LEGEND

SW-15 SUPPLEMENTAL RI SURFACE WATER SAMPLE OR ELEVATION LOCATION

SD-15 SUPPLEMENTAL RI SEDIMENT SAMPLE LOCATION

320 CONTOUR LINE (20 FT INTERVAL)

GEOPHYSICAL SURVEY

APPROXIMATE WETLAND AREA

NOTES:
1. QUALIFIERS ARE DEFINED ON TABLES 4-4 AND 4-5.

2. BRACKETS INDICATE AN EXCEEDANCE OF NYSDEC SEDIMENT CRITERIA (NY-SC) OR NYSDEC WATER QUALITY STANDARDS - CLASS B (NYS-WQS-B).

3. SEDIMENT CRITERIA FOR PAHs WERE ADJUSTED BASED ON TOC SAMPLES TAKEN AT EACH LOCATION.

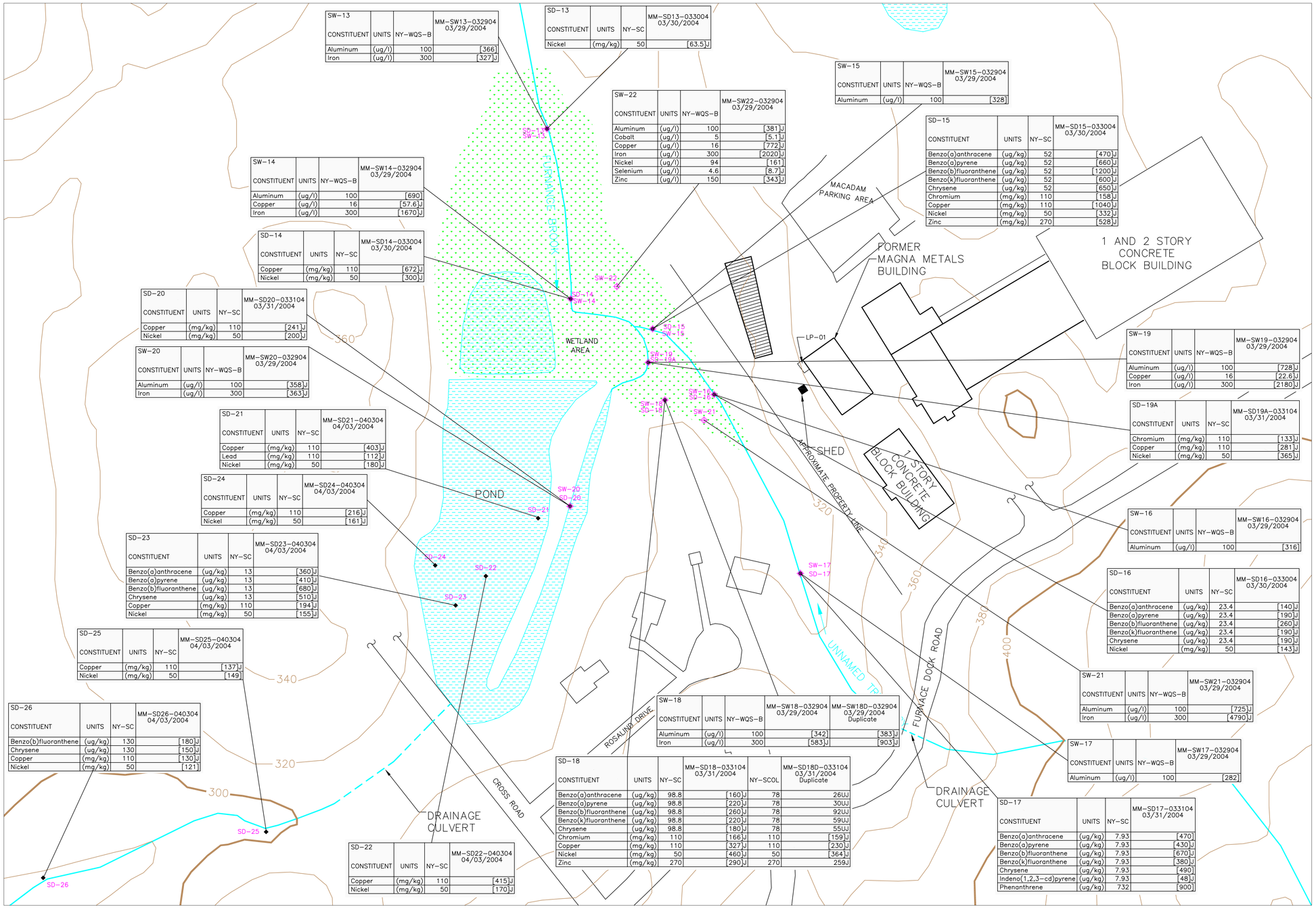
4. LOCATIONS OF FORMER MAGNA METALS BUILDING, 1 STORY CONCRETE BLOCK BUILDING, SHED, GEOPHYSICAL SURVEY AREA, AND MONITORING WELLS ARE BASED ON SURVEY DATA.

SOURCES:
1. CONTOUR LINES, FURNACE DOCK ROAD, AND FURNACE BROOK BELOW POND BASED ON MOHEGAN LAKE, NY AND PEEKSKILL, NY TOPOGRAPHIC QUADRANGLES, 7.5-MINUTE SERIES, DATED 1956 AND 1957, RESPECTIVELY, AND PHOTOREVISED IN 1981.

2. ADDITIONAL SURFACE FEATURES BASED ON WESTCHESTER COUNTY DEPARTMENT OF PLANNING AERIAL PHOTOGRAPH (SPRING 1990), DECEMBER 18, 1999 AERIAL PHOTOGRAPH, AND SURVEY DATA.

3. APPROXIMATE WETLAND AREA BASED ON FIELD OBSERVATIONS.

0 40 80
FEET



SW-13 CONSTITUENT	UNITS	NY-WQS-B	MM-SW13-032904 03/29/2004
Aluminum	(ug/l)	100	[366]
Iron	(ug/l)	300	[327]J

SD-13 CONSTITUENT	UNITS	NY-SC	MM-SD13-033004 03/30/2004
Nickel	(mg/kg)	50	[63.5]J

SW-22 CONSTITUENT	UNITS	NY-WQS-B	MM-SW22-032904 03/29/2004
Aluminum	(ug/l)	100	[381]J
Cobalt	(ug/l)	5	[5.1]J
Copper	(ug/l)	16	[772]J
Iron	(ug/l)	300	[2020]J
Nickel	(ug/l)	94	[161]
Selenium	(ug/l)	4.6	[8.7]J
Zinc	(ug/l)	150	[343]J

SW-15 CONSTITUENT	UNITS	NY-WQS-B	MM-SW15-032904 03/29/2004
Aluminum	(ug/l)	100	[328]

SD-15 CONSTITUENT	UNITS	NY-SC	MM-SD15-033004 03/30/2004
Benzo(a)anthracene	(ug/kg)	52	[470]J
Benzo(a)pyrene	(ug/kg)	52	[660]J
Benzo(b)fluoranthene	(ug/kg)	52	[1200]J
Benzo(k)fluoranthene	(ug/kg)	52	[600]J
Chrysene	(ug/kg)	52	[650]J
Chromium	(mg/kg)	110	[158]J
Copper	(mg/kg)	110	[1040]J
Nickel	(mg/kg)	50	[332]J
Zinc	(mg/kg)	270	[528]J

SW-14 CONSTITUENT	UNITS	NY-WQS-B	MM-SW14-032904 03/29/2004
Aluminum	(ug/l)	100	[690]
Copper	(ug/l)	16	[57.6]J
Iron	(ug/l)	300	[1670]J

SD-14 CONSTITUENT	UNITS	NY-SC	MM-SD14-033004 03/30/2004
Copper	(mg/kg)	110	[672]J
Nickel	(mg/kg)	50	[300]J

SD-20 CONSTITUENT	UNITS	NY-SC	MM-SD20-033104 03/31/2004
Copper	(mg/kg)	110	[241]J
Nickel	(mg/kg)	50	[200]J

SW-20 CONSTITUENT	UNITS	NY-WQS-B	MM-SW20-032904 03/29/2004
Aluminum	(ug/l)	100	[358]J
Iron	(ug/l)	300	[363]J

SD-21 CONSTITUENT	UNITS	NY-SC	MM-SD21-040304 04/03/2004
Copper	(mg/kg)	110	[403]J
Lead	(mg/kg)	110	[112]J
Nickel	(mg/kg)	50	[180]J

SD-24 CONSTITUENT	UNITS	NY-SC	MM-SD24-040304 04/03/2004
Copper	(mg/kg)	110	[216]J
Nickel	(mg/kg)	50	[161]J

SD-23 CONSTITUENT	UNITS	NY-SC	MM-SD23-040304 04/03/2004
Benzo(a)anthracene	(ug/kg)	13	[360]J
Benzo(a)pyrene	(ug/kg)	13	[410]J
Benzo(b)fluoranthene	(ug/kg)	13	[680]J
Chrysene	(ug/kg)	13	[510]J
Copper	(mg/kg)	110	[194]J
Nickel	(mg/kg)	50	[155]J

SD-25 CONSTITUENT	UNITS	NY-SC	MM-SD25-040304 04/03/2004
Copper	(mg/kg)	110	[137]J
Nickel	(mg/kg)	50	[149]

SD-26 CONSTITUENT	UNITS	NY-SC	MM-SD26-040304 04/03/2004
Benzo(b)fluoranthene	(ug/kg)	130	[180]J
Chrysene	(ug/kg)	130	[150]J
Copper	(mg/kg)	110	[130]J
Nickel	(mg/kg)	50	[121]

SD-22 CONSTITUENT	UNITS	NY-SC	MM-SD22-040304 04/03/2004
Copper	(mg/kg)	110	[415]J
Nickel	(mg/kg)	50	[170]J

SW-18 CONSTITUENT	UNITS	NY-WQS-B	MM-SW18-032904 03/29/2004	MM-SW18D-032904 03/29/2004 Duplicate
Aluminum	(ug/l)	100	[342]	[383]J
Iron	(ug/l)	300	[583]J	[903]J

SD-18 CONSTITUENT	UNITS	NY-SC	MM-SD18-033104 03/31/2004	NY-SCOL	MM-SD18D-033104 03/31/2004 Duplicate
Benzo(a)anthracene	(ug/kg)	98.8	[160]J	78	26UJ
Benzo(a)pyrene	(ug/kg)	98.8	[220]J	78	30UJ
Benzo(b)fluoranthene	(ug/kg)	98.8	[260]J	78	92UJ
Benzo(k)fluoranthene	(ug/kg)	98.8	[220]J	78	59UJ
Chrysene	(ug/kg)	98.8	[180]J	78	55UJ
Chromium	(mg/kg)	110	[166]J	110	[159]J
Copper	(mg/kg)	110	[327]J	110	[230]J
Nickel	(mg/kg)	50	[460]J	50	[364]J
Zinc	(mg/kg)	270	[290]J	270	259J

SW-19 CONSTITUENT	UNITS	NY-WQS-B	MM-SW19-032904 03/29/2004
Aluminum	(ug/l)	100	[728]J
Copper	(ug/l)	16	[22.6]J
Iron	(ug/l)	300	[2180]J

SD-19A CONSTITUENT	UNITS	NY-SC	MM-SD19A-033104 03/31/2004
Chromium	(mg/kg)	110	[133]J
Copper	(mg/kg)	110	[281]J
Nickel	(mg/kg)	50	[365]J

SW-16 CONSTITUENT	UNITS	NY-WQS-B	MM-SW16-032904 03/29/2004
Aluminum	(ug/l)	100	[316]

SD-16 CONSTITUENT	UNITS	NY-SC	MM-SD16-033004 03/30/2004
Benzo(a)anthracene	(ug/kg)	23.4	[140]J
Benzo(a)pyrene	(ug/kg)	23.4	[190]J
Benzo(b)fluoranthene	(ug/kg)	23.4	[260]J
Benzo(k)fluoranthene	(ug/kg)	23.4	[190]J
Chrysene	(ug/kg)	23.4	[190]J
Nickel	(mg/kg)	50	[143]J

SW-21 CONSTITUENT	UNITS	NY-WQS-B	MM-SW21-032904 03/29/2004
Aluminum	(ug/l)	100	[725]J
Iron	(ug/l)	300	[4790]J

SW-17 CONSTITUENT	UNITS	NY-WQS-B	MM-SW17-032904 03/29/2004
Aluminum	(ug/l)	100	[282]

SD-17 CONSTITUENT	UNITS	NY-SC	MM-SD17-033104 03/31/2004
Benzo(a)anthracene	(ug/kg)	7.93	[470]
Benzo(a)pyrene	(ug/kg)	7.93	[430]J
Benzo(b)fluoranthene	(ug/kg)	7.93	[670]J
Benzo(k)fluoranthene	(ug/kg)	7.93	[380]J
Chrysene	(ug/kg)	7.93	[490]
Indeno(1,2,3-cd)pyrene	(ug/kg)	7.93	[48]J
Phenanthrene	(ug/kg)	732	[900]

TETRA TECH EC, INC.

TITLE:
Sediment and Surface Water Exceedances - 2004 Supplemental RI
Magna Metals
Cortlandt, New York

DWN: CTS	DES.: CTS	PROJECT NO.: 106-1172
CHKD:	APPD:	FIGURE NO.: 4-3
DATE: 08/21/07	REV.: 0	

N:\GIS\GISKEY\GISPROJ31\MAGNA METALS\DRAFT FINAL RI\FIGURE 4-3 082107.DWG

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