



MORRIS ASSOCIATES

ENGINEERING & SURVEYING CONSULTANTS, PLLC

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July 19, 2018

New York State Department of
Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7014

Attn: R. Scott Deyette, Project Manager, Remedial Bureau C

Via e-mail: scott.deyette@dec.ny.gov

RE: North East Town Landfill 314048
North East (T), Dutchess (C)
Results – Request for Sampling of Emerging Contaminants
MA # 203827.06

Dear Mr. Deyette:

The sampling for emerging contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) was performed at North East Town Landfill on June 18, 2018 as requested. Samples were collected at three (3) downgradient monitoring wells (MW-2, MW-2I and MW-3S) and one up-gradient monitoring well (MW-4I).

A summary of the sampling results is provided below. A copy of the lab results is included as Attachment 'A'.

Compound	MW-02 (Downgradient) µg/L	MW-2I (Downgradient) µg/L	MW-3S (Downgradient) µg/L	MW-4I (Upgradient) µg/L
1,4-Dioxane	0.05	0.71	8.4	ND
Perfluorobutanoic acid (PFBA)	<0.005	<0.005	<0.005	<0.005
Perfluoropentanoic acid (PFPeA)	<0.005	<0.005	<0.005	<0.005
Perfluorobutanesulfonic acid (PFBS)	<0.009	<0.009	<0.009	<0.009
Sodium H1, H1, H2,H2- Perfluoro -1-hexanesulfonate (4:2FTS)	<0.005	<0.005	<0.005	<0.005
Perfluorohexanoic acid (PFHxA)	<0.005	<0.005	<0.005	<0.005
Sodium Perfluoro -1-pentanesulfonate (PFPeS)	<0.005	<0.005	<0.005	<0.005
Perfluorohexanesulfonic acid (PFHxS)	<0.003	<0.003	<0.003	<0.003
Perfluoroheptanoic acid (PFHpA)	<0.002	<0.002	<0.002	<0.002
Sodium H1, H1, H2,H2- Perfluoro -1-octanesulfonate (6:2FTS)	<0.005	<0.005	<0.005	<0.005
Perfluorooctanoic acid (PFOA)	<0.002	<0.002	<0.002	<0.002
Sodium Perfluoro -1-heptanesulfonate (PFHpS)	<0.005	<0.005	<0.005	<0.005

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Compound	MW-02 (Downgradient)	MW-2I (Downgradient)	MW-3S (Downgradient)	MW-4I (Upgradient)
Perfluorooctanesulfonic acid (PFOS)	<0.004	<0.004	<0.004	<0.004
Perfluorononanoic acid (PFNA)	<0.002	<0.002	<0.002	<0.002
Sodium Perfluoro -1-nonanesulfonate (PFNS)	<0.005	<0.005	<0.005	<0.005
Perfluorodecanoic acid (PFDA)	<0.005	<0.005	<0.005	<0.005
Sodium H1, H1, H2,H2- Perfluoro -1-decanesulfonate (8:2FTS)	<0.005	<0.005	<0.005	<0.005
Perfluorodecanesulfonic acid (PFDS)	<0.005	<0.005	<0.005	<0.005
PerFluoroUndecanoic Acid (PFUnA)	<0.005	<0.005	<0.005	<0.005
N-Methyl perFluoroOctaneSulfonAmidoacetic Acid (NMeFOSAA)	<0.005	<0.005	<0.005	<0.005
Perfluorododecanoic acid (PFDoA)	<0.005	<0.005	<0.005	<0.005
N-Ethyl perFluoroOctaneSulfonamidoAcetic Acid (NEtFOSAA)	<0.005	<0.005	<0.005	<0.005
Perfluorotridecanoic Acid (PFTriA)	<0.005	<0.005	<0.005	<0.005
Perfluorotetradecanoic acid (PFTeA)	<0.005	<0.005	<0.005	<0.005
Perfluorooctane Sulfonamide (FOSA)	<0.005	<0.005	<0.005	<0.005

If you should have any questions regarding this matter, please do not hesitate to contact the undersigned at (518) 828-2300.

Very truly yours,

MORRIS ASSOCIATES

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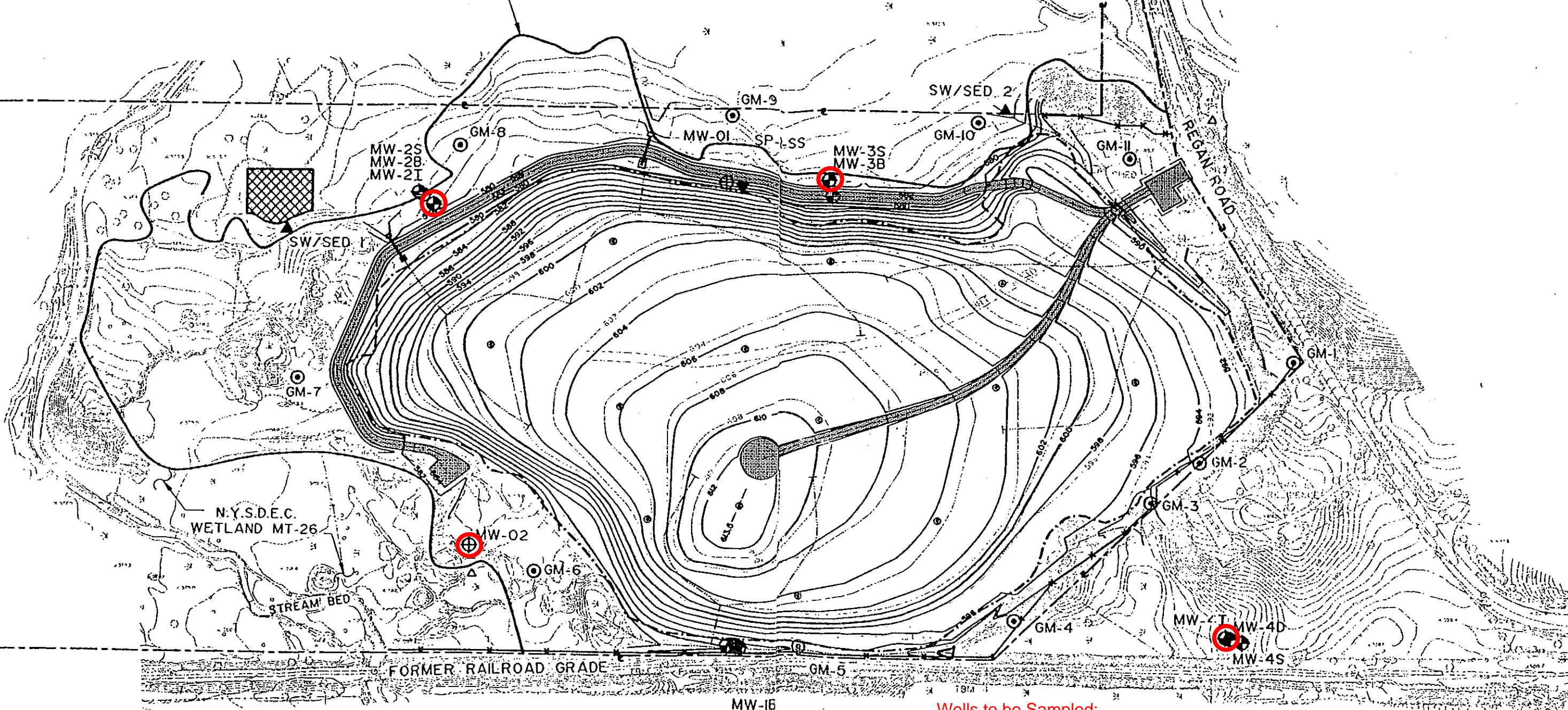
Richard J. Andreassen, P.E.
Staff Engineer

cc: George Kaye, Supervisor, Town of North East
Warren Replansky, Esq., Attorney to the Town



N.Y.S.D.E.C.
WETLAND MT-26

NYSDEC WETLANDS BOUNDARY



NOTES

1. BASE MAPPING WAS PREPARED BY AIR SURVEY CORP., RESTON, VA. USING AERIAL PHOTOGRAPHY TAKEN APRIL 14, 1993. GROUND CONTROL WAS BY URS.
2. PROJECT VERTICAL CONTROL IS BASED UPON NATIONAL GEODETIC VERTICAL DATUM OF 1929 AS ESTABLISHED ON USGS MONUMENT "ALBANY 573" ELEV. 575.540.

LEGEND

- ⊙ GAS MONITORING POINT
- ⊕ RI MONITORING WELL (1993)
- ⊕ NYSDEC PHASE II MONITORING WELL (1984)
- ▲ SURFACE WATER/SEDIMENT SAMPLE POINT
- Wells to be Sampled

Wells to be Sampled:

Upgradient Well - MW-4I

Downgradient Wells - MW-2, MW-2I, MW-3S

Additional Sampling for Emerging Contaminants



CONTOUR INTERVAL = 2 FEET

MONITORING POINT LOCATION PLAN

FIGURE 3-1

North East Town Landfill

Statistic	Concentration	Units	Sample Source	Max non PFOS/PFOA compound
Maximum 1,4-Dioxane	8.4	ug/L	MW-3S-20180618	
Maximum PFOA	0	ng/L		
Maximum PFOS	0	ng/L		
Maximum PFAS compound aside from PFOS/PFOA	0	ng/L		
Total PFAS including PFOS and PFOA	0	ng/L		

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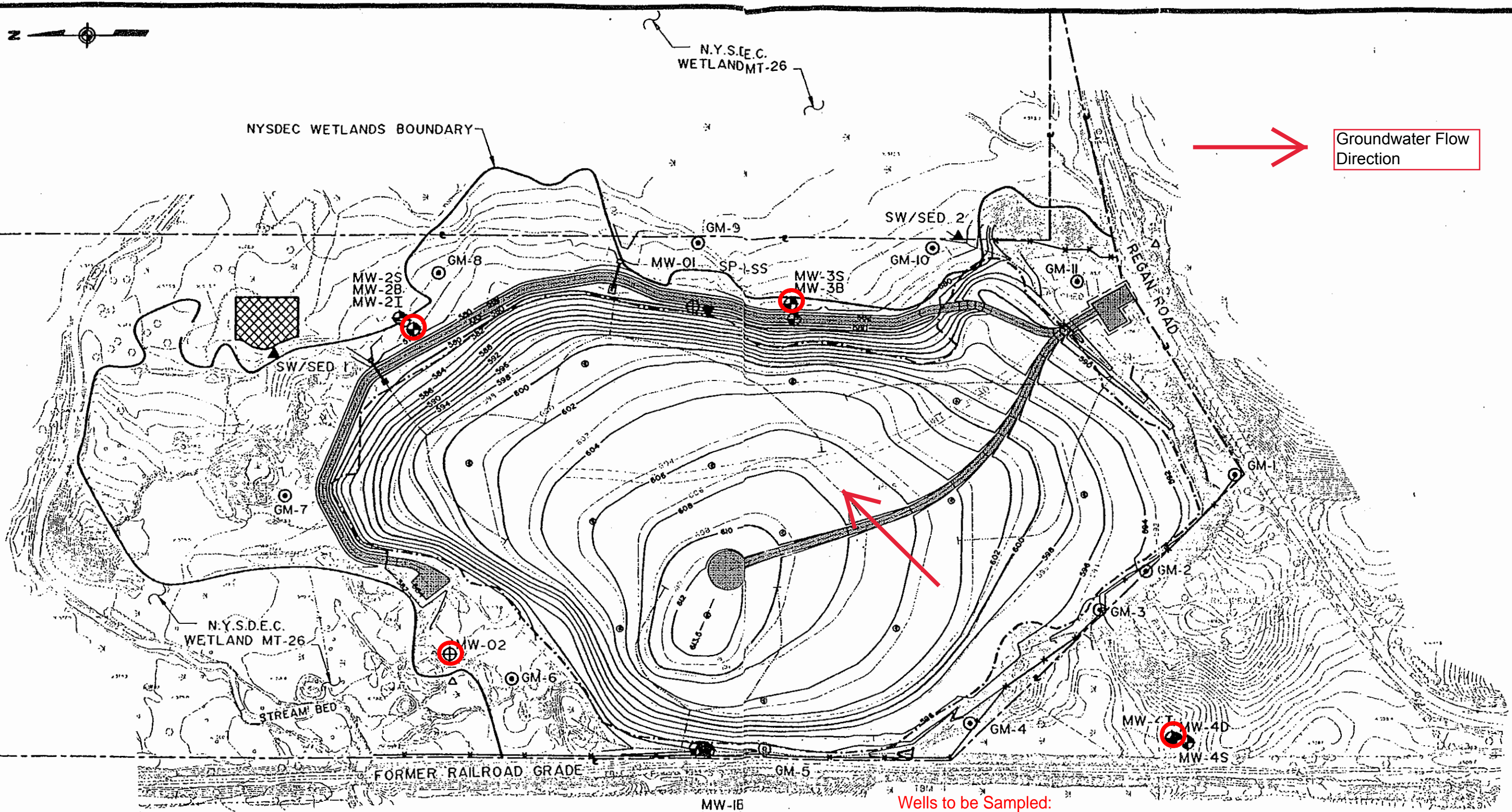


N.Y.S.D.E.C.
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Groundwater Flow
Direction



NOTES

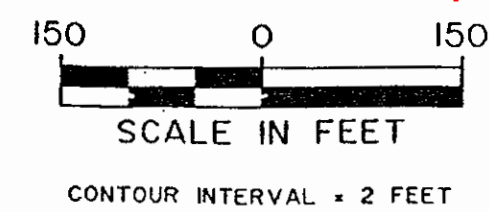
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Downgradient Wells - MW-2, MW-2I, MW-3S

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MONITORING POINT LOCATION PLAN

FIGURE 3-1