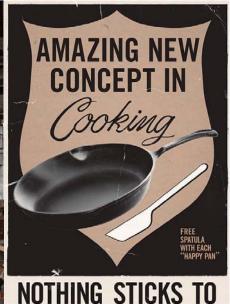
## Per & Poly Fluoro Alkyl Substance Sources











Reproductive problems, infertility and birth defects

**USAF Bases, MI, CO, PA,** Del, FL, overseas

AIR FORCE FLY Right Do What's Right





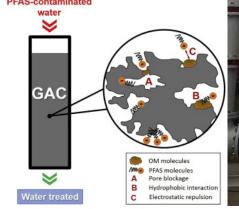
# Per & Poly Fluoro Alkyl Substance Sources

	Primary PFCs Found in Orinking Water	Source of PFC								
	Long-Chain									
Р	erfluorooctanoic acid (PFOA)	Nonstick Surfaces								
Р	Perfluorooctane sulfonate (PFOS)	Fabric Protection , Firefighting Foam								
Р	Perfluorononanoic acid (PFNA)	Surfactant Used for Plastic Production								
	Short-Chain									
Р	erfluorohexane Sulfonic Acid (PFHxS)	Firefighting Foam								
Р	Perfluorohexanoic Acid (PFHxA)	Degradation Product of PFHxS								
Р	Perfluorobutanesulfonic Acid (PFBS)	Stain Repellent; Replacement for PFOS								

# Per & Poly Fluoro Alkyl Substance Treatment

 Fortunately, the PFAS compounds PFOA and PFOS being regulated by NYS are readily adsorbably by GAC.

 2 – 40,000 lbs GAC vessels are required per well





# Affected Wells by New Regulation

#### WATER SUPPLY WELLS CAPACITY AND DEMAND COMPARISON

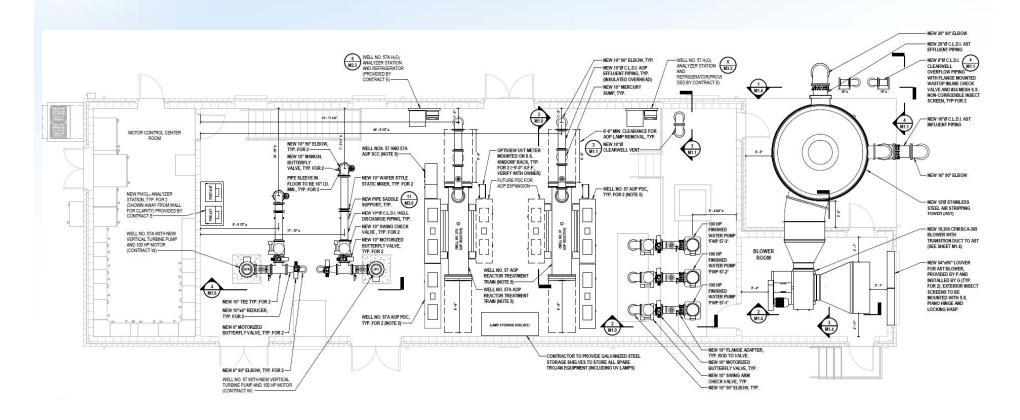
WELL NO.	NYSDEC Well No.	PEAK 1,4-DIOXANE DETECTION (ppb)	PFOA (ng/L)	PFOS (ng/L)	APPROVED WELL CAPACITY (GPM)	AVAILABLE WELL CAPACITY (MG)	CUMULATIVE WELL CAPACITY (MG)	HISTORICAL 10 YEAR MAXIMUM AVERAGE DAY (DEFICIT) (MG) <sup>(1)</sup>	HISTORICAL 10 YEAR MAXIMUM DAY (DEFICIT) (MG) <sup>(2)</sup>	MAXIMUM DAY PLUS FIRE FLOW (DEFICIT) (MG) <sup>(3)</sup>
12		2	-	-	0	0.00	0.00	-12.12	-24.30	-24.93
44	N-5155	0.19	6.59	13.40	700	1.01	1.01	-11.11	-23.29	-23.92
44A	N-5156	0.15	5.91	12.20	1,600	2.30	3.31	-8.81	-20.99	-21.62
44B	N-6744	0.24	17.10	5.46	700	1.01	4.32	-7.80	-19.98	-20.61
44C	N-6745	0.38	3.77	<1.9	1,600	2.30	6.62	-5.50	-17.68	-18.31
15C	N-10206	0.19	<1.9	<1.9	1,380	1.99	8.61	-3.51	-15.69	-16.32
15E	N-10207	0.19	<1.9	<1.9	1,380	1.99	10.60	-1.52	-13.70	-14.33
16A	N-1958	<0.020	<1.9	<1.9	1,115	1.61	12.20	0.08	-12.10	-12.73
25A	N-7482	<0.020	<1.9	<1.9	1,800	2.59	14.80	2.68	-9.50	-10.13
28	N-2414	0.026	21.60	11.70	1,200	1.73	16.52	4.40	-7.78	-8.41
28B	N-10211	0.29	<1.9	<1.9	1,380	1.99	18.51	6.39	-5.79	-6.42
30	N-3720	0.062	<1.9	<1.9	1,200	1.73	20.24	8.12	-4.06	-4.69
15A	N-9151	0.46	<1.9	<1.9	1,100	1.58	21.82	9.70	-2.48	-3.11
15B	N-11037	0.30	<1.9	<1.9	1,380	1.99	23.81	11.69	-0.49	-1.12
20	N-17	0.46	14.80	13.40	1,200	1.73	25.54	13.42	1.24	0.61
57	N-7649	14.00	31.80	14.10	1,200	1.73	27.27	15.15	2.97	2.34
57A	N-7650	20.90	30.00	13.20	1,200	1.73	28.99	16.87	4.69	4.06
35A	N-4298	0.85	10.20	8.39	1,800	2.59	31.59	19.47	7.29	6.66
40	N-4390	0.64	14.70	8.43	1,400	2.02	33.60	21.48	9.30	8.67
40A	N-7445	1.50	8.72	3.28	1,200	1.73	35.33	23.21	11.03	10.40
15D	N-693	0.36	11.70	10.60	1,530	0.00	35.33	23.21	11.03	10.40
28A <sup>(4)</sup>	N-11647	0.13	<1.9	<1.9	1,200	0.00	35.33	23.21	11.03	10.40
34	N-4512	0.06	<1.9	<1.9	1,700	0.00	35.33	23.21	11.03	10.40
9	N-14	0.08	21.00	4.26	645	0.00	35.33	23.21	11.03	10.40
35	N-4077	0.62	7.40	5.70	500	0.00	35.33	23.21	11.03	10.40

#### Proposed Site Plan NEW 38' WIDE ORNAMENTAL NEW FLUSH CONCRETE DOUBLE SWING GATE CURB (TYP) DOUBLE SWING GATE, GATE SHALL OPEN 180°. NEW 8' WIDE FIXED LOUVER DOUBLE NEW CONCRETE SWING GATE, GATE SHALL OPEN 180° DRIVEWAY APRON NEW CHEMICAL C8.0 TRANSFER PAD NEW PRECAST CONCRETE RESTROOM BUILDING AND FOUNDATION (SEE SHEET C9.0) NEW CONCRETE PAD NEW ASPHALT PAVEMENT AND BASE NEW 4' WIDE ORNAMENTAL N83° 14' 00"E NEW 18' x 3' INDUCTANCE LOOP GAC BUILDING 5th Street (Eighth Street) Asphalt Roadway NEW 22' WIDE MOTORIZED ORNAMENTAL SINGLE SLIDE GATE AST NEW PHOTOELECTRIC SENSORS, LIFTMASTER MODEL CPS, OR EQUAL (TYP) ON 3' x 1.5' CONCRETE PAD NEW KEYPAD 11 POST MOUNT C7.0 NEW AUTOMATIC GATE OPERATOR ON 3' x 2' CONCRETE PAD MOW STRIP BELOW LIMIT OF SLIDE GATE WHEN OPEN NEW CONCRETE PAD (1,3) NEW CONCRETE 2nd Avenue SIDEWALK (TYP) NEW TRANSFORMER (CONTRACT E) NEW 10' WIDE ORNAMENTAL NEW 6' HIGH ORNAMENTAL FENCE WITH MOW STRIP ALONG ENTIRE PERIMETER (OFFSET FOR CLARITY. INSTALL ON PROPERTY LINE) (TYP.) NEW HVAC EQUIPMENT



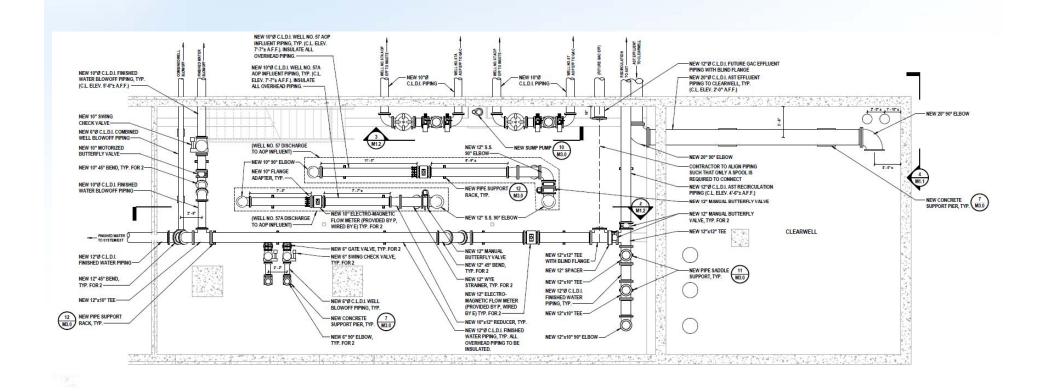


#### Proposed AOP/PTA Floor Plan

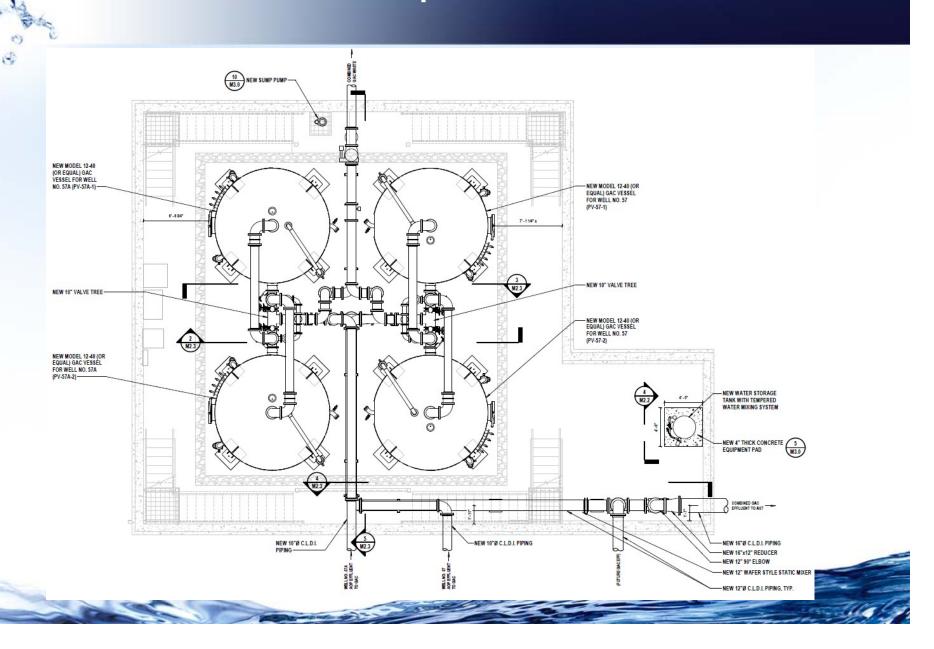




#### Proposed AOP/PTA Floor Plan

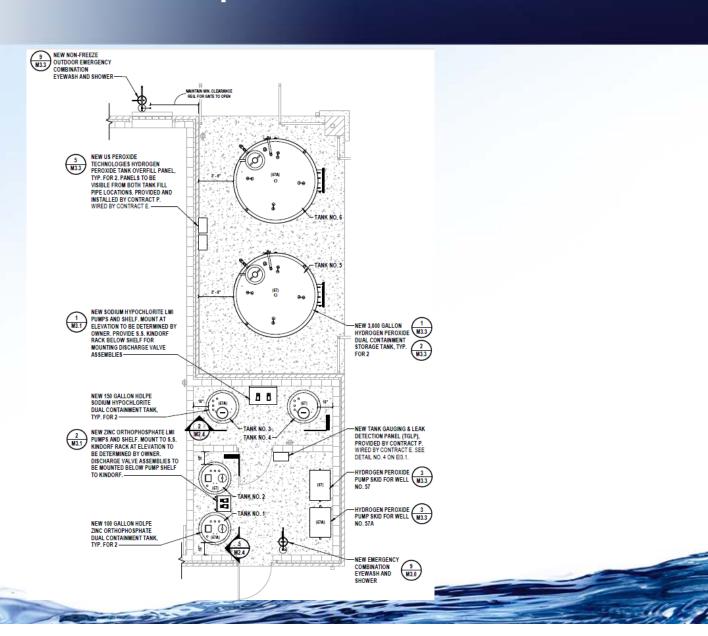


## Proposed GAC Floor Plan

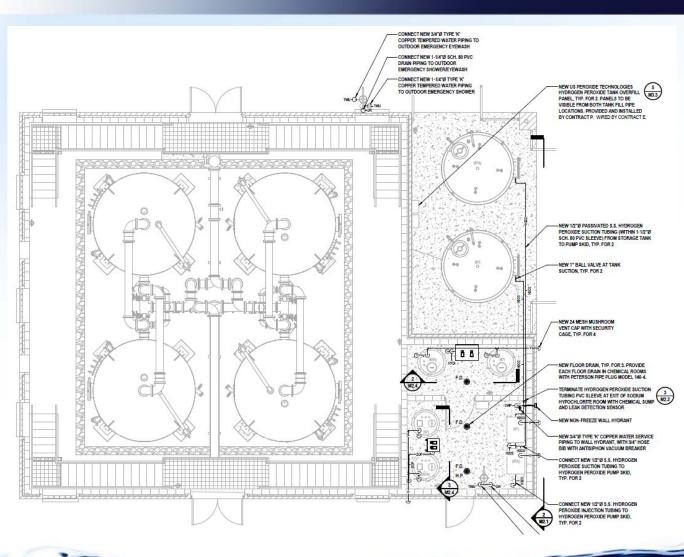




### Proposed GAC Floor Plan













# **Existing Conditions**





# **Existing Conditions**









