

104-49

MUNITIONS WASHOUT
PLANT SEAD-4

PRESENTED BY
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Munitions Washout Plant, Seneca Army Depot

Munitions Washout Plant Presentation

- **Site Background**
- **Project Schedule**
- **Site Characterization**
- **Reuse Implications**
- **Risk Assessment**
- **Technology Selection**
- **Cost**
- **Initiatives to Reduce Cost**
- **Summary**

Site Background

Munitions Washout Plant

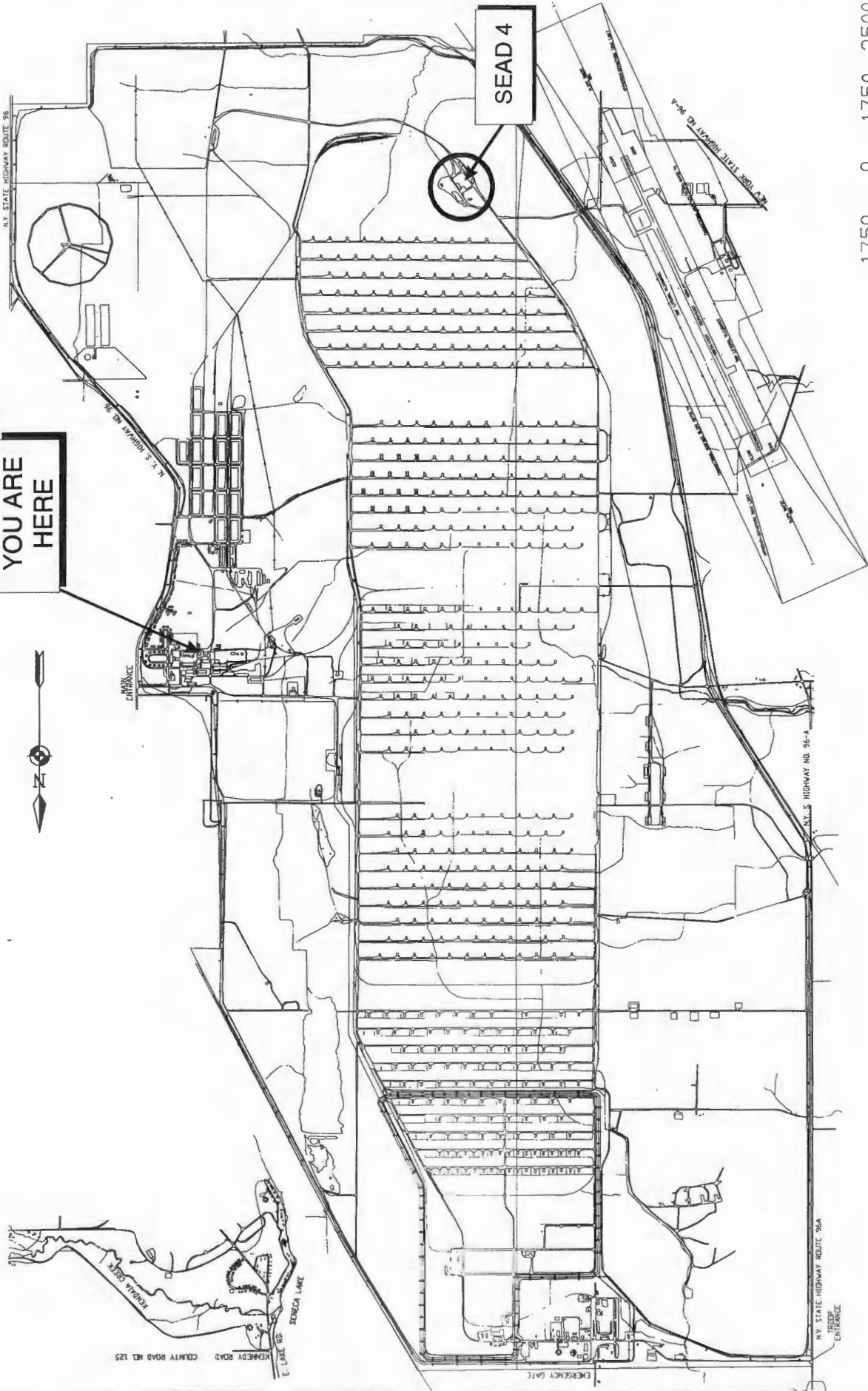
Munitions Washout Plant, Seneca Army Depot

Site Background

Munitions Washout Plant

- Steam and Water Washout of Munitions occurred here 1948-1963
- Untreated Discharge of Wastewater
- Munition-Specific Contamination Found
- ESI Determined No Leachfield
- Located in Conservation/Recreation Area

YOU ARE
HERE



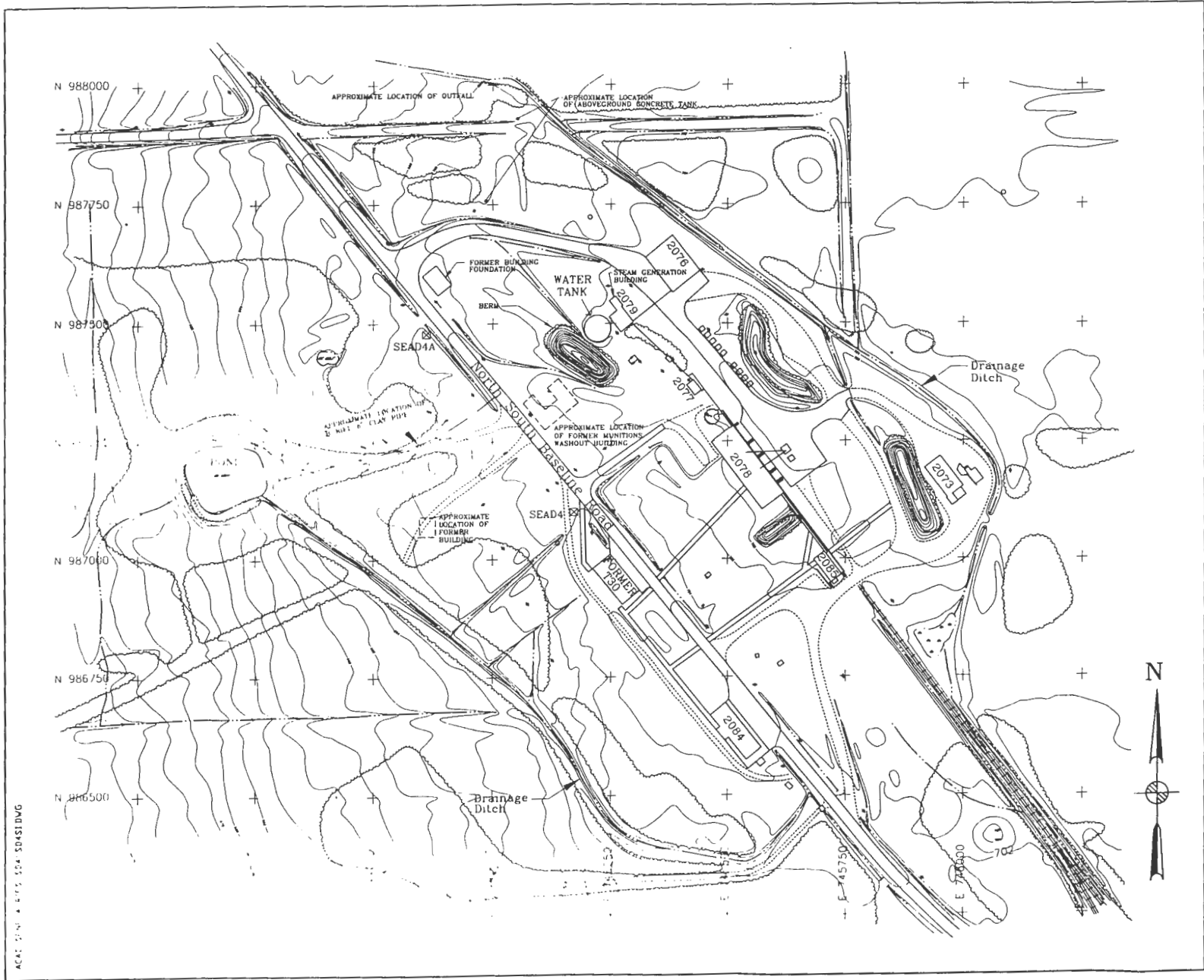
SEAD 4



Project Schedule

Munitions Washout Plant

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LEGEND

	MINOR WATERWAY
	MAJOR WATERWAY
	FENCE
	UNPAVED ROAD
	BRUSH LINE
	LANDFILL EXTENT
	RAILROAD
	GROUND SURFACE ELEVATION CONTOUR
	ROAD SIGN
	DECIDUOUS TREE
	GUIDE POST
	FIRE HYDRANT
	MANHOLE
	COORDINATE GRID (250' GRID)
	POLE
	UTILITY BOX
	MAILBOX/RR SIGNAL
	OVERHEAD UTILITY POLE
	SURVEY MONUMENT

(feet)

PARSONS
PARSONS ENGINEERING SCIENCE, INC.
CLIENT/PROJECT TITLE
SENECA ARMY DEPOT ACTIVITY
RI/FS PROJECT SCOPING PLAN
SEAD-4, MUNITIONS WASHOUT FACILITY LEACH FIELD
DEPT: ENVIRONMENTAL ENGINEERING Dwg No: 727651-02004
FIGURE 1-2
SITE MAP
SCALE: 1" = 200' DATE: JUNE 1986 REV: C

ACAD 2/1/ 4 5/15 104 504SIDWG

Project Schedule

Munitions Washout Plant

- Previous

RI Submission:

26 July 97

- FFA Extension Request
for RI Submission:

06 Nov 98

Site Characterization Munitions Washout Plant

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Site Characterization

Munitions Washout Plant

- ESI Concluded the Primary Contaminants of Concern are Metals, SVOA's
- Contaminants Found in Soils, Drainage Ditches, and in an Effluent Discharge Pond
- Previous Studies Indicated a Leach Field
- ESI Concluded No Leachfield Existed and Indicated Discharge to Surface Drainage and Pond
- Glacial Till 10 feet; Weathered Shale 0-2 ft thick
- Ten Metals in Soils Exceeding Criteria
- Groundwater Impacted by Be, Cd, SVOA's, Nitrates

Summary Soil Statistics Data

SEAD-4 Munitions Washout Facility

COMPOUND	MAX. (mg/Kg)	MEAN (mg/Kg)	NYSDEC SOIL TAGM CRITERIA (mg/Kg)	NUMBER OF TIMES DETECTED	NUMBER OF TIMES ABOVE TAGM
<u>Volatiles</u>					
None Exceeded the TAGM Criteria					
<u>Semivolatiles</u>					
Benzo(a)anthracene	1.1	0.267	0.224	5	1
Benzo(a)pyrene	0.88	0.223	0.061	5	2
Chrysene	1.0	0.223	0.4	6	3
<u>Explosives</u>					
None Detected					
<u>PCBs/Pesticides</u>					
None Exceeded the TAGM Criteria					
<u>Metals</u>					
Aluminum	21,000	14,102	14,592	44	24
Antimony	96.1	28.6	3.6	14	11
Arsenic	21.5	6.2	7.5	44	4
Beryllium	1.8	0.69	0.73	44	16
Chromium	4,870	403.5	22.1	44	20
Copper	3,410	361.4	25	44	20
Lead	116	13.6	22	44	4
Mercury	0.27	0.057	0.1	44	4
Nickel	228	38.9	33.6	44	24
Zinc	1,010	187.8	82.5	44	23

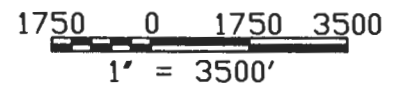
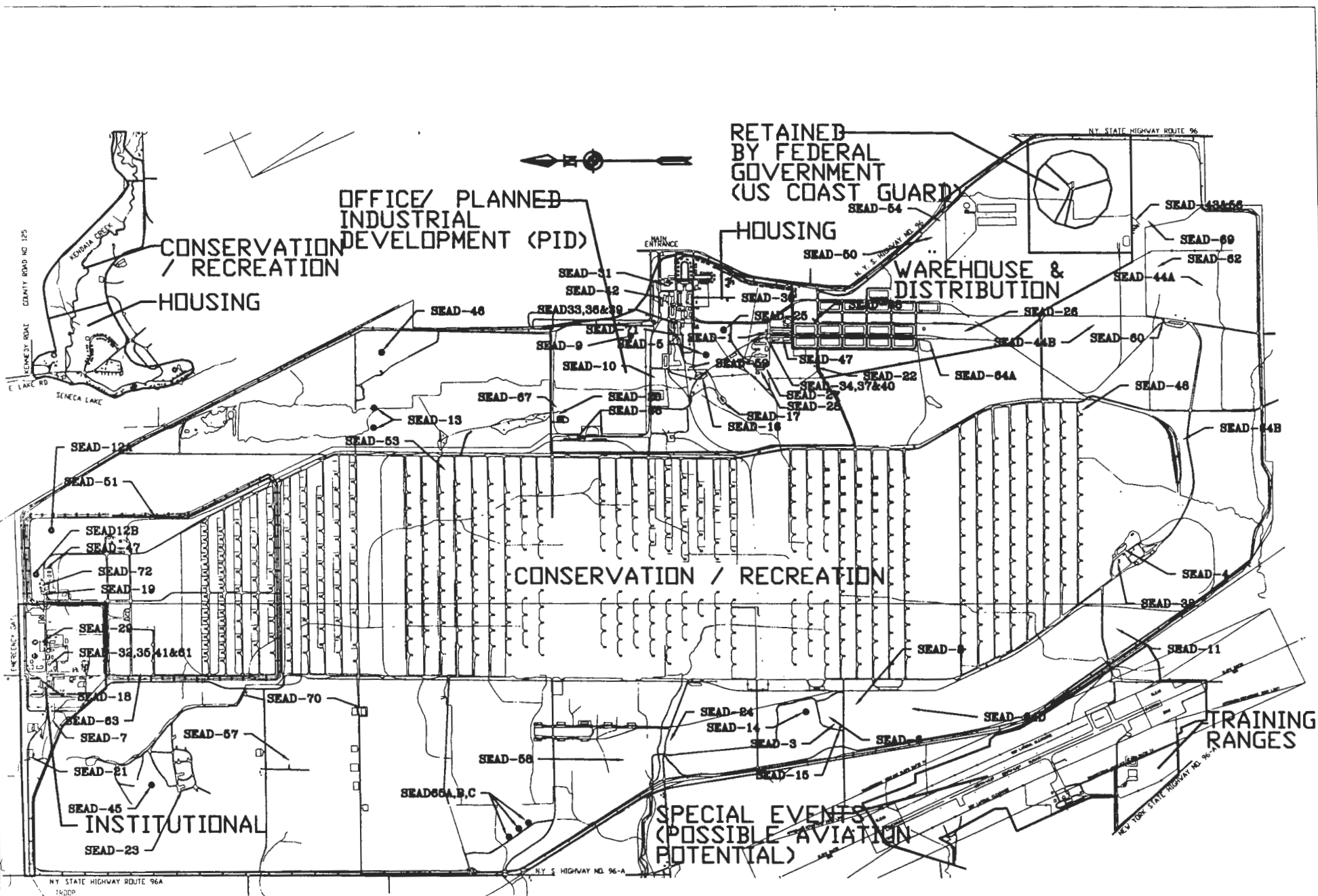
Reuse Implications Munitions Washout Plant

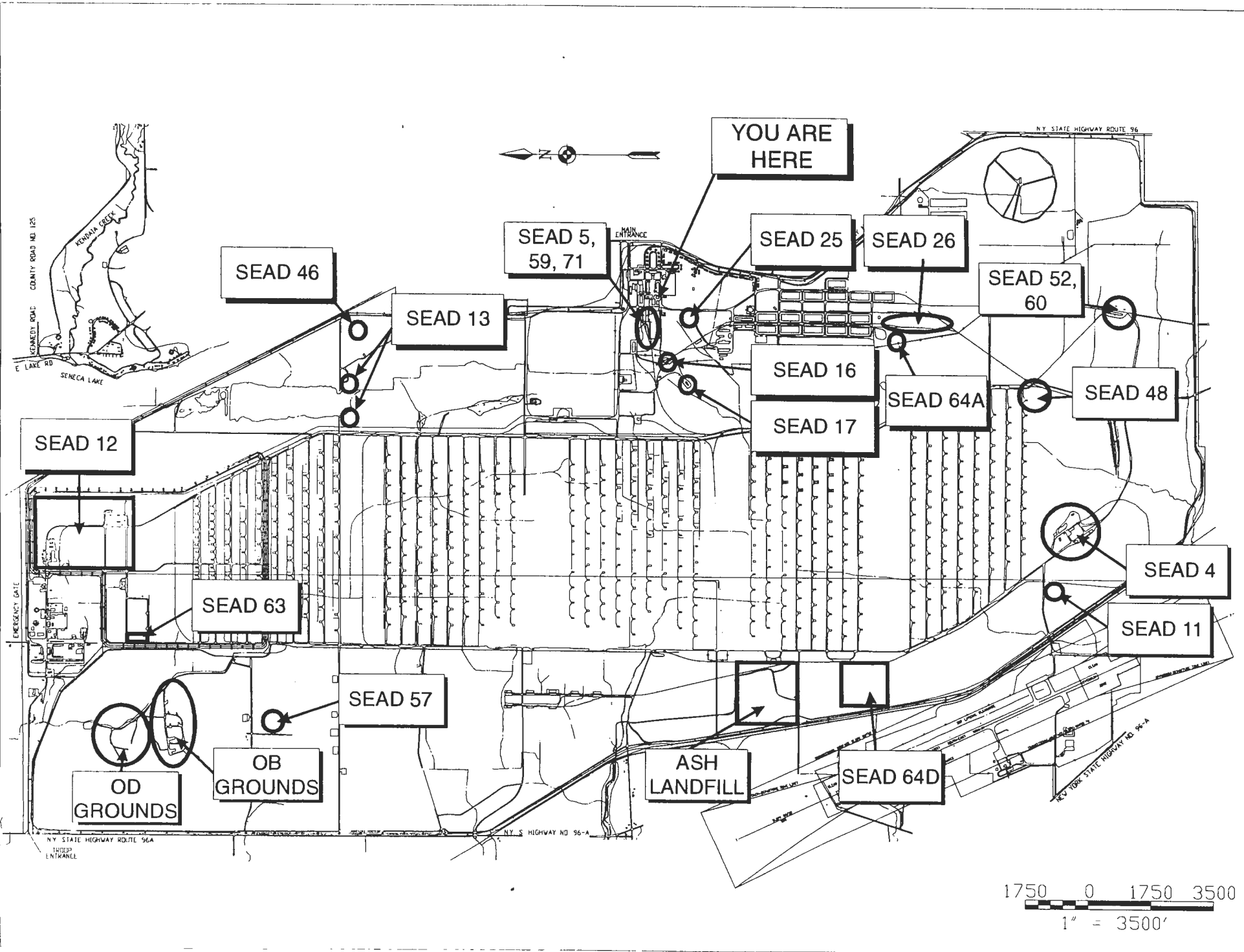
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Reuse Implications

Munitions Washout Plant

- The Munitions Washout Plant is in the Conservation/Recreation Area
- Lower Priority for Reuse than PID or Airfield





Risk Assessment Munitions Washout Plant

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Risk Assessment

Munitions Washout Plant

- Task Plan and Conceptual Site Model Outlined in the Project Scoping Plan(PSP)
- Preliminary Identification of Potential Receptors and Exposure Scenarios in PSP
- Receptors Identified as Future On-site Resident, Current On-site Workers, Visitors, and Terrestrial Biota
- Pathway Primary Sources Soil, GW, SW

Technology Selection Munitions Washout Plant

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Technology Selection

Munitions Washout Plant

- Groundwater Collection Trench
- Funnel and Gate Collection System
- Soil Stabilization and On-site Capping
- Soil Stabilization and Off-site Disposal
- Off-site Disposal
- Activated Carbon for Explosives

Cost Munitions Washout Plant

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Cost

Munitions Washout Plant

- \$1,210K for RI/FS FY 98
- (Contract Negotiated)
- \$600K for RD FY 99
- \$4,900K for RA FY 00
- \$50K for LTM FY 01,02

Initiatives to Reduce Cost Munitions Washout Plant

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Initiatives to Reduce Cost Munitions Washout Plant

- Generic Workplan with Site Specific Project Scoping Plan
- Groundwater Collection Trench
- Funnel and Gate Treatability Study at the Ash Landfill Site
- Metals in Soils Negotiations at OB
- Cost versus Cleanup Levels
- Anthropogenic Argument for SVOA's

Summary

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Summary

Munitions Washout Plant

- RD/RA Costs Are Planning Estimates
- Priority Changes Due to Reuse
- FY97 Reprogramming Requested Due to Resolution of High Priority Issues

