Table 1
1H2020 Pond 287 Surface Water Validated Data
American Cyanamid Superfund Site
Bridgewater Township, New Jersey

		Sample Location	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW		
		Sample Date	5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020		
		N=Normal, FD=Field Duplicate	N			N			N			FD			N			N		
Parameter	GWQS[1]	Unit	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Volatile Organic Compounds																				
1,1,1-Trichloroethane	30	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1,2,2-Tetrachloroethane	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1,2-Trichloroethane	3	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1-Dichloroethane	50	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,1-Dichloroethene	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2,3-Trichloropropane	0.03	ug/L	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03	< 0.03	U	0.03
1,2,4-Trichlorobenzene	9	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dibromo-3-chloropropane	0.02	ug/L	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02
1,2-Dibromoethane	0.03	ug/L	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02	< 0.02	U	0.02
1,2-Dichlorobenzene	600	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dichloroethane	2	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,2-Dichloroethene, Total	NS	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
1,2-Dichloropropane	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,3,5-Trimethylbenzene	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,3-Dichlorobenzene	600	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,4-Dichlorobenzene	75	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
1,4-Dioxane	0.4	ug/L	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4	< 0.4	U	0.4
2-Butanone	300	ug/L	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
2-Chlorotoluene	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
2-Hexanone	40	ug/L	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
2-Nitropropane	NS	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
4-Chlorotoluene	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
4-Methyl-2-pentanone	NS	ug/L	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
Acetone	6000	ug/L	< 7.2	U	7.2	< 6	U	6	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
Acetonitrile	100	ug/L	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Acrolein	5	ug/L	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Acrylonitrile	2	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Benzene	1	ug/L	**1.3**		1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromochloromethane	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromodichloromethane	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromoform	4	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Bromomethane	10	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Carbon Disulfide	700	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Carbon Tetrachloride	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chlorobenzene	50	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloroethane	5	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloroform	70	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Chloromethane	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
cis-1,2-Dichloroethene	70	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
cis-1,3-Dichloropropene	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Cyclohexane	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Dibromochloromethane	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Dichlorodifluoromethane	1000	ug/L	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1
Diethyl Ether	1000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Ethyl Acetate	6000	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Ethyl Acrylate	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Ethylbenzene	700	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Freon 113	20000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Isopropyl Ether	20000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Isopropylbenzene	700	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
m,p-Xylenes	1000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methyl Acetate	7000	ug/L	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5	< 5	U	5
Methyl Cyclohexane	NS	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methyl tert-Butyl Ether	70	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Methylacrylonitrile	NS	ug/L	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Methylene Chloride	3	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
o-Xylene	1000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Styrene	100	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Tetrachloroethene	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Toluene	600	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
trans-1,2-Dichloroethene	100	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
trans-1,3-Dichloropropene	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Trichloroethene	1	ug/L	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1	< 1	R	1
Trichlorofluoromethane	2000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Vinyl Chloride	1	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Xylenes, Total	1000	ug/L	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1	< 1	U	1
Semivolatile Organic Compounds																				
1,2,4,5-Tetrachlorobenzene	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
1,4-Benzenediol	NS	ug/L	< 33	UJ	33	< 33	UJ	33	< 33	UJ	33	< 34	UJ	34	< 33	UJ	33	< 34	UJ	34
1,4-Naphthoquinone	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
1-Chloro-2-nitrobenzene	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2,3,4,6-Tetrachlorophenol	200	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4,5-Trichlorophenol	700	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4,6-Trichlorophenol	20	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2,4-Dichlorophenol	20	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2,4-Dimethylphenol	100	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2,4-Dinitrophenol	40	ug/L	< 33	U	33	< 33	U	33	< 33	UJ	33	< 34	U	34	< 33	U	33	< 34	U	34
2,4-Dinitrotoluene	10	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2,6-Dinitrotoluene	10	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Chloroaniline	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
2-Chloronaphthalene	600	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Chlorophenol	40	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Methylnaphthalene	30	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Methylphenol	50	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Nitroaniline	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
2-Nitrophenol	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
3-, 4-Methylphenol (total)	50	ug/L	< 22	U	22	< 22	U	22	< 22	UJ	22	< 23	U	23	< 22	U	22	< 23	U	23
3,3'-Dichlorobenzidine	30	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
3-Nitroaniline	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4,6-Dinitro-2-methylphenol	0.7	ug/L	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1	< 1.1	U	1.1
4-Aminodiphenyl	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4-Bromophenyl Phenyl Ether	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4-Chloro-3-methylphenol	100	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Chloroaniline	30	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4-Chlorophenyl-phenylether	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
4-Nitroaniline	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
4-Nitrophenol	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Acenaphthene	400	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11

Checked By: SNM 7/23/2020

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Bridgewater Township, New Jersey

		Sample Location	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW		
		Sample Date	5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020		
		N=Normal, FD=Field Duplicate	N			N			N			FD			N			N		
Parameter	GWQS[1]	Unit	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Acenaphthylene	100	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Acetophenone	700	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Aniline	6	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Anthracene	2000	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Atrazine	3	ug/L	< 3.3	U	3.3	< 3.3	U	3.3	< 3.3	UJ	3.3	< 3.4	U	3.4	< 3.3	U	3.3	< 3.4	U	3.4
Azobenzene	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzaldehyde	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzidine	20	ug/L	< 22	U	22	< 22	U	22	< 22	UJ	22	< 23	U	23	< 22	U	22	< 23	U	23
Benzo[a]anthracene	0.1	ug/L	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	UJ	0.11	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11
Benzo[a]pyrene	0.1	ug/L	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	UJ	0.11	< 0.11	U	0.11	< 0.11	U	0.11	< 0.11	U	0.11
Benzo[b]fluoranthene	0.2	ug/L	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	UJ	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.23	U	0.23
Benzo[g,h,i]perylene	100	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Benzo[k]fluoranthene	0.5	ug/L	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	UJ	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.23	U	0.23
Benzoic Acid	30000	ug/L	< 33	U	33	< 33	U	33	< 33	UJ	33	< 34	U	34	< 33	U	33	< 34	U	34
Benzyl Alcohol	2000	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Biphenyl	400	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Bis(2-chloroethoxy)methane	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Bis(2-chloroethyl) Ether	7	ug/L	< 7.7	UJ	7.7	< 7.8	UJ	7.8	< 7.6	UJ	7.6	< 7.9	UJ	7.9	< 7.7	UJ	7.7	< 7.9	UJ	7.9
Bis(2-chloroisopropyl) Ether	300	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Bis(2-ethylhexyl) Phthalate	3	ug/L	< 3.3	UJ	3.3	< 3.3	U	3.3	< 3.3	UJ	3.3	< 3.4	U	3.4	< 3.3	U	3.3	< 3.4	U	3.4
Butylbenzyl Phthalate	100	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Caprolactum	4000	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Carbazole	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Catechol	NS	ug/L	< 33	U	33	< 33	U	33	< 33	UJ	33	< 34	U	34	< 33	U	33	< 34	U	34
Chrysene	5	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Dibenzo[a,h]anthracene	0.3	ug/L	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	UJ	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.23	U	0.23
Dibenzofuran	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Diethyl Phthalate	6000	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Dimethyl Phthalate	100	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Di-n-Butyl Phthalate	700	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Di-n-octyl Phthalate	100	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Diphenylamine	200	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Fluoranthene	300	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Fluorene	300	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Hexachlorobenzene	0.02	ug/L	< 0.022	U	0.022	< 0.022	U	0.022	< 0.022	UJ	0.022	< 0.023	U	0.023	< 0.022	U	0.022	< 0.023	U	0.023
Hexachlorobutadiene	1	ug/L	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1	< 1.1	UJ	1.1
Hexachlorocyclopentadiene	40	ug/L	< 22	U	22	< 22	U	22	< 22	UJ	22	< 23	U	23	< 22	U	22	< 23	U	23
Hexachloroethane	7	ug/L	< 7.7	U	7.7	< 7.8	U	7.8	< 7.6	UJ	7.6	< 7.9	U	7.9	< 7.7	U	7.7	< 7.9	U	7.9
Indeno[1,2,3-cd]pyrene	0.2	ug/L	< 0.22	U	0.22	< 0.22	U	0.22	< 0.22	UJ	0.22	< 0.23	U	0.23	< 0.22	U	0.22	< 0.23	U	0.23
Isophorone	40	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Naphthalene	300	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Nitrobenzene	6	ug/L	< 6.6	UJ	6.6	< 6.7	UJ	6.7	< 6.5	UJ	6.5	< 6.8	UJ	6.8	< 6.6	UJ	6.6	< 6.8	UJ	6.8
Nitrosomethylethylamine	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodiethylamine	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodimethylamine	0.8	ug/L	< 0.88	U	0.88	< 0.89	U	0.89	< 0.87	UJ	0.87	< 0.9	U	0.9	< 0.88	U	0.88	< 0.9	U	0.9
N-Nitroso-di-n-butylamine	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
N-Nitroso-di-n-propylamine	10	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosodiphenylamine	10	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosomorpholine	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosopiperidine	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
N-Nitrosopyrrolidine	NS	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
o-Toluidine	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Pentachlorobenzene	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Pentachlorophenol	0.3	ug/L	< 0.33	U	0.33	< 0.33	U	0.33	< 0.33	U	0.33	< 0.34	U	0.34	< 0.33	U	0.33	< 0.34	U	0.34
Phenanthrene	100	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Phenol	2000	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Pyrene	200	ug/L	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11	< 11	UJ	11
Pyridine	NS	ug/L	< 11	U	11	< 11	U	11	< 11	UJ	11	< 11	U	11	< 11	U	11	< 11	U	11
Total Metals																				
Aluminum	200	ug/L	**962**		40	**971**		40	**318**		40	**281**		40	**1010**		40	**306**		40
Antimony	6	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Arsenic	3	ug/L	1.4	J	2	1	J	2	1.6	J	2	1.4	J	2	1.1	J	2	2.3		2
Barium	6000	ug/L	125		4	120		4	53.5		4	55.3		4	114		4	51.3		4
Beryllium	1	ug/L	0.75	J	0.8	0.69	J	0.8	< 0.8	U	0.8	0.44	J	0.8	0.61	J	0.8	0.32	J	0.8
Cadmium	4	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Calcium	NS	ug/L	35900		200	33500		200	29900		200	30100		200	35300		200	29000		200
Chromium	70	ug/L	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Cobalt	100	ug/L	19.8		4	18.8		4	24		4	23.1		4	18.3		4	23.2		4
Copper	1300	ug/L	25.2		4	22.4		4	14.3		4	13.6		4	22.8		4	14.1		4
Iron	300	ug/L	**2210**		120	**1170**		120	**4390**		120	**4380**		120	**1080**		120	**7440**		120
Lead	5	ug/L	2.7		1.2	2.8		1.2	0.96	J	1.2	0.92	J	1.2	2.4		1.2	0.93	J	1.2
Magnesium	NS	ug/L	12900		200	12000		200	11700		200	11200		200	12000		200	11300		200
Manganese	50	ug/L	**4050**		8	**3800**		8	**4190**		8	**4030**		8	**3750**		8	**4060**		8
Mercury	2	ug/L	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2
Nickel	100	ug/L	56.8		4	53.3		4	43.3		4	42.3		4	50.1		4	42.5		4
Potassium	NS	ug/L	5010		200	4700		200	4140		200	3930		200	4690		200	4090		200
Selenium	40	ug/L	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Silver	40	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Sodium	50000	ug/L	33600		200	30900		200	31400		200	30400		200	31200		200	30600		200
Thallium	2	ug/L	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Vanadium	NS	ug/L	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Zinc	2000	ug/L	90.2		16	83		16	98.8		16	88.3		16	140		16	92.7		16
Dissolved Metals																				
Aluminum	200	ug/L	**837**		40	**889**		40	**300**		40	**272**		40	**880**		40	**312**		40
Antimony	6	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Arsenic	3	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	0.81	J	2
Barium	6000	ug/L	106		4	105		4	52.4		4	47.6		4	107		4	51		4
Beryllium	1	ug/L	0.61	J	0.8	0.51	J	0.8	0.25	J	0.8	0.34	J	0.8	0.59	J	0.8	< 0.8	U	0.8
Cadmium	4	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Calcium	NS	ug/L	30400		200	31400		200	28700		200	27500		200	32000		200	28900		200
Chromium	70	ug/L	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Cobalt	100	ug/L	16		4	16.6		4	21.7		4	20.6		4	16.5	J	4	22.1		4
Copper	1300	ug/L	18.8		4	18.9		4	11.9		4	11.4		4	18.6		4	12.5		4
Iron	300	ug/L	**309**		120	**337**		120	**875**		120	**817**		120	**380**		120	**856**		120
Lead	5	ug/L	1.6		1.2	2.1		1.2	0.77	J	1.2	0.68	J	1.2	1.9		1.2	0.72	J	1.2
Magnesium	NS	ug/L	11300		200	11400		200	11200		200	10600		200	11600		200	11500		200
Manganese	50	ug/L	**3330**		8	**3390**		8	**3790**		8	**3570**		8	**3390**		8	**3840**		8
Mercury	2	ug/L	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2	< 0.2	U	0.2
Nickel	100	ug/L	45		4	45.1		4	38.2		4	37		4	44.6		4	40.2		4

Checked By: SNM 7/23/2020

Table 1
1H2020 Pond 287 Surface Water Validated Data
American Cyanamid Superfund Site
Bridgewater Township, New Jersey

		Sample Location	FP-P287-01-SW			FP-P287-02-SW			FP-P287-03-SW			FP-P287-03-SW			FP-P287-04-SW			FP-P287-05-SW		
		Sample Date	5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020			5/19/2020		
		N=Normal, FD=Field Duplicate	N			N			N			FD			N			N		
Parameter	GWQS[1]	Unit	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Potassium	NS	ug/L	4210		200	4260		200	3850		200	3670		200	4400		200	3950		200
Selenium	40	ug/L	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10	< 10	U	10
Silver	40	ug/L	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2	< 2	U	2
Sodium	50000	ug/L	29400		200	29900		200	30400		200	29100		200	30300	J	200	31000		200
Thallium	2	ug/L	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8	< 0.8	U	0.8
Vanadium	NS	ug/L	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4	< 4	U	4
Zinc	2000	ug/L	84.8		16	109		16	94.4		16	79.4		16	147	J	16	87.9		16
Natural Attenuation Parameters																				
Hardness	250	mg/L	142		5	142		5	130		5	134		5	144		5	134		5
Total Suspended Solids	NS	mg/L	9.4		4	14.9		4	6.4		4	6.4		4	18.2		4	13.2		5.3

Notes:
1.) NJ GWQS is derived from the New Jersey Register (N.J.A.C. 7:9C) Ground Water Quality Standards (GWQS), June 2020. Exceedances are shown in **bold**.

Abbreviations:
NJ GWQS: New Jersey Groundwater Quality Standard
NS: Standard Not Available
Qual: Qualifier
RL: Reporting Limit
Unit: ug/L = microgram per liter; mg/L = milligram per liter

Qualifiers:
J: Estimated Result
R: Rejected Result
U: Not Detected above RL
UJ: Not Detected Above RL; RL Estimated

Checked By: SNM 7/23/2020