

Appendix D
2017 Facility Monitoring
Groundwater Results

AGS Research Areas

Analytical Results

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-07 depth : 35 5/10/2017 pCi/L				054-07 depth : 35 10/19/2017 pCi/L				054-08 depth : 48 11/29/2017 pCi/L				054-124 depth : 32 5/10/2017 pCi/L				054-124 depth : 32 10/19/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	3150		366	510	33200		417	3170	-96.4	U	356	187	6.76	U	364	201	216	U	411	252

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	054-125 depth : 32 11/8/2017 pCi/L				054-126 depth : 35 5/11/2017 pCi/L				054-126 depth : 35 10/19/2017 pCi/L				054-127 depth : 30 11/9/2017 pCi/L				054-128 depth : 30 11/9/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	60.9	U	384	220	-12.2	U	360	198	117	U	421	248	51.2	U	387	221	216	U	386	230

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	054-129 depth : 28 11/8/2017 pCi/L				054-130 depth : 30 11/8/2017 pCi/L				054-168 depth : 25 11/9/2017 pCi/L				054-169 depth : 25 11/9/2017 pCi/L				054-184 depth : 32 5/10/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	179	U	367	217	535		382	247	47.2	U	378	216	116	U	376	218	2710		361	466

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-184 depth : 32 10/19/2017 pCi/L				054-185 depth : 32 5/10/2017 pCi/L				054-185 depth : 32 10/19/2017 pCi/L				054-191 depth : 28 11/29/2017 pCi/L				054-62 depth : 26 11/29/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	7240		415	882	2330		364	432	6930		414	852	-34.2	U	379	203	-132	U	355	183

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	054-63 depth : 50 11/29/2017 pCi/L				054-64 depth : 50 11/29/2017 pCi/L				054-65 depth : 25 5/11/2017 pCi/L				054-65 depth : 25 10/19/2017 pCi/L				054-66 depth : 26 11/8/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	72.1	U	351	203	81.1	U	353	204	232	U	358	224	-108	U	431	231	144	U	379	222

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	054-67 depth : 25 11/8/2017 pCi/L				054-68 depth : 25 11/8/2017 pCi/L				054-69 depth : 25 11/8/2017 pCi/L				055-14 depth : 25 11/8/2017 pCi/L				055-15 depth : 26 11/28/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	153	U	386	227	124	U	382	223	147	U	378	222	14.8	U	381	215	122	U	354	209

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	055-16 depth : 25 11/28/2017 pCi/L				055-29 depth : 52 11/28/2017 pCi/L				055-30 depth : 28 11/28/2017 pCi/L				055-31 depth : 50 11/3/2017 pCi/L				055-32 depth : 48 11/28/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-32.4	U	364	197	-75.7	U	358	190	-37.4	U	354	192	201	U	343	213	-61.3	U	382	201

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	064-03 depth : 48 11/28/2017 pCi/L				064-51 depth : 46 11/29/2017 pCi/L				064-53 depth : 40 11/28/2017 pCi/L				064-54 depth : 40 11/28/2017 pCi/L				064-55 depth : 33 11/9/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	-72.5	U	336	181	-67.6	U	361	192	-122	U	355	184	67.6	U	363	207	178	U	384	227

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	064-56 depth : 30 11/9/2017 pCi/L				064-80 depth : 30 11/9/2017 pCi/L				064-95 depth : 32 5/10/2017 pCi/L				064-95 depth : 32 10/19/2017 pCi/L				065-120 depth : 30 11/28/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	259	U	381	230	919		386	270	169	U	364	219	72.1	U	423	244	-159	U	353	179

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	065-121 depth : 26 11/3/2017 pCi/L				065-122 depth : 29 11/3/2017 pCi/L				065-123 depth : 26 11/3/2017 pCi/L				065-124 depth : 26 11/3/2017 pCi/L				065-125 depth : 26 11/3/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	32.4	U	338	191	18800		351	1910	246	U	329	212	237	U	328	210	268	U	344	221

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

<i>Analyte</i>	065-126 depth : 26 11/3/2017 pCi/L				065-192 depth : 52 11/28/2017 pCi/L				065-193 depth : 55 11/3/2017 pCi/L				065-194 depth : 50 11/3/2017 pCi/L				065-195 depth : 50 11/3/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	395		327	227	-77.5	U	358	189	6.76	U	358	196	165	U	335	205	341	U	342	228

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: AGS Research Areas

Analyte	065-321 depth : 32 11/3/2017 pCi/L				065-322 depth : 32 11/3/2017 pCi/L				065-323 depth : 30 11/3/2017 pCi/L				065-324 depth : 28 11/3/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	187	U	342	211	156	U	343	207	2290		348	428	8070		339	952

**Motor Pool Area
Analytical Results**

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Motor Pool Area

Analyte	102-05 depth : 57 11/7/2017 µg/L		102-06 depth : 56 11/7/2017 µg/L	
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U
1,1-Dichloroethane	0.5	U	0.5	U
1,1-Dichloroethylene	0.5	U	0.5	U
1,1-Dichloropropene	0.5	U	0.5	U
1,2,3-Trichlorobenzene	0.5	U	0.5	U
1,2,3-Trichloropropane	0.5	U	0.5	U
1,2,4-Trichlorobenzene	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U
1,2-Dichloropropane	0.5	U	0.5	U
1,3-Dichloropropane	0.5	U	0.5	U
2,2-Dichloropropane	0.5	U	0.5	U
Benzene	0.5	U	0.5	U
Benzene, 1,2,4-trimethyl	0.5	U	0.5	U
Benzene, 1,3,5-trimethyl-	0.5	U	0.5	U
Benzene, 1-methylethyl-	0.5	U	0.5	U
Bromobenzene	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U
Bromoform	0.5	U	0.5	U
Carbon tetrachloride	0.5	U	0.5	U
Chlorobenzene	0.5	U	0.5	U
Chlorobromomethane	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U
Chloroform	0.17	J	0.22	J
cis-1,2-Dichloroethylene	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U
Cymene	0.5	U	0.5	U
DBCP	0.5	U	0.5	U
Dibromochloromethane	0.5	U	0.5	U
Dibromomethane	0.5	U	0.5	U
Dichlorodifluoromethane	0.5	U	0.5	U
EDB	0.5	U	0.5	U
Ethene, 1,2-dichloro-, (E)-	0.5	U	0.5	U
Ethylbenzene	0.5	U	0.5	U
Hexachlorobutadiene	0.5	U	0.5	U
m-Dichlorobenzene	0.5	U	0.5	U
m/p xylene	1	U	1	U
Methyl bromide	0.5	U	0.5	U
Methyl chloride	0.5	U	0.5	U
Methyl tert-butyl ether	0.5	U	0.5	U
Methylene chloride	0.5	U	0.5	U
n-Butylbenzene	0.5	U	0.5	U
n-Propylbenzene	0.5	U	0.5	U
Naphthalene	0.5	U	0.5	U
o-Chlorotoluene	0.5	U	0.5	U
o-Dichlorobenzene	0.5	U	0.5	U
o-Xylene	0.5	U	0.5	U
p-Chlorotoluene	0.5	U	0.5	U
p-Dichlorobenzene	0.5	U	0.5	U
sec-Butylbenzene	0.5	U	0.5	U
Styrene	0.5	U	0.5	U
tert-Butylbenzene	0.5	U	0.5	U
Tetrachloroethylene	0.5	U	0.5	U
Toluene	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U
Trichloroethylene	0.5	U	0.5	U
Trichlorofluoromethane	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U
Xylene (total)	3	U	3	U
524.2 TVOC	0.17		0.22	

**Major Petroleum Facility
Analytical Results**

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

Analyte	076-16 depth : 35 4/27/2017		076-16 depth : 35 10/19/2017		076-17 depth : 35 4/27/2017		076-17 depth : 35 10/19/2017		076-18 depth : 30 4/27/2017	
	µg/L		µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Acetone	2.1	J	10	U	2.7	J	10	U	2.4	J
Benzene	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	0.39	J	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	5	U	5	U	0.35	J	0.14	J	0.94	J
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	0.51	J	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U	5	U
m-Dichlorobenzene	5	U	5	U	5	U	5	U	10	U
Methyl bromide	10	U	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U	5	U
o-Dichlorobenzene	5	U	5	U	5	U	9.6	U	5	U
p-Dichlorobenzene	5	U	5	U	9.8	U	9.6	U	5	U
Tetrachloroethylene	5	U	5	U	5	U	5	U	0.31	J
Toluene	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

Analyte	076-18 depth : 30 10/19/2017		076-19 depth : 30 4/27/2017		076-19 depth : 30 10/19/2017		076-25 depth : 42 4/27/2017		076-25 depth : 42 10/19/2017		076-378 depth : 34 4/27/2017	
	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	10	U	1.5	J	10	U	2.4	J	10	U	4.2	J
Benzene	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	1.9	J	5	U	5	U	0.24	J	0.15	J	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U	5	U	5	U
m-Dichlorobenzene	9.8	U	5	U	10	U	5	U	5	U	5	U
Methyl bromide	10	U	10	U	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U	5	U	5	U
o-Dichlorobenzene	9.8	U	9.9	U	10	U	5	U	9.5	U	10	U
p-Dichlorobenzene	9.8	U	9.9	U	10	U	5	U	5	U	5	U
Tetrachloroethylene	5	U	5	U	5	U	2.1	J	0.56	J	5	U
Toluene	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U	10	U

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

Analyte	076-378 depth : 34 10/19/2017		076-379 depth : 36 4/27/2017		076-379 depth : 36 10/19/2017		076-380 depth : 34 4/27/2017		076-380 depth : 34 10/19/2017	
	µg/L		µg/L		µg/L		µg/L		µg/L	
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethylene	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Acetone	10	U	2	J	10	U	1.9	J	10	U
Benzene	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	5	U	5	U	5	U	5	U	5	U
Bromoform	5	U	5	U	5	U	5	U	5	U
Carbon disulfide	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	5	U	5	U	5	U	5	U	5	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Chloroform	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U	5	U
Ethene, 1,2-dichloro-, (E)-	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	5	U	5	U	5	U	5	U	5	U
m-Dichlorobenzene	5	U	9.7	U	5	U	5	U	10	U
Methyl bromide	10	U	10	U	10	U	10	U	10	U
Methyl chloride	10	U	10	U	10	U	10	U	10	U
Methyl ethyl ketone	10	U	10	U	10	U	10	U	10	U
Methyl isobutyl ketone (MIBK)	10	U	10	U	10	U	10	U	10	U
Methyl tert-butyl ether	10	U	10	U	10	U	10	U	10	U
Methylene chloride	5	U	5	U	5	U	5	U	5	U
o-Dichlorobenzene	5	U	9.7	U	9.9	U	9.9	U	10	U
p-Dichlorobenzene	9.7	U	9.7	U	9.9	U	5	U	5	U
Tetrachloroethylene	5	U	5	U	0.34	J	0.73	J	1.7	J
Toluene	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U
Trichloroethylene	5	U	5	U	5	U	5	U	5	U
Trichlorofluoromethane	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U

2017 Groundwater Data: Semivolatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-16 depth : 35 4/27/2017 µg/L		076-16 depth : 35 10/19/2017 µg/L		076-17 depth : 35 4/27/2017 µg/L		076-17 depth : 35 10/19/2017 µg/L		076-18 depth : 30 4/27/2017 µg/L		076-18 depth : 30 10/19/2017 µg/L		076-19 depth : 30 4/27/2017 µg/L	
1,2,4-Trichlorobenzene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2,4,6-Trichlorophenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2,4-Dichlorophenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2,4-Dimethylphenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2,4-Dinitrophenol	51	U	49	U	49	U	48	U	51	U	49	U	49	U
2,4-Dinitrotoluene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2,6-Dinitrotoluene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2-Chloronaphthalene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
2-Chlorophenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
3,3'-Dichlorobenzidine	51	U	49	U	49	U	48	U	51	U	49	U	49	U
4,6-Dinitro-o-cresol	51	U	49	U	49	U	48	U	51	U	49	U	49	U
4-Bromophenyl phenyl ether	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
4-Chlorophenyl phenyl ether	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Acenaphthene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Acenaphthylene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Anthracene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Benzo(a)anthracene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Benzo(a)pyrene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Benzo(b)fluoranthene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Benzo(ghi)perylene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Benzo(k)fluoranthene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Bis(2-chloroethoxy)methane	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Bis(2-chloroethyl)ether	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Bis(2-ethylhexyl)phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
bis-chloroisopropyl ether	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Butyl benzyl phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Chrysene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Di-n-butyl phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Di-n-octyl phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Dibenzo(a,h)anthracene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Diethyl phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Dimethyl phthalate	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Fluoranthene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Fluorene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Hexachlorobenzene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Hexachlorobutadiene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Hexachlorocyclopentadiene	51	U	49	U	49	U	48	U	51	U	49	U	49	U
Hexachloroethane	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Indeno(1,2,3-cd)pyrene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Isophorone	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
m-Dichlorobenzene	5	U	5	U	5	U	9.6	U	5	U	5	U	9.9	U
N-Nitrosodimethylamine	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
N-Nitrosodiphenylamine	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
N-Nitrosodipropylamine	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Naphthalene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Nitrobenzene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
o-Dichlorobenzene	5	U	5	U	5	U	5	U	10	U	5	U	5	U
o-Nitrophenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
p-Chloro-m-cresol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
p-Dichlorobenzene	5	U	5	U	9.8	U	5	U	10	U	5	U	5	U
p-Nitrophenol	51	U	49	U	49	U	48	U	51	U	49	U	49	U
PCP	51	U	49	U	49	U	48	U	51	U	49	U	49	U
Phenanthrene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Phenol	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U
Pyrene	10	U	9.8	U	9.8	U	9.6	U	10	U	9.8	U	9.9	U

2017 Groundwater Data: Semivolatile Organic Compounds

Brookhaven National Laboratory

Project: Major Petroleum Facility

Analyte	076-19 depth : 30 10/19/2017 µg/L		076-25 depth : 42 4/27/2017 µg/L		076-25 depth : 42 10/19/2017 µg/L		076-378 depth : 34 4/27/2017 µg/L		076-378 depth : 34 10/19/2017 µg/L		076-379 depth : 36 4/27/2017 µg/L		076-379 depth : 36 10/19/2017 µg/L	
1,2,4-Trichlorobenzene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2,4,6-Trichlorophenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2,4-Dichlorophenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2,4-Dimethylphenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2,4-Dinitrophenol	50	U	48	U	48	U	50	U	48	U	48	U	50	U
2,4-Dinitrotoluene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2,6-Dinitrotoluene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2-Chloronaphthalene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
2-Chlorophenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
3,3'-Dichlorobenzidine	50	U	48	U	48	U	50	U	48	U	48	U	50	U
4,6-Dinitro-o-cresol	50	U	48	U	48	U	50	U	48	U	48	U	50	U
4-Bromophenyl phenyl ether	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
4-Chlorophenyl phenyl ether	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Acenaphthene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Acenaphthylene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Anthracene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Benzo(a)anthracene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Benzo(a)pyrene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Benzo(b)fluoranthene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Benzo(ghi)perylene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Benzo(k)fluoranthene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Bis(2-chloroethoxy)methane	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Bis(2-chloroethyl)ether	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Bis(2-ethylhexyl)phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
bis-chloroisopropyl ether	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Butyl benzyl phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Chrysene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Di-n-butyl phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Di-n-octyl phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Dibenzo(a,h)anthracene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Diethyl phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Dimethyl phthalate	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Fluoranthene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Fluorene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Hexachlorobenzene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Hexachlorobutadiene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Hexachlorocyclopentadiene	50	U	48	U	48	U	50	U	48	U	48	U	50	U
Hexachloroethane	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Indeno(1,2,3-cd)pyrene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Isophorone	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
m-Dichlorobenzene	5	U	9.5	U	9.5	U	10	U	9.7	U	5	U	9.9	U
N-Nitrosodimethylamine	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
N-Nitrosodiphenylamine	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
N-Nitrosodipropylamine	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Naphthalene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Nitrobenzene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
o-Dichlorobenzene	5	U	9.5	U	5	U	5	U	9.7	U	5	U	5	U
o-Nitrophenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
p-Chloro-m-cresol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
p-Dichlorobenzene	5	U	9.5	U	9.5	U	10	U	5	U	5	U	5	U
p-Nitrophenol	50	U	48	U	48	U	50	U	48	U	48	U	50	U
PCP	50	U	48	U	48	U	50	U	48	U	48	U	50	U
Phenanthrene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Phenol	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U
Pyrene	10	U	9.5	U	9.5	U	10	U	9.7	U	9.7	U	9.9	U

2017 Groundwater Data: Semivolatile Organic Compounds
 Brookhaven National Laboratory
 Project: Major Petroleum Facility

Analyte	076-380 depth : 34 4/27/2017 µg/L		076-380 depth : 34 10/19/2017 µg/L	
1,2,4-Trichlorobenzene	9.9	U	10	U
2,4,6-Trichlorophenol	9.9	U	10	U
2,4-Dichlorophenol	9.9	U	10	U
2,4-Dimethylphenol	9.9	U	10	U
2,4-Dinitrophenol	50	U	50	U
2,4-Dinitrotoluene	9.9	U	10	U
2,6-Dinitrotoluene	9.9	U	10	U
2-Chloronaphthalene	9.9	U	10	U
2-Chlorophenol	9.9	U	10	U
3,3'-Dichlorobenzidine	50	U	50	U
4,6-Dinitro-o-cresol	50	U	50	U
4-Bromophenyl phenyl ether	9.9	U	10	U
4-Chlorophenyl phenyl ether	9.9	U	10	U
Acenaphthene	9.9	U	10	U
Acenaphthylene	9.9	U	10	U
Anthracene	9.9	U	10	U
Benzo(a)anthracene	9.9	U	10	U
Benzo(a)pyrene	9.9	U	10	U
Benzo(b)fluoranthene	9.9	U	10	U
Benzo(ghi)perylene	9.9	U	10	U
Benzo(k)fluoranthene	9.9	U	10	U
Bis(2-chloroethoxy)methane	9.9	U	10	U
Bis(2-chloroethyl)ether	9.9	U	10	U
Bis(2-ethylhexyl)phthalate	9.9	U	10	U
bis-chloroisopropyl ether	9.9	U	10	U
Butyl benzyl phthalate	9.9	U	10	U
Chrysene	9.9	U	10	U
Di-n-butyl phthalate	9.9	U	10	U
Di-n-octyl phthalate	9.9	U	10	U
Dibenzo(a,h)anthracene	9.9	U	10	U
Diethyl phthalate	9.9	U	10	U
Dimethyl phthalate	9.9	U	10	U
Fluoranthene	9.9	U	10	U
Fluorene	9.9	U	10	U
Hexachlorobenzene	9.9	U	10	U
Hexachlorobutadiene	9.9	U	10	U
Hexachlorocyclopentadiene	50	U	50	U
Hexachloroethane	9.9	U	10	U
Indeno(1,2,3-cd)pyrene	9.9	U	10	U
Isophorone	9.9	U	10	U
m-Dichlorobenzene	9.9	U	5	U
N-Nitrosodimethylamine	9.9	U	10	U
N-Nitrosodiphenylamine	9.9	U	10	U
N-Nitrosodipropylamine	9.9	U	10	U
Naphthalene	9.9	U	10	U
Nitrobenzene	9.9	U	10	U
o-Dichlorobenzene	5	U	5	U
o-Nitrophenol	9.9	U	10	U
p-Chloro-m-cresol	9.9	U	10	U
p-Dichlorobenzene	9.9	U	10	U
p-Nitrophenol	50	U	50	U
PCP	50	U	50	U
Phenanthrene	9.9	U	10	U
Phenol	9.9	U	10	U
Pyrene	9.9	U	10	U

**RHIC Facility
Analytical Results**

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-03 depth : 46 3/1/2017 pCi/L				025-03 depth : 46 8/10/2017 pCi/L				025-04 depth : 46 3/1/2017 pCi/L				025-04 depth : 46 8/10/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22																
Tritium	-172	U	366	195	43.5	U	417	238	-90.9	U	370	203	-126	U	426	234
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-05 depth : 12 2/22/2017 pCi/L				025-05 depth : 12 8/9/2017 pCi/L				025-06 depth : 12 2/22/2017 pCi/L				025-06 depth : 12 8/9/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22																
Tritium	-97.6	U	367	200	122	U	424	247	-96.8	U	375	205	-8.47	U	423	239
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	025-07 depth : 13 2/22/2017 pCi/L				025-07 depth : 13 8/9/2017 pCi/L				025-08 depth : 12 2/22/2017 pCi/L				025-08 depth : 12 8/9/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22																
Tritium	-132	U	371	200	56.1	U	434	249	-152	U	368	197	188	U	420	248
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	034-05 depth : 42 3/1/2017 pCi/L				034-05 depth : 42 8/10/2017 pCi/L				034-06 depth : 42 8/10/2017 pCi/L				043-01 depth : 41 2/14/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22																
Tritium	-105	U	373	203	-26.9	U	426	240	-28	U	424	238	-77.3	U	368	202
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	043-01 depth : 41 8/9/2017 pCi/L				043-02 depth : 64 2/14/2017 pCi/L				043-02 depth : 64 8/9/2017 pCi/L				044-13 depth : 38 2/22/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22																
Tritium	70.9	U	424	244	1.42	U	362	204	59.2	U	419	241	-249	U	372	193
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	044-13 depth : 38 8/9/2017 pCi/L				044-14 depth : 59 2/22/2017 pCi/L				044-14 depth : 59 8/9/2017 pCi/L				044-29 depth : 35 1/27/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241																
Beryllium-7																
Cesium-134																
Cesium-137																
Co-60																
Cobalt-57																
Europium-152																
Europium-154																
Europium-155																
Manganese-54																
Sodium-22													-0.603	U	3.57	1.87
Tritium	18.3	U	417	237	-22.4	U	374	209	142	U	424	248	-39.6	U	384	199
Zinc-65																

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	044-29 depth : 35 2/14/2017 pCi/L				044-29 depth : 38 3/13/2017 pCi/L				044-29 depth : 35 4/13/2017 pCi/L				044-29 depth : 35 5/4/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	-1.92	U	16.8	9.35	7.4	U	15.1	9.55								
Beryllium-7	-7.12	U	32.5	17.9	-3.37	U	14.6	8.44								
Cesium-134	-0.179	U	3.99	2.1	0.826	U	1.97	1.7								
Cesium-137	-2.97	U	2.67	1.93	0.315	U	2.11	1.18								
Co-60	-0.187	U	4.56	2.23	-1.79	U	2.1	2.49								
Cobalt-57	1.65	U	3.52	1.87	-0.414	U	1.74	1.09								
Europium-152	-4.16	U	10.3	5.94	0.927	U	5.55	3.43								
Europium-154	-1.88	U	10.3	5.28	2.65	U	6.1	3.04								
Europium-155	0.397	U	12.8	7.1	-2.4	U	7.6	4.75								
Manganese-54	1.75	U	4.12	1.87	-0.398	U	1.94	1.14								
Sodium-22	-0.61	U	3.65	1.87	1.1	U	2.16	1.06								
Tritium	-133	U	397	217	143	U	395	230	130	U	392	228	-55.9	U	397	220
Zinc-65	0.817	U	7.38	3.98	2.98	U	4.42	2.51								

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: RHIC Facility

Analyte	044-29 depth : 35 6/16/2017 pCi/L				044-29 depth : 35 7/13/2017 pCi/L				044-29 depth : 35 8/9/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241												
Beryllium-7												
Cesium-134												
Cesium-137												
Co-60												
Cobalt-57												
Europium-152												
Europium-154												
Europium-155												
Manganese-54												
Sodium-22												
Tritium	168	U	450	263	-13.4	U	391	222	-162	U	485	261
Zinc-65												

Service Station
Analytical Results

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Service Station

Analyte	085-17 depth : 45 11/7/2017 µg/L		085-235 depth : 42 11/7/2017 µg/L		085-236 depth : 42 11/7/2017 µg/L		085-237 depth : 42 11/7/2017 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	0.23	J	0.33	J	0.11	J	0.21	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	1	U	1	U	1	U	1	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	3.7		0.47	J	2.9		0.37	J
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	3.93		0.8		3.01		0.58	

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

2917 Groundwater Data: Metals

Brookhaven M=National Laboratory

Project: Sewage Treatment Plant and Peconic River

<i>Analyte</i>	039-115 depth : 20 11/2/2017 µg/L		039-87 depth : 19 11/2/2017 µg/L		039-88 depth : 24 11/2/2017 µg/L		039-89 depth : 22 11/2/2017 µg/L		048-08 depth : 20 11/2/2017 µg/L		048-09 depth : 20 11/2/2017 µg/L		048-10 depth : 20 11/2/2017 µg/L	
	Aluminum	40	B	38	B	85		25	B	57		240		47
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	49		13	B	120		110		23		150		6.5	B
Beryllium	2	U	2	U	2	U	2	U	2	U	0.31	B	2	U
Cadmium	2	U	0.27	B	0.44	B	0.3	B	2	U	0.2	B	2	U
Calcium	24000		5700		8100		6900		8700		6800		770	
Chromium	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cobalt	4.2	B	5	U	5.1		3	B	5	U	1.5	B	5	U
Copper	7.6	B	0.46	B	0.6	B	0.47	B	0.89	B	0.66	B	10	U
Iron	84		440		58		78		180		36	B	50	U
Lead	3	U	3	U	3	U	3	U	3	U	3	U	3	U
Magnesium	8700		1200		4400		3700		2100		4200		470	
Manganese	4.2		23		54		67		25		85		20	
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	7400		620	B	1800	B	2200		670	B	1600	B	520	B
Selenium	5	U	5	U	5	U	5	U	5	U	2.4	B	5	U
Silver	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Sodium	75000		3600		61000		48000		30000		57000		5700	
Thallium	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vanadium	6		5	U	5	U	5	U	5	U	5	U	5	U
Zinc	20	U	10	B	8.1	B	20	U	20	U	20	U	20	U

2017 Groundwater Data: Pesticides
 Brookhaven National Laboratory
 Project: Sewage Treatment Plant and Peconic River

Analyte	039-115 depth : 20 5/18/2017		039-88 depth : 24 5/18/2017		048-10 depth : 20 5/18/2017	
	µg/L		µg/L		µg/L	
4,4''-DDD	0.008	U	0.051	U	0.02	U
4,4''-DDE	0.008	U	0.019	U	0.02	U
4,4''-DDT	0.048	U	0.019	U	0.054	U
Aldrin	0.048	U	0.01	U	0.054	U
alpha-BHC	0.048	U	0.01	U	0.054	U
alpha-Chlordane	0.048	U	0.051	U	0.054	U
Aroclor 1016	0.098	U	0.24	U	0.25	U
Aroclor 1221	0.098	U	0.24	U	0.25	U
Aroclor 1232	0.098	U	0.24	U	0.25	U
Aroclor 1242	0.098	U	0.24	U	0.25	U
Aroclor 1248	0.098	U	0.24	U	0.25	U
Aroclor 1254	0.098	U	0.24	U	0.25	U
Aroclor 1260	0.098	U	0.24	U	0.25	U
beta-BHC	0.004	U	0.01	U	0.01	U
Chlordane	0.049	U	0.12	U	0.125	U
delta-BHC	0.048	U	0.01	U	0.01	U
Dieldrin	0.048	U	0.051	U	0.02	U
Endosulfan I	0.004	U	0.01	U	0.054	U
Endosulfan II	0.048	U	0.051	U	0.054	U
Endosulfan sulfate	0.048	U	0.051	U	0.02	U
Endrin	0.008	U	0.051	U	0.054	U
Endrin aldehyde	0.048	U	0.051	U	0.02	U
Endrin ketone	0.048	U	0.051	U	0.054	U
gamma-Chlordane	0.048	U	0.051	U	0.054	U
Heptachlor	0.004	U	0.01	U	0.054	U
Heptachlor epoxide	0.004	U	0.051	U	0.01	U
Lindane	0.048	U	0.051	U	0.054	U
Methoxychlor	0.096	U	0.1	U	0.11	U
Toxaphene	0.098	U	0.24	U	0.25	U

Waste Management Facility
Analytical Results

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	055-03 depth : 50 3/16/2017 µg/L		055-03 depth : 50 8/24/2017 µg/L		055-10 depth : 94 3/16/2017 µg/L		055-10 depth : 94 8/24/2017 µg/L		056-21 depth : 51 3/16/2017 µg/L		056-22 depth : 51 3/16/2017 µg/L		066-220 depth : 46 3/16/2017 µg/L		066-220 depth : 46 8/24/2017 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
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-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	0.26	J	1.4		2.2		0.14	J	0.13	J	0.11	J	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	1	U	0.5	U	1	U	0.5	U	0.5	U	0.5	U	1	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		0.26		1.4		2.2		0.14		0.13		0.11		0	

2017 Groundwater Data: Volatile Organic Compounds
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	066-221 depth : 47 3/16/2017 µg/L		066-221 depth : 47 8/24/2017 µg/L		066-222 depth : 48 3/16/2017 µg/L		066-222 depth : 48 8/24/2017 µg/L		066-223 depth : 48 3/16/2017 µg/L		066-223 depth : 48 8/24/2017 µg/L	
	1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
1,1,1-Trichloroethane	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
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	0.5	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
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	0.5	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
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	0.5	U	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	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	1	U	0.5	U	1	U	0.5	U	1	U
Methyl bromide	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl chloride	0.1	J	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	0.1		0		0		0		0		0	

2017 Groundwater Data: Metals
 Brookhaven National Laboratory
 Project: Waste Management Facility

<i>Analyte</i>	055-03 depth : 50 8/24/2017 µg/L		055-10 depth : 94 8/24/2017 µg/L		066-220 depth : 46 8/24/2017 µg/L		066-221 depth : 47 8/24/2017 µg/L		066-222 depth : 48 8/24/2017 µg/L		066-223 depth : 48 8/24/2017 µg/L	
Aluminum	79		50	U	22	B	32	B	21	B	80	
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	38		47		68		140		52		29	
Beryllium	2	U	2	U	2	U	2	U	2	U	2	U
Cadmium	2	U	2	U	0.2	B	0.95	B	2	U	2	U
Calcium	9300		12000		12000		31000		13000		13000	
Chromium	10	U	10	U	10	U	11		10	U	10	U
Cobalt	5	U	5	U	5	U	5	U	5	U	5	U
Copper	1.9	B	1.6	B	10	U	10	U	0.68	B	0.6	B
Iron	86		24	B	27	B	38	B	27	B	82	
Lead	3	U	3	U	3	U	3	U	3	U	3	U
Magnesium	3200		4200		1600		4000		1900		3300	
Manganese	5.8		2	U	3.8		180		1.8	B	4.5	
Mercury	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	32		10	U	10	U
Potassium	1400	B	1700	B	1700	B	2200		2100		1300	B
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	56000		44000		81000		1E+05		56000		10000	
Thallium	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
Zinc	20	U	20	U	20	U	20	U	20	U	7.7	B

2017 Groundwater Data: General Chemistry
 Brookhaven National Laboratory
 Project: Waste Management Facility

<i>Analyte</i>	055-03 depth : 50 8/24/2017 µg/L	055-10 depth : 94 8/24/2017 µg/L	066-220 depth : 46 8/24/2017 µg/L	066-221 depth : 47 8/24/2017 µg/L	066-222 depth : 48 8/24/2017 µg/L	066-223 depth : 48 8/24/2017 µg/L
Chloride	99	79	120	230	80	31
Sulfate	5.8	9.5	15	25	18	5.4

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	055-03 depth : 50 3/16/2017 pCi/L				055-03 depth : 50 8/24/2017 pCi/L				055-10 depth : 94 3/16/2017 pCi/L				055-10 depth : 94 8/24/2017 pCi/L				056-21 depth : 51 3/16/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	-10.2	U	21.2	13.4	0.235	U	15.7	10.9	6.84	U	24.6	14.8	-6.29	U	22.8	13.6	-3.45	U DL	27.2	16.2
Beryllium-7	23.1	U	51.5	43.4	3.71	U DL	64.9	50.6	-28.3	U DL	95.1	79.6	11.4	U	53.3	44.2	0.764	U DL	89.4	72.9
Cesium-134	2.91	U DL	10.3	7.51	-1.11	U DL	13.8	4.49	-0.677	U DL	11.3	1.94	4.4	U DL	11.6	9.76	-1.34	U DL	16.2	2.03
Cesium-137	2.44	U	7.43	6.4	-1.48	U	9.44	7.68	2.99	U	7.6	6.43	2.01	U	7.43	6.37	0.948	U	10.9	9.16
Co-60	-5.32	U	10.3	10.1	3.22	U	10.3	2.76	1.23	U	8.7	5.94	2.04	U	7.72	4.01	6.61		5	4.77
Cobalt-57	0.346	U DL	7.11	4.07	1.67	U DL	5.79	3.46	0	U DL	7.96	1.24	-2.31	U DL	6.34	3.83	2.52	U DL	7.94	4.76
Europium-152	5.81	U DL	95.3	11	-38.3	U DL	137	81.4	9.85	U DL	132	25.7	-27.5	U DL	89.5	52	17.2	U DL	112	30.1
Europium-154	26	U	52.9	47.8	4.39	U DL	76.2	12.8	26.2	U DL	84.3	59.7	3.34	U DL	59.9	7.13	29.2	U DL	67.3	58.6
Europium-155	3.57	U	26.3	15.6	-7.72	U	30.6	18.3	4.17	U	36.8	18.4	2.59	U	29.2	17.5	2.61	U	28.3	7.77
Gross Alpha	0.357	U DL	2.56	1.37	-0.377	U	1.52	0.639	-0.724	U	1.63	0.717	-0.392	U	1.57	0.669	1.13	U	1.52	0.988
Gross Beta	2.36		1.18	0.903	1.89		1.06	0.767	1.01		0.945	0.618	0.63	U	0.929	0.577	0.298	U	0.984	0.591
Manganese-54	3.23	U DL	8.02	4.82	-2.54	U DL	9.44	8.81	-4.66	U DL	15.5	9.19	2.81	U DL	8.8	5.31	-0.064	U DL	11.5	6.34
Sodium-22	2.31	U DL	7.83	4.57	2.82	U	5.97	3.67	-1.49	U DL	14.9	8.34	-4.09	U DL	9.39	5.67	-7.8	U DL	16.2	9.88
Strontium-90																	0.226		0.216	0.143
Tritium	-55.4	U	365	199	-93.2	U	334	175	-147	U	375	193	-80.6	U	346	182	-142	U	393	201
Zinc-65	0	U DL	25.3	4.43	-10.4	U DL	34.5	20.5	-0.976	U DL	34.8	19.6	0	U DL	24.7	3.5	0	U DL	32.1	7.81

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	056-22 depth : 51 3/16/2017 pCi/L				066-220 depth : 46 3/16/2017 pCi/L				066-220 depth : 46 8/24/2017 pCi/L				066-221 depth : 47 3/16/2017 pCi/L				066-221 depth : 47 8/24/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	4.23	U	14	9.9	4.31	U	13.8	9.71	4.26	U	13.6	9.61	5.25	U	20.6	12.4	-4.01	U DL	29.1	17.3
Beryllium-7	-19.8	U DL	67.7	55.7	-18	U DL	72.3	77.4	-3.71	U	59.7	46.2	-24.3	U DL	61.8	50.2	-48.3	U DL	108	91.8
Cesium-134	3.01	U DL	13.6	2.65	2.33	U DL	13.4	2.46	7.57	U DL	9.72	7.11	-2.97	U DL	12.8	5.49	6.87	U DL	14.3	11.5
Cesium-137	-5.18	U	11.6	9.77	-4.8	U	10.8	9.07	1.19	U	7.85	6.29	2.16	U	6.34	5.21	3.27	U	7.43	6.26
Co-60	-0.381	U	11.2	1.45	2.12	U	6.21	3.8	-0.142	U	12.7	0.285	-6.52	U	10.5	8.4	-5.9	U	15.7	8.69
Cobalt-57	0.806	U DL	5.94	3.5	1.57	U DL	6.53	3.76	0	U DL	6.74	2.76	3.69	U DL	6.45	3.32	-0.327	U DL	8.45	0.447
Europium-152	9.36	U	78.9	18.2	11.3	U DL	91.6	17.9	9.96	U DL	102	19.4	17.3	U	63.4	21.2	34.6	U DL	119	38
Europium-154	-51.4	U DL	105	92.1	26.8	U DL	59.3	50.5	6.52	U DL	71	20.4	17.2	U DL	58.3	24.7	2.58	U DL	110	4.61
Europium-155	-7.8	U	30.5	16.6	6.46	U	26.9	16.1	-7.92	U	31.7	19	-5.06	U	25.6	19.5	6.46	U	32.3	19.4
Gross Alpha	-0.356	U	1.95	0.936	0.957	U	1.21	0.811	0.593	U	1.87	1.07	0.866	U	1.72	1.05	0.89	U DL	3.4	1.91
Gross Beta	1.34		0.927	0.65	1.09		0.948	0.646	1.78		1.22	0.845	1.57		0.979	0.708	1.97		1.69	1.15
Manganese-54	-1.22	U DL	10.7	5.24	-1.98	U DL	14	10.1	-4.18	U DL	11.4	8.42	2.84	U DL	7.66	4.62	2.04	U DL	9.97	5.83
Sodium-22	-3.25	U DL	10.7	6.27	2.66	U DL	9.46	5.47	2.82	U	5.97	3.67	-0.65	U	6.94	3.79	7.8		4.11	4.24
Strontium-90	0.168	U	0.24	0.15	0.19	U	0.216	0.139	0.377		0.198	0.149	0.279		0.2	0.14	0.95		0.18	0.195
Tritium	-116	U	356	189	-155	U	381	195	4.95	U	341	189	-166	U	358	184	99.1	U	341	200
Zinc-65	4.64	U DL	23.3	13.4	4.57	U DL	26.4	15.3	0	U DL	28.2	6.6	6.29	U DL	19.5	11.5	12.2	U DL	36.2	21.5

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: Waste Management Facility

Analyte	066-222 depth : 48 3/16/2017 pCi/L				066-222 depth : 48 8/24/2017 pCi/L				066-223 depth : 48 3/16/2017 pCi/L				066-223 depth : 48 8/24/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Americium-241	-1.49	U	14.7	10.3	-7.02	U	21	12.5	-4.6	U	23	13.8	1.06	U	13.9	9.71
Beryllium-7	14.3	U	31.6	22	18.7	U	56.8	47.6	20.3	U	45.6	38.3	13.8	U	51.7	41
Cesium-134	-1.36	U DL	14.5	2.33	-1.15	U DL	12.7	1.84	4.55	U DL	11.5	7.96	-0.049	U DL	12.5	0.101
Cesium-137	1.29	U	7.29	5.92	-2.44	U	10.3	8.94	0.717	U	8.39	7.15	-0.886	U	8.43	6.88
Co-60	6.33		3.19	3.49	3.4	U	6.68	3.27	-4.12	U	9.58	8.74	1.48	U	7.89	3.3
Cobalt-57	1.2	U DL	6.64	3.94	0.369	U DL	6.98	4.16	0.662	U DL	6.64	3.93	1.59	U DL	7.37	3.54
Europium-152	-46.7	U DL	130	60.9	14.1	U	76.5	17.4	20	U	58.6	27.8	-38.6	U DL	119	71.3
Europium-154	6.13	U DL	75.4	10.1	13.5	U	56.3	31.8	2.2	U DL	60.2	9.49	0.595	U DL	62.2	51.4
Europium-155	2.55	U	23.1	10.7	-9.55	U	28.3	18.2	6.46	U	27.4	13.2	-9.05	U	32.5	20.6
Gross Alpha	0.294	U	1.74	0.937	0.764	U	1.68	1.01	-0.027	U	1.4	0.719	0.6	U	1.31	0.786
Gross Beta	2.09		0.928	0.733	2.15		0.95	0.751	1.12		0.897	0.613	1.98		1.04	0.772
Manganese-54	-2.46	U DL	9.36	5.51	3.17	U DL	8.32	5.08	-1.21	U DL	9.97	5.78	1.98	U DL	11.1	6.46
Sodium-22	-0.703	U DL	7.51	4.1	0.105	U DL	7.83	4.25	1.05	U DL	7.83	4.39	1.05	U DL	7.51	4.16
Strontium-90	0.473		0.217	0.168	0.43		0.216	0.162	0.0593	U	0.228	0.133	0.69		0.186	0.173
Tritium	-9.01	U	371	207	3.15	U	335	187	-204	U	385	191	76.6	U	345	199
Zinc-65	-12.3	U DL	31.1	16.8	5.97	U DL	22.2	13.1	6.34	U DL	18.4	11	-6.93	U DL	29.9	17.6

NSLS II
Analytical Results

2017 Groundwater Data: Volatile Organic Compounds

Brookhaven National Laboratory

Project: NSLS II

<i>Analyte</i>	076-18 depth : 30 4/27/2017 µg/L		076-18 depth : 30 10/19/2017 µg/L		076-19 depth : 30 4/27/2017 µg/L		076-19 depth : 30 10/19/2017 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	2.4	J	10	U	1.5	J	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	0.94	J	1.9	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	10	U	5	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	10	U	5	U	5	U	10	U
p-Dichlorobenzene	5	U	9.8	U	9.9	U	5	U
Tetrachloroethylene	0.31	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

2017 Groundwater Data: Semivolatile Organic Compounds
 Brookhaven National Laboratory
 Project: NSLS II

Analyte	076-18 depth : 30 4/27/2017		076-18 depth : 30 10/19/2017		076-19 depth : 30 4/27/2017		076-19 depth : 30 10/19/2017	
	µg/L		µg/L		µg/L		µg/L	
1,2,4-Trichlorobenzene	10	U	9.8	U	9.9	U	10	U
2,4,6-Trichlorophenol	10	U	9.8	U	9.9	U	10	U
2,4-Dichlorophenol	10	U	9.8	U	9.9	U	10	U
2,4-Dimethylphenol	10	U	9.8	U	9.9	U	10	U
2,4-Dinitrophenol	51	U	49	U	49	U	50	U
2,4-Dinitrotoluene	10	U	9.8	U	9.9	U	10	U
2,6-Dinitrotoluene	10	U	9.8	U	9.9	U	10	U
2-Chloronaphthalene	10	U	9.8	U	9.9	U	10	U
2-Chlorophenol	10	U	9.8	U	9.9	U	10	U
3,3'-Dichlorobenzidine	51	U	49	U	49	U	50	U
4,6-Dinitro-o-cresol	51	U	49	U	49	U	50	U
4-Bromophenyl phenyl ether	10	U	9.8	U	9.9	U	10	U
4-Chlorophenyl phenyl ether	10	U	9.8	U	9.9	U	10	U
Acenaphthene	10	U	9.8	U	9.9	U	10	U
Acenaphthylene	10	U	9.8	U	9.9	U	10	U
Anthracene	10	U	9.8	U	9.9	U	10	U
Benzo(a)anthracene	10	U	9.8	U	9.9	U	10	U
Benzo(a)pyrene	10	U	9.8	U	9.9	U	10	U
Benzo(b)fluoranthene	10	U	9.8	U	9.9	U	10	U
Benzo(ghi)perylene	10	U	9.8	U	9.9	U	10	U
Benzo(k)fluoranthene	10	U	9.8	U	9.9	U	10	U
Bis(2-chloroethoxy)methane	10	U	9.8	U	9.9	U	10	U
Bis(2-chloroethyl)ether	10	U	9.8	U	9.9	U	10	U
Bis(2-ethylhexyl)phthalate	10	U	9.8	U	9.9	U	10	U
bis-chloroisopropyl ether	10	U	9.8	U	9.9	U	10	U
Butyl benzyl phthalate	10	U	9.8	U	9.9	U	10	U
Chrysene	10	U	9.8	U	9.9	U	10	U
Di-n-butyl phthalate	10	U	9.8	U	9.9	U	10	U
Di-n-octyl phthalate	10	U	9.8	U	9.9	U	10	U
Dibenzo(a,h)anthracene	10	U	9.8	U	9.9	U	10	U
Diethyl phthalate	10	U	9.8	U	9.9	U	10	U
Dimethyl phthalate	10	U	9.8	U	9.9	U	10	U
Fluoranthene	10	U	9.8	U	9.9	U	10	U
Fluorene	10	U	9.8	U	9.9	U	10	U
Hexachlorobenzene	10	U	9.8	U	9.9	U	10	U
Hexachlorobutadiene	10	U	9.8	U	9.9	U	10	U
Hexachlorocyclopentadiene	51	U	49	U	49	U	50	U
Hexachloroethane	10	U	9.8	U	9.9	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	9.8	U	9.9	U	10	U
Isophorone	10	U	9.8	U	9.9	U	10	U
m-Dichlorobenzene	10	U	5	U	5	U	5	U
N-Nitrosodimethylamine	10	U	9.8	U	9.9	U	10	U
N-Nitrosodiphenylamine	10	U	9.8	U	9.9	U	10	U
N-Nitrosodipropylamine	10	U	9.8	U	9.9	U	10	U
Naphthalene	10	U	9.8	U	9.9	U	10	U
Nitrobenzene	10	U	9.8	U	9.9	U	10	U
o-Dichlorobenzene	10	U	5	U	5	U	10	U
o-Nitrophenol	10	U	9.8	U	9.9	U	10	U
p-Chloro-m-cresol	10	U	9.8	U	9.9	U	10	U
p-Dichlorobenzene	5	U	9.8	U	9.9	U	5	U
p-Nitrophenol	51	U	49	U	49	U	50	U
PCP	51	U	49	U	49	U	50	U
Phenanthrene	10	U	9.8	U	9.9	U	10	U
Phenol	10	U	9.8	U	9.9	U	10	U
Pyrene	10	U	9.8	U	9.9	U	10	U

2017 Groundwater Data: Radionuclides
 Brookhaven National Laboratory
 Project: NSLS II

Analyte	076-18 depth : 30 10/19/2017 pCi/L				076-19 depth : 30 10/19/2017 pCi/L				086-123 depth : 34 12/27/2017 pCi/L				086-124 depth : 47 12/27/2017 pCi/L				086-125 depth : 37 12/27/2017 pCi/L				086-126 depth : 36 12/27/2017 pCi/L			
	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error	Result	Qual	MDA	Error
Tritium	67.6	U	420	242	-27	U	434	240	51	U	378	215	150	U	373	219	49.7	U	377	214	41.5	U	369	210