
o-Nitrophenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
p-Chloro-m-cresol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
p-Dichlorobenzene	5	U	1.9	U	9.9	U	1.9	U	5	U	2	U
p-Nitrophenol	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
PCP	53	U	9.5	U	49	U	9.5	U	52	U	9.9	U
Phenanthrene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Phenol	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U
Pyrene	11	U	1.9	U	9.9	U	1.9	U	10	U	2	U

2016 Groundwater Data: Semivolatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

Analyte	076-379 depth : 36 4/7/2016		076-379 depth : 36 10/24/2016		076-380 depth : 34 4/7/2016		076-380 depth : 34 10/21/2016	
	µg/L		µg/L		µg/L		µg/L	
1,2,4-Trichlorobenzene	10	U	1.9	U	9.7	U	2	U
2,4,6-Trichlorophenol	10	U	1.9	U	9.7	U	2	U
2,4-Dichlorophenol	10	U	1.9	U	9.7	U	2	U
2,4-Dimethylphenol	10	U	1.9	U	9.7	U	2	U
2,4-Dinitrophenol	50	U	9.7	U	48	U	9.9	U
2,4-Dinitrotoluene	10	U	1.9	U	9.7	U	2	U
2,6-Dinitrotoluene	10	U	1.9	U	9.7	U	2	U
2-Chloronaphthalene	10	U	1.9	U	9.7	U	2	U
2-Chlorophenol	10	U	1.9	U	9.7	U	2	U
3,3'-Dichlorobenzidine	50	U	9.7	U	48	U	9.9	U
4,6-Dinitro-o-cresol	50	U	9.7	U	48	U	9.9	U
4-Bromophenyl phenyl ether	10	U	1.9	U	9.7	U	2	U
4-Chlorophenyl phenyl ether	10	U	1.9	U	9.7	U	2	U
Acenaphthene	10	U	1.9	U	9.7	U	2	U
Acenaphthylene	10	U	1.9	U	9.7	U	2	U
Anthracene	10	U	1.9	U	9.7	U	2	U
Benzo(a)anthracene	10	U	1.9	U	9.7	U	2	U
Benzo(a)pyrene	10	U	1.9	U	9.7	U	2	U
Benzo(b)fluoranthene	10	U	1.9	U	9.7	U	2	U
Benzo(ghi)perylene	10	U	1.9	U	9.7	U	2	U
Benzo(k)fluoranthene	10	U	1.9	U	9.7	U	2	U
Bis(2-chloroethoxy)methane	10	U	1.9	U	9.7	U	2	U
Bis(2-chloroethyl)ether	10	U	1.9	U	9.7	U	2	U
Bis(2-ethylhexyl)phthalate	10	U	1.9	U	9.7	U	2	U
bis-chloroisopropyl ether	10	U	1.9	U	9.7	U	2	U
Butyl benzyl phthalate	10	U	1.9	U	9.7	U	2	U
Chrysene	10	U	1.9	U	9.7	U	2	U
Di-n-butyl phthalate	10	U	1.9	U	9.7	U	2	U
Di-n-octyl phthalate	10	U	1.9	U	9.7	U	2	U
Dibenzo(a,h)anthracene	10	U	1.9	U	9.7	U	2	U
Diethyl phthalate	10	U	0.29	J	9.7	U	2	U
Dimethyl phthalate	10	U	1.9	U	9.7	U	2	U
Fluoranthene	10	U	1.9	U	9.7	U	2	U
Fluorene	10	U	1.9	U	9.7	U	2	U
Hexachlorobenzene	10	U	1.9	U	9.7	U	2	U
Hexachlorobutadiene	10	U	1.9	U	9.7	U	2	U
Hexachlorocyclopentadiene	50	U	9.7	U	48	U	9.9	U
Hexachloroethane	10	U	1.9	U	9.7	U	2	U
Indeno(1,2,3-cd)pyrene	10	U	1.9	U	9.7	U	2	U
Isophorone	10	U	1.9	U	9.7	U	2	U
m-Dichlorobenzene	10	U	1.9	U	5	U	2	U
N-Nitrosodimethylamine	10	U	1.9	U	9.7	U	2	U
N-Nitrosodiphenylamine	10	U	1.9	U	9.7	U	2	U
N-Nitrosodipropylamine	10	U	1.9	U	9.7	U	2	U
Naphthalene	10	U	1.9	U	9.7	U	2	U
Nitrobenzene	10	U	1.9	U	9.7	U	2	U
o-Dichlorobenzene	10	U	1.9	U	9.7	U	2	U
o-Nitrophenol	10	U	1.9	U	9.7	U	2	U
p-Chloro-m-cresol	10	U	1.9	U	9.7	U	2	U
p-Dichlorobenzene	10	U	1.9	U	9.7	U	2	U
p-Nitrophenol	50	U	9.7	U	48	U	9.9	U
PCP	50	U	9.7	U	48	U	9.9	U
Phenanthrene	10	U	1.9	U	9.7	U	2	U
Phenol	10	U	1.9	U	9.7	U	2	U
Pyrene	10	U	1.9	U	9.7	U	2	U

**RHIC Facility
Analytical Results**

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-03 depth : 46 3/2/2016 pCi/L				025-03 depth : 46 8/5/2016 pCi/L				025-04 depth : 46 3/2/2016 pCi/L				025-04 depth : 46 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-23.4	U	253	144	-117	U	343	176	0.321	U	254	145	-124	U	338	173

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-05 depth : 12 2/23/2016 pCi/L				025-05 depth : 12 8/4/2016 pCi/L				025-06 depth : 12 2/23/2016 pCi/L				025-06 depth : 12 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	79.4	U	253	148	-125	U	348	177	87.5	U	230	135	-76.1	U	325	174

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-07 depth : 13 2/23/2016 pCi/L				025-07 depth : 13 8/4/2016 pCi/L				025-08 depth : 12 2/23/2016 pCi/L				025-08 depth : 12 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-128	U	251	138	-80.6	U	330	175	20.7	U	250	144	-95	U	342	178

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	034-05 depth : 42 3/2/2016 pCi/L				034-05 depth : 42 8/5/2016 pCi/L				034-06 depth : 42 3/2/2016 pCi/L				034-06 depth : 42 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-42.9	U	249	141	-142	U	335	169	-34.4	U	250	142	-75.7	U	341	180

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	043-01 depth : 41 2/23/2016 pCi/L				043-01 depth : 41 8/4/2016 pCi/L				043-02 depth : 64 2/23/2016 pCi/L				043-02 depth : 64 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	20	U	255	147	-127	U	345	175	-42.8	U	253	143	-90.5	U	359	185

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	044-13 depth : 38 2/23/2016 pCi/L				044-13 depth : 38 8/5/2016 pCi/L				044-14 depth : 59 2/23/2016 pCi/L				044-14 depth : 59 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-4.16	U	253	145	-37.4	U	347	187	23.2	U	244	141	-114	U	362	184

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	044-29 depth : 35 2/23/2016 pCi/L				044-29 depth : 35 8/4/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-17.3	U	251	143	-49.1	U	342	184

Service Station
Analytical Results

2016 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Service Station

Analyte	085-17 depth : 45 10/12/2016		085-235 depth : 42 10/12/2016		085-236 depth : 42 10/12/2016		085-237 depth : 42 10/12/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
2,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,2,4-trimethyl	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,3,5-trimethyl-	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1-methylethyl-	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobromomethane	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.21	J	0.14	J	0.22	J	0.19	J
cis-1,2-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
Cymene	0.5	U	0.5	U	0.5	U	0.5	U
DBCP	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U
EDB	0.5	U	0.5	U	0.5	U	0.5	U
Ethene, 1,2-dichloro-, (E)-	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U
m-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
m/p xylene	0.5	U	0.5	U	0.5	U	0.5	U
Methyl bromide	0.5	U	0.5	U	0.5	U	0.5	U
Methyl chloride	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert-butyl ether	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	0.5	U	0.5	U	0.5	U	0.5	U
n-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U
o-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U
p-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	5.2		0.5	U	2		0.5	
Toluene	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U	0.5	U	0.5	U
Xylene (total)	3	U	3	U	3	U	3	U
524.2 TVOC	5.41		0.14		2.22		0.69	

**Sewage Treatment Plant and Peconic River
Analytical Results**

2016 Groundwater Data: Metals
 Brookhaven National Laboratory
 Project: Sewage Treatment Plant and Peconic River

<i>Analyte</i>	039-115 depth : 20 11/2/2016 µg/L		039-87 depth : 19 11/3/2016 µg/L		039-88 depth : 24 11/2/2016 µg/L		039-89 depth : 22 11/2/2016 µg/L		048-08 depth : 20 11/2/2016 µg/L		048-09 depth : 20 11/2/2016 µg/L		048-10 depth : 20 11/2/2016 µg/L	
Aluminum	50	U	470		170		36	B	94		480		28	B
Antimony	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Barium	58		22		200		130		31		130		45	
Beryllium	2	U	0.59	B	0.49	B	2	U	2	U	0.4	B	2	U
Cadmium	2	U	1	B	1.2	B	0.25	B	2	U	2	U	2	U
Calcium	20000		6900		9100		8200		8900		6000		8000	
Chromium	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cobalt	4.5	B	1.1	B	3.2	B	1.3	B	5	U	1.8	B	1.8	B
Copper	5.6	B	0.66	B	0.97	B	10	U	2.6	B	0.6	B	0.61	B
Iron	63		230		46	B	130		130		200		55	
Lead	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Magnesium	8300		1200		5500		3900		1700		3400		6300	
Manganese	7.6		14		85		48		18		110		210	
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Potassium	7200		750	B	3000		2700		570	B	1300	B	2500	
Selenium	5	U	5	U	5	U	5	U	5	U	2.5	B	5	U
Silver	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Sodium	67000		6300		59000		59000		32000		44000		50000	
Thallium	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vanadium	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Zinc	20	U	15	B	21		20	U	14	B	9	B	20	U

2016 Groundwater Data: Pesticides
 Brookhaven National Laboratory
 Project: Sewage Treatment Plant and Peconic River

Analyte	039-115 depth : 20 11/2/2016		039-87 depth : 19 11/3/2016		039-88 depth : 24 11/2/2016		039-89 depth : 22 11/2/2016		048-08 depth : 20 11/2/2016		048-09 depth : 20 11/2/2016		048-10 depth : 20 11/2/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
4,4"-DDD	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
4,4"-DDE	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
4,4"-DDT	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Aldrin	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
alpha-BHC	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
alpha-Chlordane	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
beta-BHC	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
delta-BHC	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Dieldrin	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endosulfan I	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endosulfan II	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endosulfan sulfate	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endrin	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endrin aldehyde	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Endrin ketone	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
gamma-Chlordane	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Heptachlor	0.18		0.056	U	0.14		0.05	U	0.053		0.085		0.12	
Heptachlor epoxide	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Lindane	0.05	U	0.056	U	0.048	U	0.05	U	0.052	U	0.049	U	0.05	U
Methoxychlor	0.099	U	0.11	U	0.096	U	0.099	U	0.1	U	0.099	U	0.099	U
Toxaphene	2	U	2.2	U	1.9	U	2	U	2.1	U	2	U	2	U

Waste Management Facility
Analytical Results

2016 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	055-03 depth : 50 3/9/2016		055-03 depth : 50 8/16/2016		055-10 depth : 94 3/9/2016		055-10 depth : 94 8/16/2016		066-220 depth : 46 3/9/2016		066-220 depth : 46 8/16/2016		066-221 depth : 47 3/9/2016		066-221 depth : 47 8/16/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,2,4-trimethyl	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,3,5-trimethyl-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1-methylethyl-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.25	J	0.57		1.3		0.5	U	0.12	J	0.5	U	0.5	U
cis-1,2-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Cymene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
DBCP	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
EDB	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethene, 1,2-dichloro-, (E)-	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
m-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
m/p xylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl bromide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert-butyl ether	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Xylene (total)	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
524.2 TVOC	0		0.25		0.57		1.3		0		0.12		0		0	

2016 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	066-222 depth : 48 3/9/2016		066-222 depth : 48 8/16/2016		066-223 depth : 48 3/9/2016		066-223 depth : 48 8/16/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
2,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,2,4-trimethyl	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1,3,5-trimethyl-	0.5	U	0.5	U	0.5	U	0.5	U
Benzene, 1-methylethyl-	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobromomethane	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,2-Dichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
Cymene	0.5	U	0.5	U	0.5	U	0.5	U
DBCP	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	0.11	J	0.5	U	0.5	U	0.5	U
EDB	0.5	U	0.5	U	0.5	U	0.5	U
Ethene, 1,2-dichloro-, (E)-	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	U	0.5	U	0.5	U	0.5	U
m-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
m/p xylene	0.5	U	0.5	U	0.5	U	0.5	U
Methyl bromide	0.5	U	0.5	U	0.5	U	0.5	U
Methyl chloride	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert-butyl ether	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	0.5	U	0.5	U	0.5	U	0.5	U
n-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U
o-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	0.5	U	0.5	U	0.5	U	0.5	U
p-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U
sec-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethylene	0.5	U	0.5	U	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U	0.5	U	0.5	U
Xylene (total)	3	U	3	U	3	U	3	U
524.2 TVOC	0.11		0		0		0	

2016 Groundwater Data: Metals
 Brookhaven National Laboratory
 Project: Waste Management Facility

<i>Analyte</i>	055-03 depth : 50 8/16/2016		055-10 depth : 94 8/16/2016		066-220 depth : 46 8/16/2016		066-221 depth : 47 8/16/2016		066-222 depth : 48 8/16/2016		066-223 depth : 48 8/16/2016	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Aluminum	19	B	24	B	82		45	B	61		99	
Antimony	5	U	5	U	5	U	5	U	5	U	5	U
Arsenic	5	U	5	U	5	U	5	U	5	U	5	U
Barium	19	B	52		71		140		85		64	
Beryllium	2	U	2	U	2	U	2	U	2	U	2	U
Cadmium	2	U	2	U	0.19	B	0.91	B	2	U	2	U
Calcium	4100		15000		13000		30000		29000		15000	
Chromium	10	U	1.4	B	2.8	B	1.2	B	1.2	B	1	B
Cobalt	5	U	5	U	5	U	5	U	5	U	5	U
Copper	10	U	1.5	B	10	U	10	U	10	U	10	U
Iron	50	U	110		96		42	B	100		92	
Lead	3	U	0.29	B	0.21	B	3	U	3	U	0.2	B
Magnesium	1600		6000		2100		4700		5300		4700	
Manganese	1.7	B	2.7		10		270		5.9		5.1	
Mercury	0.06	B	0.076	B	0.089	B	0.11	B	0.084	B	0.2	U
Nickel	10	U	10	U	10	U	10	U	10	U	10	U
Potassium	950	B	2100		2300		2700		3200		2600	
Selenium	5	U	5	U	5	U	5	U	5	U	5	U
Silver	2	U	2	U	2	U	2	U	2	U	2	U
Sodium	36000		47000		66000		1E+05		68000		55000	
Thallium	5	U	0.55	B	5	U	5	U	5	U	5	U
Vanadium	5	U	5	U	5	U	5	U	5	U	5	U
Zinc	20	U	20	U	20	U	20	U	20	U	20	U

2016 Groundwater Data: General Chemistry
 Brookhaven National Laboratory
 Project: Waste Management Facility

<i>Analyte</i>	055-03 depth : 50 8/16/2016 mg/L	055-10 depth : 94 8/16/2016 mg/L	066-220 depth : 46 8/16/2016 mg/L	066-221 depth : 47 8/16/2016 mg/L	066-222 depth : 48 8/16/2016 mg/L	066-223 depth : 48 8/16/2016 mg/L
Chloride	55	61	86	190	110	74
Sulfate	8.5	14	17	25	14	18

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	055-03 depth : 50 3/9/2016 pCi/L				055-03 depth : 50 8/16/2016 pCi/L				055-10 depth : 94 3/9/2016 pCi/L				055-10 depth : 94 8/16/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	1.52	U	14.1	8.3	5.41	U	21.3	12.8	0	U	13.3	7.46	4.58	U	9.43	6.34
Beryllium-7	10.4	U	45.4	26.4	-9.99	U	57.1	45.3	5.27	U	41.3	22.9	24	U	59.7	47.9
Cesium-134	2.5	U DL	10.5	3.36	2.13	U DL	10.9	6.44	2.01	U DL	7.76	3.55	-0.05	U DL	14	0.0783
Cesium-137	1.05	U	5.9	3.36	2.68	U	7.1	5.91	3.04	U	8.11	4.83	-0.692	U	9.91	8.02
Co-60	1.41	U	8.09	4.57	-4.53	U	10.1	6.73	1.6	U	7.55	4.2	-4.81	U	12.9	9.17
Cobalt-57	0.257	U	4.71	0.355	-0.269	U DL	6.88	0.419	0.347	U	4.36	2.52	-0.065	U DL	6.6	2.34
Europium-152	3.33	U	54.5	6.63	24.1	U	74.6	39.1	4.34	U	69.2	7.89	-34.2	U DL	115	67.9
Europium-154	1.44	U	48.9	4.88	9.72	U	51.1	7.4	16.5	U	54.8	31.8	-12.1	U DL	89.6	14.8
Europium-155	6.9	U	18.4	11.1	-6.06	U	26.8	16	6.05	U	20.8	12.4	-8.28	U	29.8	8.28
Gross Alpha	0.899	U	1.34	0.88	0.417	U	0.837	0.508	0.455	U	1.32	0.757	0.58	U	1.36	0.816
Gross Beta	0.803	U	0.889	0.586	0.645	U	0.668	0.433	0.784	U	0.816	0.543	1.01		0.78	0.52
Manganese-54	-0.235	U DL	7	3.9	0.994	U DL	8.1	4.69	-0.6	U DL	7.69	4.25	-0.205	U DL	10.8	6.88
Sodium-22	1.16	U DL	7.05	3.94	3.25	U	6.94	4.22	-1.78	U DL	10.1	5.72	1.48	U DL	7.94	4.4
Strontium-90	0.15	U	0.166	0.105	0.251	U	0.309	0.196	-0.065	U	0.406	0.229	0.128	U	0.309	0.185
Tritium	-36	U	455	246	-62.6	U	383	202	-77.9	U	468	247	16.7	U	388	215
Zinc-65	-3.97	U DL	18.3	10.6	2.4	U DL	22.2	12.7	-6.4	U DL	23	13.5	-2.15	U DL	28.2	16

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	066-220 depth : 46 3/9/2016 pCi/L				066-220 depth : 46 8/16/2016 pCi/L				066-221 depth : 47 3/9/2016 pCi/L				066-221 depth : 47 8/16/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	2.98	U	12.3	8.84	-2.58	U	23.5	14.1	-3.21	U	14.9	8.84	2.58	U	13.5	9.42
Beryllium-7	3.79	U	52.5	30	15.8	U	49.5	41	1.98	U	50.1	28.1	-31.2	U DL	76.3	61.9
Cesium-134	4.72	U DL	6.8	4.28	0.481	U DL	12.4	0.901	0.157	U DL	6.96	1.88	-3.75	U DL	15.5	9.21
Cesium-137	-2.32	U	8.26	14.1	-5.15	U	10.1	9.42	-0.34	U	6.86	3.81	5.24	U	6.56	5.65
Co-60	1.83	U	7.06	3.25	2.29	U	7.16	6.56	0	U	3.94	1.79	1.18	U	9.12	7.43
Cobalt-57	0.829	U DL	5.43	1.65	0	U DL	6.99	1.95	-0.022	U	4.33	2.49	-2.06	U DL	6.24	3.44
Europium-152	6.78	U	55	15.9	-33.1	U DL	116	68.8	3.66	U	54.9	7.04	-38.3	U DL	124	73.9
Europium-154	4.82	U DL	70.5	11.3	34	U	36.9	27.8	11.1	U	48.7	21.5	13.6	U	52.3	22.7
Europium-155	4.41	U	19.8	11.8	5.4	U	27	11	1.58	U	17.1	9.93	1.21	U	28.2	16.7
Gross Alpha	0.609	U	1.28	0.778	0.49	U	0.909	0.559	1.01	U	1.51	0.978	-0.382	U	1.68	0.85
Gross Beta	1.42		0.913	0.66	2.68		0.682	0.606	1.31		0.936	0.662	3.17		0.778	0.689
Manganese-54	1.88	U DL	6.1	3.58	-3.49	U DL	11.1	6.62	-0.488	U DL	7.07	3.95	1.83	U DL	11.5	6.69
Sodium-22	1.18	U DL	8.36	4.72	-0.524	U DL	7.83	4.31	0	U	5.87	2.98	0	U DL	9.46	1.25
Strontium-90	0.178	U	0.208	0.131	0.557		0.255	0.198	0.299		0.169	0.119	0.755		0.324	0.248
Tritium	-147	U	475	241	86	U	401	228	-227	U	475	230	-104	U	358	187
Zinc-65	0.646	U DL	15.9	8.81	-8.96	U DL	29.4	17.5	-2.27	U DL	17.3	9.8	-8.05	U DL	30.7	18.1

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	066-222 depth : 48 3/9/2016 pCi/L				066-222 depth : 48 8/16/2016 pCi/L				066-223 depth : 48 3/9/2016 pCi/L				066-223 depth : 48 8/16/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	0.319	U	14.2	8.22	-3.48	U	21.8	13.1	0.0628	U	13.8	8.05	2.55	U	13.9	9.78
Beryllium-7	7.68	U DL	63.8	36	-13.7	U DL	61.4	48.7	0	U DL	77.6	27.1	0	U	59.6	24.2
Cesium-134	2.65	U DL	8.25	4.88	-1.22	U DL	12.6	2.43	1.6	U DL	15.3	3.87	4.45	U DL	11.9	2.93
Cesium-137	-0.29	U	10.1	5.56	2.81	U	7.52	6.56	1.91	U	7.59	4.42	-1.21	U	8.78	7.2
Co-60	-1.26	U	13.9	7.7	0.654	U	7.16	6.39	-0.405	U	10.4	1.27	-7.19	U	12.8	12
Cobalt-57	1.09	U	4.47	3.39	0	U DL	6.71	2.42	-0.417	U DL	6.47	1.88	0	U DL	7.06	2.13
Europium-152	3.99	U	68.3	7.09	25.3	U	67.7	29.3	2.62	U	53.8	10.2	-36.1	U DL	108	64.6
Europium-154	14.1	U DL	72.6	21.6	4.86	U DL	62.2	12.8	2.12	U DL	64.6	4.47	23.1	U	47.7	29.7
Europium-155	-5.13	U	20.4	12.1	-8.41	U	32.4	19.5	3.5	U	23.3	13.8	5.77	U	30.3	18.1
Gross Alpha	-0.586	U	1.32	0.421	0.234	U	1.88	1.06	0.339	U	1.22	0.679	-0.037	U	1.07	0.558
Gross Beta	2.64		0.888	0.765	3.47		0.661	0.672	3.25		0.995	0.873	2.21		0.583	0.524
Manganese-54	-0.531	U DL	9.09	4.97	-0.844	U DL	8.05	4.61	-0.096	U DL	7.44	4.11	0	U DL	10.2	2.71
Sodium-22	-2.54	U DL	12.6	7.17	1.78	U	5.78	3.35	-0.378	U DL	7.7	4.14	-1.76	U DL	7.51	6.59
Strontium-90	0.53		0.189	0.144	0.447		0.323	0.222	0.323		0.189	0.13	0.323		0.271	0.183
Tritium	-196	U	452	225	50	U	358	207	-13.5	U	465	253	-40.1	U	377	203
Zinc-65	-4.22	U DL	23.7	13.4	7.32	U DL	20.7	12.4	-2.36	U DL	20.9	11.9	-5.12	U DL	26.7	15.6

NSLS II
Analytical Results

Analyte	076-18 depth : 30 4/7/2016		076-18 depth : 30 10/21/2016		076-19 depth : 30 4/7/2016		076-19 depth : 30 10/24/2016	
	µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U
Acetone	10	U	1.2	J	10	U	0.94	J
Benzene	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U
Chloroform	1.5	J	2.4	J	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U
m-Dichlorobenzene	9.8	U	5	U	11	U	1.9	U
Methyl bromide	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U
o-Dichlorobenzene	5	U	5	U	11	U	1.9	U
p-Dichlorobenzene	9.8	U	5	U	5	U	1.9	U
Tetrachloroethylene	0.85	J	5	U	5	U	5	U
Toluene	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U

2016 Groundwater Data: Semivolatile Organic Compounds
 Brookhaven National Laboratory
 Project: NSLS II

Analyte	076-18 depth : 30 4/7/2016		076-18 depth : 30 10/21/2016		076-19 depth : 30 4/7/2016		076-19 depth : 30 10/24/2016	
	µg/L		µg/L		µg/L		µg/L	
1,2,4-Trichlorobenzene	9.8	U	1.9	U	11	U	1.9	U
2,4,6-Trichlorophenol	9.8	U	1.9	U	11	U	1.9	U
2,4-Dichlorophenol	9.8	U	1.9	U	11	U	1.9	U
2,4-Dimethylphenol	9.8	U	1.9	U	11	U	1.9	U
2,4-Dinitrophenol	49	U	9.5	U	53	U	9.5	U
2,4-Dinitrotoluene	9.8	U	1.9	U	11	U	1.9	U
2,6-Dinitrotoluene	9.8	U	1.9	U	11	U	1.9	U
2-Chloronaphthalene	9.8	U	1.9	U	11	U	1.9	U
2-Chlorophenol	9.8	U	1.9	U	11	U	1.9	U
3,3'-Dichlorobenzidine	49	U	9.5	U	53	U	9.5	U
4,6-Dinitro-o-cresol	49	U	9.5	U	53	U	9.5	U
4-Bromophenyl phenyl ether	9.8	U	1.9	U	11	U	1.9	U
4-Chlorophenyl phenyl ether	9.8	U	1.9	U	11	U	1.9	U
Acenaphthene	9.8	U	1.9	U	11	U	1.9	U
Acenaphthylene	9.8	U	1.9	U	11	U	1.9	U
Anthracene	9.8	U	1.9	U	11	U	1.9	U
Benzo(a)anthracene	9.8	U	1.9	U	11	U	1.9	U
Benzo(a)pyrene	9.8	U	1.9	U	11	U	1.9	U
Benzo(b)fluoranthene	9.8	U	1.9	U	11	U	1.9	U
Benzo(ghi)perylene	9.8	U	1.9	U	11	U	1.9	U
Benzo(k)fluoranthene	9.8	U	1.9	U	11	U	1.9	U
Bis(2-chloroethoxy)methane	9.8	U	1.9	U	11	U	1.9	U
Bis(2-chloroethyl)ether	9.8	U	1.9	U	11	U	1.9	U
Bis(2-ethylhexyl)phthalate	9.8	U	1.9	U	11	U	1.9	U
bis-chloroisopropyl ether	9.8	U	1.9	U	11	U	1.9	U
Butyl benzyl phthalate	9.8	U	1.9	U	11	U	1.9	U
Chrysene	9.8	U	1.9	U	11	U	1.9	U
Di-n-butyl phthalate	9.8	U	1.9	U	11	U	1.9	U
Di-n-octyl phthalate	9.8	U	1.9	U	11	U	1.9	U
Dibenzo(a,h)anthracene	9.8	U	1.9	U	11	U	1.9	U
Diethyl phthalate	9.8	U	1.9	U	11	U	1.9	U
Dimethyl phthalate	9.8	U	1.9	U	11	U	1.9	U
Fluoranthene	9.8	U	1.9	U	11	U	1.9	U
Fluorene	9.8	U	1.9	U	11	U	1.9	U
Hexachlorobenzene	9.8	U	1.9	U	11	U	1.9	U
Hexachlorobutadiene	9.8	U	1.9	U	11	U	1.9	U
Hexachlorocyclopentadiene	49	U	9.5	U	53	U	9.5	U
Hexachloroethane	9.8	U	1.9	U	11	U	1.9	U
Indeno(1,2,3-cd)pyrene	9.8	U	1.9	U	11	U	1.9	U
Isophorone	9.8	U	1.9	U	11	U	1.9	U
m-Dichlorobenzene	9.8	U	5	U	11	U	1.9	U
N-Nitrosodimethylamine	9.8	U	1.9	U	11	U	1.9	U
N-Nitrosodiphenylamine	9.8	U	1.9	U	11	U	1.9	U
N-Nitrosodipropylamine	9.8	U	1.9	U	11	U	1.9	U
Naphthalene	9.8	U	1.9	U	11	U	1.9	U
Nitrobenzene	9.8	U	1.9	U	11	U	1.9	U
o-Dichlorobenzene	5	U	5	U	11	U	1.9	U
o-Nitrophenol	9.8	U	1.9	U	11	U	1.9	U
p-Chloro-m-cresol	9.8	U	1.9	U	11	U	1.9	U
p-Dichlorobenzene	9.8	U	5	U	5	U	1.9	U
p-Nitrophenol	49	U	9.5	U	53	U	9.5	U
PCP	49	U	9.5	U	53	U	9.5	U
Phenanthrene	9.8	U	1.9	U	11	U	1.9	U
Phenol	9.8	U	1.9	U	11	U	1.9	U
Pyrene	9.8	U	1.9	U	11	U	1.9	U

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: NSLS II

Analyte	076-18 depth : 30 10/21/2016 pCi/L				076-19 depth : 30 10/24/2016 pCi/L				086-123 depth : 34 12/14/2016 pCi/L				086-124 depth : 47 12/14/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-59	U	309	165	23.9	U	319	179	82.6	U	462	263	136	U	458	265

2016 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: NSLS II

Analyte	086-125 depth : 37 12/14/2016 pCi/L				086-126 depth : 36 12/14/2016 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	219	U	451	267	-10.6	U	465	258