

**REMEDIAL INVESTIGATION REPORT
NMPC ONEIDA (SCONONDOA STREET) SITE**

Submitted To:

**NIAGARA MOHAWK POWER CORPORATION
300 ERIE BOULEVARD WEST
SYRACUSE, NEW YORK 13202**

Submitted By:

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290 ELWOOD DAVIS ROAD
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APPENDIX A

SURFACE SOIL SAMPLING RECORDS

PARSONS ENGINEERING SCIENCE, INC.

PAESSYR01\VOL1:WP\726521.03\26521R14.WW6
April 10, 1997/1:55 PM

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES
_____ of _____

SAMPLING: Time 1400 ~~AM~~ PM SS-07

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: F.-C. SAND, little F.-C. gravel, re.-little silt, dry

Analyze For: BTEX, PAHs, Cr, and TOC

Refrigerated: Date: 6/20/95 Time: 1400 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH: ↓ _____

Conductivity: ↓ _____

Comments: None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felton of Parsons ES
_____ of _____

SAMPLING:

Time 1400 ~~AM~~

~~P.M.~~

SS-107

Sample Type: Surface Soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / None

Odor: None

Other: None

Texture: F.-C. SAND, 1/4" f.-c. gravel, tr.-little silt, dry.

Analyze For: BTEX, PAHs, Cd^- , and TOC

Refrigerated: Date: 6/20/95 Time: 1400 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments SS-107 is a duplicate of SS-07.

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felter & Parsons ES

_____ of _____

SAMPLING: Time 1215 ~~AM~~

SS-08

~~P.M.~~

Sample Type: Surface Soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: F.-C. SAND, little F.-C. gravel, re.-little silt, dry

Analyze For: BTEX, PAHs, Cn^- , and TOC

Refrigerated: Date: 6/20/95 Time: 1215 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/19/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1427 AM: _____ P.M.: _____ SS-09

Sample Type: Surface Soil

Sampling Method: Split Spoon, bowl, and spoon

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / trace black

Odor: None

Other: None

Texture: 0 to 0.25' Stone Fill 0.25-0.5' SILT, some fine sand, fill.

Analyze For: BTEX, PAHs, Ca^{2+} , and TOC

Refrigerated: _____ Date: 6/19/95 Time: 1427 AM: _____ P.M.: _____

Field Tests:

Temperature: (C/F) NA Weather: _____

pH: _____

Conductivity: _____

Comments: None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oncida Date: 6/14/95

Samplers: Nick A. Smith & Parsons ES

_____ of _____

SAMPLING: Time 1600 ~~AM~~

~~P.M.~~

SS-10

Sample Type: Surface soil

Sampling Method: Stainless Steel, Spoon, bowl, and hand auger

Depth of Sample: 0.05 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Eastern tributary

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: SILT, some f. sand, little organics (roots) and rock

Analyze For: BTEX, PAHs, and Cu⁺

Refrigerated: _____ Date: 6/14/95 Time 1600 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/14/95

Samplers: Nick A. Smith & Parsons ES

of _____

SAMPLING:

Time 1600 ~~AM~~

SS-10M

~~P.M.~~

Sample Type: Surface Soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.05 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Eastern tributary

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: SILT, some F. sand, little organics (roots) and root

Analyze For: BTEX, PAHs, and Cr⁶⁺

Refrigerated: _____ Date: 6/14/95 Time 1600 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments SS-10M is a Matrix Spike of SS-10.

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/14/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1600 ~~AM~~ SS-10 MD

_____ ~~P.M.~~

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.05 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Eastern tributary

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: SILT, some f. sand, little organics (roots) and rock

Analyze For: BTEX, PAHs, and Cu

Refrigerated: Date: 6/14/95 Time 1600 ~~AM~~

_____ ~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity ✓ _____

Comments SS-10 MD is a matrix spike duplicate of SS-10

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES

_____ of _____

SAMPLING: Time 1045 ~~AM~~ SS-11

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North west

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: F.-C. GRAVEL and F.-C. SAND, w/ little silt, dry

Analyze For: BTEX, PAHs, and Cu, and TOC

Refrigerated: Date: 6/20/95 Time 1045 ~~AM~~

_____ ~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oncida Date: 6/14/95

Samplers: Nick A. Smith & Parsons ES

_____ of _____

SAMPLING: Time 1630 ~~AM~~ SS-12
_____ ~~P.M.~~

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northwest

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: SILT, some f. sand, rr. organics, rock

Analyze For: BTEX, PAHs, Cn

Refrigerated: Date: 6/14/95 Time 1630 ~~AM~~

_____ ~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felter & Parsons ES

SAMPLING: Time 1145 ~~AM~~ PM SS-13

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northwest

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: F.-C. SAND, some F.-C. gravel, tr.-fine silt, dry

Analyze For: BTEX, PAHs, and Cu^{+} , and TOC

Refrigerated: Date: 6/20/95 Time: 1145 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather

pH

Conductivity

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oncida Date: 6/14/95

Sampler: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1515 ~~AM~~

~~PM~~

SS-14

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.25 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Dark brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Dark brown / None

Odor: None

Other: None

Texture: F. SAND and SILT, little rock and brick frags.

Analyze For: BTEX, PAHs, and Cu

Refrigerated: Date: 6/14/95 Time 1515 ~~AM~~

~~PM~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC ONEIDA Date: 7/28/95

Samplers: N.A. SMITH of PARSONS

_____ of _____

SAMPLING: _____ Time _____ A.M.

SS-15

1310 P.M.

Sample Type: SURFACE SOIL

Sampling Method: STAINLESS STEEL SPOON

Depth of Sample: 0-6"

Description of Sampling Point

Drainage Direction: FLAT, EITHER SOUTH TO SUNDOWN CREEK OR NE TO TAILRACE CREEK

Upstream From: ONEIDA CREEK BY EITHER ROUTE

Physical Appearance/Odor: YARD SE OF NMPC SERVICE CENTER BUILDING, GRASS

ON SURFACE

Wildlife Observed: NONE

Sampling Description:

Suspended Matter: _____

Color/Stain: BROWN

Odor: NONE

Other: DRY

Texture: F-M SAND, LITTLE SILT, TRACE F. GRAVEL + FILL (CERAMIC)

Analyze For: TCL VOA, SVOA, PEST/PCB, TAL METALS, CYANIDE, TOC

Refrigerated: _____ Date: 7/28/95 Time _____ A.M.

1310 P.M.

Field Tests:

Temperature: (C/F) _____ Weather: SUNNY, 86°

pH _____

Conductivity _____

Comments: MS/MSD SETS COLLECTED (ID: SS-15M, SS-15MB), DUPLICATE COLLECTED (ID: SS-115)

CHAIN OF CUSTODY # 0656

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/14/95

Samplers: Nick A. Smith & Parsons ES
of _____

SAMPLING: Time 1650 ~~AM~~

~~P.M.~~

SS-16

Sample Type: Surface Soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.05 to 0.5'

Description of Sampling Point

Drainage Direction: North west

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: None

Texture: SILT, some f. sand, little organic and rock frags

Analyze For: BTEX, PAHs, Cr⁻

Refrigerated: Date: 6/14/95 Time: 1650 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oncida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES

SAMPLING:

Time 1645 ~~AM~~

~~P.M.~~

SS-17

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: Off-site, north of residents east of site

Texture: SILT, little clay, tr. f.m. sand, acc. f. gravel

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/20/95 Time 1645 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather

pH

Conductivity

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oneida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES
of _____

SAMPLING:

Time 1630 ~~AM~~
~~P.M.~~

SS-18

Sample Type: Surface soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Tailrace Creek

Physical Appearance/Odor: Brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: ~~None~~ ^{EAF} OFF-site, DPW property

Texture: E-M. SAND, little silt, dry

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/20/95 Time: 1630 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC Oncida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES

_____ of _____

SAMPLING:

Time 1515 ~~AM~~

SS-19

~~P.M.~~

Sample Type: Surface Soil

Sampling Method: Stainless Steel Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: South

Upstream From: Tailrace Creek

Physical Appearance/Odor: Dark brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Dark brown / none

Odor: None

Other: Off-site location

Texture: Organic rich F. SAND and SILT

Analyze For: BTEX, PAHs, Cu, and TOC

Refrigerated:

Date: 6/20/95 Time 1515 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F)

NA

Weather _____

pH

↓

Conductivity

↓

Comments None

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC ONEIDA Date: 7/28/95

Samplers: N.A. SMITH of PARSONS

of _____

SAMPLING: SS-20 Time _____ A.M.

1330 P.M.

Sample Type: SURFACE SOIL

Sampling Method: STAINLESS STEEL SPOON

Depth of Sample: 0-6"

Description of Sampling Point

Drainage Direction: FLAT, LIKELY SOUTH TO SCANDONA ST

Upstream From: ONEIDA CREEK

Physical Appearance/Odor: NEAR NW CORNER OF DOW BLDG, GRASSY AREA BETWEEN

DOW & MIDSTATE SUPPLY CO.

Wildlife Observed: NONE

Sampling Description:

Suspended Matter: _____

Color/Stain: BROWN

Odor: NONE

Other: DAMP

Texture: SILT, SOME FINE SAND & CRUSHED STONE

Analyze For: TCL VOA, SVOA, PEST/PCB, TAL METALS, CYANIDE, TOC

Refrigerated: _____ Date: 7/28/95 Time _____ A.M.

1330 P.M.

Field Tests:

Temperature: (C/F) _____ Weather: SUNNY, 86°

pH _____

Conductivity _____

Comments: CHAIN OF CUSTODY # 0656

SURFACE SOIL SAMPLING RECORD

Site Name: NMPC ONENYA Date: 7/28/95

Samplers: N.A. SMITH of PARSONS
_____ of _____

SAMPLING: SS-21 Time _____ A.M.
1350 P.M.

Sample Type: SURFACE SOIL

Sampling Method: STAINLESS STEEL SPOON

Depth of Sample: 0-6"

Description of Sampling Point

Drainage Direction: SOUTH

Upstream From: TAILRACE CREEK

Physical Appearance/Odor: TOP OF FORMER RAILROAD BED CURRENTLY USED AS
HIKING/BIKING PATH, UNVEGETATED

Wildlife Observed: WOODCHUCKS

Sampling Description:

Suspended Matter: _____

Color/Stain: BROWN-DARK GRAY

Odor: NONE

Other: DRY

Texture: FINE SAND, LITTLE FINE GRAVEL

Analyze For: TCL, VOA, SVOA, PEST/PCB, TAL METALS, CYANIDE, TOC

Refrigerated: Date: 7/28/95 Time _____ A.M.
1350 P.M.

Field Tests:

Temperature: (C/F) _____ Weather: SUNNY, 86°

pH _____

Conductivity _____

Comments: CHAN OF CUSTODY # 0656

APPENDIX B

SURFACE WATER AND SEDIMENT SAMPLING RECORDS

SURFACE WATER SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

of _____

SAMPLING:

Time 1630 ~~AM~~

~~PM~~

SW-10

Sample Type: Surface Water

Sampling Method: Stainless Steel Cup

Depth of Sample: Surface

Description of Sampling Point

Drainage Direction: North

Upstream From: Site and most of public park

Physical Appearance/Odor: Slight gray-green / Septic

Wildlife Observed: None

Sampling Description:

Suspended Matter: Trace

Color/Stain: Slight gray-green / None

Odor: Septic

Other: None

Texture: NA

Analyze For: BTEX, PAHs, and Cn^-

Refrigerated: _____

Date: 6/15/95 Time 1630 ~~AM~~

~~PM~~

Field Tests:

Temperature: (CE) 72.8° Weather: clear, ~60°F

pH 8.05 SU

Conductivity 1040 $\mu\text{S}/\text{cm}$

Comments SW-10 is near fishing spot and dumping area, Scenoclea St. bridge is ~150 yards upstream

SURFACE WATER SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1530 ~~AM~~

~~PM~~

SW-11

Sample Type: Surface Water

Sampling Method: Stainless Steel Cup

Depth of Sample: Surface

Description of Sampling Point

Drainage Direction: North

Upstream From: RR bridge

Physical Appearance/Odor: Slight white foam, trace sheen / slight
septic

Wildlife Observed: None

Sampling Description:

Suspended Matter: None

Color/Stain: Clear / None

Odor: slight septic

Other: slight white foam, trace sheen

Texture: NA

Analyze For: BTEX, PAHs, and Cu⁺

Refrigerated: Date: 6/15/95 Time 1530 ~~AM~~

~~PM~~

Field Tests:

Temperature: (C/F) 73.3° Weather: clear, ~60°F

pH 7.48 SU

Conductivity 959 μ S/cm

Comments: Oneida Creek, west of exposed gravel bar,
confluence of Tailrace Creek / Drainage swale w/ Oneida

SURFACE WATER SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1405 AM

_____ PM

SW-12

Sample Type: Surface Water

Sampling Method: Stainless Steel Cup

Depth of Sample: Surface

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: Clear to slight yellow tint / slight septic

Wildlife Observed: None

Sampling Description:

Suspended Matter: Trace

Color/Stain: Slight yellow / NA

Odor: Trace septic

Other: None

Texture: NA

Analyze For: BTEX, PAHs, and Cu^{+}

Refrigerated: Date: 6/15/95 Time 1405 AM

_____ PM

Field Tests:

Temperature: (°C) 73.4° Weather clear, ~60°F

pH 8.03 SU

Conductivity 939 $\mu S/cm$

Comments Oneida Creek, down stream of RR bridge

NMPC ONEIDA
SEDIMENT SAMPLE RECORDS

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

of _____

SAMPLING:

Time 1640 ~~AM~~

~~PM~~

SED-12

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 1.0'

Description of Sampling Point

Drainage Direction: North

Upstream From: Public park, RR bridge

Physical Appearance/Odor: Dark brown to black / humic

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Dark brown to black / None

Odor: Humic

Other: None

Texture: C. SAND, some f. gravel, high organic

Analyze For: BTEX, PAHs, and Cd^-

Refrigerated: Date: 6/15/95 Time: 1640 ~~AM~~

~~PM~~

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments Upgradient on Oncida Creek

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES
_____ of _____

SAMPLING: Time 1650 AM: _____
_____ PM: SED-13

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 1.0'

Description of Sampling Point

Drainage Direction: North

Upstream From: Public Park, RR bridge

Physical Appearance/Odor: Brown to pinkish yellow / septic

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown to pinkish yellow / None

Odor: Septic

Other: None

Texture: CLAY, some f. gravel

Analyze For: BTEX, PAHs, and Cr⁻

Refrigerated: Date: 6/15/95 Time 1650 AM: _____
_____ PM: _____

Field Tests:

Temperature: (C/F) NA Weather: _____

pH: _____

Conductivity: _____

Comments: Upgradient on Oncida Creek

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Onaida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1700 ~~AM~~ PM

SED-14

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 1.0'

Description of Sampling Point

Drainage Direction: North

Upstream From: Public Park, RR bridge

Physical Appearance/Odor: Brown to pinkish yellow / strong septic

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown to pinkish yellow / None

Odor: Strong septic

Other: None

Texture: CLAY, some f. gravel

Analyze For: BTEX, PAHs, and Cd^-

Refrigerated: Date: 6/15/95 Time 1650 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: Up gradient on Onaida Creek

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1500 AM

_____ P.M.

SED-15

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 1.0'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: Pink with some yellow staining /
None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / yellow

Odor: None

Other: None

Texture: CLAY, some organics, some silt

Analyze For: BTEX, PAHs, and Cu⁺

Refrigerated: Date: 6/15/95 Time 1500 AM

_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/15/95

Samplers: Nick A. Smith & Parsons ES

_____ of _____

SAMPLING: Time 1436 AM

PM

SED-16

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: brown / None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: brown / brown on a few pieces of f. gravel

Odor: None

Other: None

Texture: M-C. GRAVEL, little fines

Analyze For: BTEX, PAHs, & Cn⁻

Refrigerated: Date: 6/15/95 Time: 1436 AM

PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES
_____ of _____

SAMPLING: Time 1600 ~~AM~~ PM SED-116

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: brown / None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: brown / None

Odor: None

Other: None

Texture: M.-C. GRAVEL, little silt/clay

Analyze For: BTEX, PAHs, Cd^{2+} , and TOC

Refrigerated: Date: 6/20/95 Time 1600 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments Note: SED-116 is duplicate of SED-16.

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES
_____ of _____

SAMPLING: Time 1600 ~~AM~~ PM SED-16M

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: brown / None

Odor: None

Other: None

Texture: M-C GRAVEL, little silt / clay

Analyze For: BTEX, PAHs, and Cr^{6+}

Refrigerated: Date: 6/20/95 Time: 1600 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments SED-16M is matrix spike of SED-16

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/20/95

Samplers: Eric A. Felter of Parsons ES

_____ of _____

SAMPLING: Time 1600 ~~AM~~ PM SED-16MD

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: brown / None

Odor: None

Other: None

Texture: M-C GRAVEL, little silt/clay

Analyze For: BTEX, PAHs, and Cu

Refrigerated: Date: 6/20/95 Time: 1600 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: SED-16MD is matrix spike duplicate of SED-16

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Onaida Date: 6/15/95

Samplers: Nick A. Smith of Parsons ES

_____ of _____

SAMPLING: Time 1450 AM

SED-17

Sample Type: Sediment

Sampling Method: Spoon and bowl

Depth of Sample: 0.0 to 1.0'

Description of Sampling Point

Drainage Direction: North

Upstream From: Riffle area

Physical Appearance/Odor: Light brown / None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: light brown / None

Odor: None

Other: None

Texture: C. SAND, and f.-m. gravel

Analyze For: BTEX, PAHs, and Cu⁻

Refrigerated: Date: 6/15/95 Time 1450 AM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Orinda Date: 6/27/95

Samplers: Peter M. Huth & Parsons ES

of _____

SAMPLING:

Time 10 10 ~~AM~~

_____ P.M.

SED - 18A

Sample Type: Sediment

Sampling Method: Spoon, bowl, hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North east

Upstream From: Gravel road and Orinda Creek

Physical Appearance/Odor: black / Napthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: black / None

Odor: Napthalene-like

Other: None

Texture: V. fine grained

Analyze For: BTEX, PAHs, Cu, and TOC

Refrigerated: _____ Date: 6/27/95 Time 10/0 ~~AM~~

_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Onaida Date: 6/27/95

Samplers: Peter M. Hart of Parsons ES

SAMPLING:

Time 1140 ~~AM~~

SED-18B 2.0-2.5'

~~P.M.~~

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 2.0 to 2.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Gravel road and Onaida Creek

Physical Appearance/Odor: Black / Napthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: black / None

Odor: Napthalene-like

Other: None

Texture: Fine

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/27/95 Time 1140 ~~AM~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather

pH

Conductivity

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Orinda Date: 6/27/95

Samplers: Peter M. Harth or Parsons ES

_____ of _____

SAMPLING: Time 1040 AM

SED-118

P.M.

Sample Type: Sediment

Sampling Method: Spun, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Gravel road and Orinda Creek

Physical Appearance/Odor: black / Napthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: black / None

Odor: Napthalene-like

Other: None

Texture: V. fine grained

Analyze For: BTEX, PAHs, Cu, and TOC

Refrigerated: Date: 6/27/95 Time 1040 AM

P.M.

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity V _____

Comments SED-118 is a duplicate of sample SED-18

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Orinda Date: 6/27/95

Samplers: Peter M. Harth of Parsons ES
_____ of _____

SAMPLING: Time 1025 AM SED-118M
_____ P.M.

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Gravel road and Orinda Creek

Physical Appearance/Odor: black / Naphthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: black / None

Odor: Naphthalene-like

Other: None

Texture: V. fine grained

Analyze For: BTEX, PAHs, Cu, and TOC

Refrigerated: Date: 6/27/95 Time 1025 AM
_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather _____

pH ↓ _____

Conductivity ↓ _____

Comments: SED-118M is a Matrix spike of SED-18

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/27/95

Samplers: Peter M. Hartha Parsons ES
_____ of _____

SAMPLING: Time 1025 AM SED-118 MD
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Gravel road and Oncida Creek

Physical Appearance/Odor: black / Naphthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: ~~bl~~ ^{NA} NA

Color/Stain: black / None

Odor: Naphthalene-like

Other: None

Texture: V. fine grained

Analyze For: BTEX, PAHs, Cd, and TOC

Refrigerated: Date: 6/27/95 Time: 1025 AM

_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments SED-118MD is a Matrix Spike Duplicate of
SED-18

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oncida Date: 6/27/95

Samplers: Peter M. Harth or Parsons ES

_____ of _____

SAMPLING: Time 1420 ~~AM~~ PM

SED-19A

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: North east

Upstream From: Gravel road and Oncida Creek

Physical Appearance/Odor: Gray-black / slight hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Gray-black / None

Odor: slight hydrocarbon

Other: slight sheen

Texture: C. SAND, M. GRAVEL, and BRICK

Analyze For: BTEX, PAHs, Cu⁺, and TOC

Refrigerated: Date: 6/27/95 Time 1420 ~~AM~~ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/27/95

Samplers: Peter M. Hartke of Parsons ES
_____ of _____

SAMPLING: Time 1435 AM SED-19B 0.5-1.0'
_____ P.M.

Sample Type: Sediment

Sampling Method: Spec, bowl, and hand auger

Depth of Sample: 0.5 to 1.0'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Gravel road and Oneida Creek

Physical Appearance/Odor: Gray-black / Napthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Gray-black / None

Odor: Napthalene-like

Other: slight sheen

Texture: C. SAND + M. GRAVEL, some f. gravel

Analyze For: BTEX, PAHs, Cu²⁺, and TOC

Refrigerated: _____ Date: 6/27/95 Time 1435 AM
_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Onaida Date: 6/27/95

Samplers: Peter M. Hart & Parsons ES

of

SAMPLING: Time 1500 A.M. SED-19C 2.0 to 3.0'

P.M.

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 2.0 to 3.0'

Description of Sampling Point

Drainage Direction: North east

Upstream From: Gravel road and Onaida Creek

Physical Appearance/Odor: Gray-black / slight naphthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Gray-black / None

Odor: Slight Naphthalene-like

Other: None

Texture: F. SAND

Analyze For: BTEX, PAHs, Ca²⁺, and TOC

Refrigerated: Date: 6/27/95 Time: 1500 ~~A.M.~~

~~P.M.~~

Field Tests:

Temperature: (C/F) NA Weather: _____

pH: _____

Conductivity: _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/27/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 1600 AM

SED-20A

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: _____

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: _____

Odor: _____

Other: _____

Texture: _____

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/27/95 Time: 1600 AM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: _____

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Onaida Date: 6/28/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 0950 AM SED-20B 0.5-1.0'
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.5 to 1.0'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Onaida Creek

Physical Appearance/Odor: Black / strong hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Black / None

Odor: Strong hydrocarbon

Other: Some sheen

Texture: fine grained

Analyze For: BTEX, PAHs, Cu^{2+} , and TOC

Refrigerated: Date: 6/28/95 Time: 0950 AM

_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Orinda Date: 6/28/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 1010 AM SED-200 1.5 to 2.0'
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 1.5 to 2.0'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Orinda Creek

Physical Appearance/Odor: Black / hydrocarbon odor

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Black / Black

Odor: Hydrocarbon

Other: Some sheen

Texture: fine grained

Analyze For: BTEX, PAHs, Cu⁺, and TOC

Refrigerated: Date: 6/28/95 Time: 1010 AM

_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Harth & Parsons ES
_____ of _____

SAMPLING: _____ Time 1030 AM SED-2003.0-3.5'
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Dark brown / strong hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Dark brown / black

Odor: hydrocarbon (strong)

Other: Visible free phase blebs: black to dark brown

Texture: F. to M. SAND

Analyze For: BTEX, PAHs, Cd^{2+} , and TOC

Refrigerated: _____ Date: 6/28/95 Time 1030 AM
_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Harth & Parsons ES

_____ of _____

SAMPLING: Time 1130 AM SED-21A
_____ P.M.

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Black / hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Black / Black

Odor: Hydrocarbon

Other: Free-phase blebs

Texture: fine grained

Analyze For: BTEX, PAHs, Cu^{2+} , and TOC

Refrigerated: Date: 6/28/95 Time: 1130 AM
_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Huth or Parsons ES

of _____

SAMPLING: Time #55^{EST} SED-21B 0.5-1.0'
1200 AM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.5 to 1.0'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Black / hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Black / Black

Odor: Hydrocarbon

Other: Free phase blebs, slight sheen

Texture: pasty

Analyze For: RTEX, PAHs, Cu^+ , and TOC

Refrigerated: Date: 6/28/95 Time: 1200 AM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Hartha or Parsons ES

_____ of _____

SAMPLING: Time 1230 AM

SED-21C 3.0-3.5'

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Black / hydrocarbon (strong)

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Black / Black

Odor: Hydrocarbon (strong)

Other: Free-phase blobs, some sheen

Texture: _____

Analyze For: RTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/28/95 Time: 1230 AM

_____ PM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Hartha & Parsons ES

_____ of _____

SAMPLING:

Time 1500 AM

SED-22A

PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Light reddish-brown / faint hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Light reddish-brown / black

Odor: Faint hydrocarbon

Other: None

Texture: F.-VF. SAND, some clay

Analyze For: BTEX, PAHs, Cu^{2+} , and TOC

Refrigerated:

Date: 6/28/95 Time 1500 AM

PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Hark of Parsons ES

_____ of _____

SAMPLING: Time 1530 AM SED-23A

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / slight naphthalene-like

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / Black

Odor: slight naphthalene-like

Other: None

Texture: SILT, some clay

Analyze For: BTEX, PAHs, Cu^{2+} , and TOC

Refrigerated: Date: 6/28/95 Time: 1530 AM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/30/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 0930am SED-23B

_____ P.M.

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / slight hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / black streaks

Odor: slight hydrocarbon

Other: brown oily free-phase blebs

Texture: SILT and F. SAND, some M. gravel

Analyze For: BTEX, PAHs, Cu²⁺, and TOC

Refrigerated: Date: 6/30/95 Time: 0930am

_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/30/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 0930 am

SED-23BM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / slight hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / black streaks

Odor: slight hydrocarbon

Other: brown oily free-phase blobs

Texture: SILT and F. SAND, some m. gravel

Analyze For: RTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/30/95 Time 0930 am

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments SED-23BM is matrix spike of SED-23B

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/30/95

Samplers: Peter M. Huth and Parsons ES

_____ of _____

SAMPLING: Time 0930 AM SED-23BMD

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / slight hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / black streaks

Odor: slight hydrocarbon

Other: brown oily free-phase blebs

Texture: SILT and F. SAND, some m. gravel

Analyze For: BTEX, PAHs, Cu²⁺, and TOC

Refrigerated: Date: 6/30/95 Time 0930 AM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: SED-23BMD is matrix spike duplicate of SED-23B

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/30/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING:

Time 0930 am

SED-123B

_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 3.0 to 3.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / slight hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / black streaks

Odor: slight hydrocarbon

Other: brown oily free-phase blebs

Texture: SILT and F. SAND, some m. gravel

Analyze For: BTEX, PAHs, Cd^{2+} , and TOC

Refrigerated: _____ Date: 6/30/95 Time 0930 am

_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: SED-123B is duplicate of SED-23B

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Orinda Date: 6/30/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 1030 AM SED-24B
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 2.5 to 3.0'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Orinda Creek

Physical Appearance/Odor: Brown / hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / black

Odor: hydrocarbon

Other: occ. brown free-phase blebs

Texture: SILT and CLAY

Analyze For: BTEX, PAHs, Cu^{2+} , and TOC

Refrigerated: Date: 6/30/95 Time: 1030 AM
_____ PM

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/28/95

Samplers: Peter M. Hart & Parsons ES

_____ of _____

SAMPLING: Time 1625 am SED-24A
_____ pm

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Pink / hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Pink / black

Odor: Hydrocarbon

Other: top 0.02' dead leaves coated w/ free-phase

Texture: SILT and CLAY

Analyze For: RTEX, PAHs, Cu^{2+} , and TOC

Refrigerated: Date: 6/28/95 Time: 1625 am
_____ pm

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: Some free-phase blobs in silt + clay.

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/29/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 0930 AM SED-25A
_____ PM

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: dark brown / v. faint hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: dark brown / none

Odor: v. faint hydrocarbon

Other: tr. sheen

Texture: F. SAND roots / moss

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/29/95 Time: 0930 AM
_____ PM

Field Tests:

Temperature: (C/F) NA Weather _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/29/95

Samplers: Peter M. Huth of Parsons ES

_____ of _____

SAMPLING: Time 1030 am

SED-26A

_____ P.M.

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: black / hydrocarbon

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: black / None

Odor: Hydrocarbon

Other: slight sheen

Texture: V. f. grained

Analyze For: BTEX, PAHs, Cu^{+} , and TOC

Refrigerated: Date: 6/29/95 Time: 1030 am

_____ P.M.

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/29/95

Samplers: Peter M. Hartha Parsons ES

_____ of _____

SAMPLING: Time 1325 am

SED-27A

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Brown / None

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Brown / none

Odor: None

Other: Topsoil

Texture: Fine grained

Analyze For: BTEX, PAHs, Cu²⁺, and TOC

Refrigerated: Date: 6/29/95 Time: 1325 am

Field Tests:

Temperature: (C/F) NA Weather: _____

pH: _____

Conductivity: _____

Comments: None

SEDIMENT SAMPLING RECORD

Site Name: NMPC - Oneida Date: 6/29/95

Samplers: Peter M. Huth & Parsons ES

_____ of _____

SAMPLING: Time 1340 am

SED-28A

Sample Type: Sediment

Sampling Method: Spoon, bowl, and hand auger

Depth of Sample: 0.0 to 0.5'

Description of Sampling Point

Drainage Direction: Northeast

Upstream From: Oneida Creek

Physical Appearance/Odor: Light brown / none

Wildlife Observed: None

Sampling Description:

Suspended Matter: NA

Color/Stain: Light brown / none

Odor: None

Other: None

Texture: Sandy topsoil dry

Analyze For: BTEX, PAHs, Ca^{2+} , and TOC

Refrigerated: Date: 6/29/95 Time: 1340 am

Field Tests:

Temperature: (C/F) NA Weather: _____

pH _____

Conductivity _____

Comments: None

APPENDIX C

BORING LOGS AND SUBSURFACE SOIL SAMPLING RECORDS

Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-1R WELL NO.		
					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2		
					PROJECT NUMBER 726521		Location description: West of building near former holder		
GROUNDWATER OBSERVATIONS					Weather Mostly sunny, 65 degrees		LOCATION PLAN See Site Plan		
Water Level _____ Date _____ Time _____ Meas. _____ From _____					Date/Time Start 6/22/95 @ 1625 Date/Time Finish 6/23/95 @ 0915		ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0		A					
				A					
				A					
		2		A					
				A					
				A					
				A	FILL - brown to black SAND, SILT, STONE, damp.				
				A					
				A					
		4		SS					
				SS					
				SS					
36.9	C		12	12					
				10					
				4					
		6		8	6.5' wet at 6 feet, brown NAPL 6-6.5 feet				
				8					
				15					
				4	PEAT, black, moist, odor, trace clay in 1" thick seams. 8.0'		11.66	333.3	ND
		8		3					
				3					
247	E		75	4	Fine-med. SAND, some silt, brown to black, wet, odor. sheen 8-16 feet				
				4					
				3					
		10		2					
				2					
				2					
308	F		88	WOH					
				WOH					
				1					
		12		3	trace NAPL 12.5-12.6 feet				
				3					
				4					
		14		7			8	167.54	0.76
				7					
				7					
48.7	H		50	2	Fine-med. SAND, little silt, trace organics, wet, brown. 16'				
				2					
				3					
		16		4					
				4					
				7					
68.4	I		68	4	Fine-med. SAND, some fine-med. gravel, wet, brown, strong odor. 18.5'				
				7					
				7					
		18		8					
				8					
				1					
56.1	J		68	1	Fine SAND, some silt, brown, wet, slight odor.				
				1					
				1					
		20		2					

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS

Lab samples from 6-10' (TCL(TAL), 12-16 (MGP))

'I' denotes analytical sample interval

13-Feb-96

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-3R WELL NO.		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location description: North of Service		
Rig Type: CME							Center building, southwest of fuel island.		
GROUNDWATER OBSERVATIONS					Weather Sunny, 80's		LOCATION PLAN See Site Plan		
Water Level					Date/Time Start 6/20/95 @ 1530				
Date					Date/Time Finish 6/20/95 @ 1620				
Time									
Meas. From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0		A	ASPHALT				
				A					
				A					
0.0	B	2		A	FILL - brown fine-med. SAND, GRAVEL, BRICK AND CINDERS, dry				
				A					
				A					
		4		SS					
				A					
0.0	C		50	2					
		6		1					
				2					
				1					
0.0	D		25	1	WET AT 7 ft. slight odor				
		8		1					
				1	9 ft				
0.0	E		62.5	WT ROD	PEAT - silt, trace F sand, little organics, dark brown, moist		{		
		10		WT ROD			{		
				1			{		
				2			{		
0.0	F		25	1			{		
		12		2			{	ND	0.17
				2			{		
				2			{		
0.0	G		75	2	contains scattered gray clay seams approx. 1 inch thick		{		
		14		2			{		
				2			{		
				2			{		
0.0	H		100	2			{		
		16		2	16.5 ft		{		
				2	fine-med. SAND, little fine-med. gravel, slight odor, wet		{		
0.0	I		87.5	1			{	0.027	0.88
		18		1			{		ND
				1			{		
				1			{		
0.0	J		62.5	1			{		
		20		1	19.75 ft		{		
				2	fine SAND, little silt, contains silt partings, brown, wet, no odor		{		
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS Lab samples: 9 - 15 (+ MS/MSD) + 17 - 19 R for MGP IND. (*) denotes analytical sample interval				

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO.	B-3R						
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521		Sheet 2 of 2 Location description: North of Service Center building, southwest of fuel island.					
GROUNDWATER OBSERVATIONS					Weather Sunny, 80's Date/Time Start 6/20/95 @ 1530 Date/Time Finish 6/20/95 @ 1620		LOCATION PLAN See Site Plan					
					ANALYTICAL RESULTS							
Water Level	Date	Time	Meas. From	PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
						20		1	fine SAND, little silt, contains silt partings, brown, wet, no odor			
								2				
				0.0	K		62.5	1				
						22		2				
								2				
								1				
				0.0	L		50	1				
						24		2				
								1				
								3				
						26			End of boring @ 25 ft			
						28						
						30						
						32						
						34						
						36						
						38						
						40						
SAMPLING METHOD					COMMENTS							
SS = SPLIT SPOON					Lab samples: 9 - 15 (+ MS/MSD) + 17 - 19 ft for MGP IND.							
A = AUGER CUTTINGS					'I' denotes analytical sample interval							
C = CORED												

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO. B-6R			
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521			
					Sheet 1 of 2			
					Location Description: Center of yard			
GROUNDWATER OBSERVATIONS								
Water Level Date Time Meas. From					Weather Sunny, 85 degrees Date/Time Start 6/21/95 @ 1450 Date/Time Finish 6/21/95 @ 1608			
					LOCATION PLAN See Site Plan			
					ANALYTICAL RESULTS			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
				A				
				A				
				A				
		2		A				
				A				
				A				
				A				
		4		SS				
164	C		37.5	2	FILL - black sand, rock, cinders, moist			
				4				
				7				
		6		4	6 ft			
N/A	D		0	2	PEAT - brown silt, little fine sand and organics, wet			
				2				
				2				
		8		2				
43.1	E		62.5	3	8.5 ft			
				3	CLAY, some silt, trace organics, brown-gray, slight odor			
				2				
		10		2				
387	F		62.5	1	fine-med. SAND, some silt, brown-gray, wet	{ 0.03	{ 175.57	{ ND
				1	scattered blebs of brown-black NAPL 10.5-14 feet			
				1				
		12		1				
241	G		100	1	fine-med. SAND, little silt and fine gravel			
				1				
				1				
		14		1	-----transitional contact-----			
155	H		50	2	heavy sheen 14-16 feet			
				2				
				2				
		16		2				
127	I		37.5	2	fine-med. SAND, little fine-med gravel, wet			
				5	trace sheen 18-20 feet			
				7				
		18		9				
89.9	J		25	6				
				7				
				8				
		20		7				
111	K		62.5	5	fine-med. SAND, some silt, trace odor, wet			
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS LAB SAMPLES FROM 10-14 (TCL/TAL, TC) + 20-22 (MGP) 'I' denotes analytical sample interval			

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO.		
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					B-6R		
PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521					Sheet 2 of 2 Location Description: Center of yard		
GROUNDWATER OBSERVATIONS							
Weather Sunny, 85 degrees Date/Time Start 6/21/95 @ 1450 Date/Time Finish 6/21/95 @ 1608					LOCATION PLAN See Site Plan		
ANALYTICAL RESULTS							
MATERIAL IDENTIFICATION					BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count			
		20		7			
111	K		62.5	5	fine-med. SAND, some silt, trace odor, wet	0.14	12.17
				7			
				3			
		22		7			
18.8	L		30	4			
				6			
				5			
		24		8			
End of Boring @ 24 ft							
		26					
		28					
		30					
		32					
		34					
		36					
		38					
		40					
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS LAB SAMPLES FROM 10-14 (TCL(TAL), TC) + 20-22 (MGP) '(-' denotes analytical sample interval		

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-10R WELL NO.		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: East of former holder along service building		
Rig Type: CME									
GROUNDWATER OBSERVATIONS					Weather Sunny, 80 degrees		LOCATION PLAN See Site Plan		
Water Level					Date/Time Start 6/20/95 @ 1039				
Date					Date/Time Finish 6/20/95 @ 1220				
Time									
Meas From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0		A					
		2		A					
		4		SS					
4.8	C		62.5	2	4.5 ft FILL-black sand, cinders, gravel				
				2	WOOD FRAGMENTS - red, moist, odor				
				3					
		6		3			0.036	0.77	ND
104	D		62.5	4					
				4					
				4					
		8		4					
67.5	E		87.5	4	wet at 8.5 feet				
				5	9.0 ft		82.23	1.132.3	ND
				5	PEAT and brown SILT, little fine sand and organics, wet				
		10		4	odor, sheen 9-9.75 feet				
37.9	F		100	2	moist at 10 ft, no sheen				
				1					
				1	PEAT and CLAY, brown-gray, little silt in seams ~ 4" thick				
		12		1	12.0 ft				
3.9	G		75	2	fine-med. SAND, some silt, light brown, wet				
				2					
				2					
		14		2	14.0 ft				
196	H		75	2	PEAT and brown SILT, little fine sand and organics, wet				
				3	15.0 ft				
				7	fine-med. SAND, trace fine gravel, brown, wet				
		16		8					
0.0	I		100	14					
				11					
				12	fine-med. SAND, some fine gravel, gray, wet				
		18		8					
22.8	J		50	5	18.5 ft				
				5	fine SAND, some silt, light brown, wet				
				5					
		20		2					
0.0	K		75	3	little silt partings				
SAMPLING METHOD					COMMENTS		LAB SAMPLES FOR MGP INDICATORS: 8-10 R + 32-34 R TCL/TAL + TC: 5-7 R		
SS = SPLIT SPOON							('' denotes analytical sample interval)		
A = AUGER CUTTINGS									
C = CORED									

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO. B-10R			
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Schoonondoa Street) RI/FS PROJECT NUMBER 726521 Sheet 2 of 2 Location Description: East of former holder along service building			
GROUNDWATER OBSERVATIONS					Weather Sunny, 80 degrees Date/Time Start 6/20/95 @ 1039 Date/Time Finish 6/20/95 @ 1220			
Water Level Date Time Meas. From					LOCATION PLAN See Site Plan			
					ANALYTICAL RESULTS			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		20		2				
0.0	K		75	3	fine SAND, some silt, light brown, wet, little silt partings			
				4				
				3				
		22		4				
0.0	L		62.5	3	fine-medium SAND, trace silt, gray, wet			
				3				
				4				
		24		5				
0.0	M		37.5	2				
				2				
				2				
		26		2				
0.0	N		75	WOR				
				WOR				
				2				
		28		2				
0.0	O		50	2				
				3				
				5				
		30		7	30.0 ft			
0.0	P		100	7	fine-med. SAND, trace pebbles, gray, wet			
				8				
				12	31.5 ft			
		32		15	fine-med. SAND, little fine-med. gravel, gray, wet			
0.0	Q		100	20	32.75 ft			
				18	33.0 ft fine-med. SAND, some silt, little clay, brown	ND	ND	ND
				17	CLAY, trace silt and fine sand partings, brown, damp			
		34		20	very stiff			
					End of Boring @ 34 ft			
		36						
		38						
		40						
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS LAB SAMPLES FOR WGP INDICATORS: 8-10 R + 32-34 R TCL/TAL + TC: 5-7 R (*) denotes analytical sample interval			

13-Feb-96

Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-24 WELL NO.		
					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2		
					PROJECT NUMBER 726521		Location Description: West edge of yard		
GROUNDWATER OBSERVATIONS					Weather Sunny, 80 degrees		LOCATION PLAN See Site Plan		
Water Level					Date/Time Start 6/21/94 @ 1250				
Date					Date/Time Finish 6/21/94 @ 1326				
Time									
Meas From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0							
4.3	A		50	10	FILL - brown silt, rock fragments, sand, brick, cinders				
				7					
				5					
		2		8					
0	B		37.5	7	brown-black, dry				
				7					
				3					
		4		4					
0	C		25	3	wet at 4 ft				
				1					
				1					
		6		1	6 ft				
9.2	D		87.5	1	PEAT - SILT, trace fine sand and organics		{ 0.112	2.88	ND
				1	stained black 6-6.75 feet, rest dark brown				
				1					
		8		1					
0	E		75	1	8.5 ft				
				1	9.25 ft CLAY SEAM, gray, some silt, little organics				
				1	PEAT - SILT, trace fine sand and organics, dark brown				
		10		1	10 ft				
0	F		75	1	SILT, some fine sand, brown				
				1					
				1	----- transitional contact -----				
		12		1	fine-med. SAND, some silt, wet, brown				
2.2	G		62.5	1					
				1					
		14		1					
0	H		37.5	1	little fine gravel				
				2					
				1					
		16		1	16 ft				
0	I		75	1	fine-med. SAND, little fine gravel, gray, wet				
				2					
				3					
		18		4					
0	J		87.5	6					
				3					
				2	19.5 ft				
		20		2	fine SAND, little silt, gray, wet				
10.3	K		37.5	5	scattered silt seams approx. 1" thick				
SAMPLING METHOD					COMMENTS		LAB SAMPLE FROM 8-8 ft		
SS = SPLIT SPOON							'(' denotes analytical sample interval		
A = AUGER CUTTINGS									
C = CORED									

13-Feb-96

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-25 WELL NO.		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: Behind building		
Rig Type: CME							inside driveway loop		
GROUNDWATER OBSERVATIONS									
Water Level					Weather	Sunny, 65 degrees	LOCATION PLAN		
Date					Date/Time Start	6/21/95 @ 0915	See Site Plan		
Time					Date/Time Finish	6/21/95 @ 1033			
Meas. From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0							
0	A		12.5	50/2"	FILL -- crushed stone				
		2							
0	B		25	3	FILL -- fine-med. sand, silt, rock fragments, brown, dry				
				6					
				7					
		4		7	4 ft				
0	C		37.5	4	fine-med. SAND, little silt, brown, damp				
				5					
				7					
		6		6					
0	D		62.5	6					
				7					
				7					
		8		7	wet at 7.5 ft				
0	E		25	5					
				50/3"	rock/concrete fragments				
				A					
		10		A					
				A					
				A	11 ft				
45.1	F		100	1	fine-med. SAND, some silt, gray, trace odor, wet				
		12		1					
0	G		50	WOR					
				WOR					
				WOR					
		14		WOR	14 ft				
0	H		25	1	fine-med. SAND, little -- some fine-med. gravel, trace silt, wet				
				1	odor, trace brown free phase on gravel 14-14.5 feet				
				3					
		16		4					
0	I		62.5	4	trace sheen 16-20 feet				
				5					
				7					
		18		11					
16.3	J		50	2	trace free phase blebs 18-19 feet		{		
				5			{	0.015	11.74
				4			{		ND
		20		2			{		
0	K		37.5	7					

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS

LAB SAMPLES from 18-20 ft. (MGP IND)

*{ denotes analytical sample interval

13-Feb-96

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. B-26	
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2	
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: Southeast corner of yard	
Rig Type: CME-45								
GROUNDWATER OBSERVATIONS					Weather Sunny, 80 degrees		LOCATION PLAN See Site Plan	
Water Level					Date/Time Start 6/19/95 @ 1427			
Date					Date/Time Finish 6/19/95 @ 1550			
Time								
Meas. From							ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0	A		87.5	12	FILL - COMPACTED STONE 0-3"	ND	0.455	ND
				8	FILL - Brown silt, some fine-med. sand, little rock fragments, dry			
				6	trace black stain 0.25-4 feet			
		2		6				
0	B		25	4	damp			
				6				
				4				
		4		2				
10.7	C		50	3	Fine-med. SAND, some silt, little rock fragments, brown, moist			
				4				
				1				
		6		1	6.25 ft			
4.8	D		50	1	PEAT - silt, little fine sand and organics, dark brown, moist			
				1	benthic odor			
				1				
		8		1				
1.6	E		75	1	8.75 ft			
				1	CLAY, trace fine sand, gray, soft, moist			
				2				
		10		1	PEAT - silt, little fine sand and organics, dark brown, moist			
3.6	F		75	1				
				1	11 ft	0.002	39.1	ND
				1	fine-med. SAND, light brown, wet			
		12		3				
5.1	G		100	1				
				2				
				1				
		14		2				
0.2	H		62.5	2	little fine-med. gravel, brown-gray			
				3				
				3				
		16		5				
0.6	I		100	2				
				5				
				3	root at 17 ft			
		18		4	18 ft			
1.1	J		87.5	4	fine SAND, some silt, brown, wet			
				4				
				5				
		20		6				
1.0	K		50	1				
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS SURFACE SOIL SAMPLE SS-09 FROM 0-6" - MGP IND LAB SAMPLES FROM 10-12 FT AND 24-26 FT - MGP IND * (*) denotes analytical sample interval			

13-Feb-96

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-27 WELL NO.	
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2	
Inspector: Chris Torell					PROJECT NUMBER 726521		Location Description: Between Service	
Rig Type: CME							Center yard and gravel road, east of	
GROUNDWATER OBSERVATIONS					Weather Hazy, 80 degrees		monitoring well ES-3	
Water Level					Date/Time Start 7/12/95 @ 1245		LOCATION PLAN	
Date					Date/Time Finish 7/12/95 @ 1345		See Site Plan	
Time								
Meas. From								
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0	A		100	3	FILL—light brown sand and silt, dry			
				3				
				6				
		2		5				
0	B		100	6	most			
				7				
				6				
		4		9	wet at 4 ft			
0	C		100	3	black, wood fragment			
				2	5 ft			
				1				
		6		1	fine SAND and SILT, brown—red, wet			
0	D		100	8		ND	ND	4.55
				6				
				5				
		8		7				
0	E		100	4	fine SAND, some silt, brown—red, loose, wet			
				3				
				3				
		10		3	10 ft			
0	F		100	7	fine GRAVEL, little coarse sand, gray, wet			
				3				
				7	11.7 ft			
		12		7	12.0 ft SILT, some clay, little very fine sand, brown—red, firm, wet			
0	G		100	WOR				
				WOR	SILT and very fine SAND, gray—red, loose, wet			
				1				
		14		1				
0	H		100	1	some clay			
				3				
				1				
		16		1				
0	I		100	1				
				2				
				3				
		18		3				
0	J		100	5				
				1				
				1				
		20		4				
0	K		100	7				

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS

LAB MGP IND SAMPLES: 6–8 ft and 20–22 ft

('' denotes analytical sample interval)

13-Feb-96

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO.	B-28		
Contractor: North Star Drilling Driller: Joe Ely Inspector: Chris Torell Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521		Sheet 1 of 1 Location Description: West of gravel road, near gate and Tailrace Creek.	
GROUNDWATER OBSERVATIONS					Weather Hazy, 80 degrees Date/Time Start 7/12/95 @ 0830 Date/Time Finish 7/12/95 @ 0900		LOCATION PLAN See Site Plan	
					ANALYTICAL RESULTS			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
3.8	A		50	11	FILL - light brown sand, silt, wood, dry			
				10				
				8				
		2		10				
0.0	B		100	5				
				4				
				3	FILL - dark brown sand, some cinders, moist			
		4		3				
0.3	C		100	6				
				4				
				5	5.5 ft			
		6		5	med. SAND and SILT, light brown - red, moist			
33.8	D		100	5	wet at 6.2 ft			
				4	fine - coarse SAND, little silt, gray, wet			
				2	hydrocarbon odor			
		8		2				
4.1	E		100	2	little clay and wood			
				1				
				1				
		10		1				
2.7	F		100	WOR	loose			
				WOR				
				1				
		12		1	12 ft			
121	G		100	10	coarse SAND and fine - med. GRAVEL, little silt and clay.	37.2	441	1.89
				9	loose heavy sheen, strong odor, wet			
		14		7	trace free phase blebs 12 - 15.5 feet			
0.0	H		100	4				
				7				
				10	15.5 ft			
		16		12	CLAY, little silt, brown - red, stiff			
					End of Boring @ 16 ft			
		18						
		20						
SAMPLING METHOD					COMMENTS			
SS = SPLIT SPOON					LAB SAMPLE FROM 12 - 14 R (MGP IND)			
A = AUGER CUTTINGS					'(' denotes analytical sample interval			
C = CORED								

Contractor: North Star Drilling Driller: Joe Ely Inspector: Chris Torell Rig Type: CME					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-29 WELL NO.		
PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS					PROJECT NUMBER 726521		Sheet 1 of 1		
GROUNDWATER OBSERVATIONS					Weather Hazy, 80 degrees		LOCATION PLAN See Site Plan		
Date/Time Start 7/12/95 @ 1030					Date/Time Finish 7/12/95 @ 1100		ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)	
		0							
0.0	A		50	3	FILL - brown sand, silt, stone, dry				
				7					
				10					
		2		5					
0.0	B		50	4					
				7					
				6					
		4		5					
0.0	C		100	3	4.5 ft				
				2	fine-med. SAND, some silt, light brown-gray, moist				
				1					
		6		1	wet at 6 ft				
0.0	D		100	2	trace odor	ND	0.824	REJECTED	
				1					
				1					
		8		1					
0.0	E		50	2					
				5					
				1					
		10		1					
14.2	F		100	4	very fine SAND and SILT, little clay, gray, wet				
				WOR					
				WOR					
		12		1	12 ft				
22.0	G		25	2	fine-med. GRAVEL, little coarse sand, wet				
				3	strong hydrocarbon odor, sheen, freephase 12-15 feet				
				3		2.5	93.28	REJECTED	
		14		3					
99.5	H		100	4					
				6	15 ft				
7.0				12	CLAY and SILT, trace very fine sand, brown-red, moist				
		16		14					
					End of Boring at 16 ft				
		18							
		20							
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS LAB SAMPLES FROM 4-8 ft and 12-16 ft (MGP) '(' denotes analytical sample interval				

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ B-30 WELL NO.		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 1		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: Between Tailrace		
Rig Type: CME							Creek and RR, between gravel road and		
GROUNDWATER OBSERVATIONS							sewer line.		
Water Level					Weather Clear, 80 degrees		LOCATION PLAN		
Date					Date/Time Start 6/27/95 @ 1110		See Site Plan		
Time					Date/Time Finish 6/27/95 @ 1210				
Meas From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0							
0.0	A		75	4	FILL - SAND, SILT, STONE, dark brown-gray, dry.				
				11					
				14					
		2		20					
0.0	B		38	7	fine-med. SAND, little silt, brown, dry.				
				6					
				3					
		4		3					
0.0	C		88	2	4.25-4.75' black stain, cinders				
				2	SILT, some clay, gray, damp				
				1	4.25-4.75' cinders				
		6		4					
0.0	D		100	2	SILT, some fine-med. sand, trace clay and organics, brown, moist to wet				
				2	orange weathering on clay				
				12					
		8		14	8 ft				
0.0	E		25	8	fine SAND, little fine-med. gravel, trace silt, brown, wet				
				4					
				6					
		10		7					
0.0	F		38	5	fine-med. SAND, some fine-med. gravel, gray, wet				
				3					
				1					
		12		6					
0.0	G		75	8			{	ND	4.712
				11					
				12					
		14		10					
0.0	H		88	21			{		
				23	SILT, little clay and fine sand, brown-red, stiff, dilatant, moist		{		
				23					
		16		25					
0.0	I		50	24					
				32					
				40					
		18		44					
					End of Boring @ 18 ft.				
		20							

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS

LAB SAMPLE FROM 12-15' (MGP)

*{ denotes analytical sample interval

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. ES-2S		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Schoonondoa Street) RI/FS		Sheet 1 of 1		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: NW corner of yard west of ES-2		
Rig Type: CME									
GROUNDWATER OBSERVATIONS					Weather Mostly sunny, 75 degrees		LOCATION PLAN See Site Plan		
Water Level					Date/Time Start 6/22/95 @ 1115				
Date					Date/Time Finish 6/22/95 @ 1300				
Time									
Meas From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0		A	SEE ES-2 LOG				
				A					
				A					
		2		A					
				A					
				A					
				A					
				A					
		4		SS					
548	C		37.5	7	FILL-SAND, SILT, STONE, BRICK, GLASS, dry				
				15	wet at 4.5 feet, odor, stain 4.5-10 feet				
				1	PEAT, brown SILT, little fine sand and organics, moist				
		6		2	some black staining, odor				
1340	D		50	1	{		{	789	2,017.47
				2					
				1					
		8		2					
				2					
445	E		62.5	2					
				3					
				2					
		10		2	10 ft				
651	F		87.5	2	fine-med. SAND, little silt, gray, wet		{	169.6	510.2
				2	dark brown free phase 10-11 feet				
				2	PEAT, brown SILT, little fine sand and organics, moist				
		12		2					
				2					
189	G		62.5	2	scattered lenses of gray silt, little clay				
				1					
				1					
		14		2	14 ft				
705	H		WOR	12.5	fine SAND, little shell fragments, loose, brown, wet				
			WOR						
			1						
		16	1						
226	J		62.5	3	fine SAND, some silt, brown, wet				
				2					
				2					
		18		2					
					End of Boring @ 18 ft				
		20							
SAMPLING METHOD					COMMENTS				
SS = SPLIT SPOON					MGP SAMPLES: 6-8 and 10-12 ft				
A = AUGER CUTTINGS					" (" denotes analytical sample interval				
C = CORED									

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO. ES-3S			
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521			
					Sheet 1 of 1 Location Description: Along east fence of yard adjacent to well ES-3			
GROUNDWATER OBSERVATIONS								
Water Level					Weather	Mostly sunny, 65 degrees		
Date					Date/Time Start	6/22/95 @ 0852		
Time					Date/Time Finish	6/22/95 @ 1100		
Meas. From					LOCATION PLAN See Site Plan			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0.0	A		50	5	FILL - SAND, SILT, STONE, BRICK, damp			
				7				
				9				
		2		4				
3.4	B		25	4	dry			
				2				
				2				
		4		4	4.0 ft			
0.0	C		25	6	SILT, little fine sand and fine-med. gravel, brown, damp			
				4				
				2	PEAT - SILT, some organics, little fine sand, black, odor, moist-wet			
		6		2				
2.0	D		37.5	8	wet at 6.75 ft			
				4				
				2				
		8		2				
48.8	E		62.5	4	brown, odor	{ 0.099	1.15	ND
				2	gray clay seam, some silt, 8.75-9.25'			
				1				
		10		1				
93.7	F		12.5	2				
				2				
		12		2				
146	G		87.5	2				
				2	13 ft			
				4	fine-med. SAND, trace-little fine-med. gravel, gray, wet			
		14		5				
38.3	H		50	15	odor, slight sheen 14-17.25 feet	{ 0.006	4.814	ND
				15				
				12				
		16		8				
18.9	I		100	8				
				7	17.25 ft			
				5	fine SAND, little silt, gray, wet			
		18		8				
					End of boring @ 18 ft			
		20						
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS MGP SAMPLE: 8-10 R TCL/TAL SAMPLE: 14-18 R (*) denotes analytical sample interval			

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE		BORING/	
Driller: Joe Ely					DRILLING RECORD		WELL NO. ES-4S	
Inspector: Nick Smith					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 1	
Rig Type: CME					PROJECT NUMBER 726521		Location Description: SE Corner of property, near Sconondoa Street	
GROUNDWATER OBSERVATIONS					Weather Clear, 80 degrees		LOCATION PLAN	
Water Level					Date/Time Start 6/23/95 @ 1218		See Site Plan	
Date					Date/Time Finish 6/23/95 @ 1250		ANALYTICAL RESULTS	
Time					MATERIAL IDENTIFICATION		BTEX (mg/kg)	
Meas. From							PAH (mg/kg)	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count			CYANIDE (mg/kg)	
		0						
0.0	A		50	2	fine SAND, little silt, (topsoil), light brown, dry.			
				2				
				8	FILL - SAND, SILT, STONE, brown-black, dry			
		2		14				
0.0	B		62	8				
				7				
				3	fine-med. SAND, little silt, brown, damp			
		4		3	black stain, strong petroleum type odor between 4.0-7.2 feet			
285	C		50	2				
				2				
				2				
		6		2			0.01	10.12
255	D		62	2	6.5 ft			
				2	SILT and WOOD DEBRIS, black, odor, moist			
				2	CLAY, some silt and organics, gray, damp			
		8		2	8 ft			
169	E		62	2				
				2	fine-med. SAND, some silt, trace clay, brown, odor, wet.			
				2				
		10		2	10 ft			
242	F		12	6	fine-med. SAND, some fine-med. gravel, gray, wet, odor			
				8				
				11				
		12		9				
178	G		62	6	faint sheen 12-15 feet			
				9				
				8			0.002	1.29
		14		7				ND
278	H		75	WOH	fine SAND, little fine gravel and silt, loose, wet			
				1				
				4	fine SAND, some fine-med. gravel, wet, odor.			
		16		1				
4.9	I		100	4	fine-med. SAND, little-some fine-med. gravel, gray, wet, odor			
				2				
				2				
		18		5				
					End of Boring @ 18.0'			
		20						

SAMPLING METHOD

SS = SPLIT SPOON

A = AUGER CUTTINGS

C = CORED

COMMENTS

LAB SAMPLES FROM 4-8' (MGP), 12-18' (MGP)

'(' denotes analytical sample interval

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO. ES-7			
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Soonondoa Street) RI/FS PROJECT NUMBER 726521			
					Sheet 1 of 1 Location Description: West of building at former purifier location			
GROUNDWATER OBSERVATIONS								
Water Level Date Time Meas From					Weather Sunny, 75 degrees Date/Time Start 6/22/95 @ 1420 Date/Time Finish 6/22/95 @ 1615			
					LOCATION PLAN See Site Plan			
					ANALYTICAL RESULTS			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
6.4	A		37.5	15	FILL-SAND, SILT, STONE, brown, dry			
				50/2"				
				A				
		2		A	CONCRETE			
N/A	B			A				
				A				
				A				
		4		SS	4'			
6.9	C		25	1	PEAT-SILT, little fine sand and organics, dark brown, damp			
				1				
				1				
		6		1				
80	D		50	4	black stain 6-9 feet			
				3				
				3				
		8		3	8'			
112	E		62.5	4	fine SAND, some silt, wet, sheen 8-8.25 feet			
				3	PEAT-SILT, little fine sand and organics, brown-black	60.81	569.8	ND
				3	fine SAND, some silt, gray, wet			
		10		2				
34	F		5	1				
				1				
				1				
		12		1				
60.6	G		75	1	fine-med. SAND, little silt, brown, wet			
				1	trace sheen	0.507	39.13	ND
				4	heavy sheen 13-13.25 feet			
		14		5				
8.2	H		87.5	2				
				3				
				2	heavy sheen 15-15.25 feet			
		16		4				
					End of Boring @ 16 ft			
		18						
		20						
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS MGP SAMPLES: 8-10 AND 12-14 FT (*) denotes analytical sample interval			

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. ES-8	
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 1	
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: In parking lot, east of building.	
Rig Type: CME								
GROUNDWATER OBSERVATIONS					Weather Clear, 80 degrees		LOCATION PLAN See Site Plan	
Water Level					Date/Time Start 6/27/95 @ 1410			
Date					Date/Time Finish 6/27/95 @ 1447			
Time								
Meas. From							ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0.0	A		50	5	ASPHALT			
				8	Fill-SAND, SILT, STONE, brown, dry.			
				11	-becomes black w/brick and cinders			
		2		5				
0.0	B		50	4				
				3				
				2				
		4		2	4 ft			
4.5	C		50	2	fine-med. SAND, little silt, brown, moist			
				2				
				2	wet at 5 feet			
		6		2		ND	2.178	ND
28.4	D		62	5				
				3				
				2				
		8		1				
0.0	E		88	2	8.5 ft			
				2	PEAT - SILT, trace organics, dark brown-black, damp			
				3				
		10		3	CLAY, some silt, little organics, gray, moist			
0.0	F		75	2	CLAY, some silt, little fine sand, brown, moist			
				2				
				2	----- transitional contact -----			
		12		2	fine-med. SAND, little silt, brown, wet			
0.0	G		88	4	12.75 ft			
				5	fine-med. SAND, little fine gravel, trace silt, brown-gray, wet			
				5	scattered layers of fine gravel, approx. 1" thick			
		14		7				
0.0	H		50	4	fine-med. SAND, some fine-med. gravel, gray, wet.			
				7				
				7				
		16		3				
0.0	I		100	3				
				7	17.0 ft			
				4	fine-med. SAND, little silt, brown, wet			
		18		3	fine-med. SAND, some fine-med. gravel, gray, wet.			
					End of Boring @ 18'			
		20						
SAMPLING METHOD					COMMENTS			
SS = SPLIT SPOON					Lab samples from 4-8' (TCL/TAL)			
A = AUGER CUTTINGS					(*) denotes analytical sample interval			
C = CORED								

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. ES-10/10S		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 3		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: South of Service Center building in parking area		
Rig Type: CME									
GROUNDWATER OBSERVATIONS					Weather Mostly sunny, 70-80 degrees		LOCATION PLAN See Site Plan		
Water Level					Date/Time Start 6/30/95 @ 1030				
Date					Date/Time Finish 7/5/95 @ 1500				
Time									
Meas From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0			ASPHALT				
0	A			A	FILL-brown sand, silt, gravel, dry				
				A					
		2		A					
0	B			A	dark gray-black				
				A					
		4		8.5	wood fragments, moist				
0	C		50	4					
				8					
				8					
		6		7					
0	D		75	6	6.5 ft				
				4	PEAT-SILT, little fine sand, trace organics, black, damp				
				5					
		8		5			ND	3.856	ND
0	E		75	8	8.5'				
				7	CLAY, little silt, gray, moist				
				6	fine SAND, some silt, brown, wet				
		10		4	coarsening downward				
0	F		50	6					
				5					
				5					
		12		4					
0	G		100	4					
				6					
				8	13.5 ft				
		14		7	fine-med. SAND, little fine-med. gravel, gray, wet				
0	H		50	2					
				2					
				4					
		16		4					
0	I		50	4	trace pebbles				
				5					
				8					
		18		11					
2.2	J		37.5	14	some fine-med. gravel				
				12					
				7	19.5 ft				
		20		3	SILT and fine SAND, little clay partings, brown, wet				
0.4	K		25	1					
SAMPLING METHOD					COMMENTS				
SS = SPLIT SPOON					0-18 ft logged in ES-10S, 18-54 ft from ES-10				
A = AUGER CUTTINGS					MGP IND SAMPLE: 6-10 FT, GRAINSIZE SAMPLE: 30-32 ft				
C = CORED					'(' denotes analytical sample interval				

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. ES-10/10S	
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 2 of 3	
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: South of Service	
Rig Type: CME							Center building in parking area	
GROUNDWATER OBSERVATIONS							LOCATION PLAN	
Water Level					Weather Mostly sunny, 70-80 degrees		See Site Plan	
Date					Date/Time Start 6/30/95 @ 1030			
Time					Date/Time Finish 7/5/95 @ 1500			
Meas From							ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)
		20		3	SILT and fine SAND, little clay partings, brown, wet			
0.4	K		25	1				
				1				
		22		3				
0.0	L		50	3				
				3				
		24		3	24 ft			
0.0	M		50	1	SILT, little-some clay, trace fine sand partings, brown, wet			
				4				
		26		4	26 ft			
0.0	N		50	4	SILT and fine SAND, little clay partings, brown, wet			
				4				
		28		4				
0.0	O		62.5	4	28.75 ft			
				4				
		30		4	fine SAND, little silt, gray, wet			
1.4	P		50	8	CLAY and SILT seam 30.5-30.75 feet			
				12				
		32		15				
0.0	Q		75	6	33 ft			
				4				
		34		8	fine-med. SAND, some fine gravel, gray, wet			
0.0	R		37.5	4				
				7				
		36		9	36 ft			
0.0	S		62.5	26	CLAY, some silt, brown, moist			
				19	fine-med. SAND, some fine gravel, gray, wet			
				21				
		38		22				
0.0	T		75	9	38.5 ft			
				15	fine-med. SAND, little silt, gray, contains brown clay partings, compact, wet			
				20				
		40		21				
0.0	U		50	10				

SAMPLING METHOD	COMMENTS
SS = SPLIT SPOON	0-18 ft logged in ES-10S, 18-54 ft from ES-10
A = AUGER CUTTINGS	MGP IND SAMPLE: 6-10 FT, GRAINSIZE SAMPLE: 30-32 ft
C = CORED	'(' denotes analytical sample interval

13-Feb-98

13 - Feb - 96

PARSONS ENGINEERING SCIENCE					BORING/ WELL NO. ES-12	
DRILLING RECORD						
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521	
					Sheet 1 of 2 Location Description: Northeast of site, north of slope for elevated RR bed.	
GROUNDWATER OBSERVATIONS						
Water Level Date Time Meas From					Weather Clear, 80 degrees Date/Time Start 6/29/95 @ 1317 Date/Time Finish 6/29/95 @ 1405	
					LOCATION PLAN See Site Plan	
					ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg) PAH (mg/kg) CYANIDE (mg/kg)
		0				
0.0	A		50	3	FILL - SILT, SAND, STONE, WOOD, GLASS, brown, dry.	
				5		
				6		
		2		7		
0.0	B		63	7		
				7		
				11		
		4		6		
4.9	C		25	6	becomes brown to black with plastic sheeting, damp.	
				2		
				2		
		6		3		
12.5	D		25	11	wood, (railroad tie fragment), moist	
				6		
				2		
		8		2		
136	E		25	2	contains brick fragments	
				1		
				1		
		10		4		
0.0	F		63	1	10.5 ft	
				1	PEAT - SILT, some clay, little organics, gray, moist	
				2	trace black organic streaks	
		12		2		
0.0	G		50	2	12.5 ft	
				5	fine-med. SAND, some silt, brown, wet	
				4		
		14		7	14 ft	
0.0	H		63	3	fine-med. SAND, some fine-med. gravel, little silt, brown, wet	
				2		
				1		
		16		2		
0.0	I		75	7		
				14		
				14		
		18		15		
0.0	J		63	5	18.25 ft	
				5	fine-med. SAND, some silt, gray, wet	
				7		
		20		21		
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS Lab sample from 20-22 ft (MGP, TOC, and granule) (*) denotes analytical sample interval	

PARSONS ENGINEERING SCIENCE DRILLING RECORD					BORING/ WELL NO. ES-12			
Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521			
					Sheet 2 of 2 Location Description: Northeast of site, north of slope for elevated RR bed.			
GROUNDWATER OBSERVATIONS					LOCATION PLAN See Site Plan			
Water Level _____ Date _____ Time _____ Meas. _____ From _____								
					ANALYTICAL RESULTS			
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		20			fine-med. SAND, some silt, gray, wet sand alternates between fine and fine-med.	ND	0.133	ND
0.0	K		75	14				
				19				
				19				
		22		21	22 ft			
0.0	L		50	12	CLAY, little silt, brown-gray, stiff, damp			
				17				
				19				
		24		24				
					End of Boring @ 24'			
		26						
		28						
		30						
		32						
		34						
		36						
		38						
		40						
SAMPLING METHOD					COMMENTS			
SS = SPLIT SPOON					Lab sample from 20-22 ft (MGP, TOC, and grain size)			
A = AUGER CUTTINGS					*(') denotes analytical sample interval			
C = CORED								

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ WELL NO. ES-13		
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Soonondoa Street) RI/FS		Sheet 1 of 1		
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: North of site and former railroad tracks, west of gravel road		
Rig Type: CME									
GROUNDWATER OBSERVATIONS					Weather SUNNY, 80 degrees		LOCATION PLAN		
Water Level					Date/Time Start 6/29/95 @ 1600		See Site Plan		
Date					Date/Time Finish 6/30/95 @ 0915				
Time									
Meas. From							ANALYTICAL RESULTS		
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0							
0	A		37.5	1	FILL - former railroad bed - dark gray - black fine sand and stone, dry				
				2					
				1					
		2		2					
0	B		50	1	2.25 ft				
				2	fine-med. SAND, brown, dry				
				2					
		4		2					
0	C		62.5	2	4.5 ft				
				2	CLAY, some silt, dark gray with trace orange weathering, damp				
				3					
		6		4					
0	D		50	4	6.5 ft. brown, moist				
				3	fine-med. SAND, some silt, gray, wet				
				3					
		8		3					
0	E		62.5	2	grading to little silt				
				1					
				1					
		10		1					
0	F		75	4	11 ft		ND	ND	ND
				1	fine-med. SAND, some fine-med. gravel, trace silt.				
		12		8	gray, wet				
0	G		62.5	9	13 ft				
				8	CLAY, little silt, brown, stiff, moist				
		14		7					
0	H		50	12	damp				
				15					
				14					
		16		12	End of Boring at 16 ft				
		18							
		20							

SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED		COMMENTS	MGP INDICATOR LAB SAMPLE: B-14 R *(' denotes analytical sample interval
---	--	-----------------	--

Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ P-1 WELL NO.	
					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2	
					PROJECT NUMBER 726521		Location Description: West of Tailrace Creek and west of yard.	
GROUNDWATER OBSERVATIONS								
Water Level _____ Date _____ Time _____ Meas. From _____					Weather Clear, 68 degrees Date/Time Start 6/29/95 @ 0858 Date/Time Finish 6/29/95 @ 0958		LOCATION PLAN See Site Plan	
					MATERIAL IDENTIFICATION		ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count			BTEX (mg/kg)	PAH (mg/kg)
		0						
0.0	A		50	6	FILL - SAND, SILT, STONE, BRICK, brown to black, dry.			
				12				
				15				
		2		8				
0.0	B		25	6				
				9				
				12				
		4		10				
0.0	C		75	20				
				9				
				7				
		6		11				
0.0	D		75	15	7.25 ft			
				10	SILT, little clay, brown, damp			
		8		5				
68	E		13	20	WOOD (root or limb)			
				19	10 ft			
				7				
0.0	F		75	1	PEAT - SILT (organic rich), little fine-coarse sand, dark brown, moist.			
				2				
				2				
		12		2	little fine-med. sand, gray, moist			
0.0	G		90	3	little fine-coarse sand, trace clay and woody material, brown-gray, loose			
				2	moist to wet			
				2				
		14		2				
0.0	H		5	1	16 ft			
				1				
				1				
		16		1	SILT, some fine-coarse sand, trace clay, gray, wet			
0.0	I		100	1				
				1				
				1				
		18		1				
4.5	J		70	2	SILT, some fine-coarse sand, trace-little clay, brown, wet			
				1				
				2				
		20		1				
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS no analytical samples collected _____ _____ _____			

Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PARSONS ENGINEERING SCIENCE		BORING/ P-1		
					DRILLING RECORD		WELL NO.		
					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 2 of 2		
					PROJECT NUMBER 726521		Location Description: West of Tailrace Creek and west of yard.		
GROUNDWATER OBSERVATIONS					Weather Clear, 68 degrees Date/Time Start 6/29/95 @ 0858 Date/Time Finish 6/29/95 @ 0958		LOCATION PLAN See Site Plan		
Water Level _____ Date _____ Time _____ Meas From _____									
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION		BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		20		A	SILT, some fine-coarse sand, trace-little clay, brown, wet				
				A					
		22			End of Boring @ 21'				
		24							
		26							
		28							
		30							
		32							
		34							
		36							
		38							
		40							
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS no analytical samples collected _____ _____ _____				

Contractor: North Star Drilling					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ P-2 WELL NO.	
Driller: Joe Ely					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS		Sheet 1 of 2	
Inspector: Nick Smith					PROJECT NUMBER 726521		Location Description: East of Eastern	
Rig Type: CME							Tributary on Grass/Waters property	
GROUNDWATER OBSERVATIONS					Weather Partly sunny, 76 degrees		LOCATION PLAN	
Water Level					Date/Time Start 5/26/95 @ 1118		See Site Plan	
Date					Date/Time Finish 6/28/95 @ 1250			
Time								
Meas. From							ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0.0	A		38	3	FILL - SAND and STONE, dark gray to black, dry possible railroad bed material			
				2				
				1				
		2		1				
0.0	B		50	1				
				1				
				1				
		4		1	4 ft			
0.0	C		50	3	CLAY, little-some silt, brown-gray, black specks and orange weathering, dry damp at 4.5 feet			
				5				
				5				
		6		4	6 ft			
0.0	D		25	4	fine-med. SAND, some fine-med. gravel, little silt, gray, wet			
				5				
				6				
		8		5				
0.0	E		75	5				
				7				
				6				
		10		5				
0.0	F		62	5				
				5				
				6				
		12		4				
0.0	G		100	4				
				4	13.25 ft			
				2	fine SAND, little-some silt, gray, wet			
		14		3				
0.0	H		75	3				
				3	15 ft			
				2	CLAY, some silt, brown, soft, wet			
		16		1	16 ft			
0.0	I		63	2	fine SAND, some silt, trace clay, gray, wet			
				3				
				2				
		18		2				
0.0	J		100	WOR				
				WOR				
				2				
		20		3				
0.0	K		88	3				
SAMPLING METHOD					COMMENTS			
SS = SPLIT SPOON					no analytical samples collected			
A = AUGER CUTTINGS								
C = CORED								

13-Feb-98

13-Feb-96

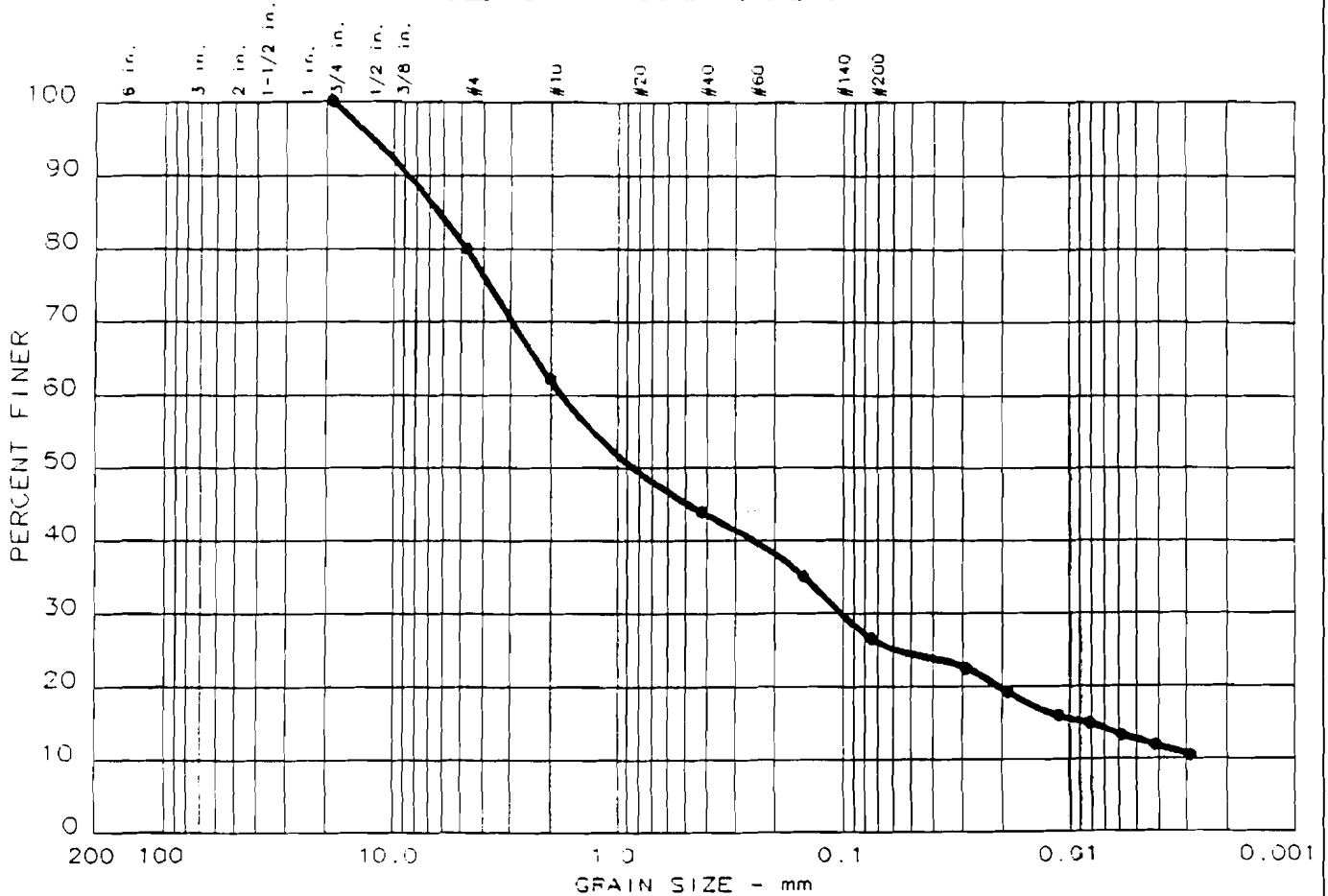
13-Feb-98

Contractor: North Star Drilling Driller: Joe Ely Inspector: Nick Smith Rig Type: CME					PARSONS ENGINEERING SCIENCE DRILLING RECORD		BORING/ P-4 WELL NO.	
					PROJECT NAME NMPC Oneida (Sconondoa Street) RI/FS PROJECT NUMBER 726521		Sheet 1 of 1 Location Description: Northeast of DPW stockpiles and northwest of softball field in park	
GROUNDWATER OBSERVATIONS Water Level Date Time Meas From					Weather Sunny, 94 degrees Date/Time Start 6/26/95 @ 1325 Date/Time Finish 6/26/95 @ 1430		LOCATION PLAN See Site Plan	
							ANALYTICAL RESULTS	
PID/FID Reading	Sample I.D.	Sample Depth	Percent Recovery	Blow Count	MATERIAL IDENTIFICATION	BTEX (mg/kg)	PAH (mg/kg)	CYANIDE (mg/kg)
		0						
0	A		50	4	SILT, little fine sand, brown, dry			
				2				
				4				
		2		6				
0	B		62.5	2	2.5 ft			
				3	SILT little clay, brown, damp			
				3				
		4		4	4 ft			
0	C		75	2	CLAY, some silt, brown, damp			
				4				
				3				
		6		2	6 ft			
0	D		62.5	3	fine SAND, some silt, brown, wet			
				2	6.75'			
				2	fine-med. SAND, little silt, gray, wet			
		8		1				
0	E		75	2	trace crushed shell fragments and wood			
				2				
				1				
		10		3	10 ft			
0	F		12.5	6	fine SAND and medium GRAVEL, wet			
				7				
				9				
		12		4	12 ft			
0	G		50	6	fine SAND, some silt, gray, wet			
				3				
				3				
		14		4				
					End of Boring @ 14 ft			
		16						
		18						
		20						
SAMPLING METHOD SS = SPLIT SPOON A = AUGER CUTTINGS C = CORED					COMMENTS no analytical samples collected			

APPENDIX D

GEOTECHNICAL DATA

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	20.0	53.5	13.9	12.6	SM		

SIEVE inches size	PERCENT FINER	
0.75	100.0	
GRAIN SIZE		
D ₆₀	1.78	
D ₃₀	0.10	
D ₁₀		
COEFFICIENTS		
C _u		
C _c		

SIEVE number size	PERCENT FINER	
4	80.0	
10	62.1	
40	43.9	
100	35.0	
200	25.5	

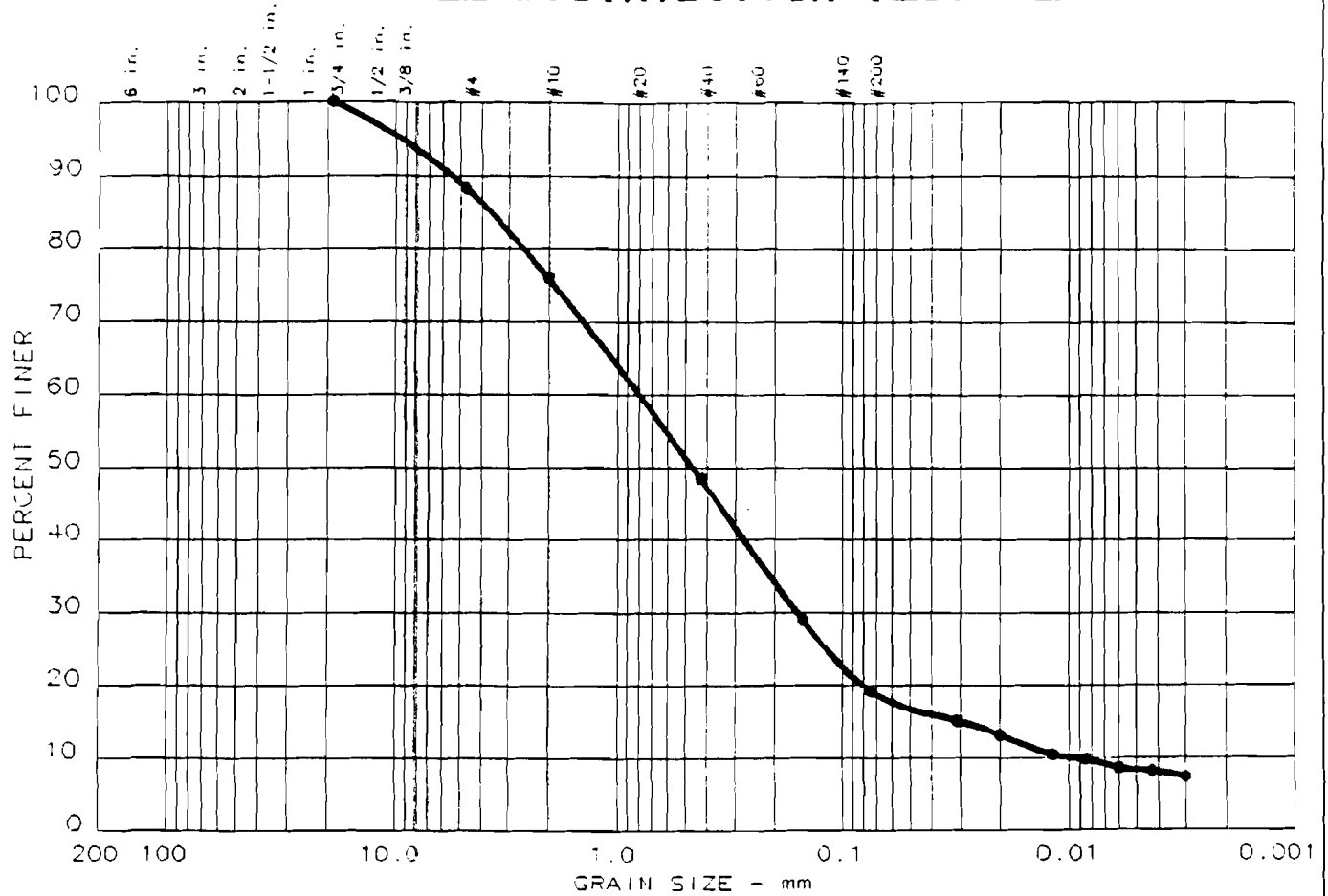
Sample information:
 • B-1R, 6 - 10 feet
 Silty sand, some gravel

Remarks:
 Water Content: 36.0 %

**HUNTINGDON
 ENGINEERING &
 ENVIRONMENTAL, INC.**

Project No. GT-94-121
 Project: NMPC Open to Service Center
 Date: August 31, 1995 Data Sheet No. 1

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	11.7	69.1	10.9	8.3	SM		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
GRAIN SIZE			
D ₆₀	0.79		
D ₃₀	0.16		
D ₁₀	0.00		
COEFFICIENTS			
C _u	3.43		
C _c	84.1		

SIEVE number size	PERCENT FINER		
4	88.3		
10	75.9		
40	48.4		
100	29.0		
200	13.7		

Sample information:
 • B-6R, 10 - 14 feet
 Silty sand, little
 gravel

Remarks:
 Water Content: 13.7 %

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 ENVIRONMENTAL, INC.**

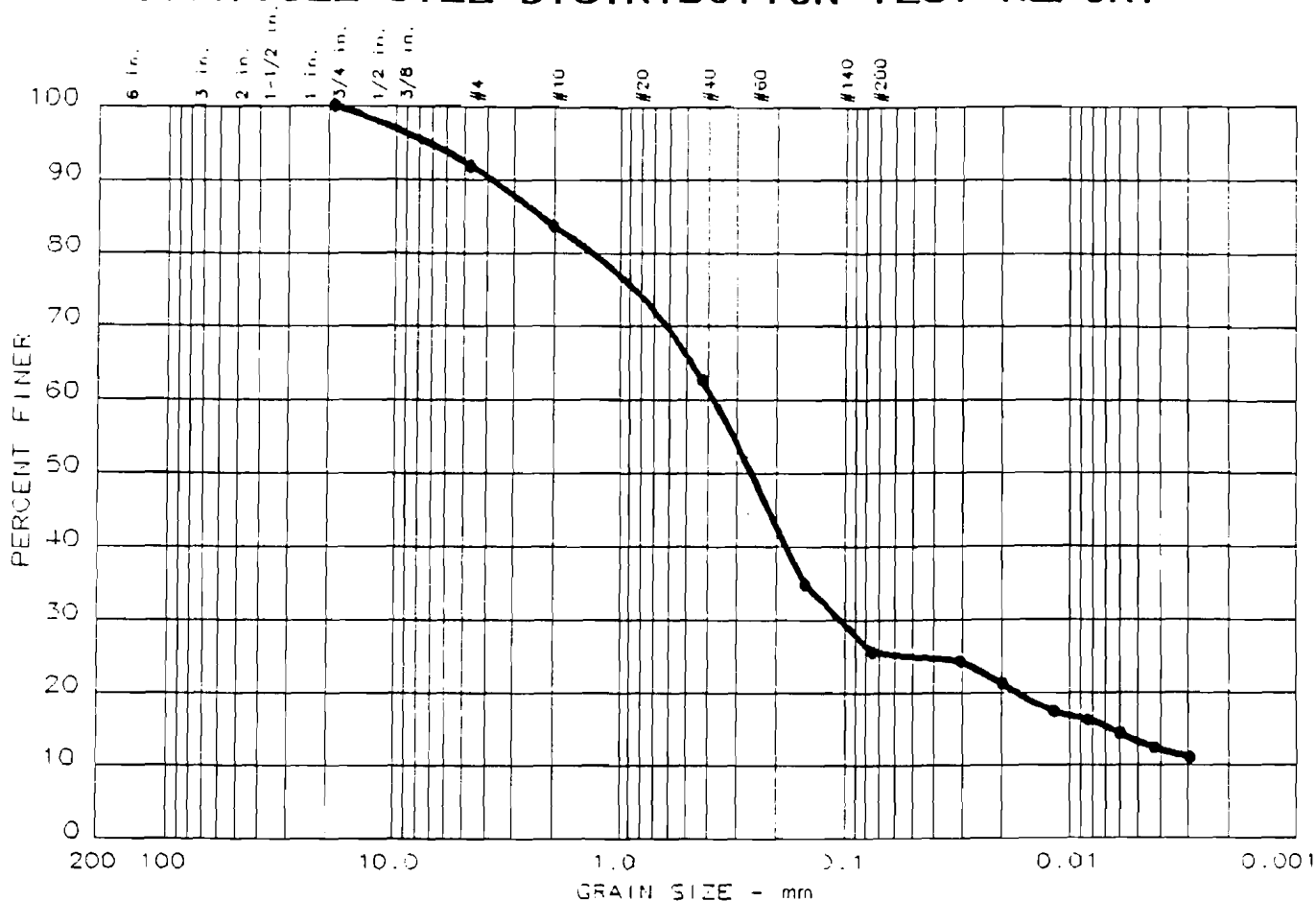
Project No.: GT-94-121

Project: NMPC Oneida Service Center

Date: August 31, 1995

Data Sheet No. 2

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	8.1	66.4	12.3	13.2	SM		

SIEVE Inches size	PERCENT FINER		
0.75	100.0		
GRAIN SIZE			
D ₆₀	0.38		
D ₃₀	0.10		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
4	91.9		
10	83.7		
40	62.6		
100	34.9		
200	25.5		

Sample information:
 • B-15R, 8 - 14 feet
 Silty sand, trace
 gravel

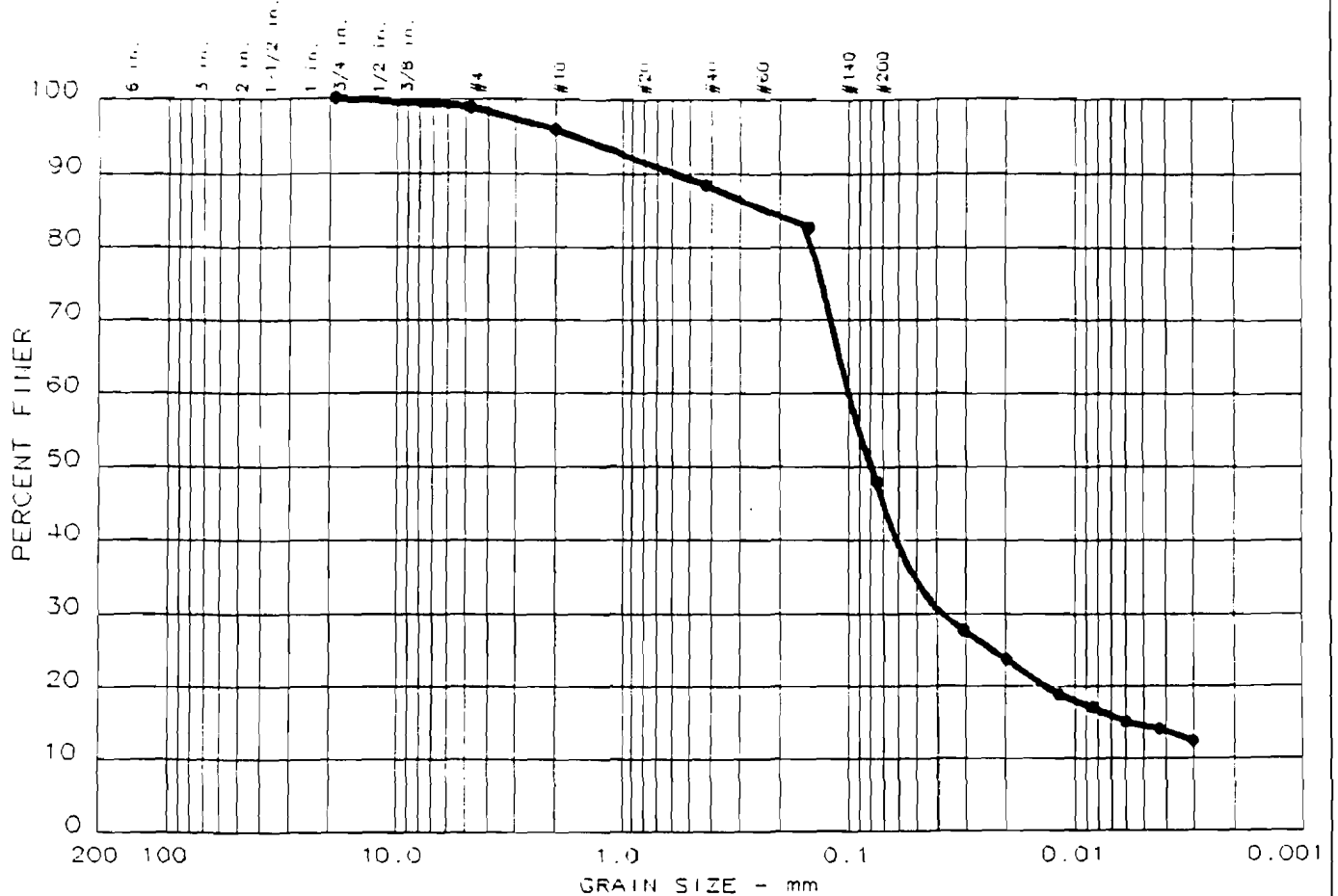
Remarks:
 Water Content, 29.4 %

**HUNTINGDON
 ENGINEERING &
 ENVIRONMENTAL, INC.**

Project No. 97-04-121
 Project Name: NMP1 Overpass Service Center

Date: August 31, 1995 Data Sheet No. 3

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	1.1	51.0	33.4	14.5	SM		

SIEVE inches size	PERCENT FINER		
0.75	100.0		
GRAIN SIZE			
D ₆₀	0.10		
D ₃₀	0.04		
D ₁₀			
COEFFICIENTS			
C _u			
C _c			

SIEVE number size	PERCENT FINER		
4	98.9		
10	96.0		
40	88.4		
100	82.6		
200	71.9		

Sample information:
 • ES-10, 30 - 32 feet
 Silty sand, little clay
 trace fine gravel

Remarks:
 Water Content, 17.5 %

**HUNTINGDON
 ENGINEERING &
 ENVIRONMENTAL, INC.**

Project No.: ST-94-121

Project: NMPD One-to-Service Center

Date: August 31, 1996

Data Sheet No. 4

3 in.
2 in.
1-1/2 in.
1 in.
3/4 in.
1/2 in.
3/8 in.



•

SIEVE
inches
size

SIEVE
number
size

- ES-11, 14 - 16 feet
Silty Clay, some sand

Remarks:
Water Content. 16.0 %

ENVIRONMENTAL, INC.

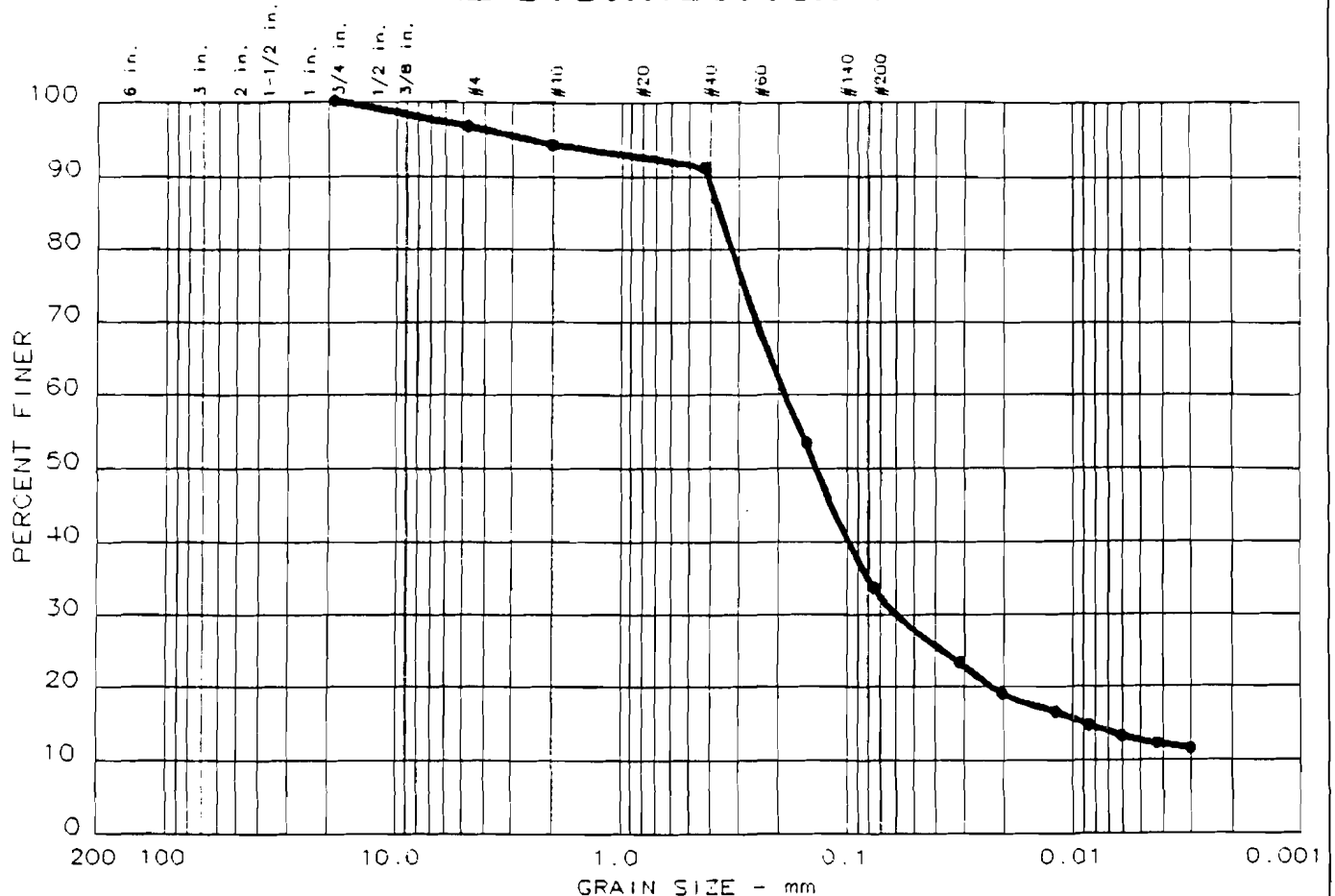
Proc. # 10. GT-94-121

Project: NUPCO One-Stop Service Center

Date: August 31, 1945

Data Sheet No. 5

PARTICLE SIZE DISTRIBUTION TEST REPORT



% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
0.0	3.2	63.1	21.0	12.7	SM		

SIEVE inches size	PERCENT FINER
0.75	100.0
GRAIN SIZE	
D ₆₀	0.19
D ₃₀	0.06
D ₁₀	
COEFFICIENTS	
C _c	
C _u	

SIEVE number size	PERCENT FINER
4	96.3
10	94.4
40	91.3
100	53.4
200	33.7

Sample information:
 • ES-12, 20 - 22 feet
 Silty Sand, little clay
 trace fine gravel

Remarks:
 Water Content: 15.3 %

APPENDIX E

WELL CONSTRUCTION AND DEVELOPMENT LOGS

PARSONS ENGINEERING SCIENCE, INC.

PARESSYR01\VOL1:WP726521.03\26521R14.WW6
April 10, 1997/1:55 PM

NMPC ONEIDA
WELL CONSTRUCTION DIAGRAMS

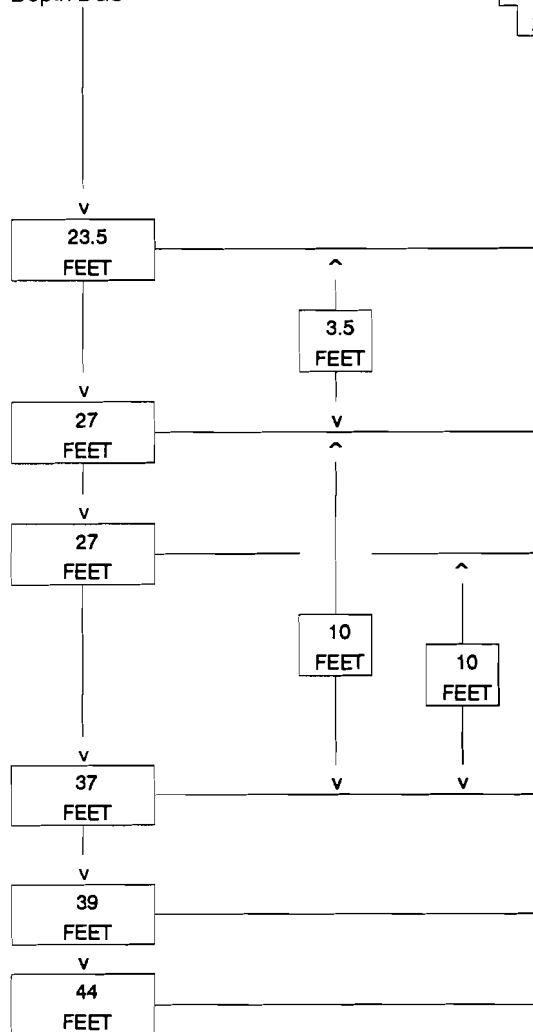
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-1	FACILITY/SITE NAME:	ONEIDA, NY, SCONODOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	J.S. POULSEN	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	08/05/93	DATE END:	08/06/93
		WELL COORDINATES:	

Elevation: FEET
 Height: FEET
 Elevation: 425.06 FEET
 Height: 2.16 FEET

GS Elevation:
 Depth BGS

422.9 FEET



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 188 LBS
 Amt bentonite: 12 LBS
 Amt water: 30 GALLONS
 Tremied: YES
 Interval: 0 TO 23.5 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 200 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 27 TO 37 FEET BGS

SUMP

Interval BGS: 37 TO 39 FEET BGS
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

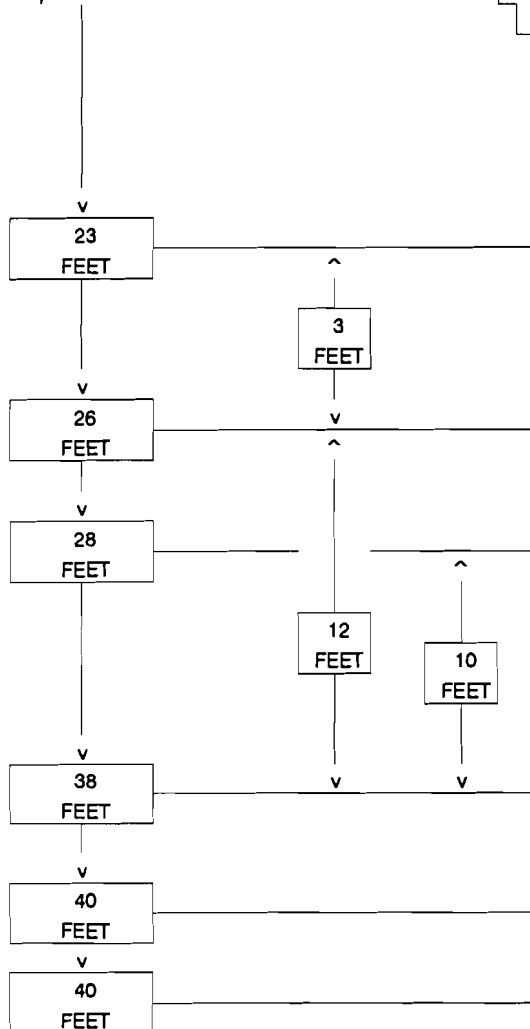
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-2	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	J.S. POULSEN	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	08/04/95	DATE END:	08/04/95
		WELL COORDINATES:	

Elevation: FEET
 Height: FEET
 Elevation: 422.6 FEET
 Height: 2.58 FEET

GS Elevation:
 Depth BGS

420.02 FEET



Borehole Diameter
 <-- 8 -->
 IN

PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 188 LBS
 Amt bentonite: 12 LBS
 Amt water: 25 GALLONS
 Tremied: YES
 Interval: 0 TO 23 FEET BGS

SEAL

Material: 25 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 200 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 28 TO 38 FEET BGS

SUMP

Interval BGS: 38 TO 40 FEET BGS
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

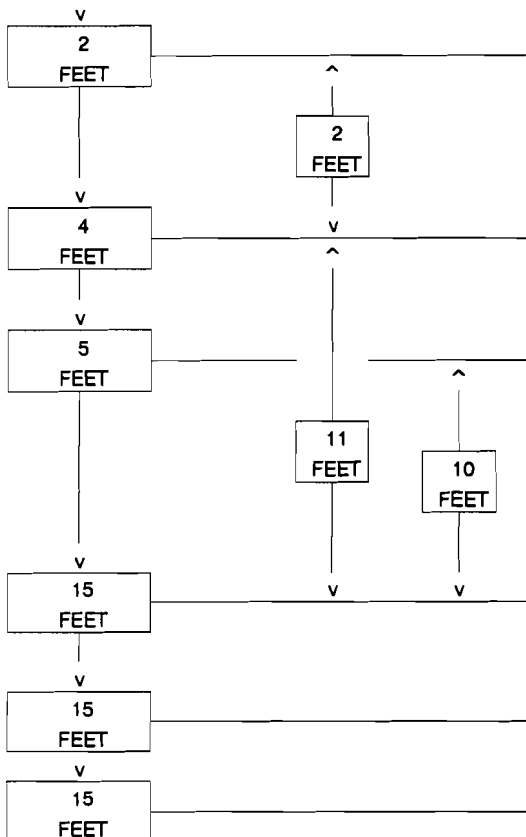
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-2S
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/22/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/22/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET
 Elevation: 422.2 FEET
 Height: 2.22 FEET

GS Elevation: 419.98 FEET
 Depth BGS



Borehole Diameter
 <-- 8 -->
 IN

PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 165 LBS
 Amt bentonite: 15 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 275 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

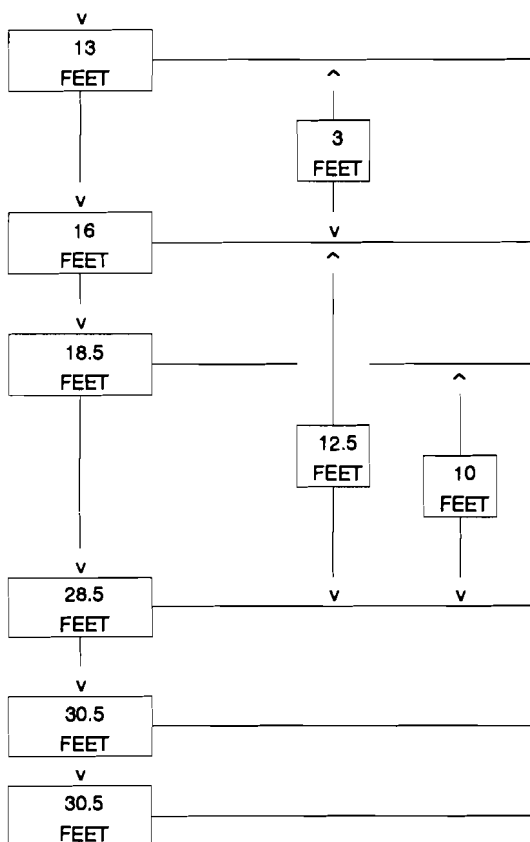
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-3	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	J.S. POULSEN	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	08/05/93	DATE END:	08/05/93
		WELL COORDINATES:	

Elevation: FEET
Height: FEET

Elevation: 424.01 FEET
Height: 2.87 FEET

GS Elevation: 421.14 FEET
Depth BGS



PROTECTIVE CASING

Material: STEEL
Diameter: FOUR INCHES
Depth BGS: TWO FEET
Water Tight Seal Type: PORTLAND CEMENT
Flushmount: NO
Weep hole: YES

GUARD POSTS

Material: N/A
No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
Schedule: SCH 40
Joint Type: THREADED
O-ring: RUBBER
Diameter: 2 INCHES

GROUT

Amt cement: 75 LBS
Amt bentonite: 12 LBS
Amt water: 15 GALLONS
Tremied: YES
Interval: 0 TO 13 FEET BGS

SEAL

Material: 25 LBS BENTONITE
Brand Name: 1/4" PELLETS
Setup/Hydration Time: 30 MINUTES
Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
Brand Name: MORIE
Amount Used: 100 LBS
Grain Size Dist.: #N00 SAND
Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
Diameter: 2 INCHES
Slot Size & Type: 0.01 INCHES
Interval BGS: 18.5 TO 28.5 FEET BGS

SUMP

Interval BGS: 28.5 TO 30.5 FEET BGS
Bottom Cap: YES

BACKFILL PLUG

Material: N/A
Setup/Hydration Time: N/A

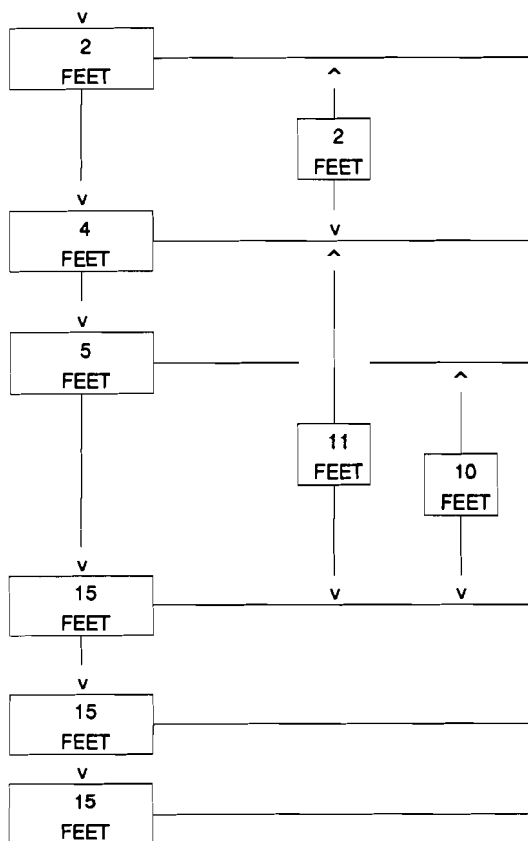
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-3S
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/22/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/22/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET
 Elevation: 423.33 FEET
 Height: 2.3 FEET

GS Elevation: 421.03 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 140 LBS
 Amt bentonite: 12 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 200 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

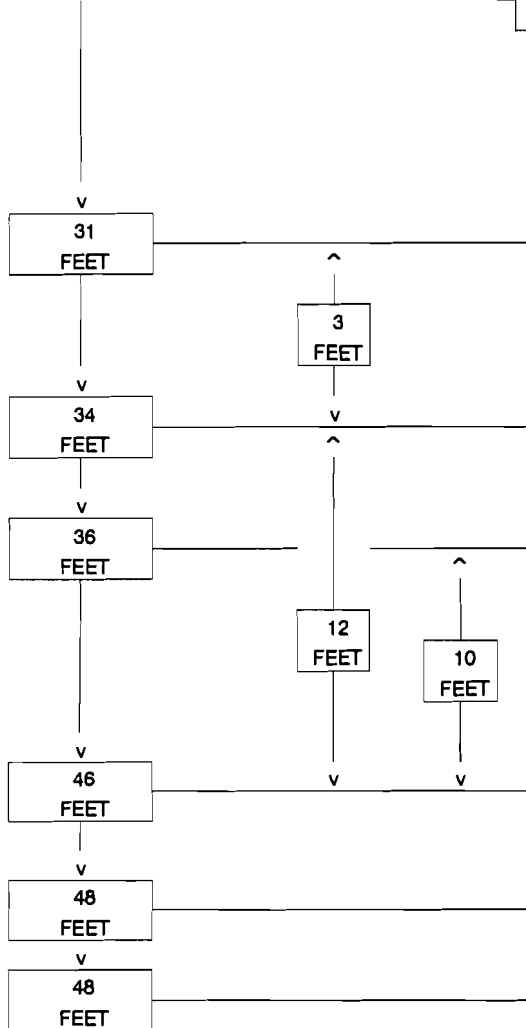
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-4	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	J.S. POULSEN	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	08/05/93	DATE END:	08/05/93
		WELL COORDINATES:	

Elevation: _____ FEET
Height: _____ FEET

Elevation: 423.78 FEET
Height: 2.48 FEET

GS Elevation: 421.3 FEET
Depth BGS



PROTECTIVE CASING

Material: STEEL
Diameter: FOUR INCHES
Depth BGS: TWO FEET
Water Tight Seal Type: PORTLAND CEMENT
Flushmount: NO
Weep hole: YES

GUARD POSTS

Material: N/A
No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
Schedule: SCH 40
Joint Type: THREADED
O-ring: RUBBER
Diameter: 2 INCHES

GROUT

Amt cement: LBS
Amt bentonite: LBS
Amt water: GALLONS
Tremied: YES
Interval: 0 TO 31 FEET BGS

SEAL

Material: LBS BENTONITE
Brand Name:
Setup/Hydration Time:
Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
Brand Name: MORIE
Amount Used: LBS
Grain Size Dist.: #N00 SAND
Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
Diameter: 2 INCHES
Slot Size & Type: 0.01 INCHES
Interval BGS: 36 TO 46 FEET BGS

SUMP

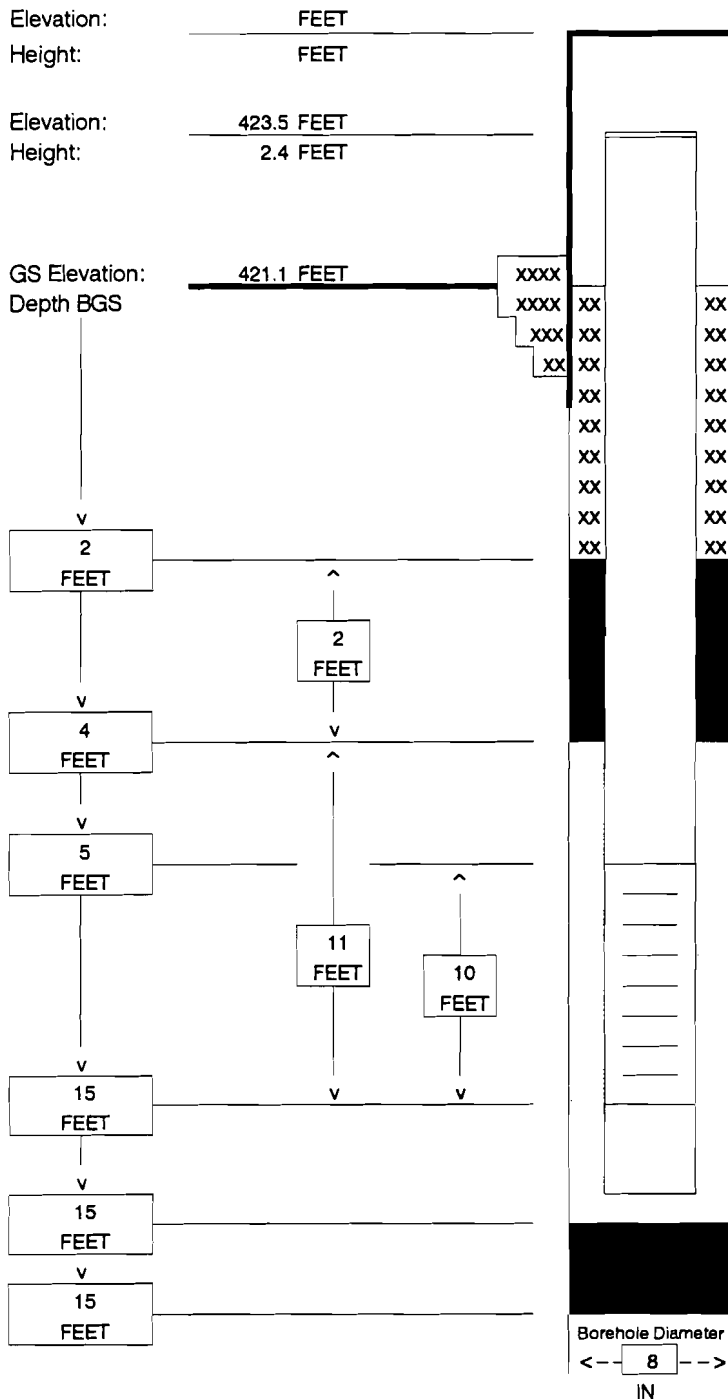
Interval BGS: 46 TO 48 FEET BGS
Bottom Cap: YES

BACKFILL PLUG

Material: N/A
Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-4S	FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE	
PROJ. NO.: 726521	CLIENT: NIAGARA MOHAWK POWER CORPORATION	
INSPECTOR: N.A. SMITH	DRILLING CONTACTOR: NORTHSTAR DRILLING	
DATE START: 06/23/95	DATE END: 06/23/95	
	WELL COORDINATES:	



PROTECTIVE CASING	
Material:	STEEL
Diameter:	FOUR INCHES
Depth BGS:	TWO FEET
Water Tight Seal Type:	PORTLAND CEMENT
Flushmount:	NO
Weep hole:	YES
GUARD POSTS	
Material:	N/A
No. & Size:	N/A
SURFACE PAD	
Composition:	PORTLAND CEMENT
Size:	1.5 FEET DIAMETER
RISER PIPE	
Material:	PVC
Schedule:	SCH 40
Joint Type:	THREADED
O-ring:	RUBBER
Diameter:	2 INCHES
GROUT	
Amt cement:	140 LBS
Amt bentonite:	12 LBS
Amt water:	15 GALLONS
Tremied:	YES
Interval:	0 TO 2 FEET BGS
SEAL	
Material:	50 LBS BENTONITE
Brand Name:	1/4" PELLETS
Setup/Hydration Time:	30 MINUTES
Vol. Fluid Added:	1 GALLON
FILTER PACK	
Material:	SILICA SAND
Brand Name:	MORIE
Amount Used:	250 LBS
Grain Size Dist.:	#N00 SAND
Tremied:	NO
SCREEN	
Material:	SLOTTED SCH 40 PVC
Diameter:	2 INCHES
Slot Size & Type:	0.01 INCHES
Interval BGS:	5 TO 15 FEET BGS
SUMP	
Interval BGS:	N/A
Bottom Cap:	YES
BACKFILL PLUG	
Material:	N/A
Setup/Hydration Time:	N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-5	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	J.S. POULSEN	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	09/20/93	DATE END:	09/21/93
		WELL COORDINATES:	

Elevation: FEET
Height: FEET

Elevation: 418.07 FEET
Height: 2.51 FEET

GS Elevation: 415.56 FEET
Depth BGS

2 FEET

4 FEET

5 FEET

15 FEET

17 FEET

17 FEET

2 FEET

11 FEET

10 FEET

Borehole Diameter
8 IN

PROTECTIVE CASING

Material: STEEL
Diameter: FOUR INCHES
Depth BGS: TWO FEET
Water Tight Seal Type: PORTLAND CEMENT
Flushmount: NO
Weep hole: YES

GUARD POSTS

Material: N/A
No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
Schedule: SCH 40
Joint Type: THREADED
O-ring: RUBBER
Diameter: 2 INCHES

GROUT

Amt cement: LBS
Amt bentonite: LBS
Amt water: GALLONS
Tremied: YES
Interval: 0 TO 2 FEET BGS

SEAL

Material: LBS BENTONITE
Brand Name: 1/4" PELLETS
Setup/Hydration Time:
Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
Brand Name: MORIE
Amount Used: LBS
Grain Size Dist.:
Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
Diameter: 2 INCHES
Slot Size & Type: 0.02 INCHES
Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: 15 TO 17 FEET BGS
Bottom Cap: YES

BACKFILL PLUG

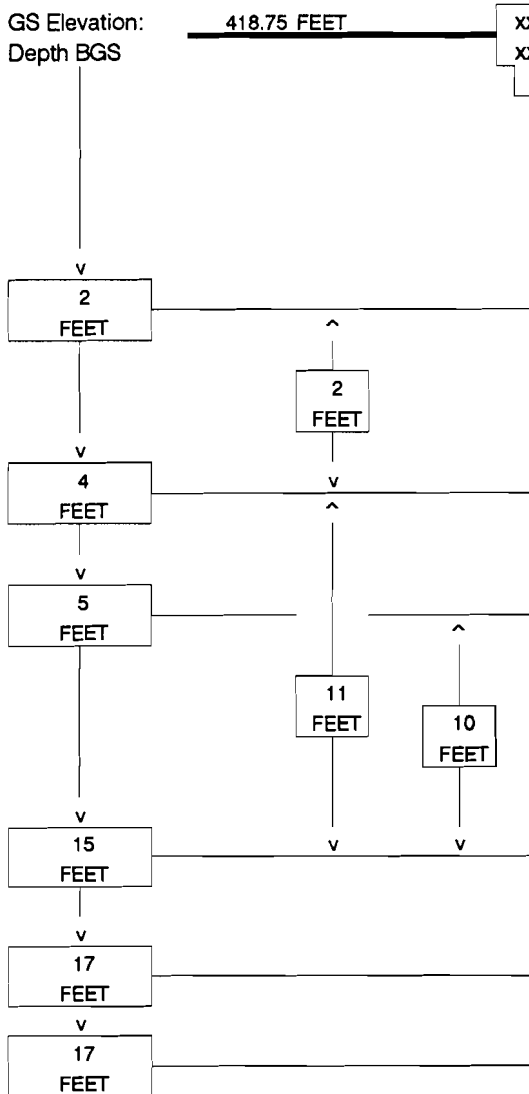
Material: N/A
Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-6	FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.: 726521	CLIENT: NIAGARA MOHAWK POWER CORPORATION
INSPECTOR: J.S. POULSEN	DRILLING CONTACTOR: NORTHSTAR DRILLING
DATE START: 09/21/93	DATE END: 09/21/93
WELL COORDINATES:	

Elevation: _____ FEET
 Height: _____ FEET

Elevation: 421.6 FEET
 Height: 2.85 FEET



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: LBS
 Amt bentonite: LBS
 Amt water: GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time:
 Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: LBS
 Grain Size Dist.:
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.02 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: 15 TO 17 FEET BGS
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

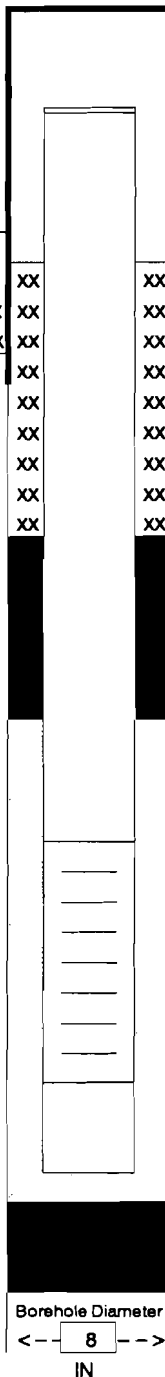
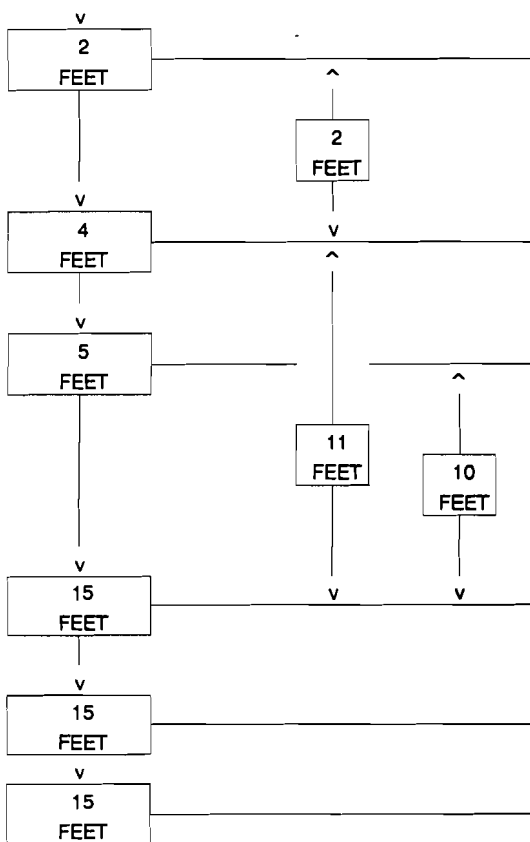
WELL NO.: ES-7
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/22/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/22/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET

Elevation: 421.62 FEET
 Height: -0.26 FEET

GS Elevation: 421.88 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: ONE FOOT
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: YES
 Weep hole: NO

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: CONCRETE
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 140 LBS
 Amt bentonite: 12 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 200 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

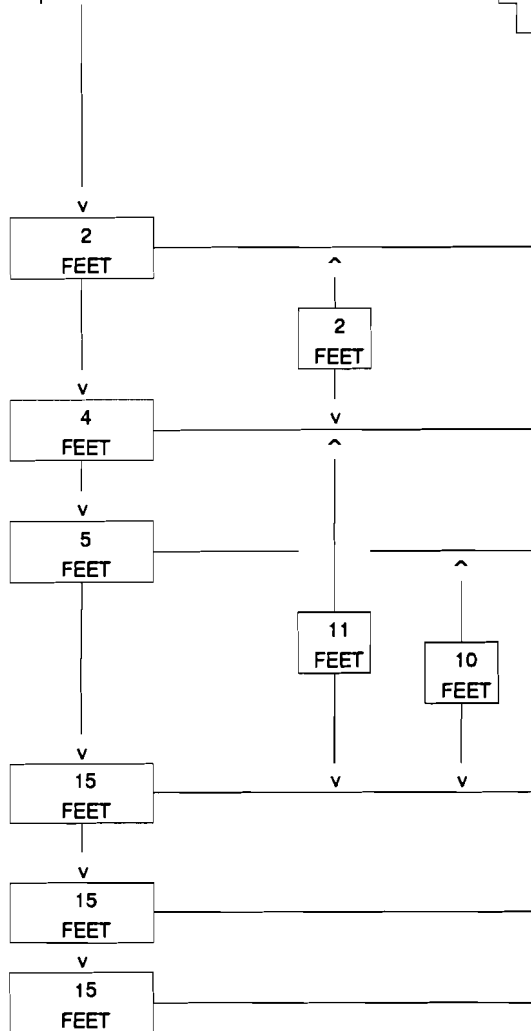
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-8	FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE	
PROJ. NO.: 726521	CLIENT: NIAGARA MOHAWK POWER CORPORATION	
INSPECTOR: N.A. SMITH	DRILLING CONTACTOR: NORTHSTAR DRILLING	
DATE START: 06/27/95	DATE END: 06/27/95	
	WELL COORDINATES:	

Elevation: _____ FEET
 Height: _____ FEET

Elevation: 421.93 FEET
 Height: -0.45 FEET

GS Elevation: 422.38 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: ONE FOOT
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: YES
 Weep hole: NO

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: CONCRETE
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 140 LBS
 Amt bentonite: 12 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 225 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

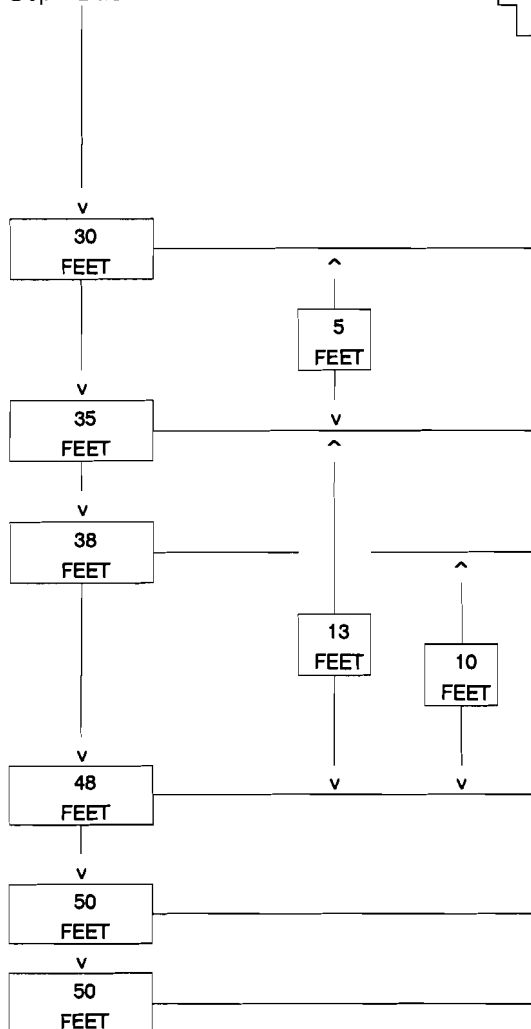
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.:	ES-10	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	N.A. SMITH	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	07/05/95	DATE END:	07/05/95
		WELL COORDINATES:	

Elevation: _____ FEET
Height: _____ FEET

Elevation: 421.71 FEET
Height: -0.64 FEET

GS Elevation: 422.35 FEET
Depth BGS



PROTECTIVE CASING

Material: STEEL
Diameter: FOUR INCHES
Depth BGS: ONE FOOT
Water Tight Seal Type: CONCRETE
Flushmount: YES
Weep hole: NO

GUARD POSTS

Material: N/A
No. & Size: N/A

SURFACE PAD

Composition: CONCRETE
Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
Schedule: SCH 40
Joint Type: THREADED
O-ring: RUBBER
Diameter: 2 INCHES

GROUT

Amt cement: 282 LBS
Amt bentonite: 25 LBS
Amt water: 30 GALLONS
Tremied: YES
Interval: 1 TO 30 FEET BGS

SEAL

Material: 50 LBS BENTONITE
Brand Name: CETCO PUREGOLD
Setup/Hydration Time: 30 MINUTES
Vol. Fluid Added:

FILTER PACK

Material: SILICA SAND
Brand Name: MORIE
Amount Used: 200 LBS
Grain Size Dist.: #N00 SAND
Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
Diameter: 2 INCHES
Slot Size & Type: 0.01 INCHES
Interval BGS: 35 TO 50 FEET BGS

SUMP

Interval BGS: 48 TO 50 FEET BGS
Bottom Cap: YES

BACKFILL PLUG

Material: N/A
Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-10S
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/30/95

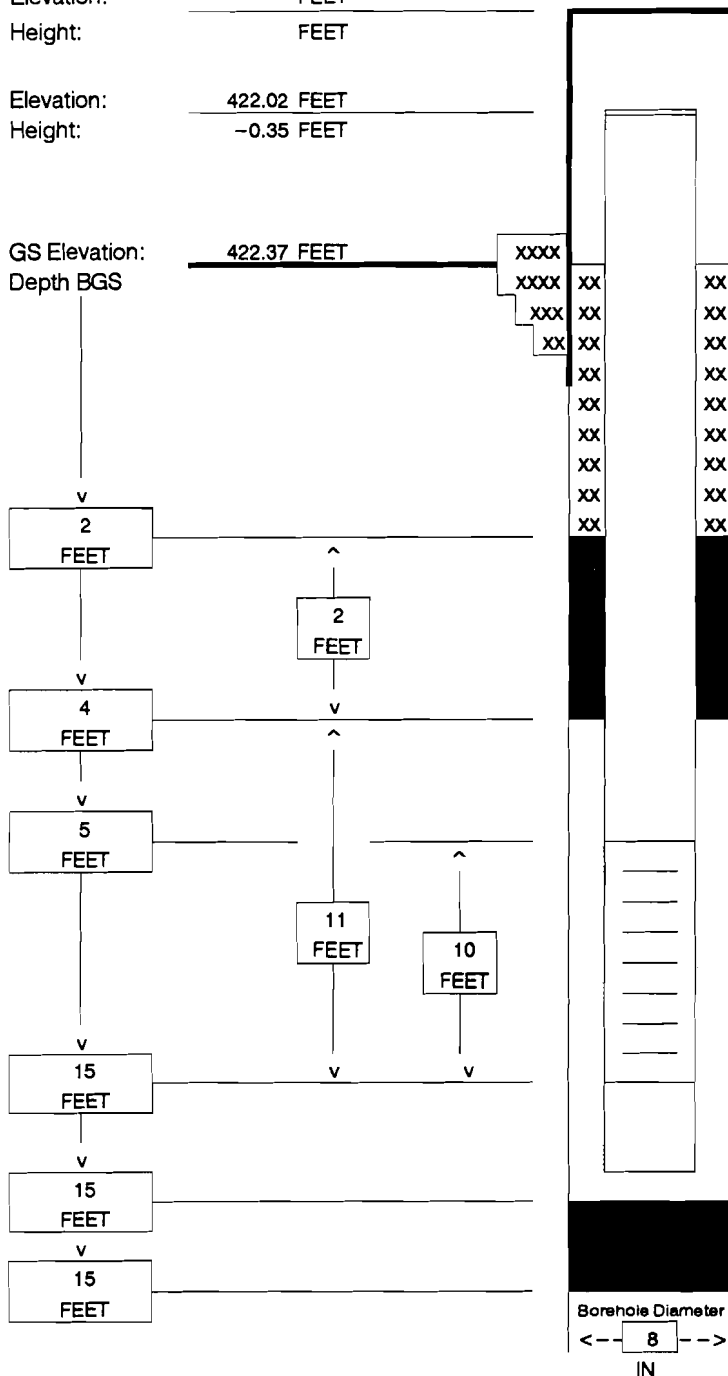
FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/30/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET

 Elevation: 422.02 FEET
 Height: -0.35 FEET

GS Elevation:
 Depth BGS

422.37 FEET



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: CONCRETE
 Flushmount: YES
 Weep hole: NO

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: CONCRETE
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 186 LBS
 Amt bentonite: 15 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 1 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 225 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

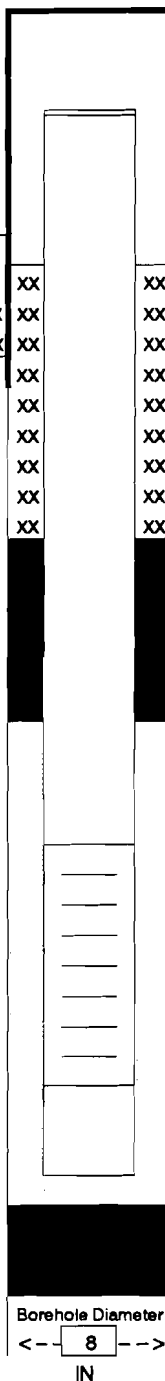
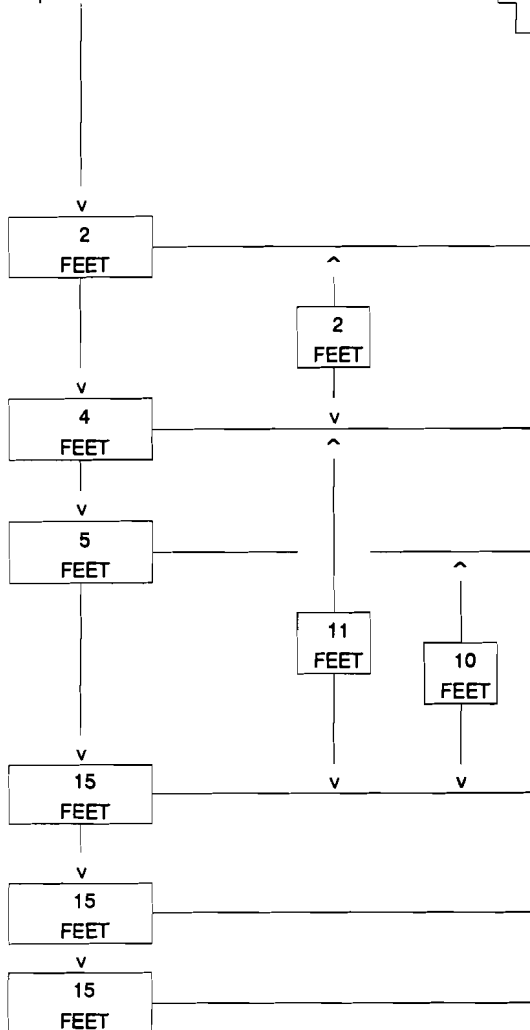
WELL NO.: ES-11
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/28/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/28/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET
 Elevation: 417.16 FEET
 Height: 2.34 FEET

GS Elevation:
 Depth BGS

414.82 FEET



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 188 LBS
 Amt bentonite: 15 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 75 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 250 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

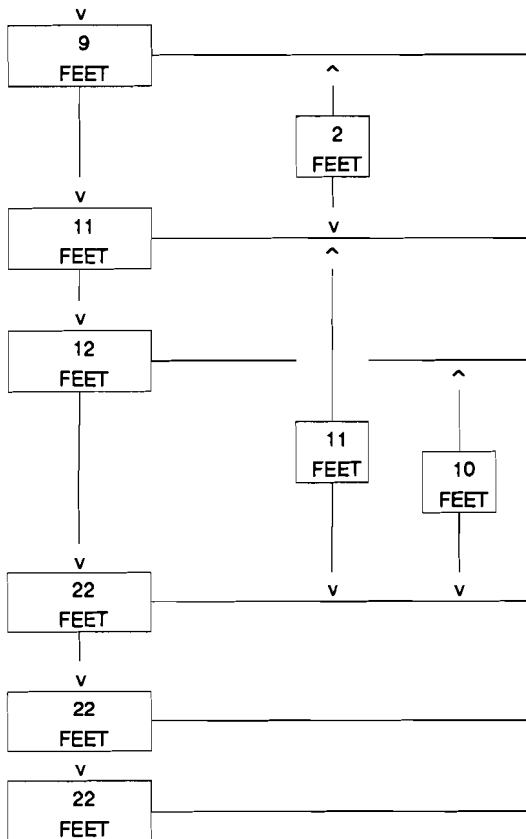
SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-12
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/29/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/29/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET
 Elevation: 430.62 FEET
 Height: 2.27 FEET

GS Elevation: 428.35 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 188 LBS
 Amt bentonite: 15 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 9 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 225 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 12 TO 22 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

SINGLE CASED MONITORING WELL CONSTRUCTION LOG

WELL NO.: ES-13
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/29/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/30/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET
 Elevation: 420.98 FEET
 Height: 2.53 FEET

GS Elevation:
 Depth BGS

418.45 FEET

2
 FEET

4
 FEET

5
 FEET

15
 FEET

15
 FEET

15
 FEET

2
 FEET

11
 FEET

11
 FEET



Borehole Diameter
 8
 IN

PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 2 INCHES

GROUT

Amt cement: 186 LBS
 Amt bentonite: 25 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 200 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 2 INCHES
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

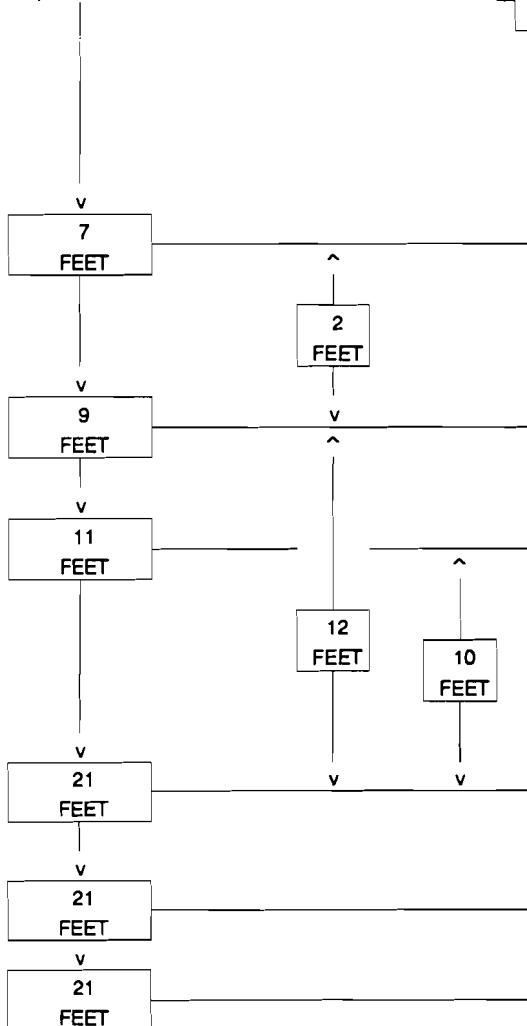
SINGLE CASED PIEZOMETER CONSTRUCTION LOG

WELL NO.:	P-1	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	E.A. FELTER	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	06/29/95	DATE END:	06/29/95
		WELL COORDINATES:	

Elevation: _____ FEET
Height: _____ FEET

Elevation: 425.35 FEET
Height: 2.48 FEET

GS Elevation: 422.87 FEET
Depth BGS



PROTECTIVE CASING

Material: STEEL
Diameter: FOUR INCHES
Depth BGS: TWO FEET
Water Tight Seal Type: PORTLAND CEMENT
Flushmount: NO
Weep hole: YES

GUARD POSTS

Material: N/A
No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
Schedule: SCH 40
Joint Type: THREADED
O-ring: RUBBER
Diameter: 1 INCH

GROUT

Amt cement: 188 LBS
Amt bentonite: 12 LBS
Amt water: 15 GALLONS
Tremied: YES
Interval: 0 TO 7 FEET BGS

SEAL

Material: 50 LBS BENTONITE
Brand Name: CETCO PUREGOLD
Setup/Hydration Time: 30 MINUTES
Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
Brand Name: MORIE
Amount Used: 200 LBS
Grain Size Dist.: #N00 SAND
Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
Diameter: 1 INCH
Slot Size & Type: 0.01 INCHES
Interval BGS: 11 TO 21 FEET BGS

SUMP

Interval BGS: N/A
Bottom Cap: YES

BACKFILL PLUG

Material: N/A
Setup/Hydration Time: N/A

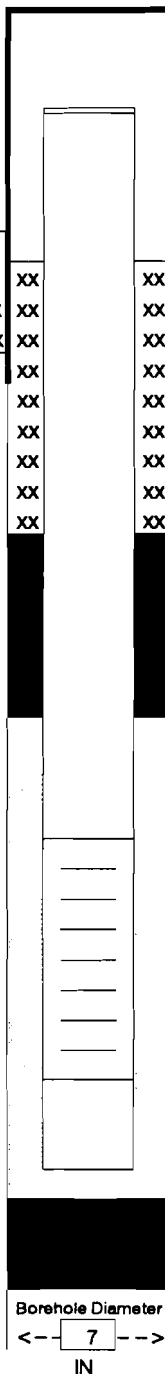
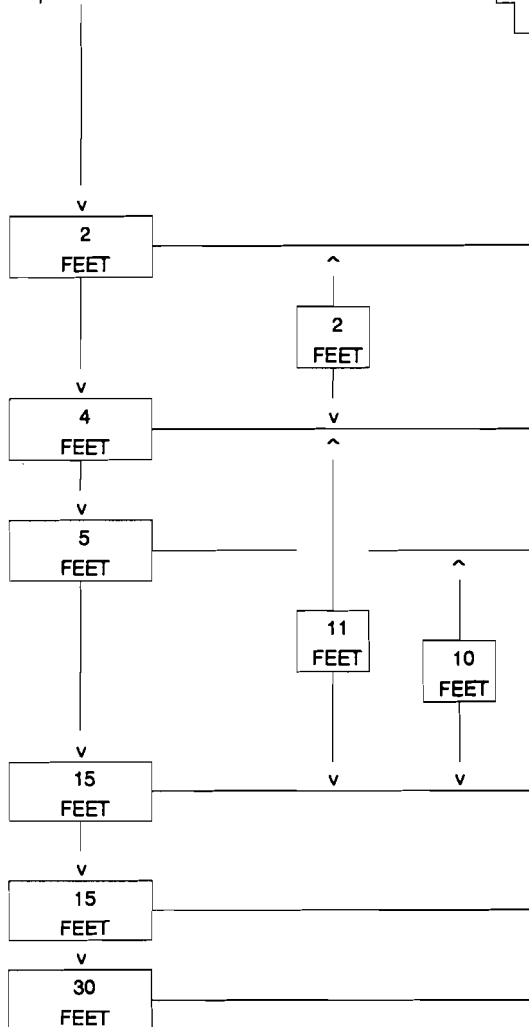
SINGLE CASED PIEZOMETER CONSTRUCTION LOG

WELL NO.: P-2	FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.: 726521	CLIENT: NIAGARA MOHAWK POWER CORPORATION
INSPECTOR: N.A. SMITH	DRILLING CONTACTOR: NORTHSTAR DRILLING
DATE START: 06/28/95	DATE END: 06/28/95
WELL COORDINATES:	

Elevation: _____ FEET
 Height: _____ FEET

Elevation: 419.8 FEET
 Height: 1.67 FEET

GS Elevation: 418.13 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 1 INCH

GROUT

Amt cement: 94 LBS
 Amt bentonite: 5 LBS
 Amt water: 10 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 45 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 300 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 1 INCH
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 4 TO 15 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

SINGLE CASED PIEZOMETER CONSTRUCTION LOG

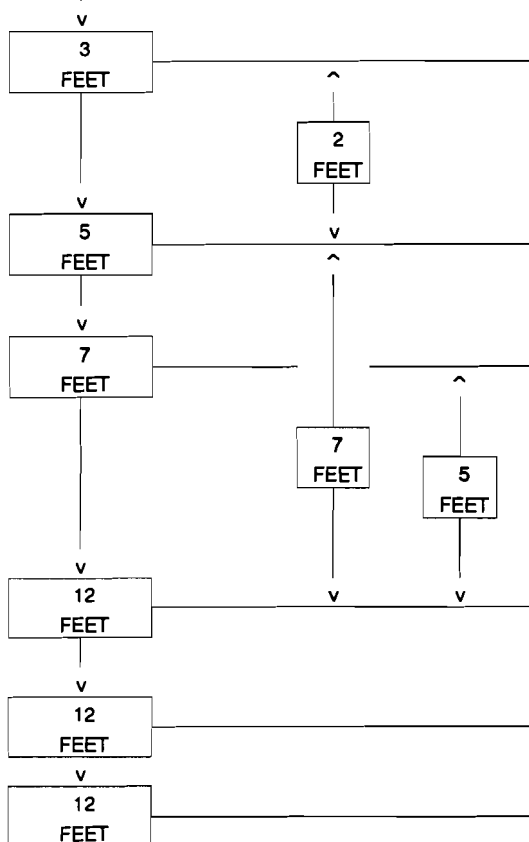
WELL NO.: P-3S
 PROJ. NO.: 726521
 INSPECTOR: N.A. SMITH
 DATE START: 06/27/95

FACILITY/SITE NAME: ONEIDA, NY, SCONONDOA ST. SITE
 CLIENT: NIAGARA MOHAWK POWER CORPORATION
 DRILLING CONTACTOR: NORTHSTAR DRILLING
 DATE END: 06/27/95
 WELL COORDINATES:

Elevation: FEET
 Height: FEET

Elevation: 419.76 FEET
 Height: 1.97 FEET

GS Elevation: 417.79 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 1 INCH

GROUT

Amt cement: 94 LBS
 Amt bentonite: 5 LBS
 Amt water: 10 GALLONS
 Tremied: YES
 Interval: 0 TO 3 FEET BGS

SEAL

Material: 35 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 175 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 1 INCH
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 7 TO 12 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

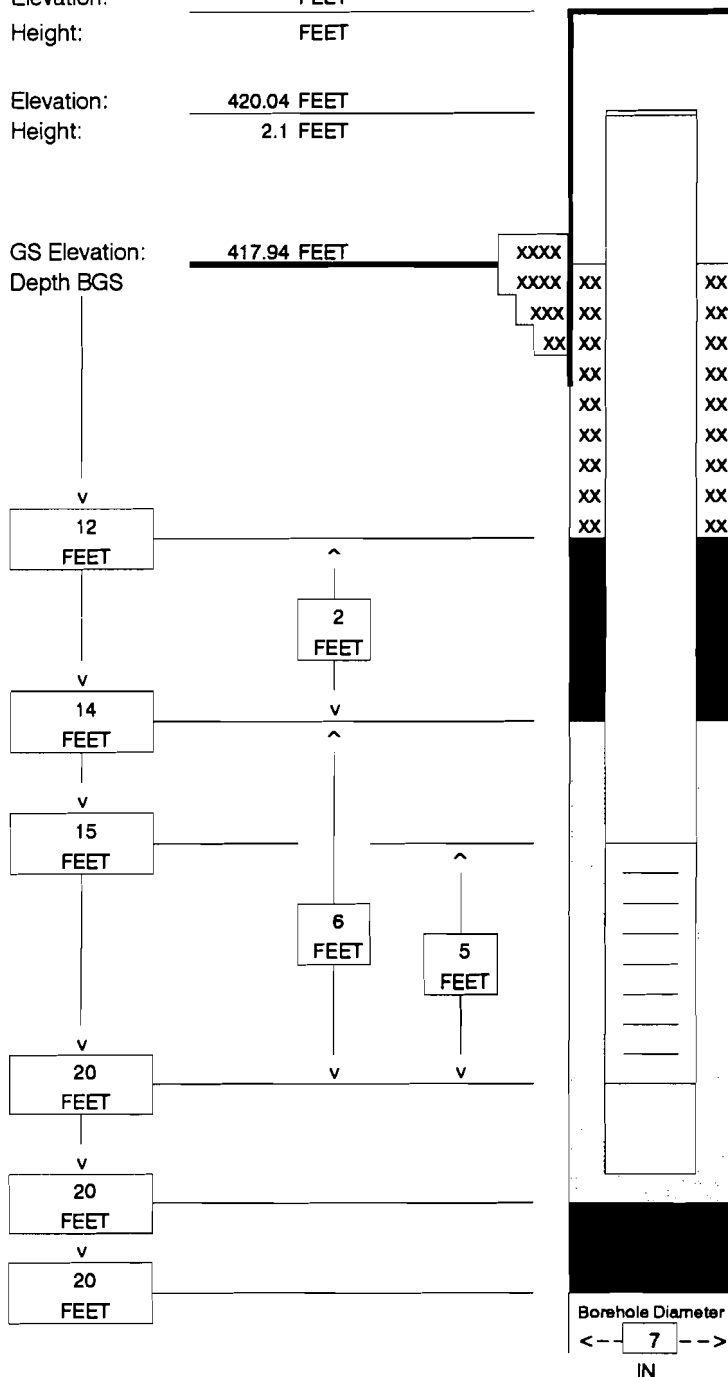
SINGLE CASED PIEZOMETER CONSTRUCTION LOG

WELL NO.:	P-3D	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	N.A. SMITH	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	06/26/95	DATE END:	06/27/95
		WELL COORDINATES:	

Elevation: _____ FEET
 Height: _____ FEET

Elevation: 420.04 FEET
 Height: 2.1 FEET

GS Elevation: 417.94 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 1 INCH

GROUT

Amt cement: 188 LBS
 Amt bentonite: 15 LBS
 Amt water: 15 GALLONS
 Tremied: YES
 Interval: 0 TO 12 FEET BGS

SEAL

Material: 25 LBS BENTONITE
 Brand Name: 1/4" PELLETS
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: N/A

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 125 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 1 INCH
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 15 TO 20 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

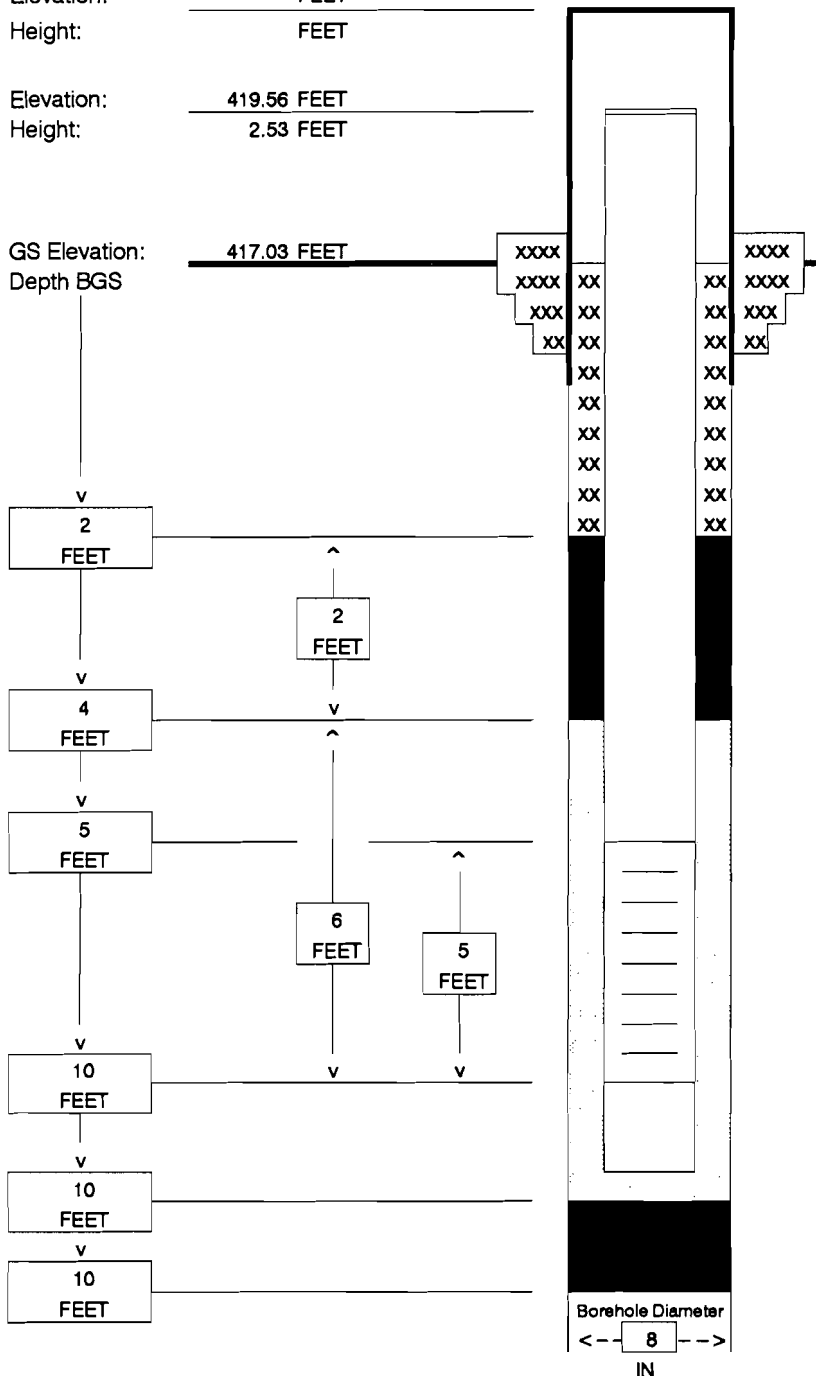
SINGLE CASED PIEZOMETER CONSTRUCTION LOG

WELL NO.:	P-4	FACILITY/SITE NAME:	ONEIDA, NY, SCONONDOA ST. SITE
PROJ. NO.:	726521	CLIENT:	NIAGARA MOHAWK POWER CORPORATION
INSPECTOR:	N.A. SMITH	DRILLING CONTACTOR:	NORTHSTAR DRILLING
DATE START:	06/26/95	DATE END:	06/26/95
		WELL COORDINATES:	

Elevation: _____ FEET
 Height: _____ FEET

Elevation: 419.56 FEET
 Height: 2.53 FEET

GS Elevation: 417.03 FEET
 Depth BGS



PROTECTIVE CASING

Material: STEEL
 Diameter: FOUR INCHES
 Depth BGS: TWO FEET
 Water Tight Seal Type: PORTLAND CEMENT
 Flushmount: NO
 Weep hole: YES

GUARD POSTS

Material: N/A
 No. & Size: N/A

SURFACE PAD

Composition: PORTLAND CEMENT
 Size: 1.5 FEET DIAMETER

RISER PIPE

Material: PVC
 Schedule: SCH 40
 Joint Type: THREADED
 O-ring: RUBBER
 Diameter: 1 INCH

GROUT

Amt cement: 94 LBS
 Amt bentonite: 5 LBS
 Amt water: 10 GALLONS
 Tremied: YES
 Interval: 0 TO 2 FEET BGS

SEAL

Material: 50 LBS BENTONITE
 Brand Name: CETCO PUREGOLD
 Setup/Hydration Time: 30 MINUTES
 Vol. Fluid Added: 1 GALLON

FILTER PACK

Material: SILICA SAND
 Brand Name: MORIE
 Amount Used: 150 LBS
 Grain Size Dist.: #N00 SAND
 Tremied: NO

SCREEN

Material: SLOTTED SCH 40 PVC
 Diameter: 1 INCH
 Slot Size & Type: 0.01 INCHES
 Interval BGS: 5 TO 10 FEET BGS

SUMP

Interval BGS: N/A
 Bottom Cap: YES

BACKFILL PLUG

Material: N/A
 Setup/Hydration Time: N/A

NMPC ONEIDA
WELL DEVELOPMENT LOGS

Niagara Mohawk MGP Site

Oneida, New York

WELL DEVELOPMENT LOGS



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-2S

Date: 7/07/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	8.8
60	1000+	17.8	7.4	1633	-
75	251	16.5	7.3	1504	-
90	92.9	16.7	7.3	1475	-
105	40.3	16.9	7.3	1490	-
120	158	17.4	7.4	1324	8.9
Avg. Flow Rate (GPM): 0.40			Total Qty. Pumped (Gal.): 48		
Technician(s): Joe Ely & Lynn Todd					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-3S

Date: 7/07/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	8.6
60	1000+	18.4	7.1	1536	-
75	1000+	20.1	7.2	1537	-
90	1000+	18.3	7.2	1512	-
105	1000+	18.4	7.2	1508	-
120	1000+	18.7	7.2	1535	8.3
Avg. Flow Rate (GPM): <u>0.50</u>			Total Qty. Pumped (Gal.): <u>60</u>		
Technician(s): Joe Ely & Lynn Todd					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-4S

Date: 7/06/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	11.1
60	1000+	16.6	6.6	1770	-
75	683	16.3	6.6	1977	-
90	390	16.3	6.7	1973	-
105	374	16.3	6.6	1981	-
120	200	16.2	6.6	1980	11.1
Avg. Flow Rate (GPM): <u>0.39</u>			Total Qty. Pumped (Gal.): <u>47</u>		
Technician(s): David Lyons & Joe Ely					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-7

Date: 7/07/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	7.8
60	1000+	15.1	6.6	1410	-
75	27.3	15.6	6.5	1432	-
90	21.4	15.6	6.6	1412	10.7
Avg. Flow Rate (GPM): <u>0.16</u>			Total Qty. Pumped (Gal.): <u>14</u>		
Technician(s): Joe Ely & Lynn Todd					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-8

Date: 7/06/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H2O Level (Ft.)
0	-	-	-	-	9.2
60	1000+	16.3	6.7	1390	-
75	445	16.7	6.7	1394	-
90	148	15.5	6.7	1469	-
105	73.4	15.1	6.8	1543	-
120	37.1	15.3	6.9	1391	9.2
Avg. Flow Rate (GPM): 0.59			Total Qty. Pumped (Gal.): 71		
Technician(s): David Lyons & Joe Ely					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-10S

Date: 7/06/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	9.1
60	943	14.5	6.7	1988	-
75	401	14.4	6.8	1920	-
90	256	14.5	6.8	1854	-
105	169	14.4	6.9	1851	-
120	133	14.5	6.9	1832	-
135	114	14.5	6.9	1791	9.1
Avg. Flow Rate (GPM): 0.64			Total Qty. Pumped (Gal.): 87		
Technician(s): David Lyons & Joe Ely					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-10D

Date: 7/19/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	9.28
60	1000+	19.0	7.0	1811	-
75	670	14.7	7.0	1798	-
90	345	14.5	7.1	1760	-
105	240	15.1	7.1	1753	-
120	127	15.0	7.2	1638	16.90
Avg. Flow Rate (GPM): 0.92			Total Qty. Pumped (Gal.): 110		
Technician(s): Harry Lyon & Heather Thew					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-11

Date: 7/19/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	4.82
60	1000+	12.5	7.1	1010	-
75	1000+	12.0	7.0	924	-
90	1000+	12.0	7.1	897	-
105	1000+	12.1	7.0	833	-
120	1000+	11.8	7.1	831	5.45
Avg. Flow Rate (GPM): <u>0.83</u>			Total Qty. Pumped (Gal.): <u>100</u>		
Technician(s): Harry Lyon & Heather Thew					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-12

Date: 7/17/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	16.1
60	213	20.0	7.3	1726	-
75	195	19.2	7.2	1720	-
90	206	18.0	7.0	1575	-
105	169	18.4	7.0	1671	-
120	319	18.0	7.0	1645	20.0
Avg. Flow Rate (GPM): <u>0.23</u>			Total Qty. Pumped (Gal.): <u>26</u>		
Technician(s): David Lyons & Scott Thew					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.



WELL DEVELOPMENT LOG

Site: NMPC Service Center
Oneida, New York

Well: ES-13

Date: 7/17/95

Cum. Time (Min.)	Turbidity (NTU)	Temp. (°C)	pH	Conductivity (uS)	H ₂ O Level (Ft.)
0	-	-	-	-	8.55
60	1000+	15.7	7.2	1010	-
75	651	15.1	7.3	957	-
90	92.3	15.7	7.2	968	-
105	35.1	15.7	7.3	953	-
120	33.1	15.8	7.3	1040	15.65
Avg. Flow Rate (GPM): <u>0.17</u>			Total Qty. Pumped (Gal.): <u>20</u>		
Technician(s): David Lyons & Scott Thew					

Remarks: _____

Note: See attached supplement for additional information regarding equipment and procedures.

Niagara Mohawk MGP Site

Oneida, New York

WELL DEVELOPMENT LOG

- Supplement -



WELL DEVELOPMENT LOG

- Supplement -

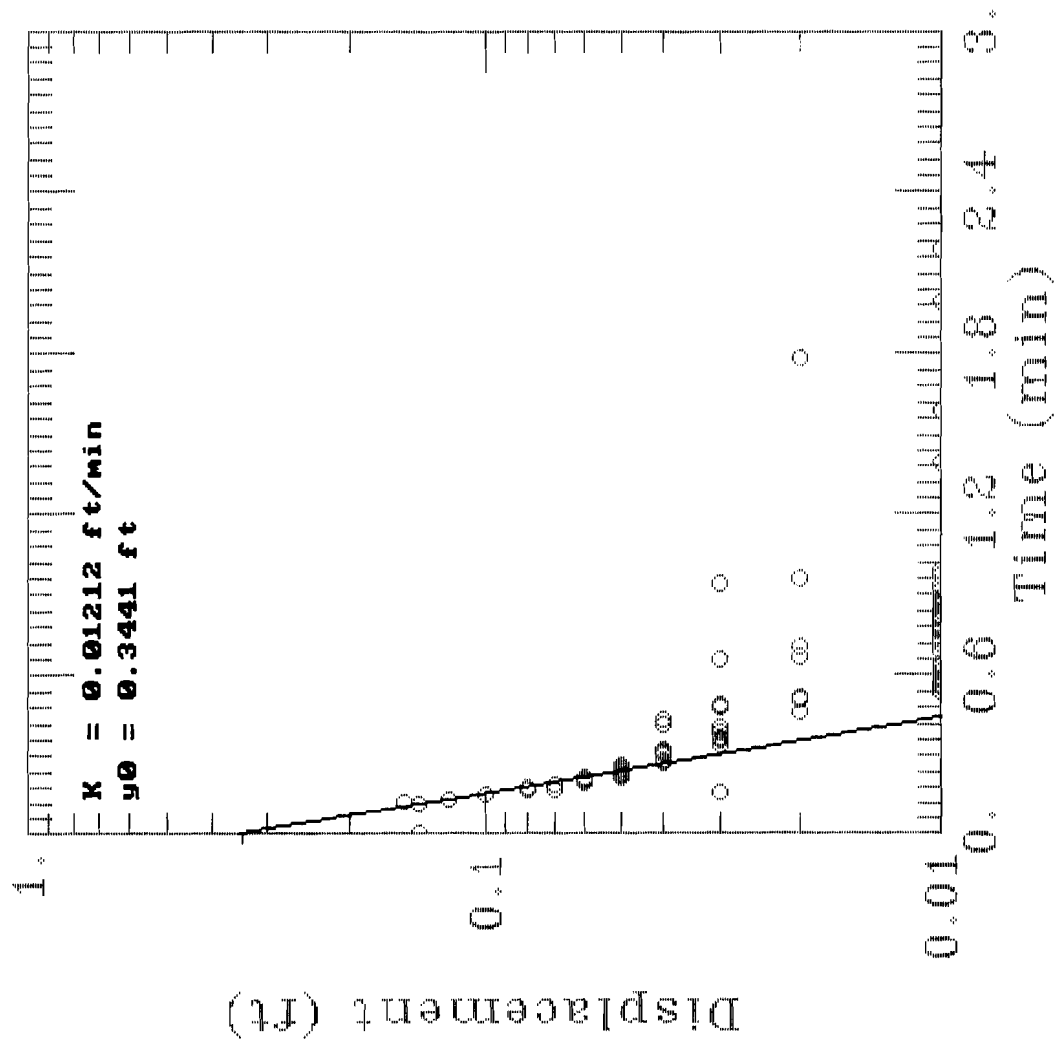
The following information is intended to supplement the Well Development Log and summarizes the equipment and procedures employed in performing the task:

- 1) Test equipment was calibrated at the start of each day in accordance with project specifications, manufacturer's recommendations and applicable standard procedures. The original field calibration logs are on file.
- 2) A Waterra "Hydrolift" inertial pump utilizing 5/8" HDPE tubing, a 1" "Delrin" foot valve and 1-7/8" "Delrin" surge block were utilized to perform the two phase procedure as follows:
 - a) Phase I (Surging and Development): The foot valve and surge block, connected to the tubing, were lowered to the top of the well screen. The entire length of the well screen was surged and developed in one foot increments by progressively lowering the tubing at approximately five minute intervals.
 - b) Phase II (Pumping and Testing): The surge block was removed and the foot valve only was lowered to the bottom of the well screen. Pumping was resumed and testing was conducted generally at fifteen minute intervals until the criteria specified for termination were met.
 - c) Data recorded during both phases is included on the attached Well Development Logs.
- 3) Reusable hardware and equipment were decontaminated prior to each use in accordance with project specifications.
- 4) Expendable hardware and development wastes were containerized and/or disposed of in accordance with project specifications.

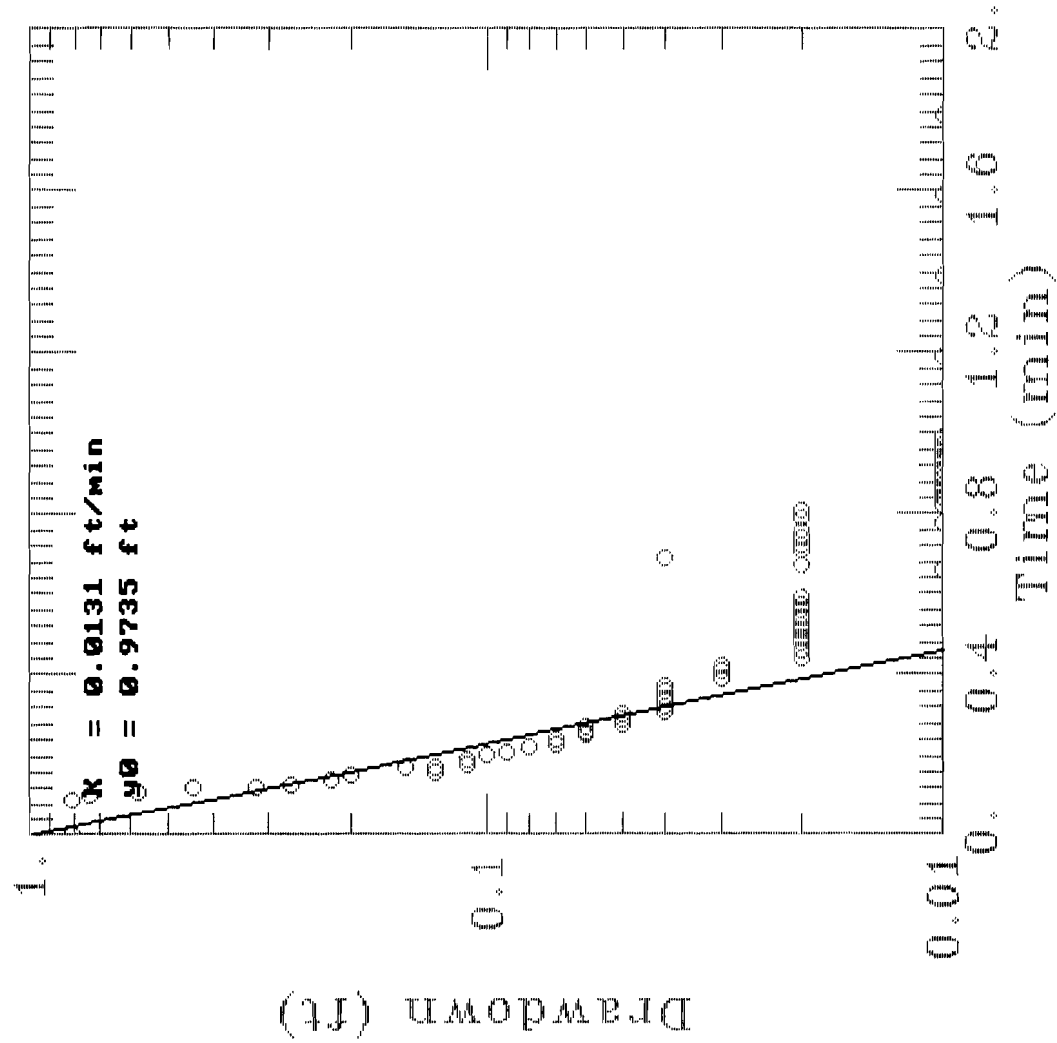
APPENDIX F

INSITU PERMEABILITY TEST DATA

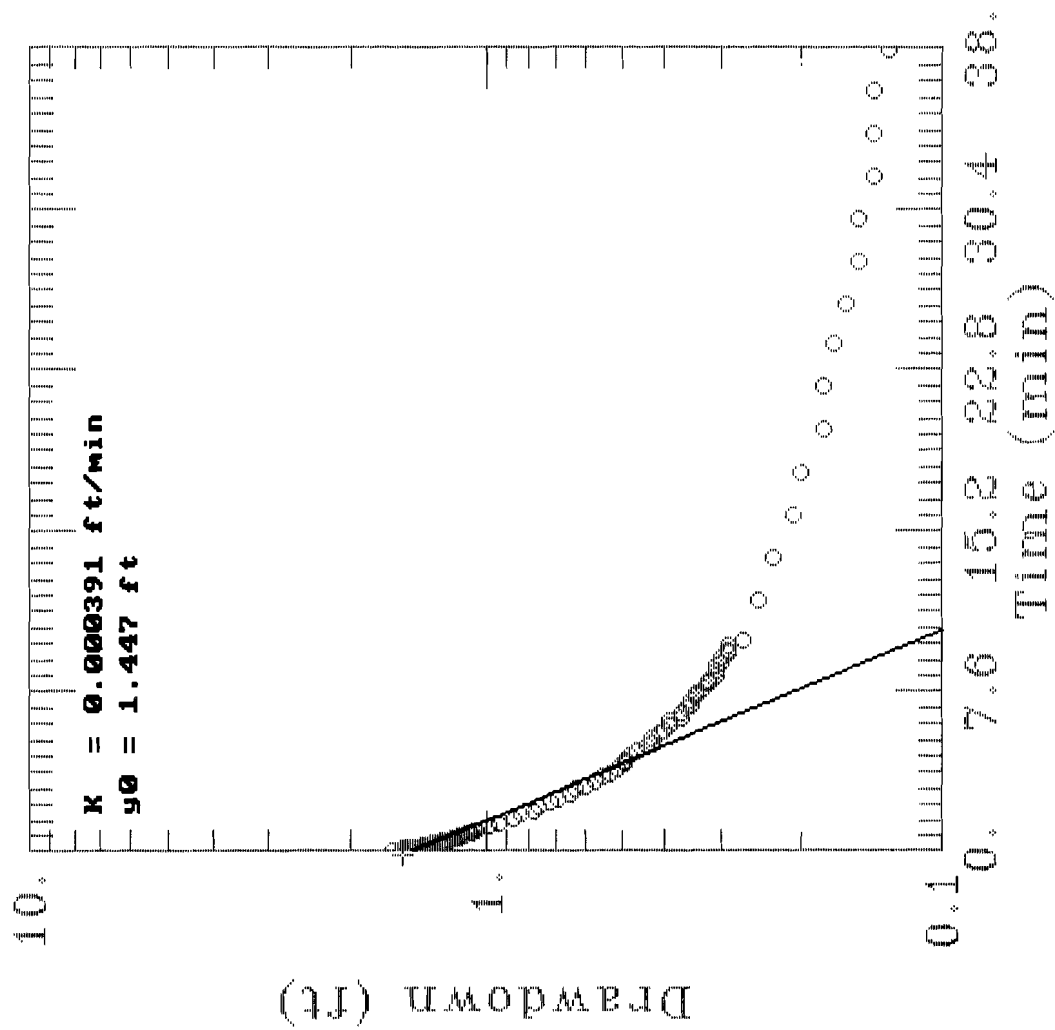
ONEIDA/ES-1/SLUG TEST DATA (INJECTION)



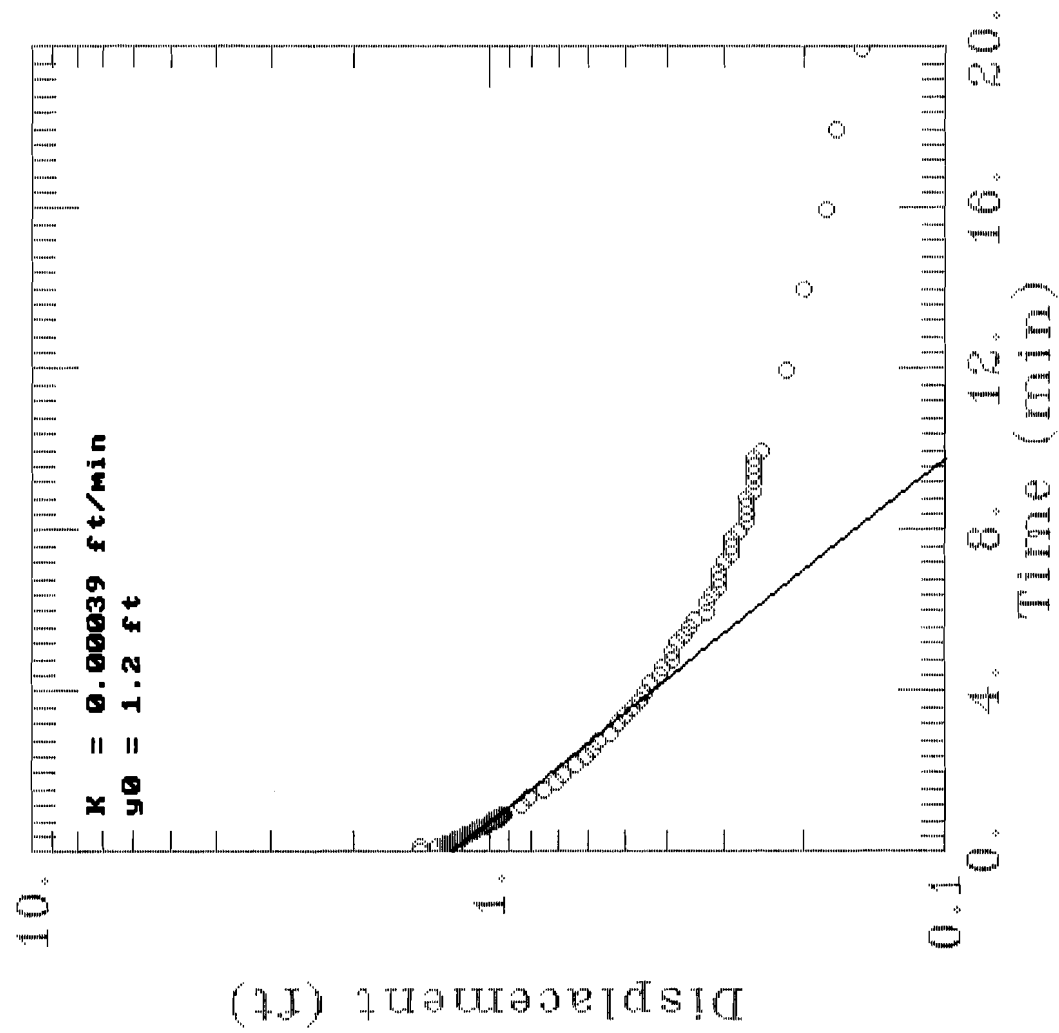
ONEIDA/ES-1/SLUG TEST DATA (WITHDRAWAL)



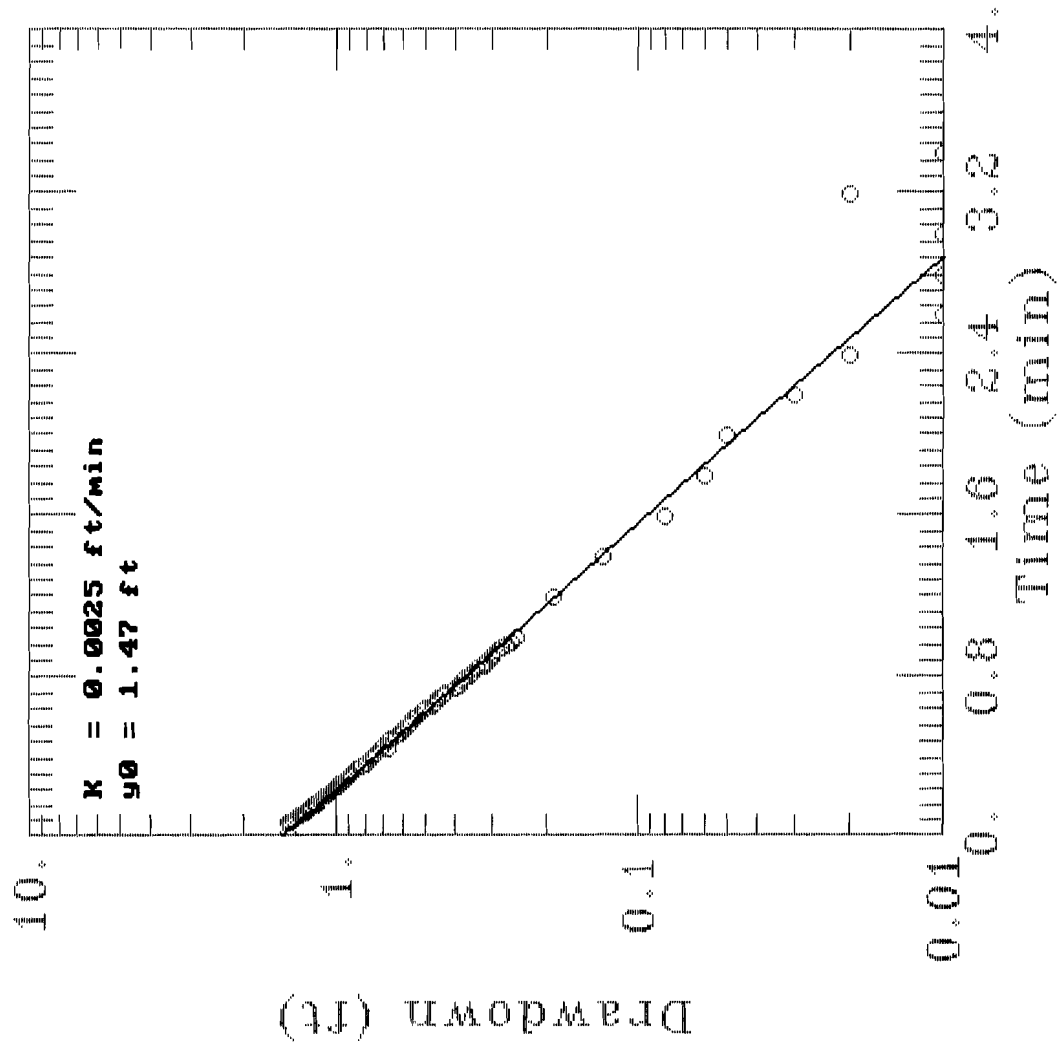
ONEIDA/ES-2/SLUG TEST DATA (WITHDRAWAL)



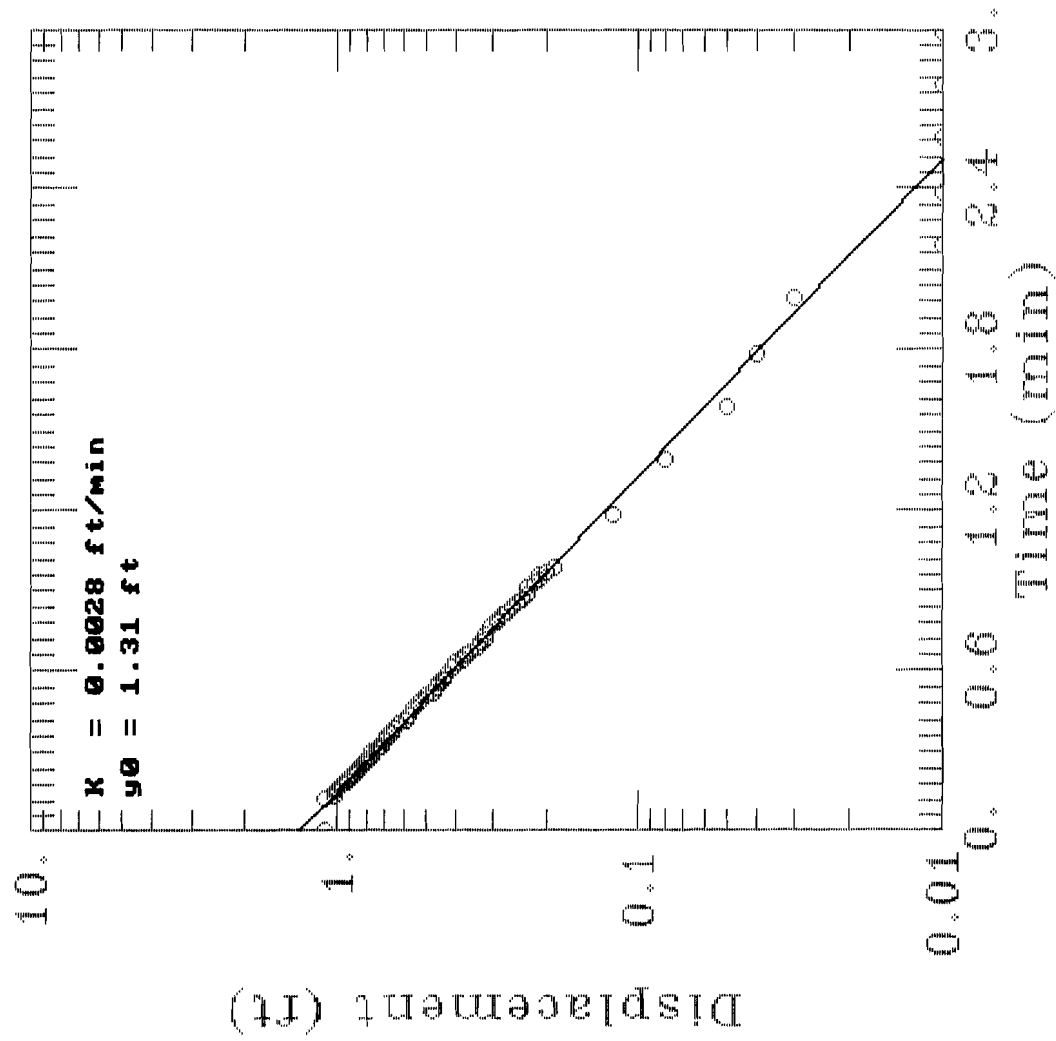
ONEIDA/ES-2/SLUG TEST DATA (INJECTION)



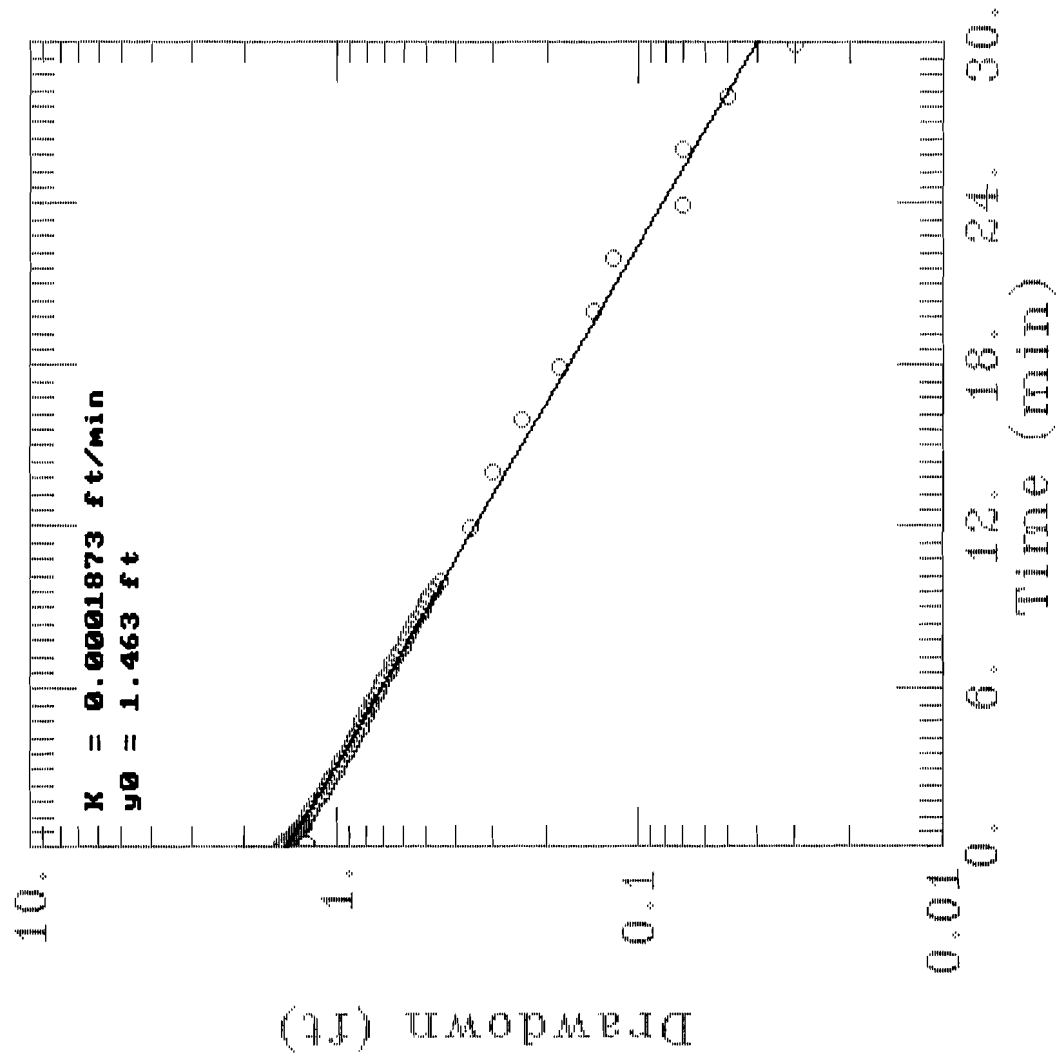
ONEIDA/ES-3/SLUG TEST DATA (WITHDRAWAL)



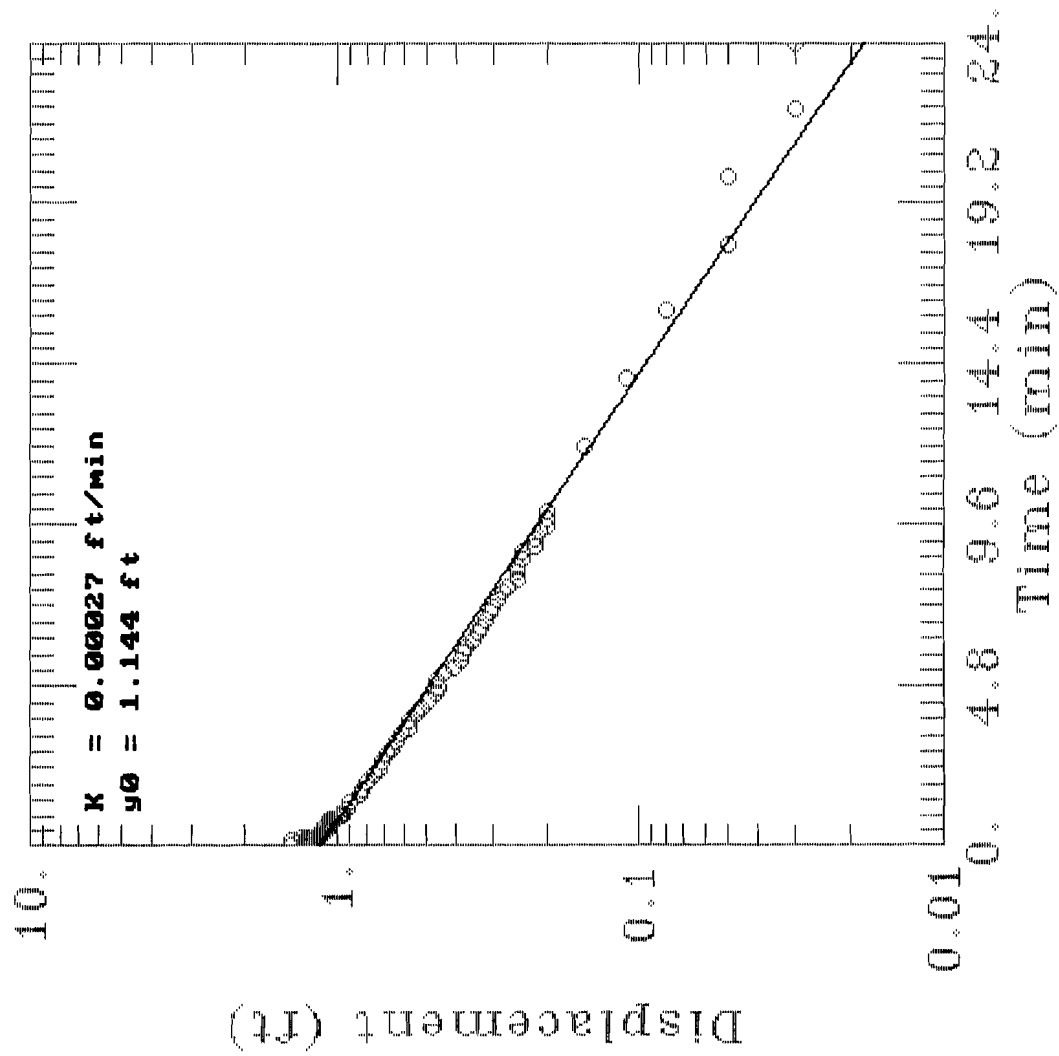
ONEIDA/ES-3/SLUG TEST DATA (INJECTION)



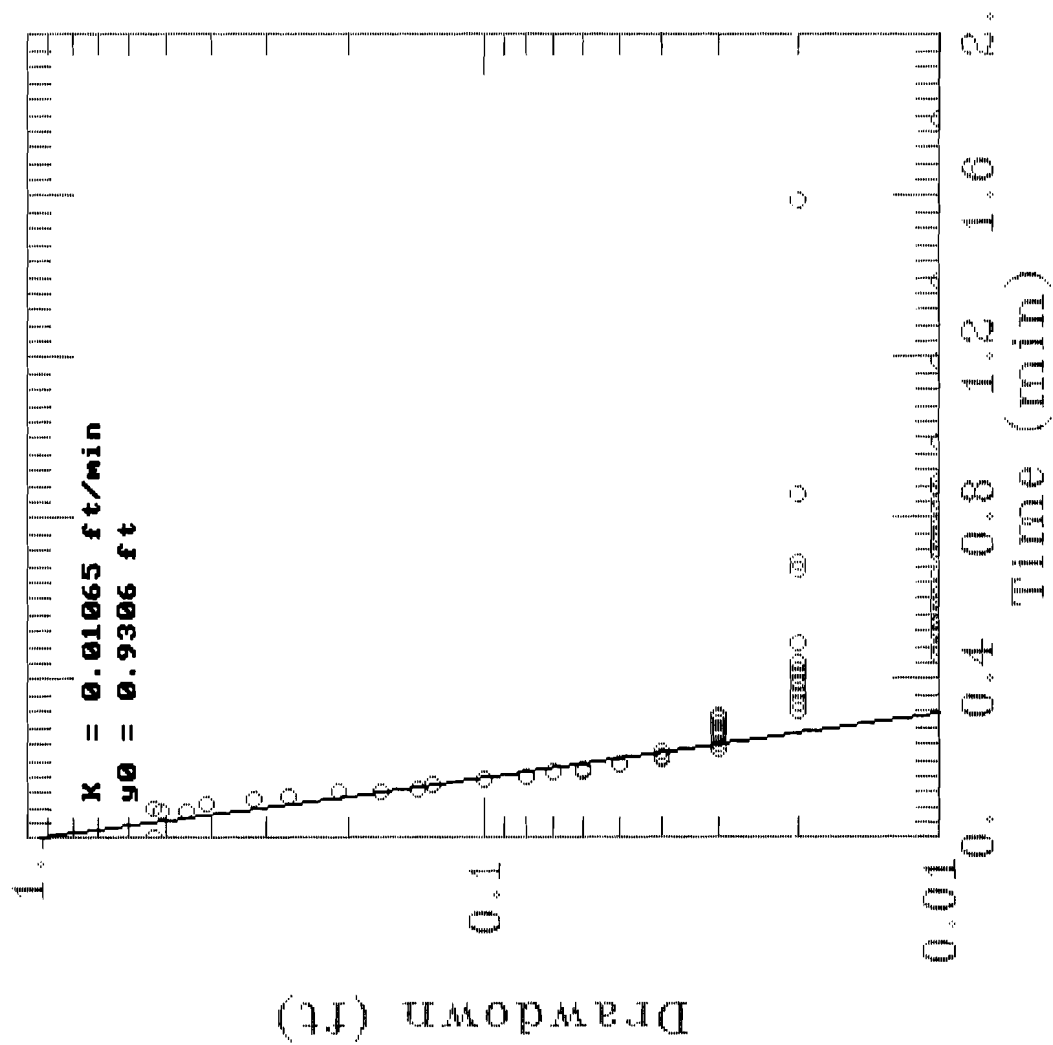
ONEIDA/ES-4/SLUG TEST DATA (WITHDRAWAL)



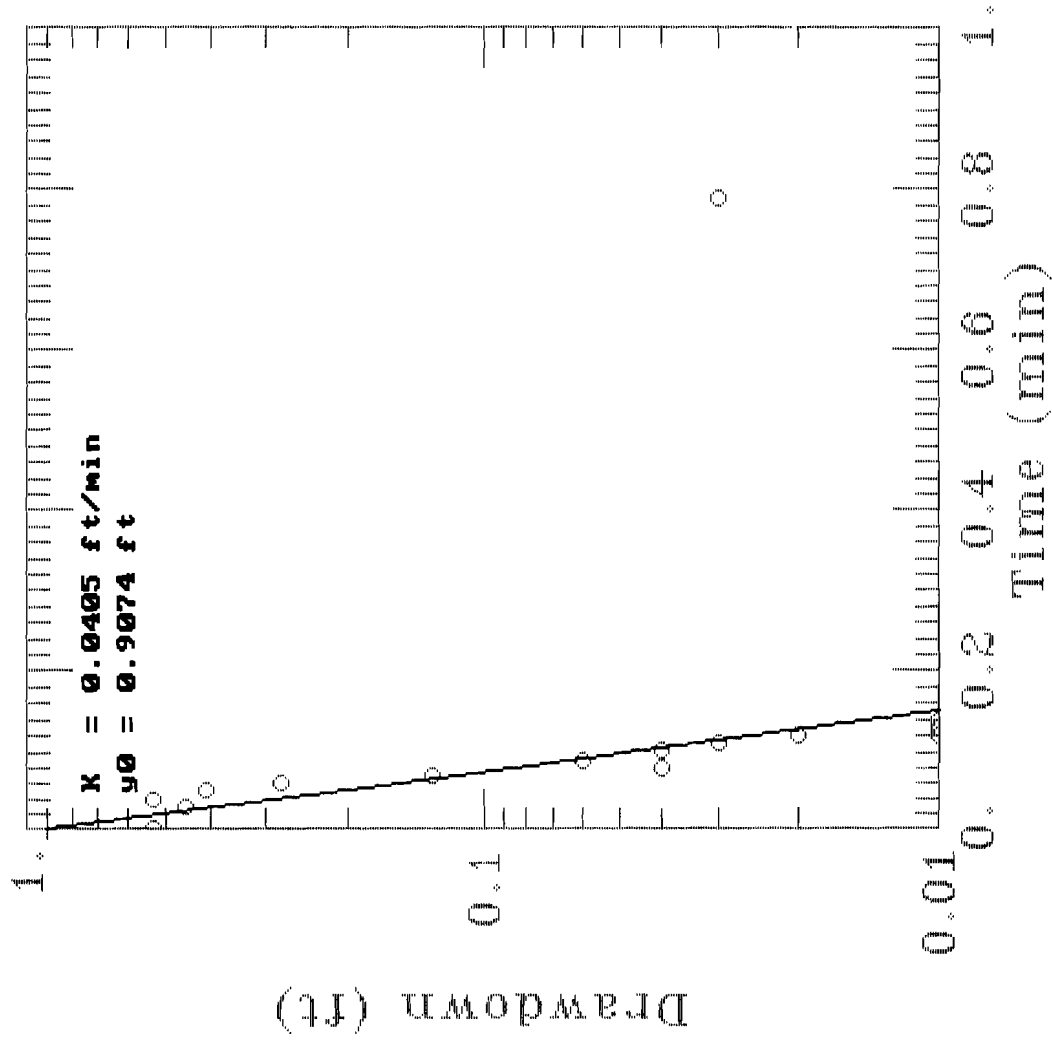
ONEIDA/ES-4/SLUG TEST DATA (INJECTION)



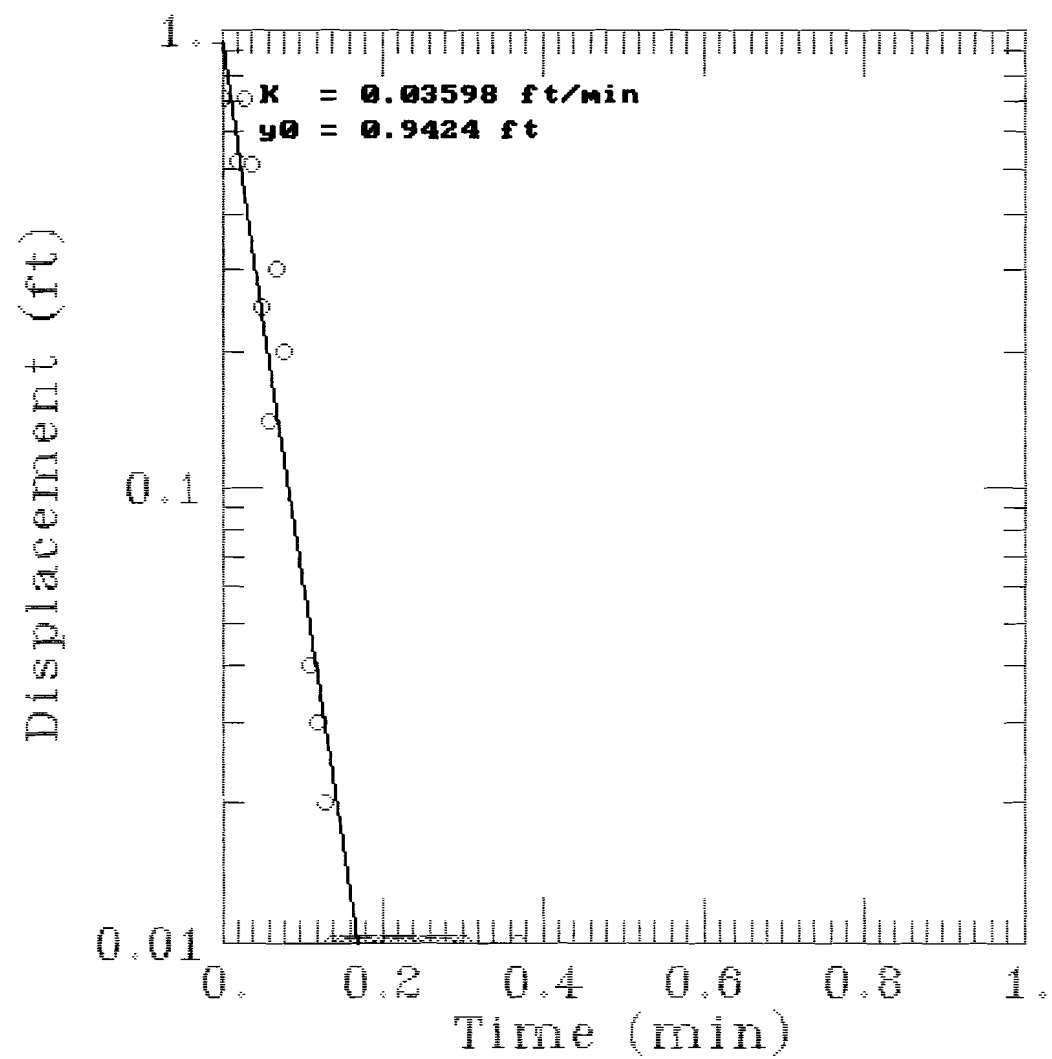
ONEIDA/ES-4S/SLUG TEST DATA (WITHDRAWAL)



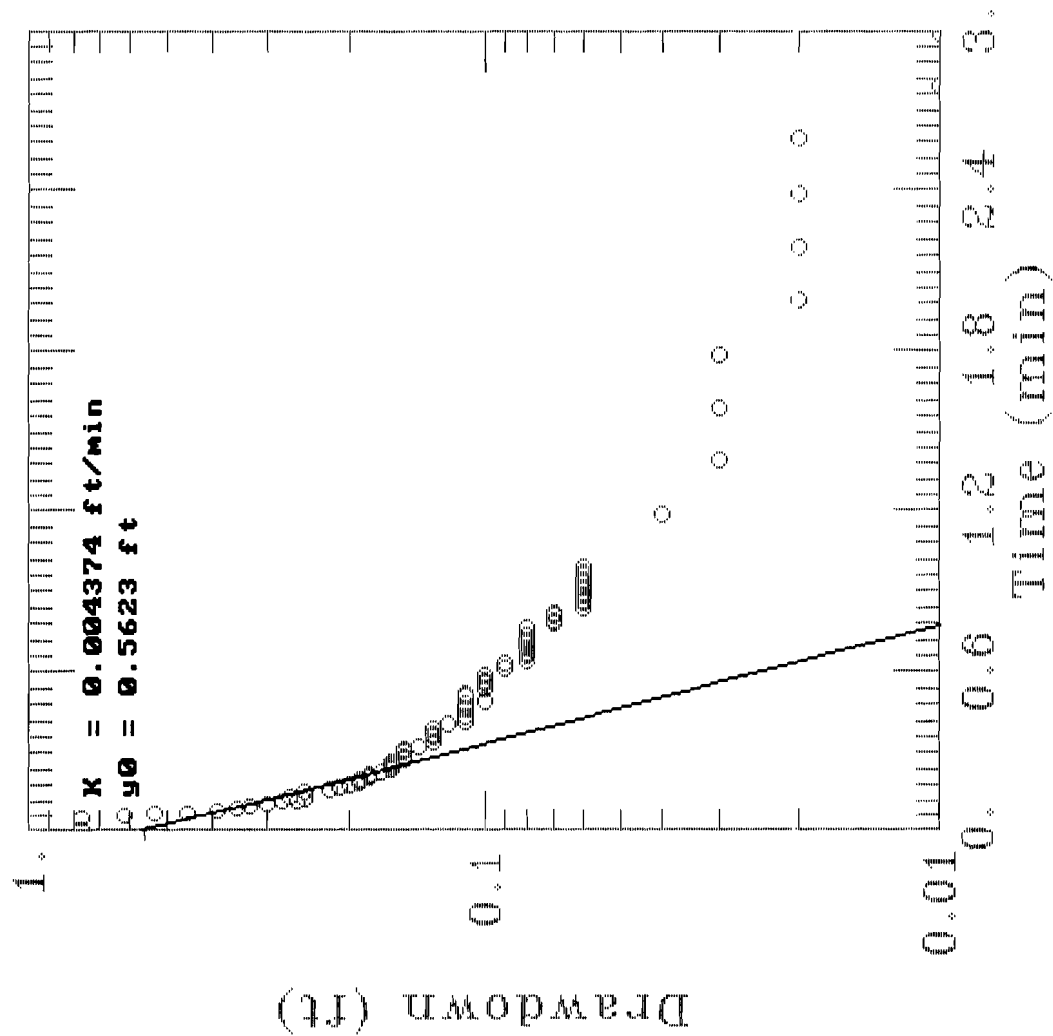
ONEIDA/ES-5/SLUG TEST DATA (WITHDRAWAL)



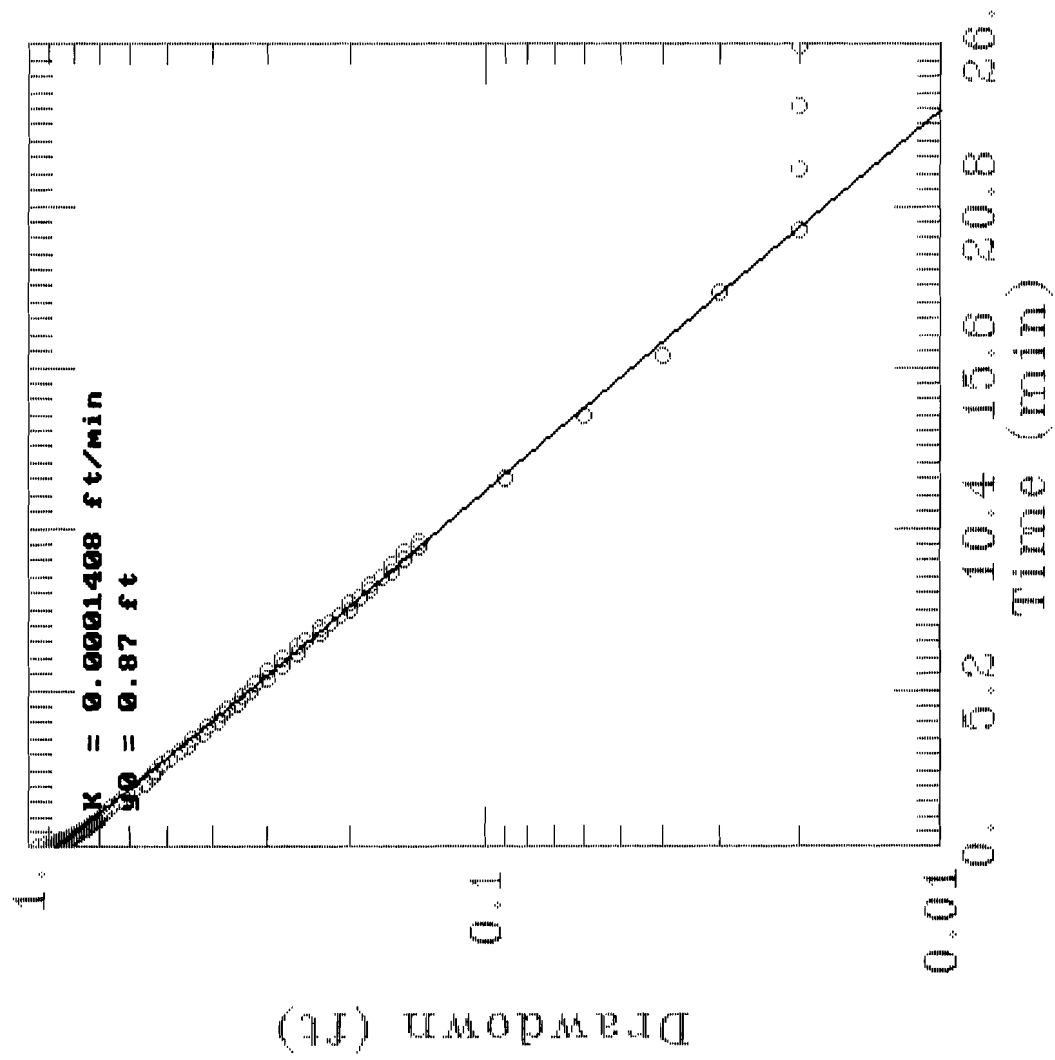
ONEIDA/ES-5/SLUG TEST DATA (INJECTION)



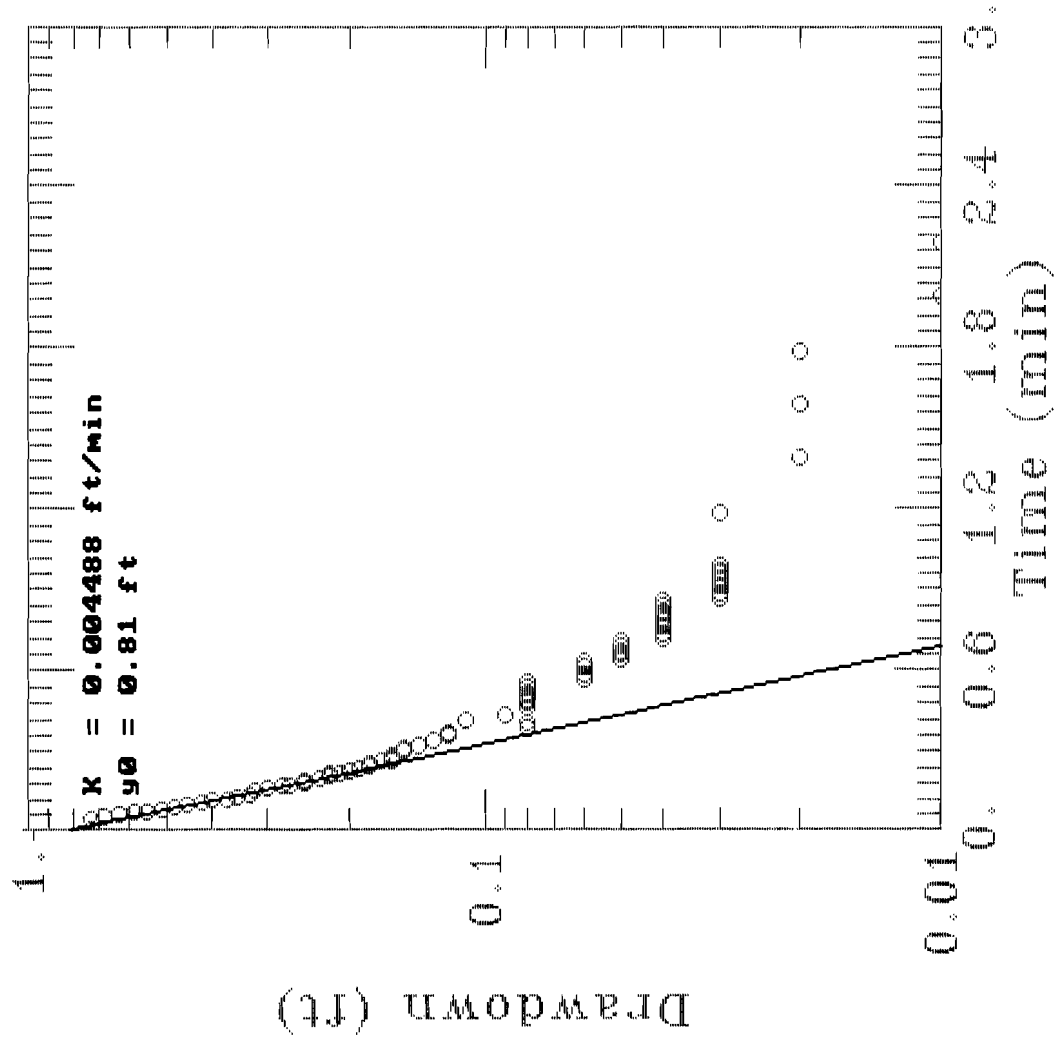
ONEIDA/ES-6/SLUG TEST DATA (WITHDRAWAL)



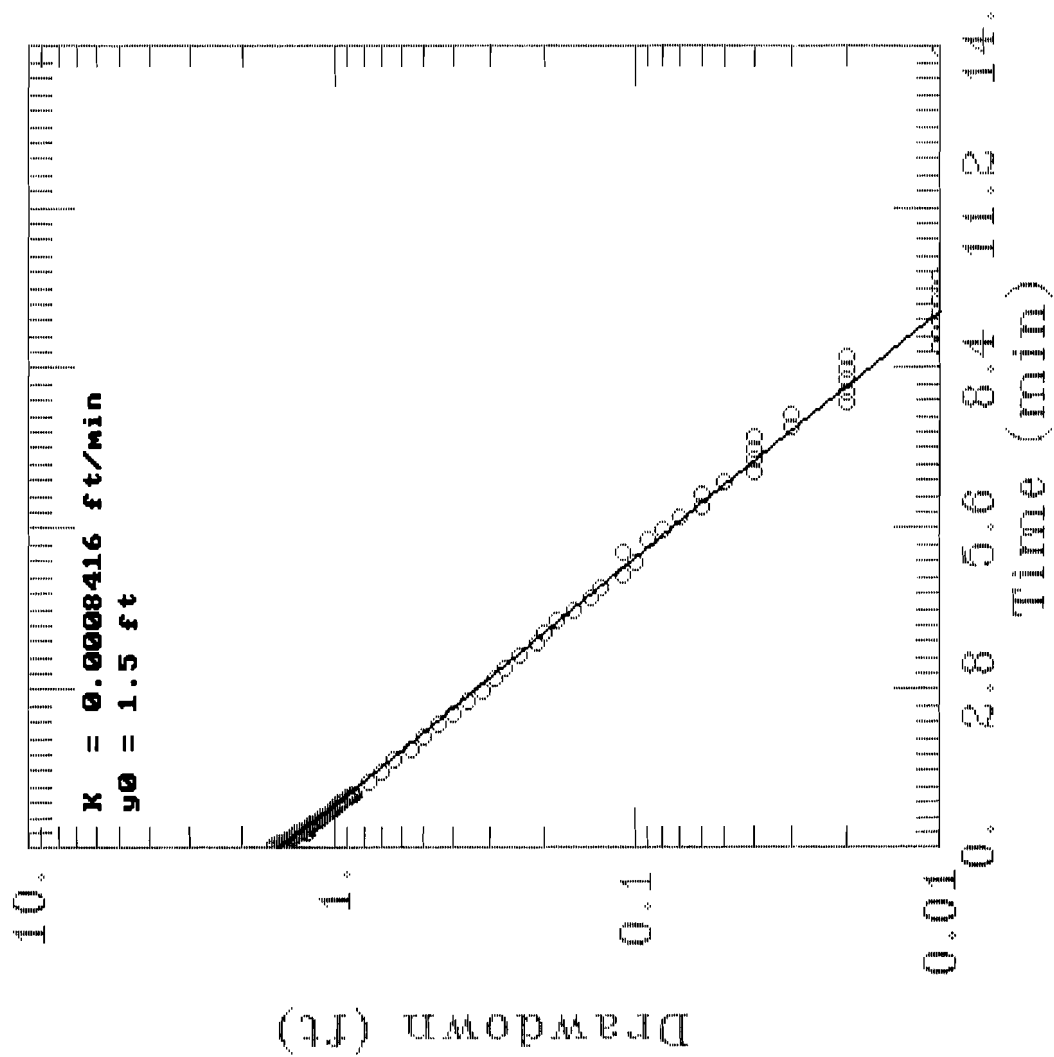
ONEIDA/ES-7/SLUG TEST DATA (WITHDRAWAL)



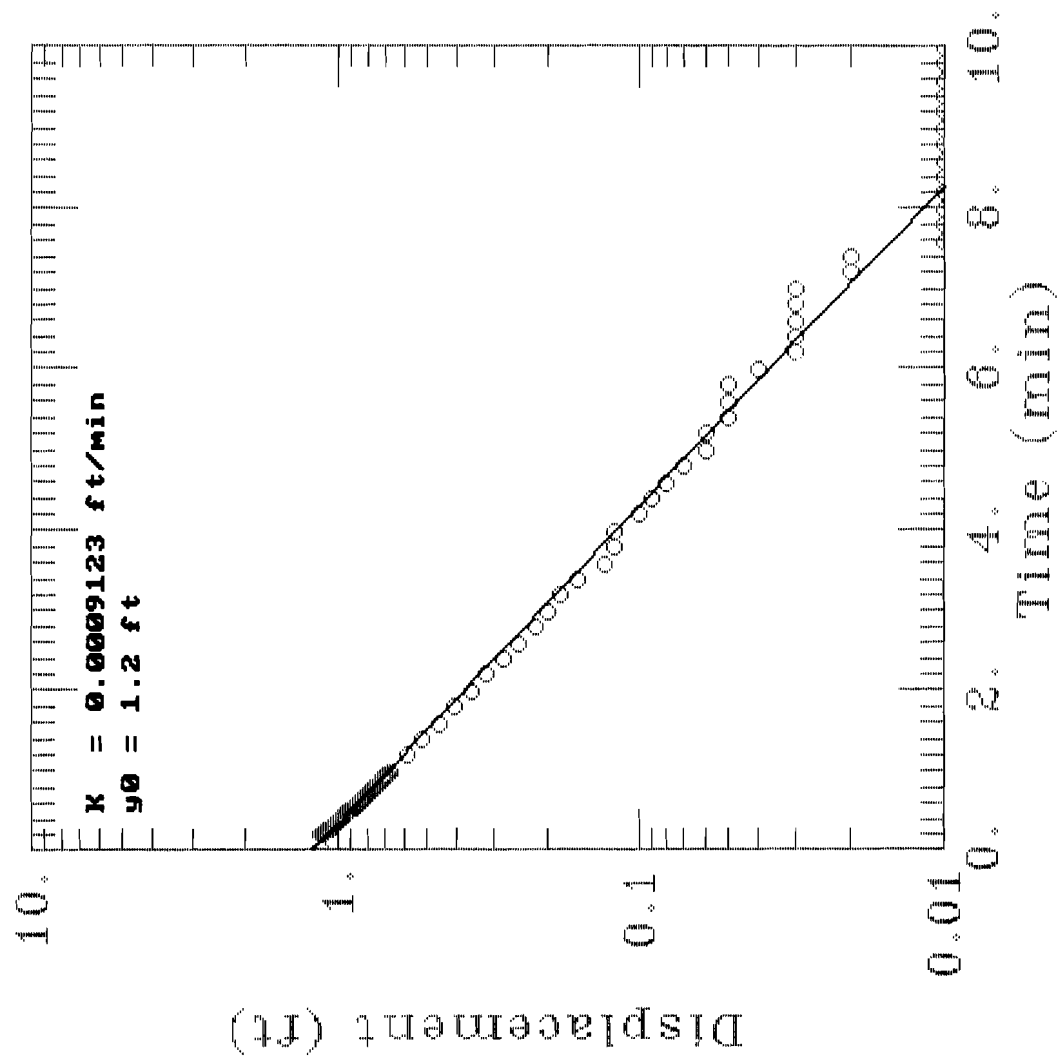
ONEIDA/ES-8/SLUG TEST DATA (WITHDRAWAL)



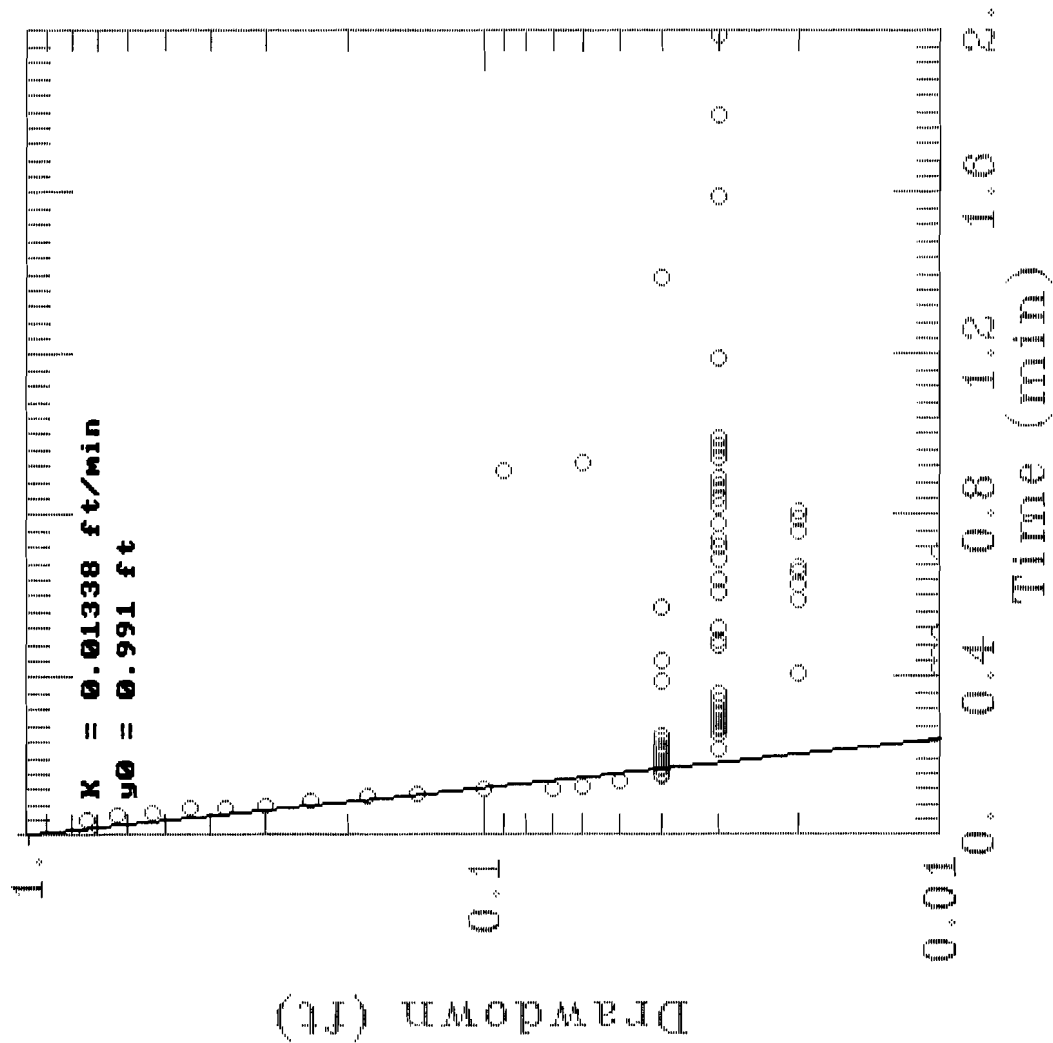
ONEIDA/ES-10/SLUG TEST DATA (WITHDRAWAL)



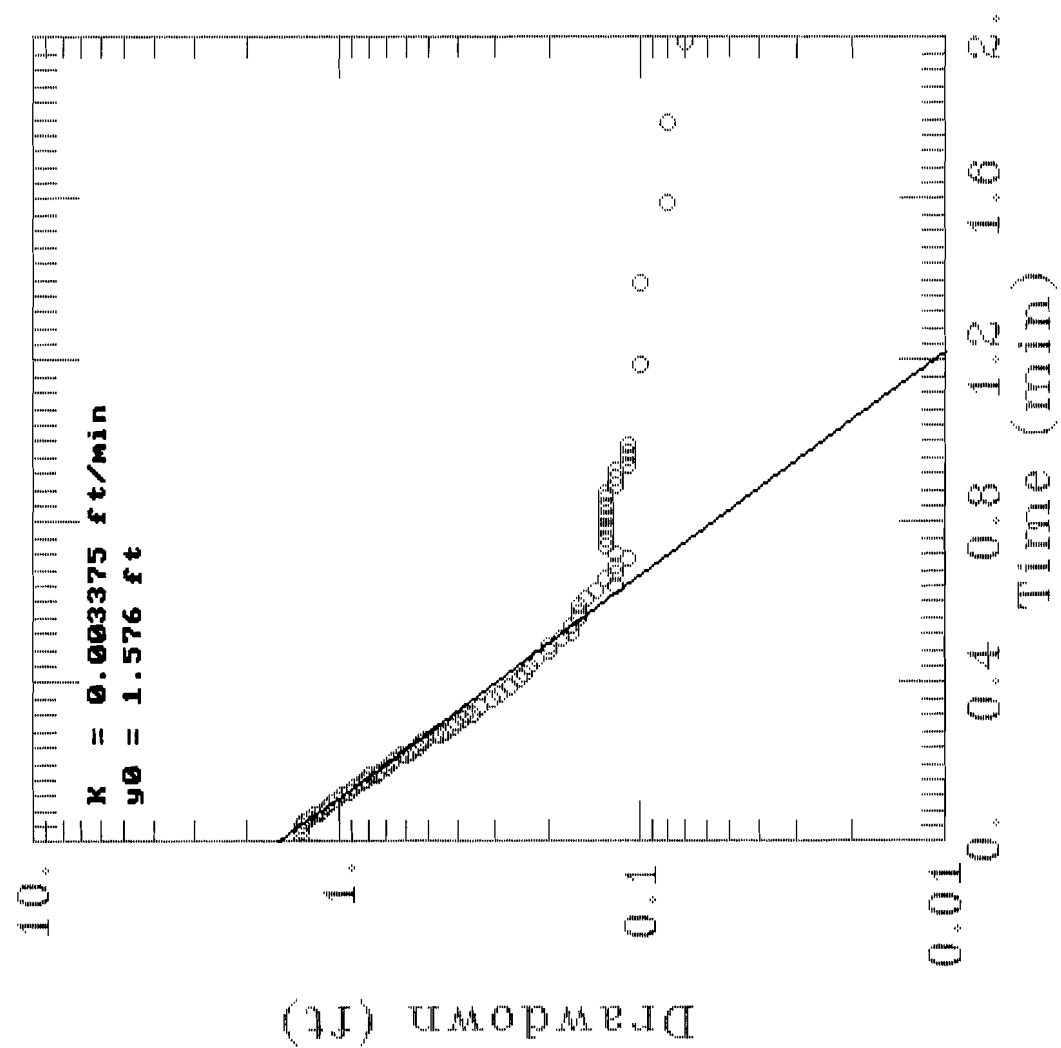
ONEIDA/ES-10/SLUG TEST DATA (INJECTION)



ONEIDA/ES-10S/SLUG TEST DATA(WITHDRAWAL)



ONEIDA/ES-12/SLUG TEST DATA (WITHDRAWAL)



=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:44:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	15:44:01	11.21	-0.01	-0.000	0.00	0.00
07/17/95	15:44:01	10.73	0.00	0.000	0.48	0.48
07/17/95	15:44:02	10.61	0.01	0.000	0.60	0.60
07/17/95	15:44:03	10.78	0.02	0.000	0.43	0.43
07/17/95	15:44:03	10.85	0.02	0.000	0.36	0.36
07/17/95	15:44:03	10.89	0.03	0.000	0.32	0.32
07/17/95	15:44:04	10.87	0.04	0.000	0.34	0.34
07/17/95	15:44:04	10.86	0.05	0.000	0.35	0.35
07/17/95	15:44:05	10.87	0.06	0.000	0.34	0.34
07/17/95	15:44:06	10.98	0.07	0.000	0.23	0.23
07/17/95	15:44:06	10.95	0.07	0.000	0.26	0.26
07/17/95	15:44:06	11.12	0.08	0.000	0.09	0.09
07/17/95	15:44:07	11.12	0.09	0.000	0.09	0.09
07/17/95	15:44:07	10.95	0.10	0.000	0.26	0.26
07/17/95	15:44:08	11.12	0.11	0.000	0.09	0.09
07/17/95	15:44:09	11.22	0.12	0.000	-0.01	-0.01
07/17/95	15:44:09	11.09	0.12	0.000	0.12	0.12
07/17/95	15:44:09	11.08	0.13	0.000	0.13	0.13
07/17/95	15:44:10	11.11	0.14	0.000	0.10	0.10
07/17/95	15:44:10	11.13	0.15	0.000	0.08	0.08
07/17/95	15:44:11	11.20	0.16	0.000	0.01	0.01
07/17/95	15:44:12	11.16	0.17	0.000	0.05	0.05
07/17/95	15:44:12	11.15	0.17	0.000	0.06	0.06
07/17/95	15:44:12	11.15	0.18	0.000	0.06	0.06
07/17/95	15:44:13	11.16	0.19	0.000	0.05	0.05
07/17/95	15:44:13	11.17	0.20	0.000	0.04	0.04
07/17/95	15:44:14	11.17	0.21	0.000	0.04	0.04
07/17/95	15:44:15	11.17	0.22	0.000	0.04	0.04
07/17/95	15:44:15	11.18	0.22	0.000	0.03	0.03
07/17/95	15:44:15	11.18	0.23	0.000	0.03	0.03
07/17/95	15:44:16	11.19	0.24	0.000	0.02	0.02
07/17/95	15:44:16	11.19	0.25	0.000	0.02	0.02
07/17/95	15:44:17	11.19	0.26	0.000	0.02	0.02
07/17/95	15:44:18	11.19	0.27	0.000	0.02	0.02
07/17/95	15:44:18	11.19	0.27	0.000	0.02	0.02

=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:44:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	15:44:18	11.19	0.28	0.000	0.02	0.02
07/17/95	15:44:19	11.19	0.29	0.000	0.02	0.02
07/17/95	15:44:19	11.19	0.30	0.000	0.02	0.02
07/17/95	15:44:20	11.19	0.31	0.000	0.02	0.02
07/17/95	15:44:21	11.19	0.32	0.000	0.02	0.02
07/17/95	15:44:21	11.19	0.32	0.000	0.02	0.02
07/17/95	15:44:22	11.20	0.34	0.000	0.01	0.01
07/17/95	15:44:23	11.20	0.36	0.000	0.01	0.01
07/17/95	15:44:24	11.20	0.37	0.000	0.01	0.01
07/17/95	15:44:25	11.20	0.39	0.000	0.01	0.01
07/17/95	15:44:26	11.20	0.41	0.000	0.01	0.01
07/17/95	15:44:27	11.19	0.42	0.000	0.02	0.02
07/17/95	15:44:28	11.19	0.44	0.000	0.02	0.02
07/17/95	15:44:29	11.21	0.46	0.000	0.00	0.00
07/17/95	15:44:30	11.20	0.48	0.000	0.01	0.01
07/17/95	15:44:31	11.20	0.49	0.000	0.01	0.01
07/17/95	15:44:32	11.21	0.51	0.000	0.00	0.00
07/17/95	15:44:33	11.21	0.52	0.000	0.00	0.00
07/17/95	15:44:34	11.22	0.54	0.000	-0.01	-0.01
07/17/95	15:44:35	11.22	0.56	0.000	-0.01	-0.01
07/17/95	15:44:36	11.22	0.57	0.000	-0.01	-0.01
07/17/95	15:44:37	11.22	0.59	0.000	-0.01	-0.01
07/17/95	15:44:38	11.22	0.61	0.000	-0.01	-0.01
07/17/95	15:44:39	11.22	0.63	0.000	-0.01	-0.01
07/17/95	15:44:40	11.22	0.64	0.000	-0.01	-0.01
07/17/95	15:44:41	11.20	0.66	0.000	0.01	0.01
07/17/95	15:44:42	11.21	0.67	0.000	0.00	0.00
07/17/95	15:44:43	11.22	0.69	0.000	-0.01	-0.01
07/17/95	15:44:44	11.21	0.71	0.000	0.00	0.00
07/17/95	15:44:45	11.22	0.72	0.001	-0.01	-0.01
07/17/95	15:44:46	11.22	0.74	0.001	-0.01	-0.01
07/17/95	15:44:47	11.22	0.76	0.001	-0.01	-0.01
07/17/95	15:44:48	11.22	0.78	0.001	-0.01	-0.01
07/17/95	15:44:49	11.23	0.79	0.001	-0.02	-0.02
07/17/95	15:44:50	11.22	0.81	0.001	-0.01	-0.01

=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:44:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED			
			t (MINS)	t (DAYS)	IH/DD (FT)	IH/DD (FT)
07/17/95	15:44:51	11.22	0.82	0.001	-0.01	-0.01
07/17/95	15:44:52	11.22	0.84	0.001	-0.01	-0.01
07/17/95	15:44:53	11.22	0.86	0.001	-0.01	-0.01
07/17/95	15:44:54	11.22	0.87	0.001	-0.01	-0.01
07/17/95	15:44:55	11.22	0.89	0.001	-0.01	-0.01
07/17/95	15:44:56	11.22	0.91	0.001	-0.01	-0.01
07/17/95	15:44:57	11.22	0.93	0.001	-0.01	-0.01
07/17/95	15:44:58	11.20	0.94	0.001	0.01	0.01
07/17/95	15:44:59	11.21	0.96	0.001	0.00	0.00
07/17/95	15:45:00	11.22	0.97	0.001	-0.01	-0.01
07/17/95	15:45:01	11.22	0.99	0.001	-0.01	-0.01
07/17/95	15:45:13	11.23	1.19	0.001	-0.02	-0.02
07/17/95	15:45:25	11.22	1.39	0.001	-0.01	-0.01
07/17/95	15:45:37	11.22	1.59	0.001	-0.01	-0.01
07/17/95	15:45:49	11.21	1.79	0.001	0.00	0.00
07/17/95	15:46:01	11.22	1.99	0.001	-0.01	-0.01
07/17/95	15:46:13	11.22	2.19	0.002	-0.01	-0.01

=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:34:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	15:34:01	11.21	-0.01	-0.000	0.00	0.00
07/17/95	15:34:01	11.38	0.00	0.000	0.17	0.17
07/17/95	15:34:02	11.11	0.01	0.000	-0.10	-0.10
07/17/95	15:34:03	11.25	0.02	0.000	0.04	0.04
07/17/95	15:34:03	11.43	0.02	0.000	0.22	0.22
07/17/95	15:34:03	11.13	0.03	0.000	-0.08	-0.08
07/17/95	15:34:04	11.49	0.04	0.000	0.28	0.28
07/17/95	15:34:04	11.35	0.05	0.000	0.14	0.14
07/17/95	15:34:05	11.36	0.06	0.000	0.15	0.15
07/17/95	15:34:05	11.60	0.07	0.000	0.39	0.39
07/17/95	15:34:06	11.74	0.07	0.000	0.53	0.53
07/17/95	15:34:06	11.90	0.08	0.000	0.69	0.69
07/17/95	15:34:07	12.02	0.09	0.000	0.81	0.81
07/17/95	15:34:07	11.95	0.10	0.000	0.74	0.74
07/17/95	15:34:08	11.79	0.11	0.000	0.58	0.58
07/17/95	15:34:08	11.65	0.12	0.000	0.44	0.44
07/17/95	15:34:09	11.53	0.12	0.000	0.32	0.32
07/17/95	15:34:09	11.48	0.13	0.000	0.27	0.27
07/17/95	15:34:10	11.43	0.14	0.000	0.22	0.22
07/17/95	15:34:10	11.41	0.15	0.000	0.20	0.20
07/17/95	15:34:11	11.34	0.16	0.000	0.13	0.13
07/17/95	15:34:12	11.36	0.17	0.000	0.15	0.15
07/17/95	15:34:12	11.34	0.17	0.000	0.13	0.13
07/17/95	15:34:12	11.32	0.18	0.000	0.11	0.11
07/17/95	15:34:13	11.32	0.19	0.000	0.11	0.11
07/17/95	15:34:13	11.31	0.20	0.000	0.10	0.10
07/17/95	15:34:14	11.30	0.21	0.000	0.09	0.09
07/17/95	15:34:14	11.29	0.22	0.000	0.08	0.08
07/17/95	15:34:15	11.29	0.22	0.000	0.08	0.08
07/17/95	15:34:15	11.28	0.23	0.000	0.07	0.07
07/17/95	15:34:16	11.28	0.24	0.000	0.07	0.07
07/17/95	15:34:16	11.27	0.25	0.000	0.06	0.06
07/17/95	15:34:17	11.27	0.26	0.000	0.06	0.06
07/17/95	15:34:17	11.27	0.27	0.000	0.06	0.06
07/17/95	15:34:18	11.27	0.27	0.000	0.06	0.06

=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:34:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	15:34:18	11.26	0.28	0.000	0.05	0.05
07/17/95	15:34:19	11.26	0.29	0.000	0.05	0.05
07/17/95	15:34:19	11.26	0.30	0.000	0.05	0.05
07/17/95	15:34:20	11.25	0.31	0.000	0.04	0.04
07/17/95	15:34:21	11.25	0.32	0.000	0.04	0.04
07/17/95	15:34:21	11.25	0.32	0.000	0.04	0.04
07/17/95	15:34:22	11.25	0.34	0.000	0.04	0.04
07/17/95	15:34:23	11.25	0.36	0.000	0.04	0.04
07/17/95	15:34:24	11.25	0.37	0.000	0.04	0.04
07/17/95	15:34:25	11.24	0.39	0.000	0.03	0.03
07/17/95	15:34:26	11.24	0.41	0.000	0.03	0.03
07/17/95	15:34:27	11.24	0.42	0.000	0.03	0.03
07/17/95	15:34:28	11.24	0.44	0.000	0.02	0.02
07/17/95	15:34:29	11.24	0.46	0.000	0.02	0.02
07/17/95	15:34:30	11.24	0.48	0.000	0.02	0.02
07/17/95	15:34:31	11.24	0.49	0.000	0.02	0.02
07/17/95	15:34:32	11.24	0.51	0.000	0.02	0.02
07/17/95	15:34:33	11.23	0.52	0.000	0.02	0.02
07/17/95	15:34:34	11.24	0.54	0.000	0.02	0.02
07/17/95	15:34:35	11.24	0.56	0.000	0.02	0.02
07/17/95	15:34:36	11.24	0.57	0.000	0.02	0.02
07/17/95	15:34:37	11.24	0.59	0.000	0.02	0.02
07/17/95	15:34:38	11.21	0.61	0.000	0.00	0.00
07/17/95	15:34:39	11.20	0.63	0.000	-0.01	-0.01
07/17/95	15:34:40	11.21	0.64	0.000	0.00	0.00
07/17/95	15:34:41	11.22	0.66	0.000	0.01	0.01
07/17/95	15:34:42	11.23	0.67	0.000	0.02	0.02
07/17/95	15:34:43	11.25	0.69	0.000	0.04	0.04
07/17/95	15:34:44	11.24	0.71	0.000	0.02	0.02
07/17/95	15:34:45	11.23	0.72	0.001	0.02	0.02
07/17/95	15:34:46	11.23	0.74	0.001	0.02	0.02
07/17/95	15:34:47	11.23	0.76	0.001	0.02	0.02
07/17/95	15:34:48	11.22	0.78	0.001	0.01	0.01
07/17/95	15:34:49	11.23	0.79	0.001	0.02	0.02
07/17/95	15:34:50	11.24	0.81	0.001	0.02	0.02

=====

SITE: NMPC ONEIDA

WELL: ES-1

TIME OF SLUG INJ/WITH =

15:34:01 MILITARY TIME

STATIC WATER LEVEL =

11.21 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	15:34:51	11.22	0.82	0.001	0.01	0.01
07/17/95	15:34:52	11.22	0.84	0.001	0.01	0.01
07/17/95	15:34:53	11.22	0.86	0.001	0.01	0.01
07/17/95	15:34:54	11.22	0.87	0.001	0.01	0.01
07/17/95	15:34:55	11.22	0.89	0.001	0.01	0.01
07/17/95	15:34:56	11.22	0.91	0.001	0.01	0.01
07/17/95	15:34:57	11.22	0.93	0.001	0.01	0.01
07/17/95	15:34:58	11.22	0.94	0.001	0.01	0.01
07/17/95	15:34:59	11.22	0.96	0.001	0.01	0.01
07/17/95	15:35:00	11.22	0.97	0.001	0.01	0.01
07/17/95	15:35:01	11.22	0.99	0.001	0.01	0.01
07/17/95	15:35:13	11.22	1.19	0.001	0.01	0.01
07/17/95	15:35:25	11.22	1.39	0.001	0.01	0.01
07/17/95	15:35:37	11.22	1.59	0.001	0.01	0.01
07/17/95	15:35:49	11.22	1.79	0.001	0.01	0.01
07/17/95	15:36:01	11.21	1.99	0.001	0.00	0.00

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:46:01 MILITARY TIME

STATIC WATER LEVEL =

9.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

131

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:46:01	9.87	-0.01	-0.000	0.00	0.00
07/20/95	11:46:01	9.88	0.00	0.000	-0.01	-0.01
07/20/95	11:46:02	9.88	0.01	0.000	-0.01	-0.01
07/20/95	11:46:03	9.59	0.02	0.000	0.28	0.28
07/20/95	11:46:03	9.22	0.02	0.000	0.65	0.65
07/20/95	11:46:03	9.08	0.03	0.000	0.79	0.79
07/20/95	11:46:04	9.08	0.04	0.000	0.79	0.79
07/20/95	11:46:04	8.44	0.05	0.000	1.43	1.43
07/20/95	11:46:05	8.85	0.06	0.000	1.02	1.02
07/20/95	11:46:06	8.62	0.07	0.000	1.25	1.25
07/20/95	11:46:06	7.70	0.07	0.000	2.17	2.17
07/20/95	11:46:06	9.35	0.08	0.000	0.52	0.52
07/20/95	11:46:07	8.13	0.09	0.000	1.74	1.74
07/20/95	11:46:07	8.62	0.10	0.000	1.25	1.25
07/20/95	11:46:08	7.59	0.11	0.000	2.28	2.28
07/20/95	11:46:09	8.92	0.12	0.000	0.95	0.95
07/20/95	11:46:09	7.27	0.12	0.000	2.60	2.60
07/20/95	11:46:09	9.91	0.13	0.000	-0.04	-0.04
07/20/95	11:46:10	8.05	0.14	0.000	1.83	1.83
07/20/95	11:46:10	9.00	0.15	0.000	0.87	0.87
07/20/95	11:46:11	8.45	0.16	0.000	1.42	1.42
07/20/95	11:46:12	8.68	0.17	0.000	1.19	1.19
07/20/95	11:46:12	8.58	0.17	0.000	1.29	1.29
07/20/95	11:46:12	8.64	0.18	0.000	1.23	1.23
07/20/95	11:46:13	8.62	0.19	0.000	1.25	1.25
07/20/95	11:46:13	8.63	0.20	0.000	1.24	1.24
07/20/95	11:46:14	8.64	0.21	0.000	1.23	1.23
07/20/95	11:46:15	8.64	0.22	0.000	1.23	1.23
07/20/95	11:46:15	8.64	0.22	0.000	1.23	1.23
07/20/95	11:46:15	8.65	0.23	0.000	1.22	1.22
07/20/95	11:46:16	8.66	0.24	0.000	1.21	1.21
07/20/95	11:46:16	8.66	0.25	0.000	1.21	1.21
07/20/95	11:46:17	8.67	0.26	0.000	1.20	1.20
07/20/95	11:46:17	8.68	0.27	0.000	1.19	1.19
07/20/95	11:46:18	8.68	0.27	0.000	1.19	1.19

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:46:01 MILITARY TIME

STATIC WATER LEVEL =

9.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

131

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:46:18	8.68	0.28	0.000	1.19	1.19
07/20/95	11:46:19	8.69	0.29	0.000	1.18	1.18
07/20/95	11:46:19	8.69	0.30	0.000	1.18	1.18
07/20/95	11:46:20	8.69	0.31	0.000	1.18	1.18
07/20/95	11:46:21	8.70	0.32	0.000	1.17	1.17
07/20/95	11:46:21	8.71	0.32	0.000	1.16	1.16
07/20/95	11:46:22	8.68	0.34	0.000	1.19	1.19
07/20/95	11:46:23	8.71	0.36	0.000	1.16	1.16
07/20/95	11:46:24	8.72	0.37	0.000	1.15	1.15
07/20/95	11:46:25	8.73	0.39	0.000	1.14	1.14
07/20/95	11:46:26	8.73	0.41	0.000	1.14	1.14
07/20/95	11:46:27	8.74	0.42	0.000	1.13	1.13
07/20/95	11:46:28	8.75	0.44	0.000	1.13	1.13
07/20/95	11:46:29	8.76	0.46	0.000	1.11	1.11
07/20/95	11:46:30	8.77	0.48	0.000	1.10	1.10
07/20/95	11:46:31	8.77	0.49	0.000	1.10	1.10
07/20/95	11:46:32	8.78	0.51	0.000	1.09	1.09
07/20/95	11:46:33	8.79	0.52	0.000	1.08	1.08
07/20/95	11:46:34	8.79	0.54	0.000	1.08	1.08
07/20/95	11:46:35	8.80	0.56	0.000	1.07	1.07
07/20/95	11:46:36	8.80	0.57	0.000	1.07	1.07
07/20/95	11:46:37	8.81	0.59	0.000	1.06	1.06
07/20/95	11:46:38	8.81	0.61	0.000	1.06	1.06
07/20/95	11:46:39	8.82	0.63	0.000	1.05	1.05
07/20/95	11:46:40	8.84	0.64	0.000	1.03	1.03
07/20/95	11:46:41	8.85	0.66	0.000	1.02	1.02
07/20/95	11:46:42	8.85	0.67	0.000	1.02	1.02
07/20/95	11:46:43	8.86	0.69	0.000	1.01	1.01
07/20/95	11:46:44	8.87	0.71	0.000	1.01	1.01
07/20/95	11:46:45	8.87	0.72	0.001	1.00	1.00
07/20/95	11:46:46	8.88	0.74	0.001	0.99	0.99
07/20/95	11:46:47	8.88	0.76	0.001	0.99	0.99
07/20/95	11:46:48	8.89	0.78	0.001	0.98	0.98
07/20/95	11:46:49	8.90	0.79	0.001	0.97	0.97
07/20/95	11:46:50	8.90	0.81	0.001	0.97	0.97

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:46:01 MILITARY TIME

STATIC WATER LEVEL =

9.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

131

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:46:51	8.90	0.82	0.001	0.97	0.97
07/20/95	11:46:52	8.91	0.84	0.001	0.96	0.96
07/20/95	11:46:53	8.92	0.86	0.001	0.95	0.95
07/20/95	11:46:54	8.91	0.87	0.001	0.96	0.96
07/20/95	11:46:55	8.91	0.89	0.001	0.96	0.96
07/20/95	11:46:56	8.92	0.91	0.001	0.95	0.95
07/20/95	11:46:57	8.93	0.93	0.001	0.94	0.94
07/20/95	11:46:58	8.93	0.94	0.001	0.94	0.94
07/20/95	11:46:59	8.94	0.96	0.001	0.93	0.93
07/20/95	11:47:00	8.94	0.97	0.001	0.93	0.93
07/20/95	11:47:01	8.95	0.99	0.001	0.92	0.92
07/20/95	11:47:13	9.02	1.19	0.001	0.85	0.85
07/20/95	11:47:25	9.06	1.39	0.001	0.81	0.81
07/20/95	11:47:37	9.12	1.59	0.001	0.75	0.75
07/20/95	11:47:49	9.16	1.79	0.001	0.71	0.71
07/20/95	11:48:01	9.19	1.99	0.001	0.68	0.68
07/20/95	11:48:13	9.23	2.19	0.002	0.64	0.64
07/20/95	11:48:25	9.26	2.39	0.002	0.61	0.61
07/20/95	11:48:37	9.29	2.59	0.002	0.59	0.59
07/20/95	11:48:49	9.30	2.79	0.002	0.57	0.57
07/20/95	11:49:01	9.33	2.99	0.002	0.54	0.54
07/20/95	11:49:13	9.36	3.19	0.002	0.52	0.52
07/20/95	11:49:25	9.37	3.39	0.002	0.50	0.50
07/20/95	11:49:37	9.39	3.59	0.002	0.48	0.48
07/20/95	11:49:49	9.41	3.79	0.003	0.46	0.46
07/20/95	11:50:01	9.42	3.99	0.003	0.45	0.45
07/20/95	11:50:13	9.43	4.19	0.003	0.44	0.44
07/20/95	11:50:25	9.45	4.39	0.003	0.42	0.42
07/20/95	11:50:37	9.46	4.59	0.003	0.41	0.41
07/20/95	11:50:49	9.48	4.79	0.003	0.39	0.39
07/20/95	11:51:01	9.48	4.99	0.003	0.39	0.39
07/20/95	11:51:13	9.50	5.19	0.004	0.38	0.38
07/20/95	11:51:25	9.50	5.39	0.004	0.37	0.37
07/20/95	11:51:37	9.51	5.59	0.004	0.36	0.36
07/20/95	11:51:49	9.52	5.79	0.004	0.35	0.35

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:46:01 MILITARY TIME

STATIC WATER LEVEL =

9.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

131

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:52:01	9.54	5.99	0.004	0.33	0.33
07/20/95	11:52:13	9.54	6.19	0.004	0.33	0.33
07/20/95	11:52:25	9.55	6.39	0.004	0.32	0.32
07/20/95	11:52:37	9.56	6.59	0.005	0.31	0.31
07/20/95	11:52:49	9.56	6.79	0.005	0.31	0.31
07/20/95	11:53:01	9.56	6.99	0.005	0.31	0.31
07/20/95	11:53:13	9.57	7.19	0.005	0.30	0.30
07/20/95	11:53:25	9.58	7.39	0.005	0.29	0.29
07/20/95	11:53:37	9.58	7.59	0.005	0.29	0.29
07/20/95	11:53:49	9.58	7.79	0.005	0.29	0.29
07/20/95	11:54:01	9.59	7.99	0.006	0.28	0.28
07/20/95	11:54:13	9.60	8.19	0.006	0.27	0.27
07/20/95	11:54:25	9.60	8.39	0.006	0.27	0.27
07/20/95	11:54:37	9.60	8.59	0.006	0.27	0.27
07/20/95	11:54:49	9.60	8.79	0.006	0.27	0.27
07/20/95	11:55:01	9.61	8.99	0.006	0.26	0.26
07/20/95	11:55:13	9.61	9.19	0.006	0.26	0.26
07/20/95	11:55:25	9.62	9.39	0.007	0.26	0.26
07/20/95	11:55:37	9.62	9.59	0.007	0.26	0.26
07/20/95	11:55:49	9.62	9.79	0.007	0.26	0.26
07/20/95	11:56:01	9.62	9.99	0.007	0.25	0.25
07/20/95	11:58:01	9.65	11.99	0.008	0.22	0.22
07/20/95	12:00:01	9.67	13.99	0.010	0.20	0.20
07/20/95	12:02:01	9.69	15.99	0.011	0.18	0.18
07/20/95	12:04:01	9.70	17.99	0.012	0.17	0.17
07/20/95	12:06:01	9.72	19.99	0.014	0.15	0.15

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:04:01 MILITARY TIME

STATIC WATER LEVEL =

9.73 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

140

INJECTION/WITHDRAWAL (1/2):

2

=====

							RESIDUAL CORRECTED
DATE	TIME	DTW	t	t	IH/DD	IH/DD	
	(24 HOUR)	(FT)	(MINS)	(DAYS)	(FT)	(FT)	
07/20/95	11:04:01	9.73	-0.01	-0.000	0.00	0.00	
07/20/95	11:04:01	11.05	0.00	0.000	1.32	1.32	
07/20/95	11:04:02	9.78	0.01	0.000	0.05	0.05	
07/20/95	11:04:03	9.99	0.02	0.000	0.26	0.26	
07/20/95	11:04:03	9.84	0.02	0.000	0.11	0.11	
07/20/95	11:04:03	9.72	0.03	0.000	-0.01	-0.01	
07/20/95	11:04:04	10.65	0.04	0.000	0.92	0.92	
07/20/95	11:04:04	10.97	0.05	0.000	1.24	1.24	
07/20/95	11:04:05	11.34	0.06	0.000	1.61	1.61	
07/20/95	11:04:05	11.24	0.07	0.000	1.51	1.51	
07/20/95	11:04:06	11.24	0.07	0.000	1.51	1.51	
07/20/95	11:04:06	11.25	0.08	0.000	1.52	1.52	
07/20/95	11:04:07	11.24	0.09	0.000	1.51	1.51	
07/20/95	11:04:07	11.22	0.10	0.000	1.49	1.49	
07/20/95	11:04:08	11.21	0.11	0.000	1.48	1.48	
07/20/95	11:04:08	11.25	0.12	0.000	1.52	1.52	
07/20/95	11:04:09	11.20	0.12	0.000	1.47	1.47	
07/20/95	11:04:09	11.19	0.13	0.000	1.46	1.46	
07/20/95	11:04:10	11.19	0.14	0.000	1.46	1.46	
07/20/95	11:04:10	11.18	0.15	0.000	1.45	1.45	
07/20/95	11:04:11	11.17	0.16	0.000	1.44	1.44	
07/20/95	11:04:12	11.17	0.17	0.000	1.44	1.44	
07/20/95	11:04:12	11.15	0.17	0.000	1.42	1.42	
07/20/95	11:04:12	11.15	0.18	0.000	1.42	1.42	
07/20/95	11:04:13	11.15	0.19	0.000	1.42	1.42	
07/20/95	11:04:13	11.14	0.20	0.000	1.41	1.41	
07/20/95	11:04:14	11.13	0.21	0.000	1.40	1.40	
07/20/95	11:04:14	11.13	0.22	0.000	1.40	1.40	
07/20/95	11:04:15	11.12	0.22	0.000	1.39	1.39	
07/20/95	11:04:15	11.12	0.23	0.000	1.39	1.39	
07/20/95	11:04:16	11.11	0.24	0.000	1.38	1.38	
07/20/95	11:04:16	11.11	0.25	0.000	1.38	1.38	
07/20/95	11:04:17	11.10	0.26	0.000	1.37	1.37	
07/20/95	11:04:17	11.10	0.27	0.000	1.37	1.37	
07/20/95	11:04:18	11.09	0.27	0.000	1.36	1.36	

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:04:01 MILITARY TIME

STATIC WATER LEVEL =

9.73 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

140

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:04:18	11.08	0.28	0.000	1.35	1.35
07/20/95	11:04:19	11.08	0.29	0.000	1.35	1.35
07/20/95	11:04:19	11.08	0.30	0.000	1.35	1.35
07/20/95	11:04:20	11.07	0.31	0.000	1.34	1.34
07/20/95	11:04:21	11.06	0.32	0.000	1.33	1.33
07/20/95	11:04:21	11.06	0.32	0.000	1.33	1.33
07/20/95	11:04:22	11.06	0.34	0.000	1.33	1.33
07/20/95	11:04:23	11.05	0.36	0.000	1.32	1.32
07/20/95	11:04:24	11.04	0.37	0.000	1.31	1.31
07/20/95	11:04:25	11.03	0.39	0.000	1.30	1.30
07/20/95	11:04:26	11.01	0.41	0.000	1.28	1.28
07/20/95	11:04:27	11.00	0.42	0.000	1.27	1.27
07/20/95	11:04:28	10.99	0.44	0.000	1.26	1.26
07/20/95	11:04:29	10.98	0.46	0.000	1.25	1.25
07/20/95	11:04:30	10.98	0.48	0.000	1.25	1.25
07/20/95	11:04:31	10.97	0.49	0.000	1.24	1.24
07/20/95	11:04:32	10.96	0.51	0.000	1.23	1.23
07/20/95	11:04:33	10.96	0.52	0.000	1.23	1.23
07/20/95	11:04:34	10.95	0.54	0.000	1.22	1.22
07/20/95	11:04:35	10.94	0.56	0.000	1.21	1.21
07/20/95	11:04:36	10.93	0.57	0.000	1.20	1.20
07/20/95	11:04:37	10.94	0.59	0.000	1.21	1.21
07/20/95	11:04:38	10.92	0.61	0.000	1.19	1.19
07/20/95	11:04:39	10.92	0.63	0.000	1.19	1.19
07/20/95	11:04:40	10.91	0.64	0.000	1.18	1.18
07/20/95	11:04:41	10.90	0.66	0.000	1.17	1.17
07/20/95	11:04:42	10.89	0.67	0.000	1.16	1.16
07/20/95	11:04:43	10.89	0.69	0.000	1.16	1.16
07/20/95	11:04:44	10.88	0.71	0.000	1.15	1.15
07/20/95	11:04:45	10.87	0.72	0.001	1.14	1.14
07/20/95	11:04:46	10.87	0.74	0.001	1.14	1.14
07/20/95	11:04:47	10.86	0.76	0.001	1.13	1.13
07/20/95	11:04:48	10.85	0.78	0.001	1.12	1.12
07/20/95	11:04:49	10.85	0.79	0.001	1.12	1.12
07/20/95	11:04:50	10.84	0.81	0.001	1.11	1.11

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:04:01 MILITARY TIME

STATIC WATER LEVEL =

9.73 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

140

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED			
			t (MINS)	t (DAYS)	IH/DD (FT)	IH/DD (FT)
07/20/95	11:04:51	10.84	0.82	0.001	1.11	1.11
07/20/95	11:04:52	10.83	0.84	0.001	1.10	1.10
07/20/95	11:04:53	10.82	0.86	0.001	1.09	1.09
07/20/95	11:04:54	10.82	0.87	0.001	1.09	1.09
07/20/95	11:04:55	10.81	0.89	0.001	1.08	1.08
07/20/95	11:04:56	10.81	0.91	0.001	1.08	1.08
07/20/95	11:04:57	10.80	0.93	0.001	1.07	1.07
07/20/95	11:04:58	10.80	0.94	0.001	1.07	1.07
07/20/95	11:04:59	10.79	0.96	0.001	1.06	1.06
07/20/95	11:05:00	10.78	0.97	0.001	1.05	1.05
07/20/95	11:05:01	10.78	0.99	0.001	1.05	1.05
07/20/95	11:05:13	10.71	1.19	0.001	0.98	0.98
07/20/95	11:05:25	10.66	1.39	0.001	0.93	0.93
07/20/95	11:05:37	10.60	1.59	0.001	0.87	0.87
07/20/95	11:05:49	10.56	1.79	0.001	0.83	0.83
07/20/95	11:06:01	10.51	1.99	0.001	0.78	0.78
07/20/95	11:06:13	10.49	2.19	0.002	0.76	0.76
07/20/95	11:06:25	10.45	2.39	0.002	0.72	0.72
07/20/95	11:06:37	10.42	2.59	0.002	0.69	0.69
07/20/95	11:06:49	10.38	2.79	0.002	0.65	0.65
07/20/95	11:07:01	10.36	2.99	0.002	0.63	0.63
07/20/95	11:07:13	10.33	3.19	0.002	0.60	0.60
07/20/95	11:07:25	10.30	3.39	0.002	0.57	0.57
07/20/95	11:07:37	10.28	3.59	0.002	0.55	0.55
07/20/95	11:07:49	10.26	3.79	0.003	0.53	0.53
07/20/95	11:08:01	10.24	3.99	0.003	0.51	0.51
07/20/95	11:08:13	10.22	4.19	0.003	0.49	0.49
07/20/95	11:08:25	10.22	4.39	0.003	0.49	0.49
07/20/95	11:08:37	10.21	4.59	0.003	0.48	0.48
07/20/95	11:08:49	10.19	4.79	0.003	0.46	0.46
07/20/95	11:09:01	10.17	4.99	0.003	0.44	0.44
07/20/95	11:09:13	10.16	5.19	0.004	0.43	0.43
07/20/95	11:09:25	10.16	5.39	0.004	0.43	0.43
07/20/95	11:09:37	10.14	5.59	0.004	0.41	0.41
07/20/95	11:09:49	10.13	5.79	0.004	0.40	0.40

=====

SITE: NMPC ONEIDA

WELL: ES-2

TIME OF SLUG INJ/WITH =

11:04:01 MILITARY TIME

STATIC WATER LEVEL =

9.73 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

140

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	11:10:01	10.12	5.99	0.004	0.39	0.39
07/20/95	11:10:13	10.12	6.19	0.004	0.39	0.39
07/20/95	11:10:25	10.10	6.39	0.004	0.37	0.37
07/20/95	11:10:37	10.10	6.59	0.005	0.37	0.37
07/20/95	11:10:49	10.09	6.79	0.005	0.36	0.36
07/20/95	11:11:01	10.08	6.99	0.005	0.35	0.35
07/20/95	11:11:13	10.08	7.19	0.005	0.35	0.35
07/20/95	11:11:25	10.07	7.39	0.005	0.34	0.34
07/20/95	11:11:37	10.07	7.59	0.005	0.34	0.34
07/20/95	11:11:49	10.06	7.79	0.005	0.33	0.33
07/20/95	11:12:01	10.05	7.99	0.006	0.32	0.32
07/20/95	11:12:13	10.05	8.19	0.006	0.32	0.32
07/20/95	11:12:25	10.04	8.39	0.006	0.31	0.31
07/20/95	11:12:37	10.04	8.59	0.006	0.31	0.31
07/20/95	11:12:49	10.04	8.79	0.006	0.31	0.31
07/20/95	11:13:01	10.03	8.99	0.006	0.30	0.30
07/20/95	11:13:13	10.03	9.19	0.006	0.30	0.30
07/20/95	11:13:25	10.02	9.39	0.007	0.29	0.29
07/20/95	11:13:37	10.02	9.59	0.007	0.29	0.29
07/20/95	11:13:49	10.02	9.79	0.007	0.29	0.29
07/20/95	11:14:01	10.00	9.99	0.007	0.27	0.27
07/20/95	11:16:01	9.98	11.99	0.008	0.25	0.25
07/20/95	11:18:01	9.96	13.99	0.010	0.23	0.23
07/20/95	11:20:01	9.94	15.99	0.011	0.21	0.21
07/20/95	11:22:01	9.93	17.99	0.012	0.20	0.20
07/20/95	11:24:01	9.91	19.99	0.014	0.18	0.18
07/20/95	11:26:01	9.91	21.99	0.015	0.18	0.18
07/20/95	11:28:01	9.90	23.99	0.017	0.17	0.17
07/20/95	11:30:01	9.89	25.99	0.018	0.16	0.16
07/20/95	11:32:01	9.88	27.99	0.019	0.15	0.15
07/20/95	11:34:01	9.88	29.99	0.021	0.15	0.15
07/20/95	11:36:01	9.87	31.99	0.022	0.14	0.14
07/20/95	11:38:01	9.87	33.99	0.024	0.14	0.14
07/20/95	11:40:01	9.87	35.99	0.025	0.14	0.14
07/20/95	11:42:01	9.86	37.99	0.026	0.13	0.13

=====

SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:13:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

92

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:13:00	11.29	-0.01	-0.000	0.00	0.00
07/20/95	10:13:00	11.29	0.00	0.000	0.00	0.00
07/20/95	10:13:01	11.30	0.01	0.000	-0.01	-0.01
07/20/95	10:13:02	11.29	0.02	0.000	0.00	0.00
07/20/95	10:13:02	11.30	0.02	0.000	-0.01	-0.01
07/20/95	10:13:02	10.27	0.03	0.000	1.02	1.02
07/20/95	10:13:03	10.94	0.04	0.000	0.35	0.35
07/20/95	10:13:03	10.01	0.05	0.000	1.28	1.28
07/20/95	10:13:04	9.37	0.06	0.000	1.92	1.92
07/20/95	10:13:05	10.61	0.07	0.000	0.68	0.68
07/20/95	10:13:05	9.43	0.07	0.000	1.86	1.86
07/20/95	10:13:05	9.77	0.08	0.000	1.52	1.52
07/20/95	10:13:06	10.86	0.09	0.000	0.43	0.43
07/20/95	10:13:06	9.80	0.10	0.000	1.49	1.49
07/20/95	10:13:07	10.34	0.11	0.000	0.95	0.95
07/20/95	10:13:08	10.12	0.12	0.000	1.17	1.17
07/20/95	10:13:08	10.26	0.12	0.000	1.03	1.03
07/20/95	10:13:08	10.21	0.13	0.000	1.09	1.09
07/20/95	10:13:09	10.27	0.14	0.000	1.02	1.02
07/20/95	10:13:09	10.27	0.15	0.000	1.02	1.02
07/20/95	10:13:10	10.29	0.16	0.000	1.00	1.00
07/20/95	10:13:11	10.31	0.17	0.000	0.98	0.98
07/20/95	10:13:11	10.33	0.17	0.000	0.97	0.97
07/20/95	10:13:11	10.34	0.18	0.000	0.95	0.95
07/20/95	10:13:12	10.36	0.19	0.000	0.93	0.93
07/20/95	10:13:12	10.37	0.20	0.000	0.92	0.92
07/20/95	10:13:13	10.39	0.21	0.000	0.90	0.90
07/20/95	10:13:14	10.40	0.22	0.000	0.89	0.89
07/20/95	10:13:14	10.42	0.22	0.000	0.87	0.87
07/20/95	10:13:14	10.43	0.23	0.000	0.86	0.86
07/20/95	10:13:15	10.43	0.24	0.000	0.86	0.86
07/20/95	10:13:15	10.45	0.25	0.000	0.84	0.84
07/20/95	10:13:16	10.48	0.26	0.000	0.81	0.81
07/20/95	10:13:16	10.48	0.27	0.000	0.81	0.81
07/20/95	10:13:17	10.50	0.27	0.000	0.79	0.79

=====

SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:13:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

92

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:13:17	10.51	0.28	0.000	0.78	0.78
07/20/95	10:13:18	10.52	0.29	0.000	0.77	0.77
07/20/95	10:13:18	10.54	0.30	0.000	0.76	0.76
07/20/95	10:13:19	10.55	0.31	0.000	0.74	0.74
07/20/95	10:13:20	10.57	0.32	0.000	0.72	0.72
07/20/95	10:13:20	10.58	0.32	0.000	0.71	0.71
07/20/95	10:13:21	10.59	0.34	0.000	0.70	0.70
07/20/95	10:13:22	10.61	0.36	0.000	0.68	0.68
07/20/95	10:13:23	10.64	0.37	0.000	0.65	0.65
07/20/95	10:13:24	10.66	0.39	0.000	0.64	0.64
07/20/95	10:13:25	10.67	0.41	0.000	0.62	0.62
07/20/95	10:13:26	10.70	0.42	0.000	0.59	0.59
07/20/95	10:13:27	10.71	0.44	0.000	0.58	0.58
07/20/95	10:13:28	10.74	0.46	0.000	0.55	0.55
07/20/95	10:13:29	10.76	0.48	0.000	0.53	0.53
07/20/95	10:13:30	10.77	0.49	0.000	0.52	0.52
07/20/95	10:13:31	10.79	0.51	0.000	0.50	0.50
07/20/95	10:13:32	10.81	0.52	0.000	0.48	0.48
07/20/95	10:13:33	10.82	0.54	0.000	0.47	0.47
07/20/95	10:13:34	10.83	0.56	0.000	0.46	0.46
07/20/95	10:13:35	10.85	0.57	0.000	0.44	0.44
07/20/95	10:13:36	10.86	0.59	0.000	0.43	0.43
07/20/95	10:13:37	10.88	0.61	0.000	0.41	0.41
07/20/95	10:13:38	10.89	0.63	0.000	0.40	0.40
07/20/95	10:13:39	10.91	0.64	0.000	0.38	0.38
07/20/95	10:13:40	10.92	0.66	0.000	0.37	0.37
07/20/95	10:13:41	10.93	0.67	0.000	0.36	0.36
07/20/95	10:13:42	10.95	0.69	0.000	0.34	0.34
07/20/95	10:13:43	10.96	0.71	0.000	0.33	0.33
07/20/95	10:13:44	10.97	0.72	0.001	0.32	0.32
07/20/95	10:13:45	10.97	0.74	0.001	0.32	0.32
07/20/95	10:13:46	10.99	0.76	0.001	0.31	0.31
07/20/95	10:13:47	11.00	0.78	0.001	0.29	0.29
07/20/95	10:13:48	11.00	0.79	0.001	0.29	0.29
07/20/95	10:13:49	11.01	0.81	0.001	0.28	0.28

=====

SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:13:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

92

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:13:50	11.02	0.82	0.001	0.27	0.27
07/20/95	10:13:51	11.03	0.84	0.001	0.26	0.26
07/20/95	10:13:52	11.04	0.86	0.001	0.25	0.25
07/20/95	10:13:53	11.05	0.87	0.001	0.24	0.24
07/20/95	10:13:54	11.06	0.89	0.001	0.23	0.23
07/20/95	10:13:55	11.06	0.91	0.001	0.23	0.23
07/20/95	10:13:56	11.07	0.93	0.001	0.22	0.22
07/20/95	10:13:57	11.08	0.94	0.001	0.21	0.21
07/20/95	10:13:58	11.08	0.96	0.001	0.21	0.21
07/20/95	10:13:59	11.09	0.97	0.001	0.20	0.20
07/20/95	10:14:00	11.10	0.99	0.001	0.19	0.19
07/20/95	10:14:12	11.17	1.19	0.001	0.12	0.12
07/20/95	10:14:24	11.21	1.39	0.001	0.08	0.08
07/20/95	10:14:36	11.24	1.59	0.001	0.05	0.05
07/20/95	10:14:48	11.25	1.79	0.001	0.04	0.04
07/20/95	10:15:00	11.26	1.99	0.001	0.03	0.03
07/20/95	10:15:12	11.28	2.19	0.002	0.01	0.01
07/20/95	10:15:24	11.28	2.39	0.002	0.01	0.01
07/20/95	10:15:36	11.28	2.59	0.002	0.01	0.01
07/20/95	10:15:48	11.28	2.79	0.002	0.01	0.01
07/20/95	10:16:00	11.28	2.99	0.002	0.01	0.01
07/20/95	10:16:12	11.30	3.19	0.002	-0.01	-0.01

=====

SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:06:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

93

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:06:00	11.29	-0.01	-0.000	0.00	0.00
07/20/95	10:06:00	11.30	0.00	0.000	0.01	0.01
07/20/95	10:06:01	11.33	0.01	0.000	0.04	0.04
07/20/95	10:06:02	11.29	0.02	0.000	0.00	0.00
07/20/95	10:06:02	11.22	0.02	0.000	-0.07	-0.07
07/20/95	10:06:02	10.90	0.03	0.000	-0.39	-0.39
07/20/95	10:06:03	12.01	0.04	0.000	0.72	0.72
07/20/95	10:06:03	12.65	0.05	0.000	1.36	1.36
07/20/95	10:06:04	12.53	0.06	0.000	1.24	1.24
07/20/95	10:06:05	12.72	0.07	0.000	1.43	1.43
07/20/95	10:06:05	12.68	0.07	0.000	1.39	1.39
07/20/95	10:06:05	12.65	0.08	0.000	1.36	1.36
07/20/95	10:06:06	12.63	0.09	0.000	1.34	1.34
07/20/95	10:06:06	12.60	0.10	0.000	1.31	1.31
07/20/95	10:06:07	12.58	0.11	0.000	1.29	1.29
07/20/95	10:06:07	12.56	0.12	0.000	1.27	1.27
07/20/95	10:06:08	12.53	0.12	0.000	1.24	1.24
07/20/95	10:06:08	12.52	0.13	0.000	1.23	1.23
07/20/95	10:06:09	12.51	0.14	0.000	1.22	1.22
07/20/95	10:06:09	12.45	0.15	0.000	1.16	1.16
07/20/95	10:06:10	12.48	0.16	0.000	1.19	1.19
07/20/95	10:06:11	12.46	0.17	0.000	1.17	1.17
07/20/95	10:06:11	12.44	0.17	0.000	1.15	1.15
07/20/95	10:06:11	12.42	0.18	0.000	1.13	1.13
07/20/95	10:06:12	12.40	0.19	0.000	1.11	1.11
07/20/95	10:06:12	12.38	0.20	0.000	1.09	1.09
07/20/95	10:06:13	12.37	0.21	0.000	1.08	1.08
07/20/95	10:06:14	12.35	0.22	0.000	1.06	1.06
07/20/95	10:06:14	12.34	0.22	0.000	1.05	1.05
07/20/95	10:06:14	12.32	0.23	0.000	1.03	1.03
07/20/95	10:06:15	12.30	0.24	0.000	1.01	1.01
07/20/95	10:06:15	12.29	0.25	0.000	1.00	1.00
07/20/95	10:06:16	12.27	0.26	0.000	0.98	0.98
07/20/95	10:06:16	12.26	0.27	0.000	0.97	0.97
07/20/95	10:06:17	12.25	0.27	0.000	0.96	0.96

=====

SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:06:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

93

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:06:17	12.23	0.28	0.000	0.94	0.94
07/20/95	10:06:18	12.22	0.29	0.000	0.93	0.93
07/20/95	10:06:18	12.20	0.30	0.000	0.91	0.91
07/20/95	10:06:19	12.19	0.31	0.000	0.90	0.90
07/20/95	10:06:20	12.18	0.32	0.000	0.89	0.89
07/20/95	10:06:20	12.17	0.32	0.000	0.88	0.88
07/20/95	10:06:21	12.14	0.34	0.000	0.85	0.85
07/20/95	10:06:22	12.11	0.36	0.000	0.82	0.82
07/20/95	10:06:23	12.09	0.37	0.000	0.80	0.80
07/20/95	10:06:24	12.06	0.39	0.000	0.77	0.77
07/20/95	10:06:25	12.04	0.41	0.000	0.75	0.75
07/20/95	10:06:26	12.03	0.42	0.000	0.73	0.73
07/20/95	10:06:27	11.96	0.44	0.000	0.67	0.67
07/20/95	10:06:28	11.98	0.46	0.000	0.69	0.69
07/20/95	10:06:29	11.96	0.48	0.000	0.67	0.67
07/20/95	10:06:30	11.94	0.49	0.000	0.65	0.65
07/20/95	10:06:31	11.92	0.51	0.000	0.63	0.63
07/20/95	10:06:32	11.91	0.52	0.000	0.61	0.61
07/20/95	10:06:33	11.89	0.54	0.000	0.60	0.60
07/20/95	10:06:34	11.87	0.56	0.000	0.58	0.58
07/20/95	10:06:35	11.85	0.57	0.000	0.56	0.56
07/20/95	10:06:36	11.84	0.59	0.000	0.55	0.55
07/20/95	10:06:37	11.82	0.61	0.000	0.53	0.53
07/20/95	10:06:38	11.80	0.63	0.000	0.51	0.51
07/20/95	10:06:39	11.79	0.64	0.000	0.50	0.50
07/20/95	10:06:40	11.77	0.66	0.000	0.48	0.48
07/20/95	10:06:41	11.76	0.67	0.000	0.47	0.47
07/20/95	10:06:42	11.75	0.69	0.000	0.46	0.46
07/20/95	10:06:43	11.73	0.71	0.000	0.44	0.44
07/20/95	10:06:44	11.72	0.72	0.001	0.43	0.43
07/20/95	10:06:45	11.70	0.74	0.001	0.40	0.40
07/20/95	10:06:46	11.68	0.76	0.001	0.39	0.39
07/20/95	10:06:47	11.67	0.78	0.001	0.38	0.38
07/20/95	10:06:48	11.66	0.79	0.001	0.37	0.37
07/20/95	10:06:49	11.65	0.81	0.001	0.36	0.36

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SITE: NMPC ONEIDA

WELL: ES-3

TIME OF SLUG INJ/WITH =

10:06:00 MILITARY TIME

STATIC WATER LEVEL =

11.29 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

93

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	10:06:50	11.64	0.82	0.001	0.35	0.35
07/20/95	10:06:51	11.63	0.84	0.001	0.34	0.34
07/20/95	10:06:52	11.61	0.86	0.001	0.32	0.32
07/20/95	10:06:53	11.61	0.87	0.001	0.32	0.32
07/20/95	10:06:54	11.59	0.89	0.001	0.30	0.30
07/20/95	10:06:55	11.59	0.91	0.001	0.30	0.30
07/20/95	10:06:56	11.58	0.93	0.001	0.29	0.29
07/20/95	10:06:57	11.57	0.94	0.001	0.28	0.28
07/20/95	10:06:58	11.56	0.96	0.001	0.27	0.27
07/20/95	10:06:59	11.55	0.97	0.001	0.26	0.26
07/20/95	10:07:00	11.54	0.99	0.001	0.25	0.25
07/20/95	10:07:12	11.48	1.19	0.001	0.19	0.19
07/20/95	10:07:24	11.42	1.39	0.001	0.13	0.13
07/20/95	10:07:36	11.37	1.59	0.001	0.08	0.08
07/20/95	10:07:48	11.35	1.79	0.001	0.06	0.06
07/20/95	10:08:00	11.34	1.99	0.001	0.05	0.05
07/20/95	10:08:12	11.32	2.19	0.002	0.03	0.03
07/20/95	10:08:24	11.32	2.39	0.002	0.02	0.02
07/20/95	10:08:36	11.30	2.59	0.002	0.01	0.01
07/20/95	10:08:48	11.30	2.79	0.002	0.01	0.01
07/20/95	10:09:00	11.30	2.99	0.002	0.01	0.01
07/20/95	10:09:12	11.31	3.19	0.002	0.02	0.02
07/20/95	10:09:24	11.30	3.39	0.002	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

13:37:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

133

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	13:37:00	10.30	-0.01	-0.000	0.00	0.00
07/17/95	13:37:00	10.30	0.00	0.000	0.00	0.00
07/17/95	13:37:01	10.31	0.01	0.000	-0.01	-0.01
07/17/95	13:37:02	10.30	0.02	0.000	0.00	0.00
07/17/95	13:37:02	10.11	0.02	0.000	0.19	0.19
07/17/95	13:37:02	9.83	0.03	0.000	0.47	0.47
07/17/95	13:37:03	9.57	0.04	0.000	0.73	0.73
07/17/95	13:37:03	9.44	0.05	0.000	0.86	0.86
07/17/95	13:37:04	9.24	0.06	0.000	1.07	1.07
07/17/95	13:37:05	9.05	0.07	0.000	1.25	1.25
07/17/95	13:37:05	9.07	0.07	0.000	1.23	1.23
07/17/95	13:37:05	8.66	0.08	0.000	1.65	1.65
07/17/95	13:37:06	8.90	0.09	0.000	1.40	1.40
07/17/95	13:37:06	9.15	0.10	0.000	1.15	1.15
07/17/95	13:37:07	8.56	0.11	0.000	1.74	1.74
07/17/95	13:37:07	9.53	0.12	0.000	0.77	0.77
07/17/95	13:37:08	8.67	0.12	0.000	1.63	1.63
07/17/95	13:37:08	8.60	0.13	0.000	1.70	1.70
07/17/95	13:37:09	9.56	0.14	0.000	0.74	0.74
07/17/95	13:37:09	8.72	0.15	0.000	1.58	1.58
07/17/95	13:37:10	8.89	0.16	0.000	1.41	1.41
07/17/95	13:37:11	8.95	0.17	0.000	1.35	1.35
07/17/95	13:37:11	9.15	0.17	0.000	1.15	1.15
07/17/95	13:37:11	9.00	0.18	0.000	1.30	1.30
07/17/95	13:37:12	8.74	0.19	0.000	1.56	1.56
07/17/95	13:37:12	9.37	0.20	0.000	0.93	0.93
07/17/95	13:37:13	8.89	0.21	0.000	1.41	1.41
07/17/95	13:37:14	9.14	0.22	0.000	1.16	1.16
07/17/95	13:37:14	8.91	0.22	0.000	1.39	1.39
07/17/95	13:37:14	9.07	0.23	0.000	1.24	1.24
07/17/95	13:37:15	9.13	0.24	0.000	1.17	1.17
07/17/95	13:37:15	9.07	0.25	0.000	1.24	1.24
07/17/95	13:37:16	9.14	0.26	0.000	1.16	1.16
07/17/95	13:37:16	9.01	0.27	0.000	1.29	1.29
07/17/95	13:37:17	9.12	0.27	0.000	1.19	1.19

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

13:37:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

133

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	13:37:17	9.08	0.28	0.000	1.22	1.22
07/17/95	13:37:18	9.12	0.29	0.000	1.18	1.18
07/17/95	13:37:18	9.14	0.30	0.000	1.16	1.16
07/17/95	13:37:19	9.17	0.31	0.000	1.13	1.13
07/17/95	13:37:20	9.15	0.32	0.000	1.15	1.15
07/17/95	13:37:20	9.17	0.32	0.000	1.14	1.14
07/17/95	13:37:21	9.17	0.34	0.000	1.14	1.14
07/17/95	13:37:22	9.17	0.36	0.000	1.13	1.13
07/17/95	13:37:23	9.18	0.37	0.000	1.12	1.12
07/17/95	13:37:24	9.18	0.39	0.000	1.12	1.12
07/17/95	13:37:25	9.19	0.41	0.000	1.11	1.11
07/17/95	13:37:26	9.19	0.42	0.000	1.11	1.11
07/17/95	13:37:27	9.20	0.44	0.000	1.10	1.10
07/17/95	13:37:28	9.20	0.46	0.000	1.10	1.10
07/17/95	13:37:29	9.21	0.48	0.000	1.09	1.09
07/17/95	13:37:30	9.21	0.49	0.000	1.09	1.09
07/17/95	13:37:31	9.22	0.51	0.000	1.08	1.08
07/17/95	13:37:32	9.22	0.52	0.000	1.08	1.08
07/17/95	13:37:33	9.22	0.54	0.000	1.08	1.08
07/17/95	13:37:34	9.23	0.56	0.000	1.07	1.07
07/17/95	13:37:35	9.24	0.57	0.000	1.07	1.07
07/17/95	13:37:36	9.24	0.59	0.000	1.07	1.07
07/17/95	13:37:37	9.24	0.61	0.000	1.06	1.06
07/17/95	13:37:38	9.25	0.63	0.000	1.05	1.05
07/17/95	13:37:39	9.20	0.64	0.000	1.10	1.10
07/17/95	13:37:40	9.24	0.66	0.000	1.07	1.07
07/17/95	13:37:41	9.25	0.67	0.000	1.05	1.05
07/17/95	13:37:42	9.25	0.69	0.000	1.05	1.05
07/17/95	13:37:43	9.25	0.71	0.000	1.05	1.05
07/17/95	13:37:44	9.27	0.72	0.001	1.03	1.03
07/17/95	13:37:45	9.26	0.74	0.001	1.04	1.04
07/17/95	13:37:46	9.27	0.76	0.001	1.03	1.03
07/17/95	13:37:47	9.29	0.78	0.001	1.02	1.02
07/17/95	13:37:48	9.29	0.79	0.001	1.01	1.01
07/17/95	13:37:49	9.29	0.81	0.001	1.01	1.01

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

13:37:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

133

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	13:37:50	9.25	0.82	0.001	1.05	1.05
07/17/95	13:37:51	9.25	0.84	0.001	1.05	1.05
07/17/95	13:37:52	9.26	0.86	0.001	1.04	1.04
07/17/95	13:37:53	9.27	0.87	0.001	1.03	1.03
07/17/95	13:37:54	9.27	0.89	0.001	1.03	1.03
07/17/95	13:37:55	9.32	0.91	0.001	0.98	0.98
07/17/95	13:37:56	9.32	0.93	0.001	0.98	0.98
07/17/95	13:37:57	9.33	0.94	0.001	0.97	0.97
07/17/95	13:37:58	9.34	0.96	0.001	0.96	0.96
07/17/95	13:37:59	9.34	0.97	0.001	0.96	0.96
07/17/95	13:38:00	9.34	0.99	0.001	0.96	0.96
07/17/95	13:38:12	9.38	1.19	0.001	0.92	0.92
07/17/95	13:38:24	9.41	1.39	0.001	0.90	0.90
07/17/95	13:38:36	9.46	1.59	0.001	0.84	0.84
07/17/95	13:38:48	9.47	1.79	0.001	0.83	0.83
07/17/95	13:39:00	9.51	1.99	0.001	0.79	0.79
07/17/95	13:39:12	9.55	2.19	0.002	0.75	0.75
07/17/95	13:39:24	9.58	2.39	0.002	0.72	0.72
07/17/95	13:39:36	9.59	2.59	0.002	0.71	0.71
07/17/95	13:39:48	9.63	2.79	0.002	0.68	0.68
07/17/95	13:40:00	9.64	2.99	0.002	0.66	0.66
07/17/95	13:40:12	9.67	3.19	0.002	0.63	0.63
07/17/95	13:40:24	9.70	3.39	0.002	0.61	0.61
07/17/95	13:40:36	9.72	3.59	0.002	0.58	0.58
07/17/95	13:40:48	9.73	3.79	0.003	0.57	0.57
07/17/95	13:41:00	9.76	3.99	0.003	0.54	0.54
07/17/95	13:41:12	9.78	4.19	0.003	0.52	0.52
07/17/95	13:41:24	9.81	4.39	0.003	0.49	0.49
07/17/95	13:41:36	9.83	4.59	0.003	0.47	0.47
07/17/95	13:41:48	9.84	4.79	0.003	0.46	0.46
07/17/95	13:42:00	9.83	4.99	0.003	0.47	0.47
07/17/95	13:42:12	9.87	5.19	0.004	0.44	0.44
07/17/95	13:42:24	9.89	5.39	0.004	0.41	0.41
07/17/95	13:42:36	9.91	5.59	0.004	0.39	0.39
07/17/95	13:42:48	9.92	5.79	0.004	0.38	0.38

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

13:37:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

133

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	13:43:00	9.93	5.99	0.004	0.37	0.37
07/17/95	13:43:12	9.95	6.19	0.004	0.35	0.35
07/17/95	13:43:24	9.96	6.39	0.004	0.34	0.34
07/17/95	13:43:36	9.97	6.59	0.005	0.33	0.33
07/17/95	13:43:48	9.98	6.79	0.005	0.32	0.32
07/17/95	13:44:00	9.99	6.99	0.005	0.31	0.31
07/17/95	13:44:12	10.00	7.19	0.005	0.30	0.30
07/17/95	13:44:24	10.01	7.39	0.005	0.29	0.29
07/17/95	13:44:36	10.02	7.59	0.005	0.28	0.28
07/17/95	13:44:48	10.03	7.79	0.005	0.27	0.27
07/17/95	13:45:00	10.05	7.99	0.006	0.25	0.25
07/17/95	13:45:12	10.05	8.19	0.006	0.25	0.25
07/17/95	13:45:24	10.05	8.39	0.006	0.25	0.25
07/17/95	13:45:36	10.06	8.59	0.006	0.24	0.24
07/17/95	13:45:48	10.06	8.79	0.006	0.24	0.24
07/17/95	13:46:00	10.08	8.99	0.006	0.22	0.22
07/17/95	13:46:12	10.08	9.19	0.006	0.22	0.22
07/17/95	13:46:24	10.09	9.39	0.007	0.21	0.21
07/17/95	13:46:36	10.10	9.59	0.007	0.20	0.20
07/17/95	13:46:48	10.10	9.79	0.007	0.20	0.20
07/17/95	13:47:00	10.10	9.99	0.007	0.20	0.20
07/17/95	13:49:00	10.16	11.99	0.008	0.15	0.15
07/17/95	13:51:00	10.19	13.99	0.010	0.11	0.11
07/17/95	13:53:00	10.22	15.99	0.011	0.08	0.08
07/17/95	13:55:00	10.25	17.99	0.012	0.05	0.05
07/17/95	13:57:00	10.25	19.99	0.014	0.05	0.05
07/17/95	13:59:00	10.27	21.99	0.015	0.03	0.03
07/17/95	14:01:00	10.27	23.99	0.017	0.03	0.03

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:45:00	10.30	-0.01	-0.000	0.00	0.00
07/17/95	11:45:00	10.28	0.00	0.000	-0.02	-0.02
07/17/95	11:45:01	10.34	0.01	0.000	0.04	0.04
07/17/95	11:45:01	10.44	0.02	0.000	0.14	0.14
07/17/95	11:45:02	9.84	0.02	0.000	-0.46	-0.46
07/17/95	11:45:02	10.89	0.03	0.000	0.59	0.59
07/17/95	11:45:03	9.61	0.04	0.000	-0.69	-0.69
07/17/95	11:45:03	11.31	0.05	0.000	1.01	1.01
07/17/95	11:45:04	9.73	0.06	0.000	-0.57	-0.57
07/17/95	11:45:04	11.11	0.07	0.000	0.81	0.81
07/17/95	11:45:05	10.05	0.07	0.000	-0.25	-0.25
07/17/95	11:45:05	10.27	0.08	0.000	-0.03	-0.03
07/17/95	11:45:06	10.74	0.09	0.000	0.44	0.44
07/17/95	11:45:06	10.36	0.10	0.000	0.06	0.06
07/17/95	11:45:07	10.24	0.11	0.000	-0.06	-0.06
07/17/95	11:45:07	11.02	0.12	0.000	0.72	0.72
07/17/95	11:45:08	10.96	0.12	0.000	0.66	0.66
07/17/95	11:45:08	11.30	0.13	0.000	0.99	0.99
07/17/95	11:45:09	11.55	0.14	0.000	1.25	1.25
07/17/95	11:45:09	11.76	0.15	0.000	1.46	1.46
07/17/95	11:45:10	11.82	0.16	0.000	1.52	1.52
07/17/95	11:45:10	11.81	0.17	0.000	1.51	1.51
07/17/95	11:45:11	11.80	0.17	0.000	1.50	1.50
07/17/95	11:45:11	11.79	0.18	0.000	1.49	1.49
07/17/95	11:45:12	11.79	0.19	0.000	1.49	1.49
07/17/95	11:45:12	11.79	0.20	0.000	1.49	1.49
07/17/95	11:45:13	11.77	0.21	0.000	1.47	1.47
07/17/95	11:45:13	11.76	0.22	0.000	1.46	1.46
07/17/95	11:45:14	11.76	0.22	0.000	1.46	1.46
07/17/95	11:45:14	11.76	0.23	0.000	1.46	1.46
07/17/95	11:45:15	11.76	0.24	0.000	1.46	1.46
07/17/95	11:45:15	11.75	0.25	0.000	1.45	1.45
07/17/95	11:45:16	11.74	0.26	0.000	1.44	1.44
07/17/95	11:45:16	11.74	0.27	0.000	1.44	1.44
07/17/95	11:45:17	11.74	0.27	0.000	1.44	1.44

=====

SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:45:17	11.74	0.28	0.000	1.44	1.44
07/17/95	11:45:18	11.73	0.29	0.000	1.43	1.43
07/17/95	11:45:18	11.73	0.30	0.000	1.43	1.43
07/17/95	11:45:19	11.73	0.31	0.000	1.43	1.43
07/17/95	11:45:19	11.72	0.32	0.000	1.42	1.42
07/17/95	11:45:20	11.72	0.32	0.000	1.42	1.42
07/17/95	11:45:21	11.72	0.34	0.000	1.42	1.42
07/17/95	11:45:22	11.71	0.36	0.000	1.41	1.41
07/17/95	11:45:23	11.70	0.37	0.000	1.40	1.40
07/17/95	11:45:24	11.70	0.39	0.000	1.40	1.40
07/17/95	11:45:25	11.69	0.41	0.000	1.39	1.39
07/17/95	11:45:26	11.69	0.42	0.000	1.39	1.39
07/17/95	11:45:27	11.69	0.44	0.000	1.39	1.39
07/17/95	11:45:28	11.67	0.46	0.000	1.37	1.37
07/17/95	11:45:29	11.67	0.48	0.000	1.37	1.37
07/17/95	11:45:30	11.67	0.49	0.000	1.37	1.37
07/17/95	11:45:31	11.67	0.51	0.000	1.37	1.37
07/17/95	11:45:32	11.66	0.52	0.000	1.36	1.36
07/17/95	11:45:33	11.65	0.54	0.000	1.35	1.35
07/17/95	11:45:34	11.65	0.56	0.000	1.35	1.35
07/17/95	11:45:35	11.65	0.57	0.000	1.35	1.35
07/17/95	11:45:36	11.65	0.59	0.000	1.35	1.35
07/17/95	11:45:37	11.64	0.61	0.000	1.34	1.34
07/17/95	11:45:38	11.64	0.63	0.000	1.34	1.34
07/17/95	11:45:39	11.64	0.64	0.000	1.34	1.34
07/17/95	11:45:40	11.64	0.66	0.000	1.34	1.34
07/17/95	11:45:41	11.63	0.67	0.000	1.33	1.33
07/17/95	11:45:42	11.62	0.69	0.000	1.32	1.32
07/17/95	11:45:43	11.62	0.71	0.000	1.32	1.32
07/17/95	11:45:44	11.62	0.72	0.001	1.32	1.32
07/17/95	11:45:45	11.62	0.74	0.001	1.32	1.32
07/17/95	11:45:46	11.62	0.76	0.001	1.32	1.32
07/17/95	11:45:47	11.58	0.78	0.001	1.28	1.28
07/17/95	11:45:48	11.60	0.79	0.001	1.30	1.30
07/17/95	11:45:49	11.59	0.81	0.001	1.29	1.29

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SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

					RESIDUAL CORRECTED	
DATE	TIME	DTW	t	t	IH/DD	IH/DD
	(24 HOUR)	(FT)	(MINS)	(DAYS)	(FT)	(FT)
07/17/95	11:45:50	11.59	0.82	0.001	1.29	1.29
07/17/95	11:45:51	11.59	0.84	0.001	1.29	1.29
07/17/95	11:45:52	11.59	0.86	0.001	1.29	1.29
07/17/95	11:45:53	11.58	0.87	0.001	1.28	1.28
07/17/95	11:45:54	11.58	0.89	0.001	1.28	1.28
07/17/95	11:45:55	11.58	0.91	0.001	1.28	1.28
07/17/95	11:45:56	11.57	0.93	0.001	1.27	1.27
07/17/95	11:45:57	11.57	0.94	0.001	1.27	1.27
07/17/95	11:45:58	11.57	0.96	0.001	1.27	1.27
07/17/95	11:45:59	11.57	0.97	0.001	1.27	1.27
07/17/95	11:46:00	11.56	0.99	0.001	1.26	1.26
07/17/95	11:46:12	11.55	1.19	0.001	1.25	1.25
07/17/95	11:46:24	11.52	1.39	0.001	1.22	1.22
07/17/95	11:46:36	11.49	1.59	0.001	1.19	1.19
07/17/95	11:46:48	11.45	1.79	0.001	1.15	1.15
07/17/95	11:47:00	11.41	1.99	0.001	1.11	1.11
07/17/95	11:47:12	11.40	2.19	0.002	1.10	1.10
07/17/95	11:47:24	11.37	2.39	0.002	1.07	1.07
07/17/95	11:47:36	11.35	2.59	0.002	1.05	1.05
07/17/95	11:47:48	11.33	2.79	0.002	1.03	1.03
07/17/95	11:48:00	11.30	2.99	0.002	0.99	0.99
07/17/95	11:48:12	11.27	3.19	0.002	0.97	0.97
07/17/95	11:48:24	11.25	3.39	0.002	0.95	0.95
07/17/95	11:48:36	11.23	3.59	0.002	0.93	0.93
07/17/95	11:48:48	11.21	3.79	0.003	0.91	0.91
07/17/95	11:49:00	11.19	3.99	0.003	0.89	0.89
07/17/95	11:49:12	11.17	4.19	0.003	0.87	0.87
07/17/95	11:49:24	11.15	4.39	0.003	0.85	0.85
07/17/95	11:49:36	11.13	4.59	0.003	0.83	0.83
07/17/95	11:49:48	11.12	4.79	0.003	0.82	0.82
07/17/95	11:50:00	11.09	4.99	0.003	0.79	0.79
07/17/95	11:50:12	11.09	5.19	0.004	0.79	0.79
07/17/95	11:50:24	11.07	5.39	0.004	0.77	0.77
07/17/95	11:50:36	11.06	5.59	0.004	0.76	0.76
07/17/95	11:50:48	11.04	5.79	0.004	0.74	0.74

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SITE: NMPC ONEIDA

WELL: ES-4

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.30 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:51:00	11.02	5.99	0.004	0.72	0.72
07/17/95	11:51:12	11.01	6.19	0.004	0.71	0.71
07/17/95	11:51:24	10.99	6.39	0.004	0.69	0.69
07/17/95	11:51:36	10.97	6.59	0.005	0.67	0.67
07/17/95	11:51:48	10.96	6.79	0.005	0.66	0.66
07/17/95	11:52:00	10.95	6.99	0.005	0.65	0.65
07/17/95	11:52:12	10.93	7.19	0.005	0.63	0.63
07/17/95	11:52:24	10.92	7.39	0.005	0.62	0.62
07/17/95	11:52:36	10.90	7.59	0.005	0.60	0.60
07/17/95	11:52:48	10.89	7.79	0.005	0.59	0.59
07/17/95	11:53:00	10.87	7.99	0.006	0.57	0.57
07/17/95	11:53:12	10.86	8.19	0.006	0.56	0.56
07/17/95	11:53:24	10.85	8.39	0.006	0.55	0.55
07/17/95	11:53:36	10.84	8.59	0.006	0.54	0.54
07/17/95	11:53:48	10.82	8.79	0.006	0.52	0.52
07/17/95	11:54:00	10.81	8.99	0.006	0.51	0.51
07/17/95	11:54:12	10.80	9.19	0.006	0.50	0.50
07/17/95	11:54:24	10.79	9.39	0.007	0.49	0.49
07/17/95	11:54:36	10.78	9.59	0.007	0.48	0.48
07/17/95	11:54:48	10.77	9.79	0.007	0.47	0.47
07/17/95	11:55:00	10.75	9.99	0.007	0.45	0.45
07/17/95	11:57:00	10.67	11.99	0.008	0.36	0.36
07/17/95	11:59:00	10.60	13.99	0.010	0.30	0.30
07/17/95	12:01:00	10.54	15.99	0.011	0.24	0.24
07/17/95	12:03:00	10.48	17.99	0.012	0.18	0.18
07/17/95	12:05:00	10.44	19.99	0.014	0.14	0.14
07/17/95	12:07:00	10.42	21.99	0.015	0.12	0.12
07/17/95	12:09:00	10.37	23.99	0.017	0.07	0.07
07/17/95	12:11:00	10.37	25.99	0.018	0.07	0.07
07/17/95	12:13:00	10.35	27.99	0.019	0.05	0.05
07/17/95	12:15:00	10.33	29.99	0.021	0.03	0.03

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SITE: NMPC ONEIDA

WELL: ES-4S

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:45:00	10.87	-0.01	-0.000	0.00	0.00
07/17/95	11:45:00	10.86	0.00	0.000	-0.01	-0.01
07/17/95	11:45:01	10.87	0.01	0.000	0.00	0.00
07/17/95	11:45:01	10.88	0.02	0.000	0.01	0.01
07/17/95	11:45:02	10.95	0.02	0.000	0.08	0.08
07/17/95	11:45:02	10.74	0.03	0.000	-0.13	-0.13
07/17/95	11:45:03	10.79	0.04	0.000	-0.08	-0.08
07/17/95	11:45:03	11.06	0.05	0.000	0.19	0.19
07/17/95	11:45:04	11.17	0.06	0.000	0.30	0.30
07/17/95	11:45:04	11.32	0.07	0.000	0.45	0.45
07/17/95	11:45:05	11.38	0.07	0.000	0.51	0.51
07/17/95	11:45:05	11.40	0.08	0.000	0.53	0.53
07/17/95	11:45:06	11.28	0.09	0.000	0.41	0.41
07/17/95	11:45:06	11.19	0.10	0.000	0.32	0.32
07/17/95	11:45:07	11.14	0.11	0.000	0.27	0.27
07/17/95	11:45:07	11.08	0.12	0.000	0.21	0.21
07/17/95	11:45:08	11.04	0.12	0.000	0.17	0.17
07/17/95	11:45:08	11.01	0.13	0.000	0.14	0.14
07/17/95	11:45:09	11.00	0.14	0.000	0.13	0.13
07/17/95	11:45:09	10.97	0.15	0.000	0.10	0.10
07/17/95	11:45:10	10.95	0.16	0.000	0.08	0.08
07/17/95	11:45:10	10.94	0.17	0.000	0.07	0.07
07/17/95	11:45:11	10.93	0.17	0.000	0.06	0.06
07/17/95	11:45:11	10.93	0.18	0.000	0.06	0.06
07/17/95	11:45:12	10.92	0.19	0.000	0.05	0.05
07/17/95	11:45:12	10.91	0.20	0.000	0.04	0.04
07/17/95	11:45:13	10.91	0.21	0.000	0.04	0.04
07/17/95	11:45:13	10.91	0.22	0.000	0.04	0.04
07/17/95	11:45:14	10.91	0.22	0.000	0.04	0.04
07/17/95	11:45:14	10.90	0.23	0.000	0.03	0.03
07/17/95	11:45:15	10.90	0.24	0.000	0.03	0.03
07/17/95	11:45:15	10.90	0.25	0.000	0.03	0.03
07/17/95	11:45:16	10.90	0.26	0.000	0.03	0.03
07/17/95	11:45:16	10.90	0.27	0.000	0.03	0.03
07/17/95	11:45:17	10.90	0.27	0.000	0.03	0.03

=====

SITE: NMPC ONEIDA

WELL: ES-4S

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:45:17	10.90	0.28	0.000	0.03	0.03
07/17/95	11:45:18	10.90	0.29	0.000	0.03	0.03
07/17/95	11:45:18	10.90	0.30	0.000	0.03	0.03
07/17/95	11:45:19	10.90	0.31	0.000	0.03	0.03
07/17/95	11:45:19	10.89	0.32	0.000	0.02	0.02
07/17/95	11:45:20	10.89	0.32	0.000	0.02	0.02
07/17/95	11:45:21	10.89	0.34	0.000	0.02	0.02
07/17/95	11:45:22	10.89	0.36	0.000	0.02	0.02
07/17/95	11:45:23	10.89	0.37	0.000	0.02	0.02
07/17/95	11:45:24	10.89	0.39	0.000	0.02	0.02
07/17/95	11:45:25	10.89	0.41	0.000	0.02	0.02
07/17/95	11:45:26	10.89	0.42	0.000	0.02	0.02
07/17/95	11:45:27	10.89	0.44	0.000	0.02	0.02
07/17/95	11:45:28	10.88	0.46	0.000	0.01	0.01
07/17/95	11:45:29	10.88	0.48	0.000	0.01	0.01
07/17/95	11:45:30	10.89	0.49	0.000	0.02	0.02
07/17/95	11:45:31	10.88	0.51	0.000	0.01	0.01
07/17/95	11:45:32	10.88	0.52	0.000	0.01	0.01
07/17/95	11:45:33	10.88	0.54	0.000	0.01	0.01
07/17/95	11:45:34	10.88	0.56	0.000	0.01	0.01
07/17/95	11:45:35	10.88	0.57	0.000	0.01	0.01
07/17/95	11:45:36	10.88	0.59	0.000	0.01	0.01
07/17/95	11:45:37	10.88	0.61	0.000	0.01	0.01
07/17/95	11:45:38	10.88	0.63	0.000	0.01	0.01
07/17/95	11:45:39	10.85	0.64	0.000	-0.02	-0.02
07/17/95	11:45:40	10.88	0.66	0.000	0.01	0.01
07/17/95	11:45:41	10.89	0.67	0.000	0.02	0.02
07/17/95	11:45:42	10.89	0.69	0.000	0.02	0.02
07/17/95	11:45:43	10.88	0.71	0.000	0.01	0.01
07/17/95	11:45:44	10.88	0.72	0.001	0.01	0.01
07/17/95	11:45:45	10.88	0.74	0.001	0.01	0.01
07/17/95	11:45:46	10.88	0.76	0.001	0.01	0.01
07/17/95	11:45:47	10.88	0.78	0.001	0.01	0.01
07/17/95	11:45:48	10.88	0.79	0.001	0.01	0.01
07/17/95	11:45:49	10.87	0.81	0.001	0.00	0.00

=====

SITE: NMPC ONEIDA

WELL: ES-4S

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:45:50	10.88	0.82	0.001	0.01	0.01
07/17/95	11:45:51	10.88	0.84	0.001	0.01	0.01
07/17/95	11:45:52	10.89	0.86	0.001	0.02	0.02
07/17/95	11:45:53	10.88	0.87	0.001	0.01	0.01
07/17/95	11:45:54	10.88	0.89	0.001	0.01	0.01
07/17/95	11:45:55	10.86	0.91	0.001	-0.01	-0.01
07/17/95	11:45:56	10.86	0.93	0.001	-0.01	-0.01
07/17/95	11:45:57	10.86	0.94	0.001	-0.01	-0.01
07/17/95	11:45:58	10.86	0.96	0.001	-0.01	-0.01
07/17/95	11:45:59	10.84	0.97	0.001	-0.03	-0.03
07/17/95	11:46:00	10.88	0.99	0.001	0.01	0.01
07/17/95	11:46:12	10.88	1.19	0.001	0.01	0.01
07/17/95	11:46:24	10.88	1.39	0.001	0.01	0.01
07/17/95	11:46:36	10.89	1.59	0.001	0.02	0.02
07/17/95	11:46:48	10.88	1.79	0.001	0.01	0.01
07/17/95	11:47:00	10.87	1.99	0.001	0.00	0.00
07/17/95	11:47:12	10.88	2.19	0.002	0.01	0.01
07/17/95	11:47:24	10.88	2.39	0.002	0.01	0.01
07/17/95	11:47:36	10.88	2.59	0.002	0.01	0.01
07/17/95	11:47:48	10.88	2.79	0.002	0.01	0.01
07/17/95	11:48:00	10.88	2.99	0.002	0.01	0.01
07/17/95	11:48:12	10.88	3.19	0.002	0.01	0.01
07/17/95	11:48:24	10.88	3.39	0.002	0.01	0.01
07/17/95	11:48:36	10.88	3.59	0.002	0.01	0.01
07/17/95	11:48:48	10.88	3.79	0.003	0.01	0.01
07/17/95	11:49:00	10.88	3.99	0.003	0.01	0.01
07/17/95	11:49:12	10.88	4.19	0.003	0.01	0.01
07/17/95	11:49:24	10.88	4.39	0.003	0.01	0.01
07/17/95	11:49:36	10.88	4.59	0.003	0.01	0.01
07/17/95	11:49:48	10.88	4.79	0.003	0.01	0.01
07/17/95	11:50:00	10.88	4.99	0.003	0.01	0.01
07/17/95	11:50:12	10.88	5.19	0.004	0.01	0.01
07/17/95	11:50:24	10.88	5.39	0.004	0.01	0.01
07/17/95	11:50:36	10.88	5.59	0.004	0.01	0.01
07/17/95	11:50:48	10.88	5.79	0.004	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-4S

TIME OF SLUG INJ/WITH =

11:45:00 MILITARY TIME

STATIC WATER LEVEL =

10.87 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

136

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	11:51:00	10.88	5.99	0.004	0.01	0.01
07/17/95	11:51:12	10.88	6.19	0.004	0.01	0.01
07/17/95	11:51:24	10.88	6.39	0.004	0.01	0.01
07/17/95	11:51:36	10.88	6.59	0.005	0.01	0.01
07/17/95	11:51:48	10.88	6.79	0.005	0.01	0.01
07/17/95	11:52:00	10.88	6.99	0.005	0.01	0.01
07/17/95	11:52:12	10.88	7.19	0.005	0.01	0.01
07/17/95	11:52:24	10.88	7.39	0.005	0.01	0.01
07/17/95	11:52:36	10.88	7.59	0.005	0.01	0.01
07/17/95	11:52:48	10.88	7.79	0.005	0.01	0.01
07/17/95	11:53:00	10.88	7.99	0.006	0.01	0.01
07/17/95	11:53:12	10.88	8.19	0.006	0.01	0.01
07/17/95	11:53:24	10.86	8.39	0.006	-0.01	-0.01
07/17/95	11:53:36	10.87	8.59	0.006	0.00	0.00
07/17/95	11:53:48	10.88	8.79	0.006	0.01	0.01
07/17/95	11:54:00	10.88	8.99	0.006	0.01	0.01
07/17/95	11:54:12	10.88	9.19	0.006	0.01	0.01
07/17/95	11:54:24	10.88	9.39	0.007	0.01	0.01
07/17/95	11:54:36	10.88	9.59	0.007	0.01	0.01
07/17/95	11:54:48	10.88	9.79	0.007	0.01	0.01
07/17/95	11:55:00	10.88	9.99	0.007	0.01	0.01
07/17/95	11:57:00	10.89	11.99	0.008	0.02	0.02
07/17/95	11:59:00	10.88	13.99	0.010	0.01	0.01
07/17/95	12:01:00	10.88	15.99	0.011	0.01	0.01
07/17/95	12:03:00	10.90	17.99	0.012	0.03	0.03
07/17/95	12:05:00	10.88	19.99	0.014	0.01	0.01
07/17/95	12:07:00	10.88	21.99	0.015	0.01	0.01
07/17/95	12:09:00	10.89	23.99	0.017	0.02	0.02
07/17/95	12:11:00	10.89	25.99	0.018	0.02	0.02
07/17/95	12:13:00	10.90	27.99	0.019	0.03	0.03
07/17/95	12:15:00	10.89	29.99	0.021	0.02	0.02

=====

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:22:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	11:22:00	5.98	-0.01	-0.000	0.00	0.00
07/19/95	11:22:00	5.87	0.00	0.000	0.12	0.12
07/19/95	11:22:01	5.43	0.01	0.000	0.55	0.55
07/19/95	11:22:02	5.80	0.02	0.000	0.18	0.18
07/19/95	11:22:02	5.46	0.02	0.000	0.52	0.52
07/19/95	11:22:02	5.27	0.03	0.000	0.71	0.71
07/19/95	11:22:03	5.47	0.04	0.000	0.51	0.51
07/19/95	11:22:03	5.73	0.05	0.000	0.25	0.25
07/19/95	11:22:04	5.84	0.06	0.000	0.14	0.14
07/19/95	11:22:05	5.68	0.07	0.000	0.30	0.30
07/19/95	11:22:05	6.05	0.07	0.000	-0.07	-0.07
07/19/95	11:22:05	5.78	0.08	0.000	0.20	0.20
07/19/95	11:22:06	6.01	0.09	0.000	-0.03	-0.03
07/19/95	11:22:06	6.04	0.10	0.000	-0.06	-0.06
07/19/95	11:22:07	5.94	0.11	0.000	0.04	0.04
07/19/95	11:22:07	5.95	0.12	0.000	0.03	0.03
07/19/95	11:22:08	5.95	0.12	0.000	0.03	0.03
07/19/95	11:22:08	5.96	0.13	0.000	0.02	0.02
07/19/95	11:22:09	5.97	0.14	0.000	0.01	0.01
07/19/95	11:22:09	5.97	0.15	0.000	0.01	0.01
07/19/95	11:22:10	5.97	0.16	0.000	0.01	0.01
07/19/95	11:22:11	5.97	0.17	0.000	0.01	0.01
07/19/95	11:22:11	5.97	0.17	0.000	0.01	0.01
07/19/95	11:22:11	5.97	0.18	0.000	0.01	0.01
07/19/95	11:22:12	5.97	0.19	0.000	0.01	0.01
07/19/95	11:22:12	5.97	0.20	0.000	0.01	0.01
07/19/95	11:22:13	5.97	0.21	0.000	0.01	0.01
07/19/95	11:22:14	5.98	0.22	0.000	0.00	0.00
07/19/95	11:22:14	5.97	0.22	0.000	0.01	0.01
07/19/95	11:22:14	5.97	0.23	0.000	0.01	0.01
07/19/95	11:22:15	5.97	0.24	0.000	0.01	0.01
07/19/95	11:22:15	5.97	0.25	0.000	0.01	0.01
07/19/95	11:22:16	5.97	0.26	0.000	0.01	0.01
07/19/95	11:22:16	5.97	0.27	0.000	0.01	0.01
07/19/95	11:22:17	5.97	0.27	0.000	0.01	0.01

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:22:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (— = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

1

					RESIDUAL CORRECTED	
DATE	TIME	DTW	t	t	IH/DD	IH/DD
	(24 HOUR)	(FT)	(MINS)	(DAYS)	(FT)	(FT)
07/19/95	11:22:17	5.97	0.28	0.000	0.01	0.01
07/19/95	11:22:18	5.97	0.29	0.000	0.01	0.01
07/19/95	11:22:18	5.97	0.30	0.000	0.01	0.01
07/19/95	11:22:19	5.98	0.31	0.000	0.00	0.00
07/19/95	11:22:20	5.98	0.32	0.000	0.00	0.00
07/19/95	11:22:20	5.98	0.32	0.000	0.00	0.00
07/19/95	11:22:21	5.99	0.34	0.000	-0.01	-0.01
07/19/95	11:22:22	5.98	0.36	0.000	0.00	0.00
07/19/95	11:22:23	5.97	0.37	0.000	0.01	0.01
07/19/95	11:22:24	5.98	0.39	0.000	0.00	0.00
07/19/95	11:22:25	5.98	0.41	0.000	0.00	0.00
07/19/95	11:22:26	5.98	0.42	0.000	0.00	0.00
07/19/95	11:22:27	5.98	0.44	0.000	0.00	0.00
07/19/95	11:22:28	5.98	0.46	0.000	0.00	0.00
07/19/95	11:22:29	5.98	0.48	0.000	0.00	0.00
07/19/95	11:22:30	5.98	0.49	0.000	0.00	0.00
07/19/95	11:22:31	5.98	0.51	0.000	0.00	0.00
07/19/95	11:22:32	5.99	0.52	0.000	-0.01	-0.01
07/19/95	11:22:33	5.98	0.54	0.000	0.00	0.00
07/19/95	11:22:34	5.98	0.56	0.000	0.00	0.00
07/19/95	11:22:35	5.98	0.57	0.000	0.00	0.00
07/19/95	11:22:36	5.99	0.59	0.000	-0.01	-0.01
07/19/95	11:22:37	5.99	0.61	0.000	-0.01	-0.01
07/19/95	11:22:38	5.99	0.63	0.000	-0.01	-0.01
07/19/95	11:22:39	5.99	0.64	0.000	-0.01	-0.01
07/19/95	11:22:40	5.99	0.66	0.000	-0.01	-0.01
07/19/95	11:22:41	5.99	0.67	0.000	-0.01	-0.01
07/19/95	11:22:42	5.98	0.69	0.000	0.00	0.00
07/19/95	11:22:43	5.99	0.71	0.000	-0.01	-0.01
07/19/95	11:22:44	5.99	0.72	0.001	-0.01	-0.01
07/19/95	11:22:45	5.99	0.74	0.001	-0.01	-0.01
07/19/95	11:22:46	5.98	0.76	0.001	0.00	0.00
07/19/95	11:22:47	5.98	0.78	0.001	0.00	0.00
07/19/95	11:22:48	5.99	0.79	0.001	-0.01	-0.01
07/19/95	11:22:49	5.99	0.81	0.001	-0.01	-0.01

=====

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:22:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

1

=====

		RESIDUAL CORRECTED				
DATE	TIME	DTW	t	t	IH/DD	IH/DD
(24 HOUR)		(FT)	(MINS)	(DAYS)	(FT)	(FT)
07/19/95	11:22:50	5.99	0.82	0.001	-0.01	-0.01
07/19/95	11:22:51	5.99	0.84	0.001	-0.01	-0.01
07/19/95	11:22:52	5.99	0.86	0.001	-0.01	-0.01
07/19/95	11:22:53	5.99	0.87	0.001	-0.01	-0.01
07/19/95	11:22:54	5.99	0.89	0.001	-0.01	-0.01
07/19/95	11:22:55	5.99	0.91	0.001	-0.01	-0.01
07/19/95	11:22:56	5.98	0.93	0.001	0.00	0.00
07/19/95	11:22:57	5.98	0.94	0.001	0.00	0.00
07/19/95	11:22:58	5.99	0.96	0.001	-0.01	-0.01
07/19/95	11:22:59	5.99	0.97	0.001	-0.01	-0.01
07/19/95	11:23:00	5.99	0.99	0.001	-0.01	-0.01
07/19/95	11:23:12	5.99	1.19	0.001	-0.01	-0.01
07/19/95	11:23:24	5.99	1.39	0.001	-0.01	-0.01
07/19/95	11:23:36	5.99	1.59	0.001	-0.01	-0.01
07/19/95	11:23:48	5.99	1.79	0.001	-0.01	-0.01
07/19/95	11:24:00	5.99	1.99	0.001	-0.01	-0.01

=====

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:19:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

					RESIDUAL CORRECTED	
DATE	TIME	DTW	t	t	IH/DD	IH/DD
(24 HOUR)		(FT)	(MINS)	(DAYS)	(FT)	(FT)
07/19/95	11:19:00	5.98	-0.01	-0.000	0.00	0.00
07/19/95	11:19:00	6.14	0.00	0.000	0.16	0.16
07/19/95	11:19:01	5.85	0.01	0.000	-0.13	-0.13
07/19/95	11:19:01	6.31	0.02	0.000	0.33	0.33
07/19/95	11:19:02	6.37	0.02	0.000	0.39	0.39
07/19/95	11:19:02	6.44	0.03	0.000	0.46	0.46
07/19/95	11:19:03	6.52	0.04	0.000	0.54	0.54
07/19/95	11:19:03	6.40	0.05	0.000	0.42	0.42
07/19/95	11:19:04	6.27	0.06	0.000	0.29	0.29
07/19/95	11:19:04	6.12	0.07	0.000	0.14	0.14
07/19/95	11:19:05	6.12	0.07	0.000	0.14	0.14
07/19/95	11:19:05	6.03	0.08	0.000	0.05	0.05
07/19/95	11:19:06	6.05	0.09	0.000	0.07	0.07
07/19/95	11:19:06	6.03	0.10	0.000	0.05	0.05
07/19/95	11:19:07	6.02	0.11	0.000	0.04	0.04
07/19/95	11:19:07	6.01	0.12	0.000	0.03	0.03
07/19/95	11:19:08	6.00	0.12	0.000	0.02	0.02
07/19/95	11:19:08	6.00	0.13	0.000	0.02	0.02
07/19/95	11:19:09	6.00	0.14	0.000	0.02	0.02
07/19/95	11:19:09	5.99	0.15	0.000	0.01	0.01
07/19/95	11:19:10	5.99	0.16	0.000	0.01	0.01
07/19/95	11:19:10	5.99	0.17	0.000	0.01	0.01
07/19/95	11:19:11	5.94	0.17	0.000	-0.04	-0.04
07/19/95	11:19:11	5.98	0.18	0.000	0.00	0.00
07/19/95	11:19:12	5.96	0.19	0.000	-0.02	-0.02
07/19/95	11:19:12	5.98	0.20	0.000	0.00	0.00
07/19/95	11:19:13	5.98	0.21	0.000	0.00	0.00
07/19/95	11:19:13	5.98	0.22	0.000	0.00	0.00
07/19/95	11:19:14	5.98	0.22	0.000	0.00	0.00
07/19/95	11:19:14	5.98	0.23	0.000	0.00	0.00
07/19/95	11:19:15	5.99	0.24	0.000	0.01	0.01
07/19/95	11:19:15	5.98	0.25	0.000	0.00	0.00
07/19/95	11:19:16	5.98	0.26	0.000	0.00	0.00
07/19/95	11:19:16	5.98	0.27	0.000	0.00	0.00
07/19/95	11:19:17	5.98	0.27	0.000	0.00	0.00

=====

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:19:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	11:19:17	5.98	0.28	0.000	-0.00	-0.00
07/19/95	11:19:18	5.96	0.29	0.000	-0.02	-0.02
07/19/95	11:19:18	5.98	0.30	0.000	-0.00	-0.00
07/19/95	11:19:19	5.98	0.31	0.000	0.00	0.00
07/19/95	11:19:19	5.98	0.32	0.000	-0.00	-0.00
07/19/95	11:19:20	5.98	0.32	0.000	-0.00	-0.00
07/19/95	11:19:21	5.98	0.34	0.000	0.00	0.00
07/19/95	11:19:22	5.98	0.36	0.000	-0.00	-0.00
07/19/95	11:19:23	5.98	0.37	0.000	-0.00	-0.00
07/19/95	11:19:24	5.98	0.39	0.000	-0.00	-0.00
07/19/95	11:19:25	5.98	0.41	0.000	-0.00	-0.00
07/19/95	11:19:26	5.98	0.42	0.000	-0.00	-0.00
07/19/95	11:19:27	5.98	0.44	0.000	-0.00	-0.00
07/19/95	11:19:28	5.98	0.46	0.000	-0.00	-0.00
07/19/95	11:19:29	5.98	0.48	0.000	-0.00	-0.00
07/19/95	11:19:30	5.98	0.49	0.000	-0.00	-0.00
07/19/95	11:19:31	5.99	0.51	0.000	0.01	0.01
07/19/95	11:19:32	5.98	0.52	0.000	0.00	0.00
07/19/95	11:19:33	5.97	0.54	0.000	-0.01	-0.01
07/19/95	11:19:34	5.98	0.56	0.000	-0.00	-0.00
07/19/95	11:19:35	5.98	0.57	0.000	-0.00	-0.00
07/19/95	11:19:36	5.98	0.59	0.000	-0.00	-0.00
07/19/95	11:19:37	5.98	0.61	0.000	-0.00	-0.00
07/19/95	11:19:38	5.98	0.63	0.000	-0.00	-0.00
07/19/95	11:19:39	5.98	0.64	0.000	-0.00	-0.00
07/19/95	11:19:40	5.98	0.66	0.000	-0.00	-0.00
07/19/95	11:19:41	5.98	0.67	0.000	-0.00	-0.00
07/19/95	11:19:42	5.98	0.69	0.000	-0.00	-0.00
07/19/95	11:19:43	5.98	0.71	0.000	-0.00	-0.00
07/19/95	11:19:44	5.98	0.72	0.001	-0.00	-0.00
07/19/95	11:19:45	5.98	0.74	0.001	-0.00	-0.00
07/19/95	11:19:46	5.98	0.76	0.001	-0.00	-0.00
07/19/95	11:19:47	5.98	0.78	0.001	-0.00	-0.00
07/19/95	11:19:48	6.02	0.79	0.001	0.04	0.04
07/19/95	11:19:49	5.98	0.81	0.001	-0.00	-0.00

=====

SITE: NMPC ONEIDA

WELL: ES-5

TIME OF SLUG INJ/WITH =

11:19:00 MILITARY TIME

STATIC WATER LEVEL =

5.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

86

INJECTION/WITHDRAWAL (1/2):

2

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DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	11:19:50	5.98	0.82	0.001	-0.00	-0.00
07/19/95	11:19:51	5.98	0.84	0.001	-0.00	-0.00
07/19/95	11:19:52	5.98	0.86	0.001	-0.00	-0.00
07/19/95	11:19:53	5.98	0.87	0.001	-0.00	-0.00
07/19/95	11:19:54	5.97	0.89	0.001	-0.01	-0.01
07/19/95	11:19:55	5.97	0.91	0.001	-0.01	-0.01
07/19/95	11:19:56	5.98	0.93	0.001	-0.00	-0.00
07/19/95	11:19:57	5.98	0.94	0.001	-0.00	-0.00
07/19/95	11:19:58	5.98	0.96	0.001	-0.00	-0.00
07/19/95	11:19:59	5.98	0.97	0.001	-0.00	-0.00
07/19/95	11:20:00	5.99	0.99	0.001	0.01	0.01
07/19/95	11:20:12	5.98	1.19	0.001	-0.00	-0.00
07/19/95	11:20:24	5.98	1.39	0.001	-0.00	-0.00
07/19/95	11:20:36	5.98	1.59	0.001	-0.00	-0.00
07/19/95	11:20:48	5.98	1.79	0.001	-0.00	-0.00
07/19/95	11:21:00	5.98	1.99	0.001	-0.00	-0.00

=====

SITE: NMPC ONEIDA

WELL: ES-6

TIME OF SLUG INJ/WITH =

15:20:00 MILITARY TIME

STATIC WATER LEVEL =

9.58 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

91

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/18/95	15:20:00	9.58	-0.01	-0.000	0.00	0.00
07/18/95	15:20:00	9.61	0.00	0.000	0.03	0.03
07/18/95	15:20:01	9.77	0.01	0.000	0.19	0.19
07/18/95	15:20:02	10.03	0.02	0.000	0.45	0.45
07/18/95	15:20:02	10.10	0.02	0.000	0.52	0.52
07/18/95	15:20:02	10.22	0.03	0.000	0.64	0.64
07/18/95	15:20:03	10.28	0.04	0.000	0.70	0.70
07/18/95	15:20:03	10.35	0.05	0.000	0.77	0.77
07/18/95	15:20:04	10.20	0.06	0.000	0.62	0.62
07/18/95	15:20:05	10.11	0.07	0.000	0.53	0.53
07/18/95	15:20:05	10.03	0.07	0.000	0.45	0.45
07/18/95	15:20:05	9.97	0.08	0.000	0.39	0.39
07/18/95	15:20:06	9.93	0.09	0.000	0.35	0.35
07/18/95	15:20:06	9.91	0.10	0.000	0.33	0.33
07/18/95	15:20:07	9.88	0.11	0.000	0.30	0.30
07/18/95	15:20:07	9.86	0.12	0.000	0.28	0.28
07/18/95	15:20:08	9.84	0.12	0.000	0.26	0.26
07/18/95	15:20:08	9.83	0.13	0.000	0.25	0.25
07/18/95	15:20:09	9.85	0.14	0.000	0.27	0.27
07/18/95	15:20:09	9.83	0.15	0.000	0.25	0.25
07/18/95	15:20:10	9.80	0.16	0.000	0.22	0.22
07/18/95	15:20:11	9.79	0.17	0.000	0.21	0.21
07/18/95	15:20:11	9.79	0.17	0.000	0.21	0.21
07/18/95	15:20:11	9.78	0.18	0.000	0.20	0.20
07/18/95	15:20:12	9.77	0.19	0.000	0.19	0.19
07/18/95	15:20:12	9.77	0.20	0.000	0.19	0.19
07/18/95	15:20:13	9.76	0.21	0.000	0.18	0.18
07/18/95	15:20:14	9.76	0.22	0.000	0.18	0.18
07/18/95	15:20:14	9.76	0.22	0.000	0.18	0.18
07/18/95	15:20:14	9.75	0.23	0.000	0.17	0.17
07/18/95	15:20:15	9.74	0.24	0.000	0.16	0.16
07/18/95	15:20:15	9.74	0.25	0.000	0.16	0.16
07/18/95	15:20:16	9.74	0.26	0.000	0.16	0.16
07/18/95	15:20:16	9.74	0.27	0.000	0.16	0.16
07/18/95	15:20:17	9.74	0.27	0.000	0.16	0.16

=====

SITE: NMPC ONEIDA

WELL: ES-6

TIME OF SLUG INJ/WITH =

15:20:00 MILITARY TIME

STATIC WATER LEVEL =

9.58 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

91

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/18/95	15:20:17	9.73	0.28	0.000	0.15	0.15
07/18/95	15:20:18	9.73	0.29	0.000	0.15	0.15
07/18/95	15:20:18	9.73	0.30	0.000	0.15	0.15
07/18/95	15:20:19	9.73	0.31	0.000	0.15	0.15
07/18/95	15:20:20	9.72	0.32	0.000	0.14	0.14
07/18/95	15:20:20	9.72	0.32	0.000	0.14	0.14
07/18/95	15:20:21	9.71	0.34	0.000	0.13	0.13
07/18/95	15:20:22	9.71	0.36	0.000	0.13	0.13
07/18/95	15:20:23	9.71	0.37	0.000	0.13	0.13
07/18/95	15:20:24	9.71	0.39	0.000	0.13	0.13
07/18/95	15:20:25	9.70	0.41	0.000	0.12	0.12
07/18/95	15:20:26	9.69	0.42	0.000	0.11	0.11
07/18/95	15:20:27	9.69	0.44	0.000	0.11	0.11
07/18/95	15:20:28	9.69	0.46	0.000	0.11	0.11
07/18/95	15:20:29	9.69	0.48	0.000	0.11	0.11
07/18/95	15:20:30	9.68	0.49	0.000	0.10	0.10
07/18/95	15:20:31	9.69	0.51	0.000	0.11	0.11
07/18/95	15:20:32	9.69	0.52	0.000	0.11	0.11
07/18/95	15:20:33	9.68	0.54	0.000	0.10	0.10
07/18/95	15:20:34	9.68	0.56	0.000	0.10	0.10
07/18/95	15:20:35	9.68	0.57	0.000	0.10	0.10
07/18/95	15:20:36	9.68	0.59	0.000	0.10	0.10
07/18/95	15:20:37	9.67	0.61	0.000	0.09	0.09
07/18/95	15:20:38	9.67	0.63	0.000	0.09	0.09
07/18/95	15:20:39	9.66	0.64	0.000	0.08	0.08
07/18/95	15:20:40	9.66	0.66	0.000	0.08	0.08
07/18/95	15:20:41	9.66	0.67	0.000	0.08	0.08
07/18/95	15:20:42	9.66	0.69	0.000	0.08	0.08
07/18/95	15:20:43	9.66	0.71	0.000	0.08	0.08
07/18/95	15:20:44	9.66	0.72	0.001	0.08	0.08
07/18/95	15:20:45	9.66	0.74	0.001	0.08	0.08
07/18/95	15:20:46	9.66	0.76	0.001	0.08	0.08
07/18/95	15:20:47	9.65	0.78	0.001	0.07	0.07
07/18/95	15:20:48	9.65	0.79	0.001	0.07	0.07
07/18/95	15:20:49	9.65	0.81	0.001	0.07	0.07

=====

SITE: NMPC ONEIDA

WELL: ES-6

TIME OF SLUG INJ/WITH =

15:20:00 MILITARY TIME

STATIC WATER LEVEL =

9.58 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

91

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/18/95	15:20:50	9.65	0.82	0.001	0.07	0.07
07/18/95	15:20:51	9.64	0.84	0.001	0.06	0.06
07/18/95	15:20:52	9.64	0.86	0.001	0.06	0.06
07/18/95	15:20:53	9.64	0.87	0.001	0.06	0.06
07/18/95	15:20:54	9.64	0.89	0.001	0.06	0.06
07/18/95	15:20:55	9.64	0.91	0.001	0.06	0.06
07/18/95	15:20:56	9.64	0.93	0.001	0.06	0.06
07/18/95	15:20:57	9.64	0.94	0.001	0.06	0.06
07/18/95	15:20:58	9.64	0.96	0.001	0.06	0.06
07/18/95	15:20:59	9.64	0.97	0.001	0.06	0.06
07/18/95	15:21:00	9.64	0.99	0.001	0.06	0.06
07/18/95	15:21:12	9.62	1.19	0.001	0.04	0.04
07/18/95	15:21:24	9.61	1.39	0.001	0.03	0.03
07/18/95	15:21:36	9.61	1.59	0.001	0.03	0.03
07/18/95	15:21:48	9.61	1.79	0.001	0.03	0.03
07/18/95	15:22:00	9.60	1.99	0.001	0.02	0.02
07/18/95	15:22:12	9.61	2.19	0.002	0.02	0.02
07/18/95	15:22:24	9.60	2.39	0.002	0.02	0.02
07/18/95	15:22:36	9.60	2.59	0.002	0.02	0.02
07/18/95	15:22:48	9.59	2.79	0.002	0.01	0.01
07/18/95	15:23:00	9.59	2.99	0.002	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-7

TIME OF SLUG INJ/WITH =

09:57:01 MILITARY TIME

STATIC WATER LEVEL =

7.78 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

134

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	09:57:01	7.78	-0.01	-0.000	0.00	0.00
07/19/95	09:57:01	7.97	0.00	0.000	0.19	0.19
07/19/95	09:57:02	7.99	0.01	0.000	0.21	0.21
07/19/95	09:57:03	7.89	0.02	0.000	0.11	0.11
07/19/95	09:57:03	8.07	0.02	0.000	0.29	0.29
07/19/95	09:57:03	8.44	0.03	0.000	0.66	0.66
07/19/95	09:57:04	8.73	0.04	0.000	0.95	0.95
07/19/95	09:57:04	8.74	0.05	0.000	0.96	0.96
07/19/95	09:57:05	8.71	0.06	0.000	0.93	0.93
07/19/95	09:57:06	8.71	0.07	0.000	0.93	0.93
07/19/95	09:57:06	8.71	0.07	0.000	0.93	0.93
07/19/95	09:57:06	8.74	0.08	0.000	0.96	0.96
07/19/95	09:57:07	8.70	0.09	0.000	0.92	0.92
07/19/95	09:57:07	8.68	0.10	0.000	0.90	0.90
07/19/95	09:57:08	8.68	0.11	0.000	0.90	0.90
07/19/95	09:57:09	8.68	0.12	0.000	0.90	0.90
07/19/95	09:57:09	8.68	0.12	0.000	0.90	0.90
07/19/95	09:57:09	8.67	0.13	0.000	0.89	0.89
07/19/95	09:57:10	8.66	0.14	0.000	0.88	0.88
07/19/95	09:57:10	8.66	0.15	0.000	0.88	0.88
07/19/95	09:57:11	8.66	0.16	0.000	0.88	0.88
07/19/95	09:57:12	8.66	0.17	0.000	0.88	0.88
07/19/95	09:57:12	8.66	0.17	0.000	0.88	0.88
07/19/95	09:57:12	8.66	0.18	0.000	0.88	0.88
07/19/95	09:57:13	8.65	0.19	0.000	0.87	0.87
07/19/95	09:57:13	8.65	0.20	0.000	0.87	0.87
07/19/95	09:57:14	8.64	0.21	0.000	0.86	0.86
07/19/95	09:57:15	8.64	0.22	0.000	0.86	0.86
07/19/95	09:57:15	8.64	0.22	0.000	0.86	0.86
07/19/95	09:57:15	8.64	0.23	0.000	0.86	0.86
07/19/95	09:57:16	8.64	0.24	0.000	0.86	0.86
07/19/95	09:57:16	8.64	0.25	0.000	0.86	0.86
07/19/95	09:57:17	8.63	0.26	0.000	0.85	0.85
07/19/95	09:57:18	8.63	0.27	0.000	0.85	0.85
07/19/95	09:57:18	8.63	0.27	0.000	0.84	0.84

=====

SITE: NMPC ONEIDA

WELL: ES-7

TIME OF SLUG INJ/WITH =

09:57:01 MILITARY TIME

STATIC WATER LEVEL =

7.78 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

134

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	09:57:18	8.63	0.28	0.000	0.84	0.84
07/19/95	09:57:19	8.63	0.29	0.000	0.84	0.84
07/19/95	09:57:19	8.63	0.30	0.000	0.84	0.84
07/19/95	09:57:20	8.63	0.31	0.000	0.84	0.84
07/19/95	09:57:21	8.62	0.32	0.000	0.84	0.84
07/19/95	09:57:21	8.62	0.32	0.000	0.84	0.84
07/19/95	09:57:22	8.61	0.34	0.000	0.83	0.83
07/19/95	09:57:23	8.59	0.36	0.000	0.81	0.81
07/19/95	09:57:24	8.60	0.37	0.000	0.82	0.82
07/19/95	09:57:25	8.59	0.39	0.000	0.81	0.81
07/19/95	09:57:26	8.59	0.41	0.000	0.81	0.81
07/19/95	09:57:27	8.58	0.42	0.000	0.80	0.80
07/19/95	09:57:28	8.58	0.44	0.000	0.80	0.80
07/19/95	09:57:29	8.58	0.46	0.000	0.79	0.79
07/19/95	09:57:30	8.58	0.48	0.000	0.79	0.79
07/19/95	09:57:31	8.57	0.49	0.000	0.79	0.79
07/19/95	09:57:32	8.57	0.51	0.000	0.79	0.79
07/19/95	09:57:33	8.57	0.52	0.000	0.79	0.79
07/19/95	09:57:34	8.56	0.54	0.000	0.78	0.78
07/19/95	09:57:35	8.56	0.56	0.000	0.78	0.78
07/19/95	09:57:36	8.56	0.57	0.000	0.78	0.78
07/19/95	09:57:37	8.56	0.59	0.000	0.78	0.78
07/19/95	09:57:38	8.55	0.61	0.000	0.77	0.77
07/19/95	09:57:39	8.55	0.63	0.000	0.77	0.77
07/19/95	09:57:40	8.54	0.64	0.000	0.76	0.76
07/19/95	09:57:41	8.54	0.66	0.000	0.76	0.76
07/19/95	09:57:42	8.54	0.67	0.000	0.76	0.76
07/19/95	09:57:43	8.54	0.69	0.000	0.76	0.76
07/19/95	09:57:44	8.54	0.71	0.000	0.76	0.76
07/19/95	09:57:45	8.54	0.72	0.001	0.76	0.76
07/19/95	09:57:46	8.53	0.74	0.001	0.75	0.75
07/19/95	09:57:47	8.53	0.76	0.001	0.75	0.75
07/19/95	09:57:48	8.53	0.78	0.001	0.75	0.75
07/19/95	09:57:49	8.52	0.79	0.001	0.74	0.74
07/19/95	09:57:50	8.52	0.81	0.001	0.74	0.74

SITE: NMPC ONEIDA

WELL: ES-7

TIME OF SLUG INJ/WITH =

09:57:01 MILITARY TIME

STATIC WATER LEVEL =

7.78 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

134

INJECTION/WITHDRAWAL (1/2):

2

					RESIDUAL CORRECTED	
DATE	TIME	DTW	t	t	IH/DD	IH/DD
(24 HOUR)		(FT)	(MINS)	(DAYS)	(FT)	(FT)
07/19/95	09:57:51	8.52	0.82	0.001	0.74	0.74
07/19/95	09:57:52	8.52	0.84	0.001	0.74	0.74
07/19/95	09:57:53	8.51	0.86	0.001	0.73	0.73
07/19/95	09:57:54	8.51	0.87	0.001	0.73	0.73
07/19/95	09:57:55	8.51	0.89	0.001	0.73	0.73
07/19/95	09:57:56	8.51	0.91	0.001	0.73	0.73
07/19/95	09:57:57	8.51	0.93	0.001	0.73	0.73
07/19/95	09:57:58	8.50	0.94	0.001	0.72	0.72
07/19/95	09:57:59	8.50	0.96	0.001	0.72	0.72
07/19/95	09:58:00	8.50	0.97	0.001	0.72	0.72
07/19/95	09:58:01	8.49	0.99	0.001	0.71	0.71
07/19/95	09:58:13	8.47	1.19	0.001	0.69	0.69
07/19/95	09:58:25	8.45	1.39	0.001	0.67	0.67
07/19/95	09:58:37	8.42	1.59	0.001	0.64	0.64
07/19/95	09:58:49	8.40	1.79	0.001	0.62	0.62
07/19/95	09:59:01	8.38	1.99	0.001	0.60	0.60
07/19/95	09:59:13	8.35	2.19	0.002	0.57	0.57
07/19/95	09:59:25	8.33	2.39	0.002	0.55	0.55
07/19/95	09:59:37	8.32	2.59	0.002	0.54	0.54
07/19/95	09:59:49	8.30	2.79	0.002	0.52	0.52
07/19/95	10:00:01	8.28	2.99	0.002	0.50	0.50
07/19/95	10:00:13	8.26	3.19	0.002	0.48	0.48
07/19/95	10:00:25	8.24	3.39	0.002	0.46	0.46
07/19/95	10:00:37	8.23	3.59	0.002	0.45	0.45
07/19/95	10:00:49	8.21	3.79	0.003	0.43	0.43
07/19/95	10:01:01	8.20	3.99	0.003	0.42	0.42
07/19/95	10:01:13	8.18	4.19	0.003	0.40	0.40
07/19/95	10:01:25	8.17	4.39	0.003	0.39	0.39
07/19/95	10:01:37	8.16	4.59	0.003	0.38	0.38
07/19/95	10:01:49	8.14	4.79	0.003	0.36	0.36
07/19/95	10:02:01	8.13	4.99	0.003	0.35	0.35
07/19/95	10:02:13	8.12	5.19	0.004	0.34	0.34
07/19/95	10:02:25	8.11	5.39	0.004	0.33	0.33
07/19/95	10:02:37	8.09	5.59	0.004	0.31	0.31
07/19/95	10:02:49	8.09	5.79	0.004	0.31	0.31

=====

SITE: NMPC ONEIDA

WELL: ES-7

TIME OF SLUG INJ/WITH =

09:57:01 MILITARY TIME

STATIC WATER LEVEL =

7.78 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

134

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	10:03:01	8.07	5.99	0.004	0.29	0.29
07/19/95	10:03:13	8.07	6.19	0.004	0.29	0.29
07/19/95	10:03:25	8.06	6.39	0.004	0.28	0.28
07/19/95	10:03:37	8.05	6.59	0.005	0.27	0.27
07/19/95	10:03:49	8.04	6.79	0.005	0.26	0.26
07/19/95	10:04:01	8.02	6.99	0.005	0.24	0.24
07/19/95	10:04:13	8.02	7.19	0.005	0.24	0.24
07/19/95	10:04:25	8.01	7.39	0.005	0.23	0.23
07/19/95	10:04:37	8.01	7.59	0.005	0.22	0.22
07/19/95	10:04:49	7.99	7.79	0.005	0.21	0.21
07/19/95	10:05:01	7.99	7.99	0.006	0.21	0.21
07/19/95	10:05:13	7.98	8.19	0.006	0.20	0.20
07/19/95	10:05:25	7.97	8.39	0.006	0.19	0.19
07/19/95	10:05:37	7.97	8.59	0.006	0.19	0.19
07/19/95	10:05:49	7.96	8.79	0.006	0.18	0.18
07/19/95	10:06:01	7.95	8.99	0.006	0.17	0.17
07/19/95	10:06:13	7.95	9.19	0.006	0.17	0.17
07/19/95	10:06:25	7.94	9.39	0.007	0.16	0.16
07/19/95	10:06:37	7.94	9.59	0.007	0.16	0.16
07/19/95	10:06:49	7.93	9.79	0.007	0.15	0.15
07/19/95	10:07:01	7.93	9.99	0.007	0.15	0.15
07/19/95	10:09:01	7.88	11.99	0.008	0.10	0.10
07/19/95	10:11:01	7.85	13.99	0.010	0.07	0.07
07/19/95	10:13:01	7.83	15.99	0.011	0.05	0.05
07/19/95	10:15:01	7.82	17.99	0.012	0.04	0.04
07/19/95	10:17:01	7.81	19.99	0.014	0.03	0.03
07/19/95	10:19:01	7.81	21.99	0.015	0.03	0.03
07/19/95	10:21:01	7.81	23.99	0.017	0.03	0.03
07/19/95	10:23:01	7.81	25.99	0.018	0.03	0.03

=====

SITE: NMPC ONEIDA

WELL: ES-8

TIME OF SLUG INJ/WITH =

14:40:01 MILITARY TIME

STATIC WATER LEVEL =

8.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	14:40:01	8.98	-0.01	-0.000	0.00	0.00
07/17/95	14:40:01	9.28	0.00	0.000	0.30	0.30
07/17/95	14:40:02	9.40	0.01	0.000	0.42	0.42
07/17/95	14:40:03	9.51	0.02	0.000	0.53	0.53
07/17/95	14:40:03	9.61	0.02	0.000	0.63	0.63
07/17/95	14:40:03	9.68	0.03	0.000	0.70	0.70
07/17/95	14:40:04	9.71	0.04	0.000	0.73	0.73
07/17/95	14:40:04	9.66	0.05	0.000	0.68	0.68
07/17/95	14:40:05	9.61	0.06	0.000	0.63	0.63
07/17/95	14:40:06	9.57	0.07	0.000	0.59	0.59
07/17/95	14:40:06	9.53	0.07	0.000	0.55	0.55
07/17/95	14:40:06	9.49	0.08	0.000	0.51	0.51
07/17/95	14:40:07	9.46	0.09	0.000	0.48	0.48
07/17/95	14:40:07	9.43	0.10	0.000	0.45	0.45
07/17/95	14:40:08	9.40	0.11	0.000	0.42	0.42
07/17/95	14:40:09	9.38	0.12	0.000	0.40	0.40
07/17/95	14:40:09	9.35	0.12	0.000	0.37	0.37
07/17/95	14:40:09	9.33	0.13	0.000	0.35	0.35
07/17/95	14:40:10	9.31	0.14	0.000	0.33	0.33
07/17/95	14:40:10	9.30	0.15	0.000	0.32	0.32
07/17/95	14:40:11	9.28	0.16	0.000	0.30	0.30
07/17/95	14:40:12	9.26	0.17	0.000	0.28	0.28
07/17/95	14:40:12	9.25	0.17	0.000	0.27	0.27
07/17/95	14:40:12	9.23	0.18	0.000	0.25	0.25
07/17/95	14:40:13	9.23	0.19	0.000	0.25	0.25
07/17/95	14:40:13	9.21	0.20	0.000	0.23	0.23
07/17/95	14:40:14	9.20	0.21	0.000	0.22	0.22
07/17/95	14:40:15	9.20	0.22	0.000	0.22	0.22
07/17/95	14:40:15	9.19	0.22	0.000	0.21	0.21
07/17/95	14:40:15	9.18	0.23	0.000	0.20	0.20
07/17/95	14:40:16	9.17	0.24	0.000	0.19	0.19
07/17/95	14:40:16	9.16	0.25	0.000	0.18	0.18
07/17/95	14:40:17	9.16	0.26	0.000	0.18	0.18
07/17/95	14:40:18	9.15	0.27	0.000	0.17	0.17
07/17/95	14:40:18	9.14	0.27	0.000	0.16	0.16

=====

SITE: NMPC ONEIDA

WELL: ES-8

TIME OF SLUG INJ/WITH =

14:40:01 MILITARY TIME

STATIC WATER LEVEL =

8.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	14:40:18	9.14	0.28	0.000	0.16	0.16
07/17/95	14:40:19	9.14	0.29	0.000	0.16	0.16
07/17/95	14:40:19	9.13	0.30	0.000	0.15	0.15
07/17/95	14:40:20	9.13	0.31	0.000	0.15	0.15
07/17/95	14:40:21	9.12	0.32	0.000	0.14	0.14
07/17/95	14:40:21	9.12	0.32	0.000	0.14	0.14
07/17/95	14:40:22	9.11	0.34	0.000	0.13	0.13
07/17/95	14:40:23	9.10	0.36	0.000	0.12	0.12
07/17/95	14:40:24	9.10	0.37	0.000	0.12	0.12
07/17/95	14:40:25	9.06	0.39	0.000	0.08	0.08
07/17/95	14:40:26	9.06	0.41	0.000	0.08	0.08
07/17/95	14:40:27	9.09	0.42	0.000	0.11	0.11
07/17/95	14:40:28	9.07	0.44	0.000	0.09	0.09
07/17/95	14:40:29	9.06	0.46	0.000	0.08	0.08
07/17/95	14:40:30	9.06	0.48	0.000	0.08	0.08
07/17/95	14:40:31	9.06	0.49	0.000	0.08	0.08
07/17/95	14:40:32	9.06	0.51	0.000	0.08	0.08
07/17/95	14:40:33	9.06	0.52	0.000	0.08	0.08
07/17/95	14:40:34	9.06	0.54	0.000	0.08	0.08
07/17/95	14:40:35	9.06	0.56	0.000	0.08	0.08
07/17/95	14:40:36	9.04	0.57	0.000	0.06	0.06
07/17/95	14:40:37	9.04	0.59	0.000	0.06	0.06
07/17/95	14:40:38	9.04	0.61	0.000	0.06	0.06
07/17/95	14:40:39	9.04	0.63	0.000	0.06	0.06
07/17/95	14:40:40	9.03	0.64	0.000	0.05	0.05
07/17/95	14:40:41	9.03	0.66	0.000	0.05	0.05
07/17/95	14:40:42	9.03	0.67	0.000	0.05	0.05
07/17/95	14:40:43	9.03	0.69	0.000	0.05	0.05
07/17/95	14:40:44	9.03	0.71	0.000	0.05	0.05
07/17/95	14:40:45	9.02	0.72	0.001	0.04	0.04
07/17/95	14:40:46	9.02	0.74	0.001	0.04	0.04
07/17/95	14:40:47	9.02	0.76	0.001	0.04	0.04
07/17/95	14:40:48	9.02	0.78	0.001	0.04	0.04
07/17/95	14:40:49	9.02	0.79	0.001	0.04	0.04
07/17/95	14:40:50	9.02	0.81	0.001	0.04	0.04

=====

SITE: NMPC ONEIDA

WELL: ES-8

TIME OF SLUG INJ/WITH =

14:40:01 MILITARY TIME

STATIC WATER LEVEL =

8.98 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

87

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/17/95	14:40:51	9.02	0.82	0.001	0.04	0.04
07/17/95	14:40:52	9.02	0.84	0.001	0.04	0.04
07/17/95	14:40:53	9.02	0.86	0.001	0.04	0.04
07/17/95	14:40:54	9.01	0.87	0.001	0.03	0.03
07/17/95	14:40:55	9.01	0.89	0.001	0.03	0.03
07/17/95	14:40:56	9.01	0.91	0.001	0.03	0.03
07/17/95	14:40:57	9.01	0.93	0.001	0.03	0.03
07/17/95	14:40:58	9.01	0.94	0.001	0.03	0.03
07/17/95	14:40:59	9.01	0.96	0.001	0.03	0.03
07/17/95	14:41:00	9.01	0.97	0.001	0.03	0.03
07/17/95	14:41:01	9.01	0.99	0.001	0.03	0.03
07/17/95	14:41:13	9.01	1.19	0.001	0.03	0.03
07/17/95	14:41:25	9.00	1.39	0.001	0.02	0.02
07/17/95	14:41:37	9.00	1.59	0.001	0.02	0.02
07/17/95	14:41:49	9.00	1.79	0.001	0.02	0.02
07/17/95	14:42:01	8.99	1.99	0.001	0.01	0.01
07/17/95	14:42:13	8.99	2.19	0.002	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:30:00 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

126

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:30:00	8.39	-0.01	-0.000	0.00	0.00
07/20/95	09:30:00	8.40	0.00	0.000	-0.01	-0.01
07/20/95	09:30:01	8.39	0.01	0.000	0.00	0.00
07/20/95	09:30:01	7.86	0.02	0.000	0.53	0.53
07/20/95	09:30:02	7.39	0.02	0.000	1.00	1.00
07/20/95	09:30:02	6.94	0.03	0.000	1.45	1.45
07/20/95	09:30:03	6.79	0.04	0.000	1.60	1.60
07/20/95	09:30:03	7.26	0.05	0.000	1.13	1.13
07/20/95	09:30:04	6.95	0.06	0.000	1.44	1.44
07/20/95	09:30:04	6.98	0.07	0.000	1.41	1.41
07/20/95	09:30:05	7.58	0.07	0.000	0.81	0.81
07/20/95	09:30:05	7.10	0.08	0.000	1.29	1.29
07/20/95	09:30:06	7.10	0.09	0.000	1.29	1.29
07/20/95	09:30:06	6.70	0.10	0.000	1.69	1.69
07/20/95	09:30:07	6.83	0.11	0.000	1.56	1.56
07/20/95	09:30:07	7.29	0.12	0.000	1.10	1.10
07/20/95	09:30:08	7.29	0.12	0.000	1.10	1.10
07/20/95	09:30:08	6.41	0.13	0.000	1.98	1.98
07/20/95	09:30:09	6.97	0.14	0.000	1.42	1.42
07/20/95	09:30:09	7.55	0.15	0.000	0.85	0.85
07/20/95	09:30:10	7.20	0.16	0.000	1.19	1.19
07/20/95	09:30:10	8.79	0.17	0.000	-0.40	-0.40
07/20/95	09:30:11	7.37	0.17	0.000	1.02	1.02
07/20/95	09:30:11	7.34	0.18	0.000	1.05	1.05
07/20/95	09:30:12	7.28	0.19	0.000	1.11	1.11
07/20/95	09:30:12	7.25	0.20	0.000	1.14	1.14
07/20/95	09:30:13	7.28	0.21	0.000	1.11	1.11
07/20/95	09:30:13	7.28	0.22	0.000	1.11	1.11
07/20/95	09:30:14	7.28	0.22	0.000	1.11	1.11
07/20/95	09:30:14	7.29	0.23	0.000	1.10	1.10
07/20/95	09:30:15	7.30	0.24	0.000	1.09	1.09
07/20/95	09:30:15	7.30	0.25	0.000	1.09	1.09
07/20/95	09:30:16	7.31	0.26	0.000	1.08	1.08
07/20/95	09:30:16	7.32	0.27	0.000	1.07	1.07
07/20/95	09:30:17	7.33	0.27	0.000	1.06	1.06

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:30:00 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

126

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:30:17	7.33	0.28	0.000	1.06	1.06
07/20/95	09:30:18	7.34	0.29	0.000	1.06	1.06
07/20/95	09:30:18	7.34	0.30	0.000	1.05	1.05
07/20/95	09:30:19	7.35	0.31	0.000	1.04	1.04
07/20/95	09:30:19	7.35	0.32	0.000	1.04	1.04
07/20/95	09:30:20	7.36	0.32	0.000	1.03	1.03
07/20/95	09:30:21	7.36	0.34	0.000	1.03	1.03
07/20/95	09:30:22	7.39	0.36	0.000	1.00	1.00
07/20/95	09:30:23	7.40	0.37	0.000	0.99	0.99
07/20/95	09:30:24	7.41	0.39	0.000	0.98	0.98
07/20/95	09:30:25	7.42	0.41	0.000	0.97	0.97
07/20/95	09:30:26	7.42	0.42	0.000	0.97	0.97
07/20/95	09:30:27	7.43	0.44	0.000	0.96	0.96
07/20/95	09:30:28	7.44	0.46	0.000	0.95	0.95
07/20/95	09:30:29	7.45	0.48	0.000	0.94	0.94
07/20/95	09:30:30	7.46	0.49	0.000	0.93	0.93
07/20/95	09:30:31	7.48	0.51	0.000	0.92	0.92
07/20/95	09:30:32	7.48	0.52	0.000	0.91	0.91
07/20/95	09:30:33	7.51	0.54	0.000	0.88	0.88
07/20/95	09:30:34	7.52	0.56	0.000	0.87	0.87
07/20/95	09:30:35	7.53	0.57	0.000	0.86	0.86
07/20/95	09:30:36	7.54	0.59	0.000	0.85	0.85
07/20/95	09:30:37	7.55	0.61	0.000	0.85	0.85
07/20/95	09:30:38	7.56	0.63	0.000	0.83	0.83
07/20/95	09:30:39	7.56	0.64	0.000	0.83	0.83
07/20/95	09:30:40	7.56	0.66	0.000	0.83	0.83
07/20/95	09:30:41	7.57	0.67	0.000	0.82	0.82
07/20/95	09:30:42	7.58	0.69	0.000	0.81	0.81
07/20/95	09:30:43	7.59	0.71	0.000	0.80	0.80
07/20/95	09:30:44	7.60	0.72	0.001	0.79	0.79
07/20/95	09:30:45	7.61	0.74	0.001	0.78	0.78
07/20/95	09:30:46	7.62	0.76	0.001	0.78	0.78
07/20/95	09:30:47	7.62	0.78	0.001	0.77	0.77
07/20/95	09:30:48	7.63	0.79	0.001	0.76	0.76
07/20/95	09:30:49	7.64	0.81	0.001	0.75	0.75

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:30:00 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

126

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:30:50	7.65	0.82	0.001	0.74	0.74
07/20/95	09:30:51	7.65	0.84	0.001	0.74	0.74
07/20/95	09:30:52	7.67	0.86	0.001	0.72	0.72
07/20/95	09:30:53	7.67	0.87	0.001	0.72	0.72
07/20/95	09:30:54	7.68	0.89	0.001	0.71	0.71
07/20/95	09:30:55	7.69	0.91	0.001	0.71	0.71
07/20/95	09:30:56	7.69	0.93	0.001	0.70	0.70
07/20/95	09:30:57	7.70	0.94	0.001	0.69	0.69
07/20/95	09:30:58	7.71	0.96	0.001	0.68	0.68
07/20/95	09:30:59	7.72	0.97	0.001	0.67	0.67
07/20/95	09:31:00	7.72	0.99	0.001	0.67	0.67
07/20/95	09:31:12	7.81	1.19	0.001	0.59	0.59
07/20/95	09:31:24	7.87	1.39	0.001	0.52	0.52
07/20/95	09:31:36	7.93	1.59	0.001	0.46	0.46
07/20/95	09:31:48	7.98	1.79	0.001	0.41	0.41
07/20/95	09:32:00	8.03	1.99	0.001	0.36	0.36
07/20/95	09:32:12	8.07	2.19	0.002	0.32	0.32
07/20/95	09:32:24	8.11	2.39	0.002	0.28	0.28
07/20/95	09:32:36	8.14	2.59	0.002	0.25	0.25
07/20/95	09:32:48	8.17	2.79	0.002	0.22	0.22
07/20/95	09:33:00	8.19	2.99	0.002	0.20	0.20
07/20/95	09:33:12	8.21	3.19	0.002	0.18	0.18
07/20/95	09:33:24	8.23	3.39	0.002	0.16	0.16
07/20/95	09:33:36	8.26	3.59	0.002	0.13	0.13
07/20/95	09:33:48	8.27	3.79	0.003	0.12	0.12
07/20/95	09:34:00	8.28	3.99	0.003	0.12	0.12
07/20/95	09:34:12	8.29	4.19	0.003	0.10	0.10
07/20/95	09:34:24	8.30	4.39	0.003	0.09	0.09
07/20/95	09:34:36	8.31	4.59	0.003	0.08	0.08
07/20/95	09:34:48	8.32	4.79	0.003	0.07	0.07
07/20/95	09:35:00	8.33	4.99	0.003	0.06	0.06
07/20/95	09:35:12	8.33	5.19	0.004	0.06	0.06
07/20/95	09:35:24	8.34	5.39	0.004	0.05	0.05
07/20/95	09:35:36	8.35	5.59	0.004	0.05	0.05
07/20/95	09:35:48	8.35	5.79	0.004	0.05	0.05

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:30:00 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

126

INJECTION/WITHDRAWAL (1/2):

1

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:36:00	8.35	5.99	0.004	0.04	0.04
07/20/95	09:36:12	8.36	6.19	0.004	0.03	0.03
07/20/95	09:36:24	8.36	6.39	0.004	0.03	0.03
07/20/95	09:36:36	8.36	6.59	0.005	0.03	0.03
07/20/95	09:36:48	8.36	6.79	0.005	0.03	0.03
07/20/95	09:37:00	8.36	6.99	0.005	0.03	0.03
07/20/95	09:37:12	8.37	7.19	0.005	0.02	0.02
07/20/95	09:37:24	8.37	7.39	0.005	0.02	0.02
07/20/95	09:37:36	8.38	7.59	0.005	0.01	0.01
07/20/95	09:37:48	8.38	7.79	0.005	0.01	0.01
07/20/95	09:38:00	8.38	7.99	0.006	0.01	0.01
07/20/95	09:38:12	8.38	8.19	0.006	0.01	0.01
07/20/95	09:38:24	8.38	8.39	0.006	0.01	0.01
07/20/95	09:38:36	8.38	8.59	0.006	0.01	0.01
07/20/95	09:38:48	8.38	8.79	0.006	0.01	0.01
07/20/95	09:39:00	8.38	8.99	0.006	0.01	0.01
07/20/95	09:39:12	8.38	9.19	0.006	0.01	0.01
07/20/95	09:39:24	8.38	9.39	0.007	0.01	0.01
07/20/95	09:39:36	8.38	9.59	0.007	0.01	0.01
07/20/95	09:39:48	8.38	9.79	0.007	0.01	0.01
07/20/95	09:40:00	8.38	9.99	0.007	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:12:01	8.39	-0.01	-0.000	0.00	0.00
07/20/95	09:12:01	8.89	0.00	0.000	0.50	0.50
07/20/95	09:12:02	8.84	0.01	0.000	0.45	0.45
07/20/95	09:12:03	8.54	0.02	0.000	0.15	0.15
07/20/95	09:12:03	8.50	0.02	0.000	0.11	0.11
07/20/95	09:12:03	8.92	0.03	0.000	0.53	0.53
07/20/95	09:12:04	8.42	0.04	0.000	0.03	0.03
07/20/95	09:12:04	9.10	0.05	0.000	0.71	0.71
07/20/95	09:12:05	8.74	0.06	0.000	0.35	0.35
07/20/95	09:12:06	9.39	0.07	0.000	1.00	1.00
07/20/95	09:12:06	9.66	0.07	0.000	1.27	1.27
07/20/95	09:12:06	9.95	0.08	0.000	1.56	1.56
07/20/95	09:12:07	9.91	0.09	0.000	1.52	1.52
07/20/95	09:12:07	9.88	0.10	0.000	1.49	1.49
07/20/95	09:12:08	9.85	0.11	0.000	1.46	1.46
07/20/95	09:12:09	9.84	0.12	0.000	1.45	1.45
07/20/95	09:12:09	9.83	0.12	0.000	1.44	1.44
07/20/95	09:12:09	9.82	0.13	0.000	1.43	1.43
07/20/95	09:12:10	9.81	0.14	0.000	1.42	1.42
07/20/95	09:12:10	9.80	0.15	0.000	1.41	1.41
07/20/95	09:12:11	9.79	0.16	0.000	1.40	1.40
07/20/95	09:12:12	9.78	0.17	0.000	1.39	1.39
07/20/95	09:12:12	9.77	0.17	0.000	1.38	1.38
07/20/95	09:12:12	9.77	0.18	0.000	1.38	1.38
07/20/95	09:12:13	9.76	0.19	0.000	1.37	1.37
07/20/95	09:12:13	9.76	0.20	0.000	1.36	1.36
07/20/95	09:12:14	9.75	0.21	0.000	1.36	1.36
07/20/95	09:12:15	9.74	0.22	0.000	1.35	1.35
07/20/95	09:12:15	9.73	0.22	0.000	1.34	1.34
07/20/95	09:12:15	9.72	0.23	0.000	1.33	1.33
07/20/95	09:12:16	9.72	0.24	0.000	1.33	1.33
07/20/95	09:12:16	9.71	0.25	0.000	1.32	1.32
07/20/95	09:12:17	9.70	0.26	0.000	1.31	1.31
07/20/95	09:12:18	9.70	0.27	0.000	1.31	1.31
07/20/95	09:12:18	9.69	0.27	0.000	1.30	1.30

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:12:18	9.69	0.28	0.000	1.30	1.30
07/20/95	09:12:19	9.68	0.29	0.000	1.29	1.29
07/20/95	09:12:19	9.62	0.30	0.000	1.23	1.23
07/20/95	09:12:20	9.63	0.31	0.000	1.24	1.24
07/20/95	09:12:21	9.67	0.32	0.000	1.28	1.28
07/20/95	09:12:21	9.65	0.32	0.000	1.26	1.26
07/20/95	09:12:22	9.63	0.34	0.000	1.24	1.24
07/20/95	09:12:23	9.62	0.36	0.000	1.22	1.22
07/20/95	09:12:24	9.60	0.37	0.000	1.21	1.21
07/20/95	09:12:25	9.59	0.39	0.000	1.20	1.20
07/20/95	09:12:26	9.58	0.41	0.000	1.19	1.19
07/20/95	09:12:27	9.57	0.42	0.000	1.18	1.18
07/20/95	09:12:28	9.56	0.44	0.000	1.17	1.17
07/20/95	09:12:29	9.55	0.46	0.000	1.16	1.16
07/20/95	09:12:30	9.54	0.48	0.000	1.15	1.15
07/20/95	09:12:31	9.53	0.49	0.000	1.14	1.14
07/20/95	09:12:32	9.52	0.51	0.000	1.13	1.13
07/20/95	09:12:33	9.51	0.52	0.000	1.12	1.12
07/20/95	09:12:34	9.49	0.54	0.000	1.10	1.10
07/20/95	09:12:35	9.49	0.56	0.000	1.10	1.10
07/20/95	09:12:36	9.48	0.57	0.000	1.09	1.09
07/20/95	09:12:37	9.47	0.59	0.000	1.08	1.08
07/20/95	09:12:38	9.46	0.61	0.000	1.07	1.07
07/20/95	09:12:39	9.45	0.63	0.000	1.06	1.06
07/20/95	09:12:40	9.44	0.64	0.000	1.05	1.05
07/20/95	09:12:41	9.42	0.66	0.000	1.03	1.03
07/20/95	09:12:42	9.42	0.67	0.000	1.03	1.03
07/20/95	09:12:43	9.41	0.69	0.000	1.02	1.02
07/20/95	09:12:44	9.40	0.71	0.000	1.01	1.01
07/20/95	09:12:45	9.39	0.72	0.001	1.00	1.00
07/20/95	09:12:46	9.38	0.74	0.001	0.99	0.99
07/20/95	09:12:47	9.37	0.76	0.001	0.98	0.98
07/20/95	09:12:48	9.37	0.78	0.001	0.98	0.98
07/20/95	09:12:49	9.37	0.79	0.001	0.98	0.98
07/20/95	09:12:50	9.36	0.81	0.001	0.97	0.97

=====

SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	t (MINS)	t (DAYS)	RESIDUAL CORRECTED	
					IH/DD (FT)	IH/DD (FT)
07/20/95	09:12:51	9.35	0.82	0.001	0.96	0.96
07/20/95	09:12:52	9.34	0.84	0.001	0.95	0.95
07/20/95	09:12:53	9.34	0.86	0.001	0.95	0.95
07/20/95	09:12:54	9.33	0.87	0.001	0.94	0.94
07/20/95	09:12:55	9.32	0.89	0.001	0.93	0.93
07/20/95	09:12:56	9.31	0.91	0.001	0.92	0.92
07/20/95	09:12:57	9.30	0.93	0.001	0.91	0.91
07/20/95	09:12:58	9.29	0.94	0.001	0.90	0.90
07/20/95	09:12:59	9.29	0.96	0.001	0.89	0.89
07/20/95	09:13:00	9.26	0.97	0.001	0.87	0.87
07/20/95	09:13:01	9.25	0.99	0.001	0.86	0.86
07/20/95	09:13:13	9.16	1.19	0.001	0.77	0.77
07/20/95	09:13:25	9.09	1.39	0.001	0.70	0.70
07/20/95	09:13:37	9.02	1.59	0.001	0.63	0.63
07/20/95	09:13:49	8.94	1.79	0.001	0.55	0.55
07/20/95	09:14:01	8.89	1.99	0.001	0.50	0.50
07/20/95	09:14:13	8.84	2.19	0.002	0.45	0.45
07/20/95	09:14:25	8.79	2.39	0.002	0.40	0.40
07/20/95	09:14:37	8.75	2.59	0.002	0.36	0.36
07/20/95	09:14:49	8.71	2.79	0.002	0.32	0.32
07/20/95	09:15:01	8.68	2.99	0.002	0.29	0.29
07/20/95	09:15:13	8.66	3.19	0.002	0.27	0.27
07/20/95	09:15:25	8.63	3.39	0.002	0.24	0.24
07/20/95	09:15:37	8.61	3.59	0.002	0.21	0.21
07/20/95	09:15:49	8.59	3.79	0.003	0.20	0.20
07/20/95	09:16:01	8.57	3.99	0.003	0.18	0.18
07/20/95	09:16:13	8.55	4.19	0.003	0.16	0.16
07/20/95	09:16:25	8.53	4.39	0.003	0.14	0.14
07/20/95	09:16:37	8.52	4.59	0.003	0.13	0.13
07/20/95	09:16:49	8.50	4.79	0.003	0.11	0.11
07/20/95	09:17:01	8.49	4.99	0.003	0.10	0.10
07/20/95	09:17:13	8.50	5.19	0.004	0.11	0.11
07/20/95	09:17:25	8.48	5.39	0.004	0.09	0.09
07/20/95	09:17:37	8.47	5.59	0.004	0.08	0.08
07/20/95	09:17:49	8.46	5.79	0.004	0.07	0.07

=====

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SITE: NMPC ONEIDA

WELL: ES-10

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.39 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:18:01	8.45	5.99	0.004	0.06	0.06
07/20/95	09:18:13	8.45	6.19	0.004	0.06	0.06
07/20/95	09:18:25	8.44	6.39	0.004	0.05	0.05
07/20/95	09:18:37	8.43	6.59	0.005	0.04	0.04
07/20/95	09:18:49	8.43	6.79	0.005	0.04	0.04
07/20/95	09:19:01	8.43	6.99	0.005	0.04	0.04
07/20/95	09:19:13	8.43	7.19	0.005	0.04	0.04
07/20/95	09:19:25	8.42	7.39	0.005	0.03	0.03
07/20/95	09:19:37	8.42	7.59	0.005	0.03	0.03
07/20/95	09:19:49	8.42	7.79	0.005	0.02	0.02
07/20/95	09:20:01	8.42	7.99	0.006	0.02	0.02
07/20/95	09:20:13	8.42	8.19	0.006	0.02	0.02
07/20/95	09:20:25	8.41	8.39	0.006	0.02	0.02
07/20/95	09:20:37	8.41	8.59	0.006	0.02	0.02
07/20/95	09:20:49	8.40	8.79	0.006	0.01	0.01
07/20/95	09:21:01	8.40	8.99	0.006	0.01	0.01
07/20/95	09:21:13	8.40	9.19	0.006	0.01	0.01
07/20/95	09:21:25	8.40	9.39	0.007	0.01	0.01
07/20/95	09:21:37	8.40	9.59	0.007	0.01	0.01
07/20/95	09:21:49	8.40	9.79	0.007	0.01	0.01
07/20/95	09:22:01	8.40	9.99	0.007	0.01	0.01
07/20/95	09:24:01	8.39	11.99	0.008	0.00	0.00
07/20/95	09:26:01	8.40	13.99	0.010	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-10S

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.99 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:12:01	8.99	-0.01	-0.000	0.00	0.00
07/20/95	09:12:01	9.00	0.00	0.000	0.01	0.01
07/20/95	09:12:02	9.00	0.01	0.000	0.01	0.01
07/20/95	09:12:03	9.13	0.02	0.000	0.14	0.14
07/20/95	09:12:03	9.25	0.02	0.000	0.26	0.26
07/20/95	09:12:03	9.57	0.03	0.000	0.58	0.58
07/20/95	09:12:04	9.73	0.04	0.000	0.74	0.74
07/20/95	09:12:04	9.62	0.05	0.000	0.63	0.63
07/20/95	09:12:05	9.52	0.06	0.000	0.53	0.53
07/20/95	09:12:06	9.43	0.07	0.000	0.44	0.44
07/20/95	09:12:06	9.36	0.07	0.000	0.37	0.37
07/20/95	09:12:06	9.29	0.08	0.000	0.30	0.30
07/20/95	09:12:07	9.23	0.09	0.000	0.24	0.24
07/20/95	09:12:07	9.17	0.10	0.000	0.18	0.18
07/20/95	09:12:08	9.13	0.11	0.000	0.14	0.14
07/20/95	09:12:09	9.09	0.12	0.000	0.10	0.10
07/20/95	09:12:09	9.07	0.12	0.000	0.07	0.07
07/20/95	09:12:09	9.05	0.13	0.000	0.06	0.06
07/20/95	09:12:10	9.04	0.14	0.000	0.05	0.05
07/20/95	09:12:10	9.03	0.15	0.000	0.04	0.04
07/20/95	09:12:11	9.03	0.16	0.000	0.04	0.04
07/20/95	09:12:12	9.03	0.17	0.000	0.04	0.04
07/20/95	09:12:12	9.03	0.17	0.000	0.04	0.04
07/20/95	09:12:12	9.03	0.18	0.000	0.04	0.04
07/20/95	09:12:13	9.03	0.19	0.000	0.04	0.04
07/20/95	09:12:13	9.03	0.20	0.000	0.04	0.04
07/20/95	09:12:14	9.03	0.21	0.000	0.04	0.04
07/20/95	09:12:15	9.02	0.22	0.000	0.03	0.03
07/20/95	09:12:15	9.03	0.22	0.000	0.04	0.04
07/20/95	09:12:15	9.03	0.23	0.000	0.04	0.04
07/20/95	09:12:16	9.03	0.24	0.000	0.04	0.04
07/20/95	09:12:16	9.03	0.25	0.000	0.04	0.04
07/20/95	09:12:17	9.02	0.26	0.000	0.03	0.03
07/20/95	09:12:18	9.02	0.27	0.000	0.03	0.03
07/20/95	09:12:18	9.02	0.27	0.000	0.03	0.03

=====

SITE: NMPC ONEIDA

WELL: ES-10S

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.99 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:12:18	9.02	0.28	0.000	0.03	0.03
07/20/95	09:12:19	9.02	0.29	0.000	0.03	0.03
07/20/95	09:12:19	9.02	0.30	0.000	0.03	0.03
07/20/95	09:12:20	9.02	0.31	0.000	0.03	0.03
07/20/95	09:12:21	9.02	0.32	0.000	0.03	0.03
07/20/95	09:12:21	9.02	0.32	0.000	0.03	0.03
07/20/95	09:12:22	9.02	0.34	0.000	0.03	0.03
07/20/95	09:12:23	9.02	0.36	0.000	0.03	0.03
07/20/95	09:12:24	8.98	0.37	0.000	-0.01	-0.01
07/20/95	09:12:25	9.03	0.39	0.000	0.04	0.04
07/20/95	09:12:26	9.01	0.41	0.000	0.02	0.02
07/20/95	09:12:27	9.00	0.42	0.000	0.01	0.01
07/20/95	09:12:28	9.03	0.44	0.000	0.04	0.04
07/20/95	09:12:29	9.00	0.46	0.000	0.01	0.01
07/20/95	09:12:30	9.02	0.48	0.000	0.03	0.03
07/20/95	09:12:31	9.02	0.49	0.000	0.03	0.03
07/20/95	09:12:32	9.00	0.51	0.000	0.01	0.01
07/20/95	09:12:33	9.02	0.52	0.000	0.03	0.03
07/20/95	09:12:34	8.98	0.54	0.000	-0.01	-0.01
07/20/95	09:12:35	8.97	0.56	0.000	-0.02	-0.02
07/20/95	09:12:36	9.03	0.57	0.000	0.04	0.04
07/20/95	09:12:37	9.01	0.59	0.000	0.02	0.02
07/20/95	09:12:38	9.02	0.61	0.000	0.03	0.03
07/20/95	09:12:39	9.01	0.63	0.000	0.02	0.02
07/20/95	09:12:40	9.02	0.64	0.000	0.03	0.03
07/20/95	09:12:41	9.01	0.66	0.000	0.02	0.02
07/20/95	09:12:42	9.01	0.67	0.000	0.02	0.02
07/20/95	09:12:43	9.02	0.69	0.000	0.03	0.03
07/20/95	09:12:44	9.00	0.71	0.000	0.01	0.01
07/20/95	09:12:45	9.02	0.72	0.001	0.03	0.03
07/20/95	09:12:46	9.02	0.74	0.001	0.03	0.03
07/20/95	09:12:47	9.01	0.76	0.001	0.02	0.02
07/20/95	09:12:48	9.02	0.78	0.001	0.03	0.03
07/20/95	09:12:49	9.01	0.79	0.001	0.02	0.02
07/20/95	09:12:50	9.01	0.81	0.001	0.02	0.02

=====

SITE: NMPC ONEIDA

WELL: ES-10S

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.99 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/20/95	09:12:51	9.02	0.82	0.001	0.03	0.03
07/20/95	09:12:52	9.02	0.84	0.001	0.03	0.03
07/20/95	09:12:53	9.02	0.86	0.001	0.03	0.03
07/20/95	09:12:54	9.02	0.87	0.001	0.03	0.03
07/20/95	09:12:55	9.02	0.89	0.001	0.03	0.03
07/20/95	09:12:56	9.08	0.91	0.001	0.09	0.09
07/20/95	09:12:57	9.05	0.93	0.001	0.06	0.06
07/20/95	09:12:58	9.02	0.94	0.001	0.03	0.03
07/20/95	09:12:59	9.02	0.96	0.001	0.03	0.03
07/20/95	09:13:00	9.02	0.97	0.001	0.03	0.03
07/20/95	09:13:01	9.02	0.99	0.001	0.03	0.03
07/20/95	09:13:13	9.02	1.19	0.001	0.03	0.03
07/20/95	09:13:25	9.03	1.39	0.001	0.04	0.04
07/20/95	09:13:37	9.02	1.59	0.001	0.03	0.03
07/20/95	09:13:49	9.02	1.79	0.001	0.03	0.03
07/20/95	09:14:01	9.02	1.99	0.001	0.03	0.03
07/20/95	09:14:13	9.02	2.19	0.002	0.03	0.03
07/20/95	09:14:25	9.02	2.39	0.002	0.03	0.03
07/20/95	09:14:37	9.02	2.59	0.002	0.03	0.03
07/20/95	09:14:49	9.02	2.79	0.002	0.03	0.03
07/20/95	09:15:01	9.02	2.99	0.002	0.03	0.03
07/20/95	09:15:13	9.02	3.19	0.002	0.03	0.03
07/20/95	09:15:25	9.00	3.39	0.002	0.01	0.01
07/20/95	09:15:37	9.00	3.59	0.002	0.01	0.01
07/20/95	09:15:49	9.00	3.79	0.003	0.01	0.01
07/20/95	09:16:01	9.00	3.99	0.003	0.01	0.01
07/20/95	09:16:13	9.00	4.19	0.003	0.01	0.01
07/20/95	09:16:25	9.00	4.39	0.003	0.01	0.01
07/20/95	09:16:37	9.00	4.59	0.003	0.01	0.01
07/20/95	09:16:49	9.00	4.79	0.003	0.01	0.01
07/20/95	09:17:01	9.00	4.99	0.003	0.01	0.01
07/20/95	09:17:13	9.00	5.19	0.004	0.01	0.01
07/20/95	09:17:25	9.00	5.39	0.004	0.01	0.01
07/20/95	09:17:37	9.00	5.59	0.004	0.01	0.01
07/20/95	09:17:49	9.00	5.79	0.004	0.01	0.01

=====

SITE: NMPC ONEIDA

WELL: ES-10S

TIME OF SLUG INJ/WITH =

09:12:01 MILITARY TIME

STATIC WATER LEVEL =

8.99 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

128

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED	
			t (MINS)	t (DAYS)
07/20/95	09:18:01	8.97	5.99	0.004
07/20/95	09:18:13	9.00	6.19	0.004
07/20/95	09:18:25	9.00	6.39	0.004
07/20/95	09:18:37	9.00	6.59	0.005
07/20/95	09:18:49	9.00	6.79	0.005
07/20/95	09:19:01	9.00	6.99	0.005
07/20/95	09:19:13	9.00	7.19	0.005
07/20/95	09:19:25	9.00	7.39	0.005
07/20/95	09:19:37	9.00	7.59	0.005
07/20/95	09:19:49	9.00	7.79	0.005
07/20/95	09:20:01	9.00	7.99	0.006
07/20/95	09:20:13	9.00	8.19	0.006
07/20/95	09:20:25	9.00	8.39	0.006
07/20/95	09:20:37	9.00	8.59	0.006
07/20/95	09:20:49	9.00	8.79	0.006
07/20/95	09:21:01	9.00	8.99	0.006
07/20/95	09:21:13	9.00	9.19	0.006
07/20/95	09:21:25	9.00	9.39	0.007
07/20/95	09:21:37	9.00	9.59	0.007
07/20/95	09:21:49	9.00	9.79	0.007
07/20/95	09:22:01	8.99	9.99	0.007
07/20/95	09:24:01	9.00	11.99	0.008
07/20/95	09:26:01	9.00	13.99	0.010

=====

SITE: NMPC ONEIDA

WELL: ES-12

TIME OF SLUG INJ/WITH =

13:33:00 MILITARY TIME

STATIC WATER LEVEL =

15.95 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

102

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	13:33:00	15.95	-0.01	-0.000	0.00	0.00
07/19/95	13:33:00	16.83	0.00	0.000	0.88	0.88
07/19/95	13:33:01	15.95	0.01	0.000	0.00	0.00
07/19/95	13:33:02	16.75	0.02	0.000	0.80	0.80
07/19/95	13:33:02	17.03	0.02	0.000	1.08	1.08
07/19/95	13:33:02	17.26	0.03	0.000	1.31	1.31
07/19/95	13:33:03	17.28	0.04	0.000	1.33	1.33
07/19/95	13:33:03	17.25	0.05	0.000	1.30	1.30
07/19/95	13:33:04	17.20	0.06	0.000	1.25	1.25
07/19/95	13:33:05	17.15	0.07	0.000	1.20	1.20
07/19/95	13:33:05	17.11	0.07	0.000	1.16	1.16
07/19/95	13:33:05	17.08	0.08	0.000	1.13	1.13
07/19/95	13:33:06	17.04	0.09	0.000	1.09	1.09
07/19/95	13:33:06	17.00	0.10	0.000	1.05	1.05
07/19/95	13:33:07	16.96	0.11	0.000	1.01	1.01
07/19/95	13:33:08	16.93	0.12	0.000	0.97	0.97
07/19/95	13:33:08	16.92	0.12	0.000	0.97	0.97
07/19/95	13:33:08	16.87	0.13	0.000	0.92	0.92
07/19/95	13:33:09	16.84	0.14	0.000	0.89	0.89
07/19/95	13:33:09	16.79	0.15	0.000	0.84	0.84
07/19/95	13:33:10	16.76	0.16	0.000	0.81	0.81
07/19/95	13:33:11	16.74	0.17	0.000	0.79	0.79
07/19/95	13:33:11	16.70	0.17	0.000	0.75	0.75
07/19/95	13:33:11	16.68	0.18	0.000	0.73	0.73
07/19/95	13:33:12	16.65	0.19	0.000	0.70	0.70
07/19/95	13:33:12	16.62	0.20	0.000	0.67	0.67
07/19/95	13:33:13	16.60	0.21	0.000	0.65	0.65
07/19/95	13:33:14	16.57	0.22	0.000	0.62	0.62
07/19/95	13:33:14	16.55	0.22	0.000	0.60	0.60
07/19/95	13:33:14	16.52	0.23	0.000	0.57	0.57
07/19/95	13:33:15	16.49	0.24	0.000	0.54	0.54
07/19/95	13:33:15	16.48	0.25	0.000	0.53	0.53
07/19/95	13:33:16	16.46	0.26	0.000	0.51	0.51
07/19/95	13:33:17	16.43	0.27	0.000	0.48	0.48
07/19/95	13:33:17	16.41	0.27	0.000	0.46	0.46

=====

SITE: NMPC ONEIDA

WELL: ES-12

TIME OF SLUG INJ/WITH =

13:33:00 MILITARY TIME

STATIC WATER LEVEL =

15.95 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

102

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	13:33:17	16.39	0.28	0.000	0.44	0.44
07/19/95	13:33:18	16.37	0.29	0.000	0.42	0.42
07/19/95	13:33:18	16.36	0.30	0.000	0.41	0.41
07/19/95	13:33:19	16.34	0.31	0.000	0.39	0.39
07/19/95	13:33:20	16.33	0.32	0.000	0.38	0.38
07/19/95	13:33:20	16.31	0.32	0.000	0.36	0.36
07/19/95	13:33:21	16.29	0.34	0.000	0.34	0.34
07/19/95	13:33:22	16.26	0.36	0.000	0.31	0.31
07/19/95	13:33:23	16.24	0.37	0.000	0.29	0.29
07/19/95	13:33:24	16.22	0.39	0.000	0.27	0.27
07/19/95	13:33:25	16.20	0.41	0.000	0.25	0.25
07/19/95	13:33:26	16.19	0.42	0.000	0.24	0.24
07/19/95	13:33:27	16.18	0.44	0.000	0.23	0.23
07/19/95	13:33:28	16.17	0.46	0.000	0.22	0.22
07/19/95	13:33:29	16.15	0.48	0.000	0.20	0.20
07/19/95	13:33:30	16.15	0.49	0.000	0.20	0.20
07/19/95	13:33:31	16.13	0.51	0.000	0.18	0.18
07/19/95	13:33:32	16.12	0.52	0.000	0.17	0.17
07/19/95	13:33:33	16.12	0.54	0.000	0.17	0.17
07/19/95	13:33:34	16.11	0.56	0.000	0.16	0.16
07/19/95	13:33:35	16.11	0.57	0.000	0.16	0.16
07/19/95	13:33:36	16.11	0.59	0.000	0.16	0.16
07/19/95	13:33:37	16.10	0.61	0.000	0.15	0.15
07/19/95	13:33:38	16.10	0.63	0.000	0.14	0.14
07/19/95	13:33:39	16.07	0.64	0.000	0.12	0.12
07/19/95	13:33:40	16.08	0.66	0.000	0.13	0.13
07/19/95	13:33:41	16.07	0.67	0.000	0.12	0.12
07/19/95	13:33:42	16.07	0.69	0.000	0.12	0.12
07/19/95	13:33:43	16.06	0.71	0.000	0.11	0.11
07/19/95	13:33:44	16.07	0.72	0.001	0.12	0.12
07/19/95	13:33:45	16.08	0.74	0.001	0.13	0.13
07/19/95	13:33:46	16.08	0.76	0.001	0.13	0.13
07/19/95	13:33:47	16.08	0.78	0.001	0.13	0.13
07/19/95	13:33:48	16.08	0.79	0.001	0.13	0.13
07/19/95	13:33:49	16.08	0.81	0.001	0.13	0.13

=====

SITE: NMPC ONEIDA

WELL: ES-12

TIME OF SLUG INJ/WITH =

13:33:00 MILITARY TIME

STATIC WATER LEVEL =

15.95 FEET BELOW MEASURING POINT

TREND = (- = rising)

FEET PER MINUTE

NO. OF DTW READINGS =

102

INJECTION/WITHDRAWAL (1/2):

2

=====

DATE	TIME (24 HOUR)	DTW (FT)	RESIDUAL CORRECTED		IH/DD (FT)	IH/DD (FT)
			t (MINS)	t (DAYS)		
07/19/95	13:33:50	16.08	0.82	0.001	0.13	0.13
07/19/95	13:33:51	16.08	0.84	0.001	0.13	0.13
07/19/95	13:33:52	16.08	0.86	0.001	0.13	0.13
07/19/95	13:33:53	16.08	0.87	0.001	0.13	0.13
07/19/95	13:33:54	16.07	0.89	0.001	0.12	0.12
07/19/95	13:33:55	16.07	0.91	0.001	0.12	0.12
07/19/95	13:33:56	16.07	0.93	0.001	0.12	0.12
07/19/95	13:33:57	16.06	0.94	0.001	0.11	0.11
07/19/95	13:33:58	16.06	0.96	0.001	0.11	0.11
07/19/95	13:33:59	16.06	0.97	0.001	0.11	0.11
07/19/95	13:34:00	16.06	0.99	0.001	0.11	0.11
07/19/95	13:34:12	16.05	1.19	0.001	0.10	0.10
07/19/95	13:34:24	16.05	1.39	0.001	0.10	0.10
07/19/95	13:34:36	16.03	1.59	0.001	0.08	0.08
07/19/95	13:34:48	16.03	1.79	0.001	0.08	0.08
07/19/95	13:35:00	16.02	1.99	0.001	0.07	0.07
07/19/95	13:35:12	16.01	2.19	0.002	0.06	0.06
07/19/95	13:35:24	16.02	2.39	0.002	0.07	0.07
07/19/95	13:35:36	16.01	2.59	0.002	0.06	0.06
07/19/95	13:35:48	16.01	2.79	0.002	0.06	0.06
07/19/95	13:36:00	16.01	2.99	0.002	0.06	0.06
07/19/95	13:36:12	16.01	3.19	0.002	0.06	0.06
07/19/95	13:36:24	16.00	3.39	0.002	0.05	0.05
07/19/95	13:36:36	16.00	3.59	0.002	0.05	0.05
07/19/95	13:36:48	16.00	3.79	0.003	0.05	0.05
07/19/95	13:37:00	16.00	3.99	0.003	0.05	0.05
07/19/95	13:37:12	16.00	4.19	0.003	0.05	0.05
07/19/95	13:37:24	15.99	4.39	0.003	0.04	0.04
07/19/95	13:37:36	15.99	4.59	0.003	0.04	0.04
07/19/95	13:37:48	15.99	4.79	0.003	0.04	0.04
07/19/95	13:38:00	15.99	4.99	0.003	0.04	0.04
07/19/95	13:38:12	15.99	5.19	0.004	0.04	0.04

APPENDIX G

GROUNDWATER SAMPLING RECORDS

PARSONS ENGINEERING SCIENCE, INC.

PAESSYR01\VOL1:WP726521.03\26521R14.WW6
April 10, 1997/1:55 PM

NMPC ONEIDA
GROUNDWATER SAMPLE RECORDS
ROUND 1

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-1	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		37	37
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		27	27
(f) LENGTH OF SAND PACK	c-e	10	10
(g) DEPTH TO WATER (TOC)		11.21	11.17
(h) FEET OF WATER	c+b-g	28.29	28.33
(i) FEET SATURATED SAND PACK	h or f	10.00	10.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	25.60	25.60
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.60	1.60
(l) VOL. WATER IN SAND PACK	.3*(j-k)	7.20	7.20
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	4.85	4.85
(n) WELL VOLUME	l+m	12.05	12.05
(o) PURGE VOLUME (GOAL)	m*3 or n	14.54	14.56
(p) PURGE VOLUME (ACTUAL)		15	

CONDUCTIVITY (uS/cm) 1,170

TEMPERATURE (deg. F) 57.8

pH 6.50

ODOR NONE

COLOR CLEAR

SHEEN NONE

SAMPLING DATE/TIME 7 / 26 / 95 @ 1130

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0705

COMMENTS PURGED W/ PUMP, SAMPLED W/ BAILER

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-2	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		38	38
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		26	26
(f) LENGTH OF SAND PACK	c - e	12	12
(g) DEPTH TO WATER (TOC)		9.83	9.71
(h) FEET OF WATER	c + b - g	30.67	30.79
(i) FEET SATURATED SAND PACK	h or f	12.00	12.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	30.72	30.72
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.92	1.92
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	8.64	8.64
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	5.23	5.25
(n) WELL VOLUME	l + m	13.87	13.89
(o) PURGE VOLUME (GOAL)	m * 3 or n	15.68	15.74
(p) PURGE VOLUME (ACTUAL)		17	

CONDUCTIVITY (uS/cm) 2,010

TEMPERATURE (deg. F) 64.5

pH 7.30

ODOR NONE

COLOR CLEAR-GRAY

SHEEN NONE

SAMPLING DATE/TIME 7 / 27 / 95 @ 1045

SAMPLE ANALYZED FOR TCL VOA, SVOA, P/P, METALS, CYANIDE, CONVENTIONALS

CHAIN OF CUSTODY NUMBER 0706

COMMENTS PURGED W/ PUMP, SAMPLED W/ BAILER

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-2S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.83	8.55
(h) FEET OF WATER	c+b-g	8.67	8.95
(i) FEET SATURATED SAND PACK	h or f	8.67	8.95
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	22.20	22.91
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.39	1.43
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.24	6.44
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.39	1.43
(n) WELL VOLUME	l+m	7.63	7.88
(o) PURGE VOLUME (GOAL)	m*3 or n	7.63	7.88
(p) PURGE VOLUME (ACTUAL)		9	

CONDUCTIVITY (uS/cm) 1,410

TEMPERATURE (deg. F) 62.4

pH 5.57

ODOR STRONG NAPTH-LIKE

COLOR CLEAR-YELLOW

SHEEN MODERATE

SAMPLING DATE/TIME 7 / 27 / 95 @ 1000

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0706

COMMENTS Duplicate collected (ID:ES-102S)

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-3	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		28.5	28.5
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		16	16
(f) LENGTH OF SAND PACK	c-e	12.5	12.5
(g) DEPTH TO WATER (TOC)		11.29	11.33
(h) FEET OF WATER	c+b-g	19.71	19.67
(i) FEET SATURATED SAND PACK	h or f	12.50	12.50
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	32.00	32.00
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	2.00	2.00
(l) VOL. WATER IN SAND PACK	.3*(j-k)	9.00	9.00
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	3.47	3.47
(n) WELL VOLUME	l+m	12.47	12.47
(o) PURGE VOLUME (GOAL)	m*3 or n	12.47	12.47
(p) PURGE VOLUME (ACTUAL)		20	

CONDUCTIVITY (uS/cm) 1,200

TEMPERATURE (deg. F) 61.2

pH 6.80

ODOR NONE

COLOR CLEAR-GRAY

SHEEN TRACE

SAMPLING DATE/TIME 7 / 27 / 95 @ 1325

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0706

COMMENTS PURGED W/ PUMP, SAMPLED W/ BAILER

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-3S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		9.25	8.20
(h) FEET OF WATER	c+b-g	8.25	9.30
(i) FEET SATURATED SAND PACK	h or f	8.25	9.30
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	21.12	23.81
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.32	1.49
(l) VOL. WATER IN SAND PACK	.3*(j-k)	5.94	6.70
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.32	1.49
(n) WELL VOLUME	l+m	7.26	8.18
(o) PURGE VOLUME (GOAL)	m*3 or n	7.26	8.18
(p) PURGE VOLUME (ACTUAL)		10	

CONDUCTIVITY (uS/cm) 1,620

TEMPERATURE (deg. F) 63.2

pH 6.89

ODOR HUMIC

COLOR BROWN, NOT CLOUDY

SHEEN NONE

SAMPLING DATE/TIME 7 / 26 / 95 @ 1620

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0705

COMMENTS BAILED, MS/MSD sets collected

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-4	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		46	46
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		34	34
(f) LENGTH OF SAND PACK	c-e	12	12
(g) DEPTH TO WATER (TOC)		10.30	10.47
(h) FEET OF WATER	c+b-g	38.20	38.03
(i) FEET SATURATED SAND PACK	h or f	12.00	12.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	30.72	30.72
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.92	1.92
(l) VOL. WATER IN SAND PACK	.3*(j-k)	8.64	8.64
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	6.43	6.40
(n) WELL VOLUME	l+m	15.07	15.04
(o) PURGE VOLUME (GOAL)	m*3 or n	19.30	19.21
(p) PURGE VOLUME (ACTUAL)		15 - DRY	

CONDUCTIVITY (uS/cm)	1,160
TEMPERATURE (deg. F)	65.3
pH	6.50
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	7 / 25 / 95 @ 1535
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE
CHAIN OF CUSTODY NUMBER	0704
COMMENTS	PURGED W/ PUMP, SAMPLED W/ BAILER

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-4S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		10.86	11.08
(h) FEET OF WATER	c+b-g	6.64	6.42
(i) FEET SATURATED SAND PACK	h or f	6.64	6.42
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	17.00	16.44
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.06	1.03
(l) VOL. WATER IN SAND PACK	.3*(j-k)	4.78	4.62
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.06	1.03
(n) WELL VOLUME	l+m	5.84	5.65
(o) PURGE VOLUME (GOAL)	m*3 or n	5.84	5.65
(p) PURGE VOLUME (ACTUAL)		6	

CONDUCTIVITY (uS/cm)	1,780
TEMPERATURE (deg. F)	64.5
pH	6.76
ODOR	FUEL OIL-LIKE
COLOR	BROWN
SHEEN	HEAVY
SAMPLING DATE/TIME	7 / 25 / 95 @ 1520
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE
CHAIN OF CUSTODY NUMBER	0704
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-5	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		6.00	5.81
(h) FEET OF WATER	c+b-g	11.50	11.69
(i) FEET SATURATED SAND PACK	h or f	11.00	11.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	28.16	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.76	1.76
(l) VOL. WATER IN SAND PACK	.3*(j-k)	7.92	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	2.16	2.19
(n) WELL VOLUME	l+m	10.08	10.11
(o) PURGE VOLUME (GOAL)	m*3 or n	10.08	10.11
(p) PURGE VOLUME (ACTUAL)		11	

CONDUCTIVITY (uS/cm) 1,003

TEMPERATURE (deg. F) 61.3

pH 7.14

ODOR SEPTIC & NAPTH.

COLOR DARK GRAY

SHEEN NONE

SAMPLING DATE/TIME 7 /26 / 95 @ 1320

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P, METALS,CYANIDE,CONVENTIONALS

CHAIN OF CUSTODY NUMBER 0705

COMMENTS BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-6	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.44	9.54
(h) FEET OF WATER	c+b-g	9.06	7.96
(i) FEET SATURATED SAND PACK	h or f	9.06	7.96
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	23.19	20.38
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.45	1.27
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.52	5.73
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.77	1.59
(n) WELL VOLUME	l+m	8.29	7.32
(o) PURGE VOLUME (GOAL)	m*3 or n	8.29	7.32
(p) PURGE VOLUME (ACTUAL)		8	

CONDUCTIVITY (uS/cm) 960

TEMPERATURE (deg. F) 60.5

pH 7.73

ODOR NONE

COLOR LIGHT BROWN

SHEEN NONE

SAMPLING DATE/TIME 7 / 26 / 95 @ 1400

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0705

COMMENTS BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-7	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.44	7.79
(h) FEET OF WATER	c+b-g	6.06	6.71
(i) FEET SATURATED SAND PACK	h or f	6.06	6.71
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	15.51	17.18
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	0.97	1.07
(l) VOL. WATER IN SAND PACK	.3*(j-k)	4.36	4.83
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	0.97	1.07
(n) WELL VOLUME	l+m	5.33	5.90
(o) PURGE VOLUME (GOAL)	m*3 or n	5.33	5.90
(p) PURGE VOLUME (ACTUAL)		4-DRY	

CONDUCTIVITY (uS/cm)	1,350
TEMPERATURE (deg. F)	58.7
pH	6.38
ODOR	STRONG SEPTIC
COLOR	LIGHT BROWN
SHEEN	TRACE
SAMPLING DATE/TIME	7 / 27 / 95 @ 0825
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE,CONVENTIONALS
CHAIN OF CUSTODY NUMBER	0706
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-8	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.44	9.15
(h) FEET OF WATER	c+b-g	6.06	5.35
(i) FEET SATURATED SAND PACK	h or f	6.06	5.35
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	15.51	13.70
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	0.97	0.86
(l) VOL. WATER IN SAND PACK	.3*(j-k)	4.36	3.85
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	0.97	0.86
(n) WELL VOLUME	l+m	5.33	4.71
(o) PURGE VOLUME (GOAL)	m*3 or n	5.33	4.71
(p) PURGE VOLUME (ACTUAL)		5	

CONDUCTIVITY (uS/cm)	1,620
TEMPERATURE (deg. F)	64.8
pH	6.47
ODOR	NONE
COLOR	CLOUDY GRAY
SHEEN	NONE
SAMPLING DATE/TIME	7 / 25 / 95 @ 1615
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE
CHAIN OF CUSTODY NUMBER	0704
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-10	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		48	48
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		35	35
(f) LENGTH OF SAND PACK	c - e	13	13
(g) DEPTH TO WATER (TOC)		8.39	8.71
(h) FEET OF WATER	c + b - g	39.11	38.79
(i) FEET SATURATED SAND PACK	h or f	13.00	13.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	33.28	33.28
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	2.08	2.08
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	9.36	9.36
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	6.58	6.53
(n) WELL VOLUME	l + m	15.94	15.89
(o) PURGE VOLUME (GOAL)	m * 3 or n	19.73	19.58
(p) PURGE VOLUME (ACTUAL)		20	

CONDUCTIVITY (mV)	21.4
TEMPERATURE (deg. F)	59.0
pH	7.33
ODOR	NONE
COLOR	GRAY
SHEEN	NONE

SAMPLING DATE/TIME 7 / 25 / 95 @ 1240

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE,CONVENTIONALS

CHAIN OF CUSTODY NUMBER 0704

COMMENTS PURGED W/ PUMP, SAMPLED W/ BAILER

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-10S	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.99	9.05
(h) FEET OF WATER	c+b-g	5.51	5.45
(i) FEET SATURATED SAND PACK	h or f	5.51	5.45
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	14.11	13.95
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	0.88	0.87
(l) VOL. WATER IN SAND PACK	.3*(j-k)	3.97	3.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	0.88	0.87
(n) WELL VOLUME	l+m	4.85	4.80
(o) PURGE VOLUME (GOAL)	m*3 or n	4.85	4.80
(p) PURGE VOLUME (ACTUAL)		5	

CONDUCTIVITY (mV)	63.5
TEMPERATURE (deg. F)	59.0
pH	6.62
ODOR	NONE
COLOR	BROWN
SHEEN	NONE
SAMPLING DATE/TIME	7 / 25 / 95 @ 1140

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE,CONVENTIONALS

CHAIN OF CUSTODY NUMBER 0704

COMMENTS PURGED W/ PUMP, SAMPLED W/ BAILER

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-11	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		7.50	4.75
(h) FEET OF WATER	c+b-g	10.00	12.75
(i) FEET SATURATED SAND PACK	h or f	10.00	11.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	25.60	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.60	1.76
(l) VOL. WATER IN SAND PACK	.3*(j-k)	7.20	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.60	2.04
(n) WELL VOLUME	l+m	8.80	9.96
(o) PURGE VOLUME (GOAL)	m*3 or n	8.80	9.96
(p) PURGE VOLUME (ACTUAL)		10	

CONDUCTIVITY (uS/cm) 872

TEMPERATURE (deg. F) 61.7

pH 6.45

ODOR NONE

COLOR SL. CLOUDY BROWN

SHEEN NONE

SAMPLING DATE/TIME 7 / 26 / 95 @ 0905

SAMPLE ANALYZED FOR TCL VOA,SVOA,P/P,METALS,CYANIDE

CHAIN OF CUSTODY NUMBER 0705

COMMENTS BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-12	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		22	22
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		11	11
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		15.95	16.18
(h) FEET OF WATER	c+b-g	8.55	8.32
(i) FEET SATURATED SAND PACK	h or f	8.55	8.32
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	21.89	21.30
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.37	1.33
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.16	5.99
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.37	1.33
(n) WELL VOLUME	l+m	7.52	7.32
(o) PURGE VOLUME (GOAL)	m*3 or n	7.52	7.32
(p) PURGE VOLUME (ACTUAL)		8	

CONDUCTIVITY (uS/cm)	1,500
TEMPERATURE (deg. F)	67.4
pH	6.40
ODOR	NONE
COLOR	SL. CLOUDY BROWN
SHEEN	NONE
SAMPLING DATE/TIME	7 / 26 / 95 @ 0945
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE
CHAIN OF CUSTODY NUMBER	0705
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-13	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		9.00	8.53
(h) FEET OF WATER	c+b-g	8.50	8.97
(i) FEET SATURATED SAND PACK	h or f	8.50	8.97
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	21.76	22.96
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.36	1.44
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.12	6.46
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.36	1.44
(n) WELL VOLUME	l+m	7.48	7.89
(o) PURGE VOLUME (GOAL)	m*3 or n	7.48	7.89
(p) PURGE VOLUME (ACTUAL)		8-DRY	

CONDUCTIVITY (uS/cm)	842
TEMPERATURE (deg. F)	59.2
pH	6.64
ODOR	NONE
COLOR	BROWN
SHEEN	NONE
SAMPLING DATE/TIME	7 / 26 / 95 @ 1030
SAMPLE ANALYZED FOR	TCL VOA,SVOA,P/P,METALS,CYANIDE
CHAIN OF CUSTODY NUMBER	0705
COMMENTS	BAILED

NMPC ONEIDA
GROUNDWATER SAMPLE RECORDS
ROUND 2

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-1	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		37	37
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		27	27
(f) LENGTH OF SAND PACK	c-e	10	10
(g) DEPTH TO WATER (TOC)		11.17	10.06
(h) FEET OF WATER	c+b-g	28.33	29.44
(i) FEET SATURATED SAND PACK	h or f	10.00	10.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	25.60	25.60
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.60	1.60
(l) VOL. WATER IN SAND PACK	.3*(j-k)	7.20	7.20
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	4.85	5.03
(n) WELL VOLUME	l+m	12.05	12.23
(o) PURGE VOLUME (GOAL)	m*3 or n	14.56	15.09
(p) PURGE VOLUME (ACTUAL)		15	

CONDUCTIVITY (uS/cm)	2,150
TEMPERATURE (deg. F)	55.2
pH	6.60
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0935
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-2S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.55	7.00
(h) FEET OF WATER	c+b-g	8.95	10.50
(i) FEET SATURATED SAND PACK	h or f	8.95	10.50
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	22.91	26.88
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.43	1.68
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.44	7.56
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.43	1.68
(n) WELL VOLUME	l+m	7.88	9.24
(o) PURGE VOLUME (GOAL)	m*3 or n	7.88	9.24
(p) PURGE VOLUME (ACTUAL)		9.5	

CONDUCTIVITY (uS/cm)	2,520
TEMPERATURE (deg. F)	47.3
pH	5.50
ODOR	HEAVY COAL TAR
COLOR	CLEAR
SHEEN	SLIGHT NAPL
SAMPLING DATE/TIME	12 / 7 / 95 @ 1000
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-2	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		38	38
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		26	26
(f) LENGTH OF SAND PACK	c - e	12	12
(g) DEPTH TO WATER (TOC)		9.71	8.60
(h) FEET OF WATER	c + b - g	30.79	31.90
(i) FEET SATURATED SAND PACK	h or f	12.00	12.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	30.72	30.72
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.92	1.92
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	8.64	8.64
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	5.25	5.42
(n) WELL VOLUME	l + m	13.89	14.06
(o) PURGE VOLUME (GOAL)	m * 3 or n	15.74	16.27
(p) PURGE VOLUME (ACTUAL)		14	

CONDUCTIVITY (uS/cm)	4,530
TEMPERATURE (deg. F)	48.7
pH	6.20
ODOR	SLIGHT
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1030
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-3S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		8.20	6.72
(h) FEET OF WATER	c+b-g	9.30	10.78
(i) FEET SATURATED SAND PACK	h or f	9.30	10.78
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	23.81	27.60
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.49	1.72
(l) VOL. WATER IN SAND PACK	.3*(j-k)	6.70	7.76
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.49	1.72
(n) WELL VOLUME	l+m	8.18	9.49
(o) PURGE VOLUME (GOAL)	m*3 or n	8.18	9.49
(p) PURGE VOLUME (ACTUAL)		10	

CONDUCTIVITY (uS/cm)	1,590
TEMPERATURE (deg. F)	50.7
pH	6.70
ODOR	SLIGHT
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1045
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-3	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		28.5	28.5
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		16	16
(f) LENGTH OF SAND PACK	c-e	12.5	12.5
(g) DEPTH TO WATER (TOC)		11.33	10.10
(h) FEET OF WATER	c+b-g	19.67	20.90
(i) FEET SATURATED SAND PACK	h or f	12.50	12.50
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	32.00	32.00
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	2.00	2.00
(l) VOL. WATER IN SAND PACK	.3*(j-k)	9.00	9.00
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	3.47	3.66
(n) WELL VOLUME	l+m	12.47	12.66
(o) PURGE VOLUME (GOAL)	m*3 or n	12.47	12.66
(p) PURGE VOLUME (ACTUAL)		14	

CONDUCTIVITY (uS/cm)	2,860
TEMPERATURE (deg. F)	55.1
pH	6.70
ODOR	SLIGHT
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1040
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES - 4S	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c - e	11	11
(g) DEPTH TO WATER (TOC)		11.08	9.68
(h) FEET OF WATER	c + b - g	6.42	7.82
(i) FEET SATURATED SAND PACK	h or f	6.42	7.82
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	16.44	20.02
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.03	1.25
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	4.62	5.63
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	1.03	1.25
(n) WELL VOLUME	l + m	5.65	6.88
(o) PURGE VOLUME (GOAL)	m * 3 or n	5.65	6.88
(p) PURGE VOLUME (ACTUAL)		7	

CONDUCTIVITY (uS/cm)	3,430
TEMPERATURE (deg. F)	49.0
pH	6.30
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0840
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-4	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		46	46
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		34	34
(f) LENGTH OF SAND PACK	c-e	12	12
(g) DEPTH TO WATER (TOC)		10.47	9.12
(h) FEET OF WATER	c+b-g	38.03	39.38
(i) FEET SATURATED SAND PACK	h or f	12.00	12.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	30.72	30.72
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.92	1.92
(l) VOL. WATER IN SAND PACK	.3*(j-k)	8.64	8.64
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	6.40	6.62
(n) WELL VOLUME	l+m	15.04	15.26
(o) PURGE VOLUME (GOAL)	m*3 or n	19.21	19.86
(p) PURGE VOLUME (ACTUAL)		15	

CONDUCTIVITY (uS/cm)	2,130
TEMPERATURE (deg. F)	51.2
pH	6.40
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0835
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-5	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c - e	11	11
(g) DEPTH TO WATER (TOC)		5.81	5.20
(h) FEET OF WATER	c + b - g	11.69	12.30
(i) FEET SATURATED SAND PACK	h or f	11.00	11.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	28.16	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.76	1.76
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	7.92	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	2.19	2.29
(n) WELL VOLUME	l + m	10.11	10.21
(o) PURGE VOLUME (GOAL)	m * 3 or n	10.11	10.21
(p) PURGE VOLUME (ACTUAL)		11	

CONDUCTIVITY (uS/cm)	2,040
TEMPERATURE (deg. F)	54.1
pH	6.70
ODOR	COAL TAR
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1110
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-6	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		9.54	7.94
(h) FEET OF WATER	c+b-g	7.96	9.56
(i) FEET SATURATED SAND PACK	h or f	7.96	9.56
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	20.38	24.47
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.27	1.53
(l) VOL. WATER IN SAND PACK	.3*(j-k)	5.73	6.88
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.59	1.85
(n) WELL VOLUME	l+m	7.32	8.73
(o) PURGE VOLUME (GOAL)	m*3 or n	7.32	8.73
(p) PURGE VOLUME (ACTUAL)		9	

CONDUCTIVITY (uS/cm)	2,020
TEMPERATURE (deg. F)	64.0
pH	6.60
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1245
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001

COMMENTS BAILED, HEXANE RINSED FROM PAH BOTTLE PRIOR TO SAMPLING

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-7	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		7.79	5.68
(h) FEET OF WATER	c+b-g	6.71	8.82
(i) FEET SATURATED SAND PACK	h or f	6.71	8.82
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	17.18	22.58
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.07	1.41
(l) VOL. WATER IN SAND PACK	.3*(j-k)	4.83	6.35
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	1.07	1.41
(n) WELL VOLUME	l+m	5.90	7.76
(o) PURGE VOLUME (GOAL)	m*3 or n	5.90	7.76
(p) PURGE VOLUME (ACTUAL)		8	

CONDUCTIVITY (uS/cm)	2,430
TEMPERATURE (deg. F)	50.1
pH	6.10
ODOR	COAL TAR
COLOR	DARK GRAY
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0950
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-8	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		9.15	7.45
(h) FEET OF WATER	c+b-g	5.35	7.05
(i) FEET SATURATED SAND PACK	h or f	5.35	7.05
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	13.70	18.05
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	0.86	1.13
(l) VOL. WATER IN SAND PACK	.3*(j-k)	3.85	5.08
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	0.86	1.13
(n) WELL VOLUME	l+m	4.71	6.20
(o) PURGE VOLUME (GOAL)	m*3 or n	4.71	6.20
(p) PURGE VOLUME (ACTUAL)		6.2	

CONDUCTIVITY (uS/cm)	3,870
TEMPERATURE (deg. F)	50.4
pH	6.50
ODOR	SLIGHT
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0900
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	Duplicate collected (ID:ES-108)

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-10	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		48	48
(d) LENGTH OF SUMP		2	2
(e) TOP OF SAND PACK DEPTH		35	35
(f) LENGTH OF SAND PACK	c-e	13	13
(g) DEPTH TO WATER (TOC)		8.71	7.32
(h) FEET OF WATER	c+b-g	38.79	40.18
(i) FEET SATURATED SAND PACK	h or f	13.00	13.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	33.28	33.28
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	2.08	2.08
(l) VOL. WATER IN SAND PACK	.3*(j-k)	9.36	9.36
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	6.53	6.75
(n) WELL VOLUME	l+m	15.89	16.11
(o) PURGE VOLUME (GOAL)	m*3 or n	19.58	20.25
(p) PURGE VOLUME (ACTUAL)		16.5	

CONDUCTIVITY (mV)	3,710
TEMPERATURE (deg. F)	51.1
pH	6.50
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0810
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-10S	
(b) FEET OF STICKUP		-0.5	-0.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		9.05	7.72
(h) FEET OF WATER	c+b-g	5.45	6.78
(i) FEET SATURATED SAND PACK	h or f	5.45	6.78
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	13.95	17.36
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	0.87	1.08
(l) VOL. WATER IN SAND PACK	.3*(j-k)	3.92	4.88
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	0.87	1.08
(n) WELL VOLUME	l+m	4.80	5.97
(o) PURGE VOLUME (GOAL)	m*3 or n	4.80	5.97
(p) PURGE VOLUME (ACTUAL)		6	

CONDUCTIVITY (mV)	11,210
TEMPERATURE (deg. F)	55.1
pH	6.50
ODOR	NONE
COLOR	BROWN-GRAY
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 0805
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1002
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-11	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c-e	11	11
(g) DEPTH TO WATER (TOC)		4.75	3.81
(h) FEET OF WATER	c+b-g	12.75	13.69
(i) FEET SATURATED SAND PACK	h or f	11.00	11.00
(j) VOL. WATER IN SAND PACK RANGE	i*2.56	28.16	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i*.16	1.76	1.76
(l) VOL. WATER IN SAND PACK	.3*(j-k)	7.92	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h+d)*.16	2.04	2.19
(n) WELL VOLUME	l+m	9.96	10.11
(o) PURGE VOLUME (GOAL)	m*3 or n	9.96	10.11
(p) PURGE VOLUME (ACTUAL)		11	

CONDUCTIVITY (uS/cm)	1,990
TEMPERATURE (deg. F)	43.3
pH	6.70
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1230
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES-12	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		22	22
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		11	11
(f) LENGTH OF SAND PACK	c - e	11	11
(g) DEPTH TO WATER (TOC)		16.18	12.98
(h) FEET OF WATER	c + b - g	8.32	11.52
(i) FEET SATURATED SAND PACK	h or f	8.32	11.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	21.30	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.33	1.76
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	5.99	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	1.33	1.84
(n) WELL VOLUME	l + m	7.32	9.76
(o) PURGE VOLUME (GOAL)	m * 3 or n	7.32	9.76
(p) PURGE VOLUME (ACTUAL)		9	

CONDUCTIVITY (uS/cm)	2,430
TEMPERATURE (deg. F)	53.8
pH	6.40
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1315
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001
COMMENTS	BAILED

**WELL PURGE CALCULATIONS AND SAMPLING RECORD
NIAGARA MOHAWK POWER CORPORATION
ONEIDA (SCONONDOA STREET) RI/FS**

	CALCULATION	ASSUMED	ACTUAL
(a) WELL ID		ES - 13	
(b) FEET OF STICKUP		2.5	2.5
(c) SCREEN DEPTH		15	15
(d) LENGTH OF SUMP		0	0
(e) TOP OF SAND PACK DEPTH		4	4
(f) LENGTH OF SAND PACK	c - e	11	11
(g) DEPTH TO WATER (TOC)		8.53	5.10
(h) FEET OF WATER	c + b - g	8.97	12.40
(i) FEET SATURATED SAND PACK	h or f	8.97	11.00
(j) VOL. WATER IN SAND PACK RANGE	i * 2.56	22.96	28.16
(k) VOL. WATER IN CASING IN SAND PACK	i * .16	1.44	1.76
(l) VOL. WATER IN SAND PACK	.3 * (j - k)	6.46	7.92
(m) VOL. WATER IN ENTIRE CASING & SUMP	(h + d) * .16	1.44	1.98
(n) WELL VOLUME	l + m	7.89	9.90
(o) PURGE VOLUME (GOAL)	m * 3 or n	7.89	9.90
(p) PURGE VOLUME (ACTUAL)		11	

CONDUCTIVITY (uS/cm)	1,770
TEMPERATURE (deg. F)	56.2
pH	6.80
ODOR	NONE
COLOR	CLEAR
SHEEN	NONE
SAMPLING DATE/TIME	12 / 7 / 95 @ 1300
SAMPLE ANALYZED FOR	BTEX, PAH, CYANIDE
CHAIN OF CUSTODY NUMBER	1001
COMMENTS	BAILED

APPENDIX H

ENSYS FIELD SCREENING RESULTS

PARSONS ENGINEERING SCIENCE, INC.

PAESSYR01\VOL1:WP\726521.03\26521R14.WW6
April 10, 1997/1:55 PM

TABLE H.1
NIAGARA MOHAWK POWER CORPORATION
ONEIDA, SCONONDOA STREET SITE
PAH FIELD SCREENING RESULTS FOR SUBSURFACE SOILS

Sample #	Sample Date	Sample Interval (feet)	Field Screening Conclusion
B-1	07/26/93	28-30'	> = 1 ppm
B-1	07/26/93	30-32'	< 1 ppm
B-2	08/26/93	10-12'	> = 1 ppm
B-2	08/26/93	14-16'	> = 1 ppm
B-2	08/26/93	18-20'	> = 1 ppm
B-3	07/27/93	26-28'	< 1 ppm
B-4	07/28/93	28-30'	< 1 ppm
B-5	07/28/93	14-16'	< 1 ppm
B-6	07/29/93	26-28'	< 1 ppm
B-7	07/29/93	22-24'	> = 1 ppm
B-7	07/29/93	30-32'	< 1 ppm
B-8	07/30/93	22-24'	> = 1 ppm
B-8	07/30/93	26-28'	< 1 ppm
B-9	07/30/93	16-18'	< 1 ppm
B-10	08/02/93	38-40'	> = 1 ppm
B-10	08/02/93	40-42'	< 1 ppm
B-11	08/03/93	26-28'	< 1 ppm
B-12	08/03/93	10-12'	> = 1 ppm
B-12	08/03/93	22-24'	< 1 ppm
B-13	08/06/93	10-12'	< 1 ppm
B-14	08/18/93	8-10'	< 1 ppm
B-15	09/20/93	14-16'	< 1 ppm
B-17	09/21/93	12-14'	> = 1 ppm
B-17	09/21/93	16-18'	< 1 ppm
B-19	09/22/93	18-20'	> = 1 ppm
B-19	09/22/93	20-22'	< 1 ppm
B-20	09/22/93	12-14'	> = 1 ppm
B-20	09/22/93	16-18'	< 1 ppm
B-21	09/23/93	12-14'	< 1 ppm
B-22	09/23/93	22-24'	> = 1 ppm
B-22	09/23/93	26-28'	< 1 ppm
B-23	09/23/93	14-16'	< 1 ppm
B-23	09/23/93	26-28'	> = 1 ppm
ES-1	08/05/93	28-30'	< 1 ppm
ES-2	08/04/93	34-36'	< 1 ppm
ES-3	08/04/93	28-30'	> = 1 ppm
ES-4	08/05/93	18-20'	< 1 ppm
ES-5	09/20/93	10-12'	> = 100 ppm
ES-5	09/20/93	16-18'	< 1 ppm
ES-6	09/21/93	14-16'	> = 1 ppm
ES-6	09/21/93	16-18'	< 1 ppm

TABLE H.2
NIAGARA MOHAWK POWER CORPORATION
ONEIDA, SCONONDOA STREET SITE
PAH FIELD SCREENING RESULTS FOR SEDIMENT

Sample #	Sample Date	Sample Method	Sample Interval (feet)	1 ppm Conclusion	100 ppm Conclusion
SED-1	7/28/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-2	7/28/93	SS Spoon	0-0.5'	>1 ppm	>100 ppm
SED-3	7/28/93	SS Spoon	0-0.5'	>1 ppm	>100 ppm
SED-6	7/28/93	SS Spoon	0-0.5'	>1 ppm	>100 ppm
SED-7	7/28/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-9	7/29/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-OC	7/29/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-10	7/29/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-DPW	7/29/93	SS Spoon	0-0.5'	>1 ppm	<100 ppm
SED-18	6/27/95	Hand Auger	1-2'	>1 ppm	<100 ppm
SED-19	6/27/95	Hand Auger	2-3'	>1 ppm	<100 ppm
SED-19	6/27/95	Hand Auger	0.5-1'	>1 ppm	<100 ppm
SED-20	6/28/95	Hand Auger	0.5-1'	>1 ppm	>100 ppm
SED-20	6/28/95	Hand Auger	1.5-2'	>1 ppm	>100 ppm
SED-20	6/28/95	Hand Auger	3-3.5'	>1 ppm	>100 ppm
SED-21	6/28/95	Hand Auger	0-0.5'	>1 ppm	>100 ppm
SED-21	6/28/95	Hand Auger	0.5-1'	>1 ppm	>100 ppm
SED-21	6/28/95	Hand Auger	3-3.5'	>1 ppm	>100 ppm
SED-23A	6/28/95	Hand Auger	0-0.5'	<1 ppm	<100 ppm
SED-27A	6/29/95	Hand Auger	0-0.5'	<1 ppm	<100 ppm
SED-28A	6/29/95	Hand Auger	0-0.5'	>1 ppm	<100 ppm
SED-23B	6/30/95	Hand Auger	3-3.5'	>1 ppm	<100 ppm
SED-24B	6/30/95	Hand Auger	2.5-3'	>1 ppm	>100 ppm

TABLE H.3
NIAGARA MOHAWK POWER CORPORATION
ONEIDA, SCONONDOA STREET SITE
PAH FIELD SCREENING RESULTS FOR DREDGE SPOILS

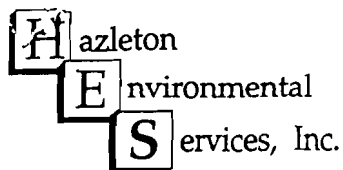
Sample #	Sample Date	Sample Method	Sample Depth (feet)	1 ppm Conclusion	100 ppm Conclusion
SB -01	6/26/95	Hand Auger	4.3'	> 1 ppm	> 100 ppm
SB-03	6/26/95	Hand Auger	2.5'	> 1 ppm	< 100 ppm
SB-04	6/26/95	Hand Auger	3'	> 1 ppm	< 100 ppm
SB-05	6/26/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-06	6/26/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-07	6/27/95	Hand Auger	3.2'	> 1 ppm	< 100 ppm
SB-08	6/27/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-09	6/27/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-10	6/27/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-11	6/27/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-12	6/27/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-13	6/27/95	Hand Auger	3.5'	> 1 ppm	< 100 ppm
SB-14	6/27/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-15	6/27/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-17	6/28/95	Hand Auger	4.3'	> 1 ppm	> 100 ppm
SB-18	6/28/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-19	6/28/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-20	6/28/95	Hand Auger	4.3'	> 1 ppm	> 100 ppm
SB-21	6/28/95	Hand Auger	4.3'	> 1 ppm	< 100 ppm
SB-22	6/28/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-23	6/28/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-24	6/29/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm
SB-25	6/29/95	Hand Auger	4.3'	< 1 ppm	< 100 ppm

APPENDIX I

FISH TISSUE SAMPLE DATA

PARSONS ENGINEERING SCIENCE, INC.

PAESSYR01\VOL1:WP\726521.03\26521R14.WW6
April 10, 1997/1:55 PM



525 SCIENCE DRIVE • MADISON, WISCONSIN 53711

HES, Inc.

December 15, 1995

Randy Youngman
Parsons Engineering Science Inc.
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

Dear Mr. Youngman:

Enclosed are the data packages for the PCB, Polynuclear Aromatic Hydrocarbon (PAH), and the inorganic analysis of 11 biota samples. These samples were received on October 31, 1995 from the NMPC Oneida Investigation as documented on the attached original Chain of Custody record. Also attached to this letter is a tabular listing cross referencing our LIMS numbers to your sample IDs.

A diskette containing the results is also included.

SAMPLE PREPARATION

The samples were prepared in a separate room used exclusively for the preparation of samples away from the lab areas. The samples were thawed slightly, chopped into pieces, and then homogenized in an industrial blender in the presence of liquid nitrogen. The homogenized sample was then placed in a glass jar and covered with a Teflon coated lid. All samples were stored frozen until being extracted.

SAMPLE EXTRACTION

PAHs: Twenty grams of sample, if available, was dried with sodium sulfate and extracted with methylene chloride in a soxhlet extractor for 16 hours. The samples were GPC'd to remove lipids and other contaminants. The extracts were then reduced to 1 mL prior to analysis by HPLC. Results are reported on a wet-weight basis.

Mr. Youngman
December 15, 1995
Page 2

PCBs: Twenty grams of sample, if available, was dried with sodium sulfate and extracted with methylene chloride in a soxhlet extractor for 16 hours. The extract was reduced to 10 mL and one milliliter was removed for lipid analysis. Two milliliters of the extract were cleaned using column chromatography with Florisil. This cleaned extract was then analyzed on a gas chromatograph with an electron capture detector. Results are reported on a wet-weight basis.

ORGANIC ANALYSIS

- o Holding Times. There were no holding times specified for the analysis of these samples. The samples were stored frozen until extraction and analysis.
- o Instrumental Calibrations. All instrument calibrations were within QC criteria.
- o Method Blanks. The method blanks extracted and analyzed with these samples were free of analytes of interest above the detection limits.
- o Surrogate Recoveries. All calculated surrogate recoveries were within QC criteria with the following exceptions:

PCBs: Sample YP-3 had the surrogate DCB recovered at 201%. It appears that the sample may have been double spiked with the surrogate spike solution. No Aroclors were detected in this sample; therefore, we believe that the higher surrogate recovery does not impact the data.

- o Matrix Spike/Matrix Spike Duplicate Recoveries. All matrix spike (MS) and matrix spike duplicate (MSD) recoveries were within QC criteria with the following exceptions:

PAHs: The MS/MSD of sample RB2 had the MSD recovery of phenanthrene (34%) fall below the lower QC limit of 49%. Four relative percent differences (%RPDs) exceeded 20%.

- o Control Spikes.

PAHs: Analyte-free tuna fish was fortified with the compounds of interest. All recoveries were within their respective QC limits.

PCBs: Analyte-free tuna fish was fortified with Aroclor 1254 to determine the efficiency of the method using a clean matrix. The recovery of the control spike was 88%.

Mr. Youngman
December 15, 1995
Page 3

INORGANIC ANALYSIS

- o Initial and Continuing Calibration Verification. All calibration verification standards are within QC specifications.
- o Method Blanks. All method blanks are within QC specifications.
- o ICP interference check sample. The ICP check samples are within QC specifications.
- o Spike Sample Recovery. All matrix spike recoveries are within QC specifications.
- o Laboratory Control Sample (LCS). The LCS results are within QC limits.
- o Method of Standard Additions (MSA). The MSA was not required for this SDG.
- o ICP serial dilution. All ICP serial dilution results are within QC specifications.
- o Additional Comments. Many arsenic results are 'W' flagged indicating the post-digest (analytical) spike was outside the 85% to 115% limits, while the sample absorbance was less than 50% of the spike absorbance.

Please contact me if you have any questions regarding the data or require further assistance at (608) 232-3307.

Sincerely,



Julie Trivedi
Analyst
Quality Assurance



Tod Noltemeyer
Supervisor
Pesticides/PCB Analysis

cc: Central file
Case file

TABULAR LISTING OF SAMPLES RECEIVED

PAGE: 1

ENGINEERING-SCIENCE, INCORPORATED

PRINTED ON: 12/15/95

PURCHASE ORDER NUMBER: 72652102005

SAMPLE NUMBER	SAMPLE DESCRIPTION	DATE RECEIVED	PARAMETERS REQUESTED
51100008	BIOTA,RB1,ONEIDA CREEK,10/26/95,	10/31/95	
51100009	BIOTA,RB2,ONEIDA CREEK,10/26/95,	10/31/95	
51100010	BIOTA,RB2,ONEIDA CREEK,10/26/95,MATRIX SPIKE	10/31/95	
51100011	BIOTA,RB2,ONEIDA CREEK,10/26/95,MATRIX SPIKE DUPLI	10/31/95	
51100012	BIOTA,RB3,ONEIDA CREEK,10/26/95,	10/31/95	
51100013	BIOTA,YP1,ONEIDA CREEK,10/26/95,	10/31/95	
51100016	BIOTA,YP2,ONEIDA CREEK,10/26/95,	10/31/95	
51100017	BIOTA,YP3,ONEIDA CREEK,10/26/95,	10/31/95	
51100018	BIOTA,WS1,ONEIDA CREEK,10/26/95,	10/31/95	
51100019	BIOTA,WS2,ONEIDA CREEK,10/26/95,	10/31/95	
51100022	BIOTA,WS3,ONEIDA CREEK,10/26/95,	10/31/95	
51100023	BIOTA,FF3,ONEIDA CREEK,10/26/95,	10/31/95	
51100024	BIOTA,FF2,ONEIDA CREEK,10/26/95,	10/31/95	

NMPC ONEIDA FISH SAMPLE
SPECIMEN LENGTH AND WEIGHT BY SAMPLE COMPOSITE

Sample Number	Length (1) (Inches)	Weight (2) (grams)	Collection Date
RB1	5.13	41	10/24/95
	7.50	141	10/24/95
RB2	7.25	140	10/25/95
	5.38	44	10/25/95
RB3	5.13	44	10/25/95
	4.75	29	10/25/95
FF2	8.63	88	10/24/95
	6.50	39	10/24/95
	6.63	35	10/24/95
	10.63	181	10/24/95
	7.00	46	10/24/95
	7.00	47	10/24/95
	8.13	70	10/24/95
	6.88	39	10/24/95
	6.63	36	10/24/95
	5.50	18	10/24/95
	3.75	8	10/24/95
	3.75	6	10/24/95
FF3	10.75	171	10/25/95
	9.63	126	10/25/95
	8.88	102	10/25/95
	7.75	63	10/25/95
	7.75	60	10/25/95
	6.50	34	10/25/95
	6.25	32	10/25/95
YP1	4.00	9	10/24/95
	3.50	6	10/24/95
	3.25	5	10/24/95
	3.25	5	10/24/95
	3.25	6	10/24/95
	4.75	8	10/24/95
	3.75	6	10/24/95
	3.88	7	10/24/95
	3.63	6	10/24/95
	3.25	4	10/24/95
	3.38	5	10/24/95
	3.50	7	10/24/95
	3.38	7	10/24/95
	3.50	7	10/24/95
	3.88	9	10/24/95

NMPC ONEIDA FISH SAMPLE
SPECIMEN LENGTH AND WEIGHT BY SAMPLE COMPOSITE

Sample Number	Length (1) (Inches)	Weight (2) (grams)	Collection Date
YP1 Cont.	3.75	9	10/24/95
	3.88	8	10/24/95
	3.88	5	10/24/95
	3.50	4	10/24/95
	3.25	3	10/24/95
	3.25	2	10/24/95
	3.75	4	10/24/95
	3.13	4	10/24/95
	3.25	10	10/24/95
	4.38	4	10/24/95
	3.13	9	10/24/95
	4.13	6	10/24/95
	3.38	4	10/24/95
YP2	5.50	27	10/25/95
	5.38	26	10/25/95
	3.63	7	10/25/95
	3.50	6	10/25/95
	3.75	8	10/25/95
	3.25	5	10/25/95
	3.63	7	10/25/95
	4.00	7	10/25/95
	3.63	8	10/25/95
	3.13	4	10/25/95
	3.25	4	10/25/95
	3.25	3	10/25/95
	3.63	7	10/25/95
	4.00	9	10/25/95
	5.25	19	10/25/95
YP3	5.25	22	10/25/95
	3.13	5	10/25/95
	3.13	4	10/25/95
	3.13	5	10/25/95
	3.25	5	10/25/95
	3.13	6	10/25/95
	3.50	3	10/25/95
	4.00	7	10/25/95
	4.00	9	10/25/95
	3.63	5	10/25/95
WS1	2.63	3	10/24/95
	3.75	9	10/24/95
	3.88	8	10/24/95
	5.50	46	10/24/95

NMPC ONEIDA FISH SAMPLE
SPECIMEN LENGTH AND WEIGHT BY SAMPLE COMPOSITE

Sample Number	Length (1) (Inches)	Weight (2) (grams)	Collection Date
WS1 Cont.	3.50	6	10/24/95
	3.88	10	10/24/95
	4.25	12	10/24/95
	3.75	7	10/24/95
	5.50	26	10/24/95
	4.88	19	10/24/95
	12.50	349	10/24/95
	5.88	34	10/24/95
	5.88	34	10/24/95
	7.25	62	10/24/95
	8.00	67	10/24/95
	6.25	43	10/24/95
	6.00	36	10/24/95
	4.75	18	10/24/95
WS2	7.88	83	10/25/95
	7.50	69	10/25/95
	13.50	455	10/25/95
	6.75	46	10/25/95
	8.38	99	10/25/95
	7.00	53	10/25/95
	4.25	13	10/25/95
	3.88	8	10/25/95
	4.00	9	10/25/95
	3.13	5	10/25/95
WS3	12.25	315	10/25/95
	8.25	83	10/25/95
	8.00	81	10/25/95
	7.88	83	10/25/95
	7.63	70	10/25/95

RB = Rock bass

YP = Yellow perch

WS = White sucker

FF = Fallfish

(1) Total maximum length in inches

(2) Total weight in grams

CHAIN OF CUSTODY RECORD

COPY

NO: 0909

CLIENT: <i>NIAGARA MOHAWK</i>		PROJECT NO: <i>72652102005</i>		PROJECT MGR: <i>GMM</i>		Send results to: PARSONS ENGINEERING SCIENCE, INC 290 Elwood Davis Road-Suite 312 Liverpool, NY 13088		
PROJECT NAME: <i>NMPC ONEIDA</i>		NOTE: - (Reference GAPP and/or analytical protocols to be used): <i>MS/MSD TO BE EXTRACTED AFTER HOMOGENIZATION OF COMPOSITE SAMPLES INDICATED.</i>				Telephone: (315) 451-9580 Fax: (315) 451-9570		
SAMPLERS: <i>RWY</i>						Lab Submitted to: <i>HAZELTON</i>		
FIELD SAMPLE ID: TYPE NUMBER DEPTH CODES / IDENTIFIER		Location Description		Date	Time	GRAB	COMB	NO OF Bottles
XX 001 001-002								
<i>RB1</i>		<i>ONEIDA CREEK</i>		<i>10/26/95</i>		☒		<i>1</i>
<i>RB2</i>						☒		<i>1</i>
<i>RB3</i>						☒		<i>1</i>
<i>YP1</i>		Condition: <i>Cold</i> Storage: <i>W/F-1</i>				☒		<i>1</i>
<i>YP2</i>		Acct. # <i>3880</i> Abbrev. <i>ENNS</i>				☒		<i>1</i>
<i>YP3</i>		Smpl Rec'd <i>OCT 31 1995</i> Inlt <i>LMD</i>				☒		<i>1</i>
<i>WS1</i>		Date Entered <i>11-1-95</i>				☒		<i>1</i>
<i>WS2</i>		LIMS # <i>51100008-24</i>				☒		<i>1</i>
<i>WS3</i>						☒		<i>1</i>
<i>FF2</i>						☒		<i>1</i>
<i>FF3</i>				<i>10/26/95</i>		☒		<i>1</i>
Relinquished by: (Signature) <i>T. W. Yonum</i>		Date:		Time:	Shipped via:	Airbill #:	Received by: (Signature) <i>Lynn Derry</i>	
Relinquished by: (Signature)		Date:		Time:	Shipped via:	Airbill #:	Received by: (Signature)	
Relinquished by: (Signature)		Date:		Time:	Shipped via:	Airbill #:	Received by: (Signature) <i>Lynn Derry</i>	
		Date:		Time:	Shipped via:	Airbill #:	Received by: (Signature)	

TYPE CODES: SOLID
SD-Sediment
SS-Surface Soil
SB-Subsurface Soil
MW-Monitoring Well Boring

TP-Test Pit/Tank Pit
DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER
MW-Monitoring Well
LC-Leachate
SW-Surface Water
DW-Drill Water

FJ-Fuel Dispenser
MH-Manhole
OW-Oil Water Separator
FR-Piping Run

ST-Storm Water
WW-Waste Water
OL-Other Liquid (eg. Drum Liquid)

QUALITY CONTROL
FB-Field Blank (number each)
TB-Trip Blank (number each)
WB-Wash Blank (number each)

NO: 0909

Samples rec'd frozen with solid ice in cooler - LMD 10-31-95

(17)

SEMIVOLATILE
(PNA's)
EXTRACTION LOGS

SDG Oreida

Project No. _____

Book No. 0125TITLE PAHT - ENNSzachlet

From Page No. _____

Sample	Date	wgt(g) extd	surrogate (ml)	spike (ml)	GPC Date	silica Date	Final vol(ml)	comments
MB 96	11-13-95	20.01	✓		11/15/95	11/18/95	1.0	Na ₂ SO ₄
CS 96		20.01	✓	✓			1.0	TUNA
CSD 96		20.00	✓	✓			1.0	TUNA
51100008 ^⑤		10.00	✓				1.0	
51100009		20.03	✓				1.0	
51100010 (ms)		20.03	✓	✓			1.0	
51100011 (ms)		20.02	✓	✓			1.0	
51100012		20.03	✓				1.0	
51100013		20.02	✓				1.0	
51100016		20.02	✓				1.0	
51100017 ^⑤		10.00	✓				1.0	
51100018		20.00	✓				1.0	
51100019		20.03	✓				1.0	
51100022		20.02	✓				1.0	
51100023		20.02	✓				1.0	
51100024		20.00	✓		GPC	GPC	1.0	

K_{MS} K_{MS}
11-13-95 11-18-95

⑤ Entry Error P2 11/20/95

Balance used: anterior 36110194

① spiked with 2.0 ml of 10 ppm p-terphenyl in ACN log 0125 p 86 (exp 4/96)

② spiked with 20 ml of varied conc PAH (Lust) mix in ACN log 0125 p 90 (exp 4/96)

③ Silica lot # 953446 (Fisher)

④ GPC 1002B Serial No. 892 B 292

⑤ 10.00g of ^{sample} was used due to insufficient sample

90 Liquid log 0148 p.3

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

Date

Dawn M. Warren 11/18/95

Recorded by

P2978

L. Sullivan

11-13-95

TITLE FNNS Lipids

From Page No. —	to	Pan	Pan(s)	Lipid	% ^②	g/	Split ^①
<u>Sample</u>	<u>Pan</u>	<u>WT(g)</u>	<u>+Lipid</u>	<u>(g)</u>	<u>Lipid</u>	<u>ml</u>	
mB96	1	1.2727	1.2731	0.0004	0.020	0.0004	A
CS 96	2	1.2735	1.2880	0.0145	0.72	0.0145	A
CS096	3	1.2710	1.2843	0.0133	0.66	0.0133	A
51100008	4	1.2712	1.2967	0.0195	1.95	0.0195 0.0195A	A
51100009	5	1.2754	1.3234	0.052	2.60	0.052	A
51100010	6	1.2777	1.3277 ^③	0.0499	2.49	0.0499	A
51100011ms	7	1.2767	1.3292	0.0525	2.62	0.0525	A
5110002ms	8	1.2728	1.3078	0.035	1.75	0.035	A
5110003	9	1.2767	1.3069	0.0246	1.22	0.0246	A
5110004 ^③	10	1.2774	1.3022	0.0248	2.48	0.0248	A
51100067	11	1.2744	1.2992	0.0148	0.74 0.0148 ^③	0.0148 0.0148 ^③	A
51100018	12	1.2748	1.3674	0.0326	1.63	0.0326	A
51100019	13	1.2733	1.2982	0.0249	1.24	0.0249	A
51100022	14	1.2736	1.3160	0.0424	2.12	0.0424	A
51100023	15	1.2768	1.2983	0.0215	1.07	0.0215	A
51100024	16	1.2755	1.3060	0.0305	1.53 0.0305 ^③	0.0305	A

② % Lipid = $\frac{\text{Lipid(g)} \times 100}{\text{volume extd}}$

① Lipid split

- A = < 0.0 - 0.2 g/ml
B = < 0.2 - 0.3 g/ml
C = < 0.3 - 0.4 g/ml
D = > 0.4 g/ml

Extraction log 0125 p.96

Balance used Mettler 525703

③ Entry Error PR 11/14/95

Witnessed & Understood by me.

Date

Invented by

Date

Recorded by

Peggy Louison

11/14/95

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

Lab Name: HES Inc.

BIOTA, RB1

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100008

Samp wt/vol:10.0 (g/ml) : g

Lab File IDs: CH00PNA3023.RES

% Moisture : 0.0 %

: CH07PNA3023.RES

Extraction:(SepF/Cont/Sonx/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 8:57:16 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE		% REC.	AREA
		UG/KG	Q		UG/KG	CONC.	CONC.	UG/KG		
91-20-3.....	Naphthalene	68	U	200						10215
208-96-8.....	Acenaphthylene	0.00	U	250						
83-32-9.....	Acenaphthene	0.00	U	100						
86-73-7.....	Fluorene	8.1	U	20						4608
85-01-8.....	Phenanthrene	23		10						31439
120-12-7.....	Anthracene	7.2	U	15						17514
206-44-0.....	Fluoranthene	14	U	15						244260
129-00-0.....	Pyrene	14	U	15						35553
92-94-4.....	P-Terphenyl (surrogate)	1600					2000		80 %	6880656
56-55-3.....	Benzo(a)anthracene	6.4	U	10						253319
218-01-9.....	Chrysene	5.3	U	10						7053
205-99-2.....	Benzo(b)fluoranthene	6.1	U	20						158550
207-08-9.....	Benzo(k)fluoranthene	3.1	U	10						176008
50-32-8.....	Benzo(a)pyrene	5.9	U	20						273654
53-70-3.....	Dibenzo(a,h)anthracene	0.87	U	30						19700
191-24-2.....	Benzo(ghi)perylene	5.0	U	24						115140
193-39-5.....	Indeno(1,2,3-cd)pyrene	9.3	U	15						63426

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

Lab Name: HES Inc.

BIOTA, RB2

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100009

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3024.RES
: CH07PNA3024.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 10:00:11 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG			
91-20-3.....	Naphthalene	49	U	100					14678
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	30	U	50					5354
86-73-7.....	Fluorene	11		10					12846
85-01-8.....	Phenanthrene	19		5.0					52868
120-12-7.....	Anthracene	7.3	U	7.5					35428
206-44-0.....	Fluoranthene	7.8		7.5					262593
129-00-0.....	Pyrene	6.7	U	7.5					33184
92-94-4.....	P-Terphenyl (surrogate)	620				1000	62 %		5273058
56-55-3.....	Benzo(a)anthracene	2.6	U	5.0					209320
218-01-9.....	Chrysene	2.2	U	5.0					6040
205-99-2.....	Benzo(b)fluoranthene	1.4	U	10					71159
207-08-9.....	Benzo(k)fluoranthene	0.95	U	5.0					107175
50-32-8.....	Benzo(a)pyrene	1.9	U	10					176066
53-70-3.....	Dibenzo(a,h)anthracene	0.38	U	15					17427
191-24-2.....	Benzo(ghi)perylene	1.4	U	12					62606
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA, RB3

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100012

Samp wt/vol: 20.0 (g/ml) : g

Lab File IDs: CH00PNA3027.RES
: CH07PNA3027.RES

% Moisture : 0.0 %

Extraction: (SepF/Cont/Sonc/Sohx): Soxh

Date Sampled : 10-26-95

Concentrated Extract Volume: (ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume: 20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup: (Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 1:09:04 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG			
91-20-3.....	Naphthalene	1.9	U	100					564
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	0.00	U	50					
86-73-7.....	Fluorene	1.4	U	10					1555
85-01-8.....	Phenanthrene	2.3	U	5.0					6278
120-12-7.....	Anthracene	0.48	U	7.5					2346
206-44-0.....	Fluoranthene	1.1	U	7.5					37424
129-00-0.....	Pyrene	0.00	U	7.5					
92-94-4.....	P-Terphenyl (surrogate)	590				1000	59 %		5031453
56-55-3.....	Benzo(a)anthracene	0.21	U	5.0					15591
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.21	U	10					11204
207-08-9.....	Benzo(k)fluoranthene	0.13	U	5.0					14292
50-32-8.....	Benzo(a)pyrene	0.20	U	10					13645
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.35	U	12					15041
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA, YP1

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100013

Samp wt/vol: 20.0 (g/ml) : g

Lab File IDs: CH00PNA3028.RES
: CH07PNA3028.RES

% Moisture : 0.0 %

Extraction: (SepF/Cont/Sonc/Sohx): Soxh

Date Sampled : 10-26-95

Concentrated Extract Volume: (ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume: 20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup: (Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 2:12:02 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG			
91-20-3.....	Naphthalene	0.00	U	100					
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	18	U	50					3153
86-73-7.....	Fluorene	1.6	U	10					1820
85-01-8.....	Phenanthrene	2.4	U	5.0					6443
120-12-7.....	Anthracene	0.00	U	7.5					
206-44-0.....	Fluoranthene	0.45	U	7.5					15139
129-00-0.....	Pyrene	0.00	U	7.5					
92-94-4.....	P-Terphenyl (surrogate)	600				1000	60 %		5128437
56-55-3.....	Benzo(a)anthracene	0.10	U	5.0					7637
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.00	U	10					
207-08-9.....	Benzo(k)fluoranthene	0.00	U	5.0					
50-32-8.....	Benzo(a)pyrene	0.07	U	10					6928
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.30	U	12					13967
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA,YP2

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100016

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3029.RES
: CH07PNA3029.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 3:14:59 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE		% REC.	AREA
		UG/KG	Q		CONC.	UG/KG	CONC.	UG/KG		
91-20-3.....	Naphthalene	2.5	U	100						767
208-96-8.....	Acenaphthylene	0.00	U	120						
83-32-9.....	Acenaphthene	17	U	50						2948
86-73-7.....	Fluorene	1.3	U	10						1528
85-01-8.....	Phenanthrene	2.6	U	5.0						7134
120-12-7.....	Anthracene	0.20	U	7.5						989
206-44-0.....	Fluoranthene	1.1	U	7.5						36975
129-00-0.....	Pyrene	0.85	U	7.5						4221
92-94-4.....	P-Terphenyl (surrogate)	470					1000		47 %	4027276
56-55-3.....	Benzo(a)anthracene	0.18	U	5.0						14203
218-01-9.....	Chrysene	0.00	U	5.0						
205-99-2.....	Benzo(b)fluoranthene	0.20	U	10						10412
207-08-9.....	Benzo(k)fluoranthene	0.13	U	5.0						14951
50-32-8.....	Benzo(a)pyrene	0.16	U	10						15124
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15						
191-24-2.....	Benzo(ghi)perylene	0.33	U	12						15265
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5						

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA,YP3

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100017

Samp wt/vol:10.0 (g/ml) : g

Lab File IDs: CH00PNA3030.RES
: CH07PNA3030.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Soxh

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 4:17:57 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG			
91-20-3.....	Naphthalene	0.00	U	200					
208-96-8.....	Acenaphthylene	0.00	U	250					
83-32-9.....	Acenaphthene	17	U	100					1543
86-73-7.....	Fluorene	2.2	U	20					1221
85-01-8.....	Phenanthrene	5.5	U	10					7527
120-12-7.....	Anthracene	0.73	U	15					1777
206-44-0.....	Fluoranthene	1.7	U	15					28364
129-00-0.....	Pyrene	1.2	U	15					3100
92-94-4.....	P-Terphenyl (surrogate)	1100				2000	55 %		4526564
56-55-3.....	Benzo(a)anthracene	0.54	U	10					21318
218-01-9.....	Chrysene	0.00	U	10					
205-99-2.....	Benzo(b)fluoranthene	0.32	U	20					8472
207-08-9.....	Benzo(k)fluoranthene	0.17	U	10					9479
50-32-8.....	Benzo(a)pyrene	0.53	U	20					24594
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	30					
191-24-2.....	Benzo(ghi)perylene	0.52	U	24					11889
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	15					

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA,WS1

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100018

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3032.RES
: CH07PNA3032.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 6:23:54 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG			
91-20-3.....	Naphthalene	2.6	U	100					771
208-96-8.....	Acenaphthylene	0.00	U	130					
83-32-9.....	Acenaphthene	17	U	50					3080
86-73-7.....	Fluorene	3.8	U	10					4295
85-01-8.....	Phenanthrene	14		5.0					39381
120-12-7.....	Anthracene	2.2	U	7.5					10486
206-44-0.....	Fluoranthene	9.2		7.5					309035
129-00-0.....	Pyrene	11		7.5					52261
92-94-4.....	P-Terphenyl (surrogate)	460				1000	46 %		3971811
56-55-3.....	Benzo(a)anthracene	3.7	U	5.0					293802
218-01-9.....	Chrysene	3.4	U	5.0					9248
205-99-2.....	Benzo(b)fluoranthene	2.6	U	10					137284
207-08-9.....	Benzo(k)fluoranthene	1.7	U	5.0					192931
50-32-8.....	Benzo(a)pyrene	3.3	U	10					310406
53-70-3.....	Dibenzo(a,h)anthracene	0.45	U	15					20468
191-24-2.....	Benzo(ghi)perylene	2.3	U	12					105815
193-39-5.....	Indeno(1,2,3-cd)pyrene	4.2	U	7.5					57356

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

FORM I - LC EXT

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA,WS2

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100019

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3033.RES
: CH07PNA3033.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 7:26:54 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	%	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG	REC.		
91-20-3.....	Naphthalene	4.0	U	100					1195
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	10	U	50					1828
86-73-7.....	Fluorene	2.4	U	10					2746
85-01-8.....	Phenanthrene	3.4	U	5.0					9379
120-12-7.....	Anthracene	0.55	U	7.5					2683
206-44-0.....	Fluoranthene	1.4	U	7.5					46256
129-00-0.....	Pyrene	1.2	U	7.5					5946
92-94-4.....	P-Terphenyl (surrogate)	500				1000	50 %		4311446
56-55-3.....	Benzo(a)anthracene	0.40	U	5.0					32158
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.38	U	10					20113
207-08-9.....	Benzo(k)fluoranthene	0.23	U	5.0					25401
50-32-8.....	Benzo(a)pyrene	0.44	U	10					40901
53-70-3.....	Di benzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.56	U	12					25548
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

Lab Name: HES Inc.

BIOTA,WS3

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100022

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3034.RES
: CH07PNA3034.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Soxh

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 8:29:49 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC. UG/KG	CONC. UG/KG			
91-20-3.....	Naphthalene	4.8	U	100					1443
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	25	U	50					4406
86-73-7.....	Fluorene	2.9	U	10					3342
85-01-8.....	Phenanthrene	3.2	U	5.0					8849
120-12-7.....	Anthracene	0.75	U	7.5					3654
206-44-0.....	Fluoranthene	1.9	U	7.5					64028
129-00-0.....	Pyrene	1.4	U	7.5					7138
92-94-4.....	P-Terphenyl (surrogate)	520				1000	52 %		4458352
56-55-3.....	Benzo(a)anthracene	0.45	U	5.0					35427
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.43	U	10					22403
207-08-9.....	Benzo(k)fluoranthene	0.28	U	5.0					31785
50-32-8.....	Benzo(a)pyrene	0.60	U	10					55556
53-70-3.....	Dibenzo(a,h)anthracene	0.12	U	15					5350
191-24-2.....	Benzo(ghi)perylene	0.53	U	12					24473
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.85	U	7.5					11643

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

Lab Name: HES Inc.

BIOTA, FF2

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100024

Samp wt/vol: 20.0 (g/ml) : g

Lab File IDs: CH00PNA3036.RES
: CH07PNA3036.RES

% Moisture : 0.0 %

Extraction: (SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume: (ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume: 20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup: (Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 10:35:42 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	%	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG	REC.		
91-20-3.....	Naphthalene	1.9	U	100					580
208-96-8.....	Acenaphthylene	0.00	U	130					
83-32-9.....	Acenaphthene	6.4	U	50					1139
86-73-7.....	Fluorene	0.70	U	10					789
85-01-8.....	Phenanthrene	1.5	U	5.0					4084
120-12-7.....	Anthracene	0.00	U	7.5					
206-44-0.....	Fluoranthene	0.56	U	7.5					18825
129-00-0.....	Pyrene	0.00	U	7.5					
92-94-4.....	P-Terphenyl (surrogate)	480				1000	48 %		4130261
56-55-3.....	Benzo(a)anthracene	0.12	U	5.0					9674
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.07	U	10					3790
207-08-9.....	Benzo(k)fluoranthene	0.05	U	5.0					5216
50-32-8.....	Benzo(a)pyrene	0.10	U	10					9562
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.22	U	12					10176
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA, FF3

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100023

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3035.RES
: CH07PNA3035.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 9:32:46 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC. UG/KG	CONC. UG/KG			
91-20-3.....	Naphthalene	2.7	U	100					827
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	15	U	50					2693
86-73-7.....	Fluorene	0.67	U	10					757
85-01-8.....	Phenanthrene	1.4	U	5.0					3746
120-12-7.....	Anthracene	0.00	U	7.5					
206-44-0.....	Fluoranthene	0.67	U	7.5					22506
129-00-0.....	Pyrene	0.00	U	7.5					
92-94-4.....	P-Terphenyl (surrogate)	560				1000	56 %		4792254
56-55-3.....	Benzo(a)anthracene	0.14	U	5.0					11136
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.13	U	10					6769
207-08-9.....	Benzo(k)fluoranthene	0.09	U	5.0					9901
50-32-8.....	Benzo(a)pyrene	0.18	U	10					16771
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.32	U	12					14485
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

METHOD BLANK-96

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : sodium sulfate

Lab Sample ID: MB96LB1

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3019.RES
: CH07PNA3019.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Sohx

Date Sampled :

Concentrated Extract Volume:(ml): 2.0 ml

Date Received:

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 4:45:18 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	% REC.	AREA
		UG/KG	Q		CONC. UG/KG	CONC. UG/KG			
91-20-3.....	Naphthalene	3.0	U	100					900
208-96-8.....	Acenaphthylene	0.00	U	120					
83-32-9.....	Acenaphthene	0.00	U	50					
86-73-7.....	Fluorene	0.00	U	10					
85-01-8.....	Phenanthrene	1.3	U	5.0					3435
120-12-7.....	Anthracene	0.23	U	7.5					1118
206-44-0.....	Fluoranthene	0.44	U	7.5					14883
129-00-0.....	Pyrene	0.00	U	7.5					
92-94-4.....	P-Terphenyl (surrogate)	530				1000	53 %		4564014
56-55-3.....	Benzo(a)anthracene	0.17	U	5.0					13705
218-01-9.....	Chrysene	0.00	U	5.0					
205-99-2.....	Benzo(b)fluoranthene	0.00	U	10					
207-08-9.....	Benzo(k)fluoranthene	0.04	U	5.0					4367
50-32-8.....	Benzo(a)pyrene	0.12	U	10					11346
53-70-3.....	Dibenzo(a,h)anthracene	0.00	U	15					
191-24-2.....	Benzo(ghi)perylene	0.26	U	12					11770
193-39-5.....	Indeno(1,2,3-cd)pyrene	0.00	U	7.5					

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

CONTROL SPIKE-96

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tuna

Lab Sample ID: CS968S1

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3021.RES
: CH07PNA3021.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Soxh

Date Sampled :

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved:

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 6:51:13 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED SPIKE		% REC.	AREA
		UG/KG	Q		CONC. UG/KG	CONC. UG/KG		
91-20-3.....	Naphthalene	360		100		500	73 %	109529
208-96-8.....	Acenaphthylene	680		120		1000	68 %	147293
83-32-9.....	Acenaphthene	360		50		500	71 %	63239
86-73-7.....	Fluorene	63		10		100	63 %	71924
85-01-8.....	Phenanthrene	35		5.0		50	70 %	94906
120-12-7.....	Anthracene	33		7.5		50	65 %	157497
206-44-0.....	Fluoranthene	62		7.5		100	62 %	2081129
129-00-0.....	Pyrene	33		7.5		50	65 %	162505
92-94-4.....	P-Terphenyl (surrogate)	570				1000	57 %	4898826
56-55-3.....	Benzo(a)anthracene	28		5.0		50	56 %	2217476
218-01-9.....	Chrysene	29		5.0		50	57 %	77031
205-99-2.....	Benzo(b)fluoranthene	54		10		100	54 %	2803519
207-08-9.....	Benzo(k)fluoranthene	27		5.0		50	55 %	3083258
50-32-8.....	Benzo(a)pyrene	26		10		50	52 %	2404903
53-70-3.....	Dibenzo(a,h)anthracene	50		15		100	50 %	2277282
191-24-2.....	Benzo(ghi)perylene	56		12		100	56 %	2593121
193-39-5.....	Indeno(1,2,3-cd)pyrene	27		7.5		50	54 %	365355

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

CONTROL SPIKE DUP-96

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tuna

Lab Sample ID: CSD968S1

Samp wt/vol:20.0 (g/ml) : g

Lab File IDs: CH00PNA3022.RES
: CH07PNA3022.RES

% Moisture : 0.0 %

Extraction:(SepF/Cont/Sonc/Sohx): Soxh

Date Sampled :

Concentrated Extract Volume:(ml): 2.0 ml

Date Recieved:

Injection Volume:20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup:(Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 7:54:17 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	%	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG	REC.		
91-20-3.....	Naphthalene	380		100		500	75 %	113518	
208-96-8.....	Acenaphthylene	690		130		1000	69 %	150043	
83-32-9.....	Acenaphthene	370		50		500	73 %	64823	
86-73-7.....	Fluorene	65		10		100	65 %	74095	
85-01-8.....	Phenanthrene	35		5.0		50	70 %	95546	
120-12-7.....	Anthracene	34		7.5		50	67 %	163010	
206-44-0.....	Fluoranthene	64		7.5		100	64 %	2172280	
129-00-0.....	Pyrene	34		7.5		50	69 %	171300	
92-94-4.....	P-Terphenyl (surrogate)	600				1000	60 %	5166003	
56-55-3.....	Benzo(a)anthracene	30		5.0		50	59 %	2349835	
218-01-9.....	Chrysene	30		5.0		50	60 %	80233	
205-99-2.....	Benzo(b)fluoranthene	57		10		100	57 %	2969739	
207-08-9.....	Benzo(k)fluoranthene	29		5.0		50	58 %	3261691	
50-32-8.....	Benzo(a)pyrene	27		10		50	55 %	2554468	
53-70-3.....	Dibenzo(a,h)anthracene	53		15		100	53 %	2408952	
191-24-2.....	Benzo(ghi)perylene	59		12		100	59 %	2726450	
193-39-5.....	Indeno(1,2,3-cd)pyrene	29		7.5		50	57 %	390592	

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

BIOTA, R82 MS

Lab Name: HES Inc.

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100010 MS

Unspiked Samp: 51100009

Samp wt/vol: 20.0 (g/ml) : g

Lab File IDs: CH00PNA3025.RES

: CH07PNA3025.RES

% Moisture : 0.0 %

Extraction: (SepF/Cont/Sonc/Sohx): Sohx

Date Sampled : 10-26-95

Concentrated Extract Volume: (ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume: 20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup: (Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 11:03:12 am

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SPIKE	%	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG	REC.		
91-20-3.....	Naphthalene	390		100	49	500	68 %		117294
208-96-8.....	Acenaphthylene	710		120	0.00	1000	71 %		153753
83-32-9.....	Acenaphthene	370		50	30	500	67 %		64849
86-73-7.....	Fluorene	68		10	11	100	57 %		77535
85-01-8.....	Phenanthrene	46		5.0	19	50	54 %		126266
120-12-7.....	Anthracene	39		7.5	7.3	50	64 %		189995
206-44-0.....	Fluoranthene	67		7.5	7.8	100	59 %		2253410
129-00-0.....	Pyrene	38		7.5	6.7	50	62 %		188462
92-94-4.....	P-Terphenyl (surrogate)	570				1000	57 %		4897048
56-55-3.....	Benzo(a)anthracene	30		5.0	2.6	50	55 %		2393154
218-01-9.....	Chrysene	30		5.0	2.2	50	56 %		81128
205-99-2.....	Benzo(b)fluoranthene	54		10	1.4	100	52 %		2805158
207-08-9.....	Benzo(k)fluoranthene	27		5.0	0.95	50	53 %		3100806
50-32-8.....	Benzo(a)pyrene	29		10	1.9	50	54 %		2704554
53-70-3.....	Dibenzo(a,h)anthracene	49		15	0.38	100	49 %		2224218
191-24-2.....	Benzo(ghi)perylene	56		12	1.4	100	55 %		2595587
193-39-5.....	Indeno(1,2,3-cd)pyrene	27		7.5	0.00	50	54 %		373624

* U * INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

FORM I - LC EXT

ENGINEERING SCIENCE
METHOD 8310 - POLYNUCLEAR AROMATIC ORGANICS
ANALYSIS DATA SHEET

Client No.

Lab Name: HES Inc.

BIOTA, RB2 MSD

Contract:

SDG # SDGT-1

Matrix: (soil or water) : tissue

Lab Sample ID: 51100011 MSD

Unspiked Samp: 51100009

Samp wt/vol: 20.0 (g/ml) : g

Lab File IDs: CH00PNA3026.RES

: CH07PNA3026.RES

% Moisture : 0.0 %

Extraction: (SepF/Cont/Sonc/Sohx): Soxh

Date Sampled : 10-26-95

Concentrated Extract Volume: (ml): 2.0 ml

Date Recieved: 10-31-95

Injection Volume: 20.0 (uL)

Date Extractd: 11-13-95

GPC Cleanup: (Y/N) Y

Date Analyzed: Nov 22, 1995

Dilut. Factor : 1

Time Analyzed: 12:06:08 pm

CAS No.	COMPOUND	CONC. UNITS:		SRL	UNSPIKED		SRI	%	AREA
		UG/KG	Q		CONC.	CONC.			
		UG/KG		UG/KG	UG/KG	UG/KG	REC.		
91-20-3.....	Naphthalene	370		100	49	500	65 %	112061	
208-96-8.....	Acenaphthylene	660		120	0.00	1000	66 %	143820	
83-32-9.....	Acenaphthene	360		50	30	500	65 %	63010	
86-73-7.....	Fluorene	60		10	11	100	49 %	68008	
85-01-8.....	Phenanthrene	37		5.0	19	50	34 %	99671	
120-12-7.....	Anthracene	33		7.5	7.3	50	51 %	159009	
206-44-0.....	Fluoranthene	57		7.5	7.8	100	49 %	1910142	
129-00-0.....	Pyrene	31		7.5	6.7	50	49 %	154434	
92-94-4.....	P-Terphenyl (surrogate)	510				1000	51 %	4320146	
56-55-3.....	Benzo(a)anthracene	25		5.0	2.6	50	46 %	2018442	
218-01-9.....	Chrysene	25		5.0	2.2	50	45 %	66783	
205-99-2.....	Benzo(b)fluoranthene	47		10	1.4	100	46 %	2487761	
207-08-9.....	Benzo(k)fluoranthene	24		5.0	0.95	50	47 %	2740586	
50-32-8.....	Benzo(a)pyrene	25		10	1.9	50	46 %	2333664	
53-70-3.....	Dibenzo(a,h)anthracene	45		15	0.38	100	45 %	2048308	
191-24-2.....	Benzo(ghi)perylene	51		12	1.4	100	50 %	2353378	
193-39-5.....	Indeno(1,2,3-cd)pyrene	24		7.5	0.00	50	49 %	333478	

" U " INDICATES CONCENTRATION DETECTED IS LESS THAN THE STANDARD REPORTING LIMIT(SRL).

PCB EXTRACTION INFORMATION

SDG Oneida

From Page No.	Weight	DATE	①	②	FLORISIL	FLORISIL	FINAL
Sample #	Extended	Extended	Succ.	Spike	Vol.	DATE	Vol.
51100008	10.00	11-27-85	✓		2 of 10ml	11-28-85	2ml
51100009	15.00		✓				
M.S.			✓				
51100010	15.00		✓	✓			
M.S.D.			✓	✓			
51100011	15.00		✓				
51100012	20.00		✓				
51100013	20.00		✓				
51100016	20.00		✓				
51100017	10.00		✓				
51100018	20.00		✓				
51100019	20.00		✓				
51100022	20.00		✓				
51100023	20.00		✓				
51100024	20.00		✓				
C.S. 1127	20.00		✓	✓			
Blk 1127	20.00		✓				

Gm

Gm

KRC

Balance used: Satorius L310 ser #36110194

Sodium Sulfate was used for the Blank

Tuna was used for the Control Spike

Sample #51100009 was used for the M.S. and M.S.D.

① DCB Succ. Soln. @ 10µg/ml in Acetone (log #0054794) Added 200µl to each sample

② Ar 1254 Spiking Soln. @ 10µg/ml in Acetone (log #0054795) Added 500µl to the Control Spike and 4ml to M.S. & M.S.D.

FLORISIL Lot # 954174

Witnessed & Understood by me.

Date

Invented by

Recorded by

Timothy J. Fangle

11-27-85

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

RB-1

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 2.0 %

Samp wt/vol: 10 (g/ml) g

Lab Sample ID : 51100008

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	99	99	U
11104-28-2	Aroclor 1221	99	99	U
11141-16-5	Aroclor 1232	99	99	U
53469-21-9	Aroclor 1242	99	99	U
12672-29-6	Aroclor 1248	99	99	U
11097-69-1	Aroclor 1254	99	100	U
11096-82-5	Aroclor 1260	99	99	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

RB-2

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 3.5 %

Samp wt/vol: 15 (g/ml) g

Lab Sample ID : 51100009

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	67	67	U
11104-28-2	Aroclor 1221	67	67	U
11141-16-5	Aroclor 1232	67	67	U
53469-21-9	Aroclor 1242	67	67	U
12672-29-6	Aroclor 1248	67	67	U
11097-69-1	Aroclor 1254	67	140	
11096-82-5	Aroclor 1260	67	67	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

RB-3

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.9 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100012

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	96	
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

YP-1

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.2 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100013

Extraction : (SepF/Cont/Sonx/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	50	U
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

YP-2

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.3 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100016

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	77	U
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

YP-3

Lab Code : HES Inc.

Contract: 72652102005

SDG # : HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.4 %

Samp wt/vol: 10 (g/ml) g

Lab Sample ID : 51100017

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	100	100	U
11104-28-2	Aroclor 1221	100	100	U
11141-16-5	Aroclor 1232	100	100	U
53469-21-9	Aroclor 1242	100	100	U
12672-29-6	Aroclor 1248	100	100	U
11097-69-1	Aroclor 1254	100	100	U
11096-82-5	Aroclor 1260	100	100	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

WS-1

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.7 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100018

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	140	
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

WS-2

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 0.8 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100019

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	50	U
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

WS-3

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 2.1 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100022

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	130	
11096-82-5	Aroclor 1260	50	120	

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

FF-2

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.5 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100024

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	94	
11096-82-5	Aroclor 1260	50	65	

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

FF-3

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 1.1 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : 51100023

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	97	
11096-82-5	Aroclor 1260	50	82	

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

BLANK

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 0.0 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : BLANK 1127

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : NA

Effective Final Volume:(ml) 10.0 ml

Date Recieved : NA

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	50	U
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

C. SPIKE

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 0.9 %

Samp wt/vol: 20 (g/ml) g

Lab Sample ID : C. SPIKE 1127

Extraction : (SepF/Cont/Sonc/Sohx) : Soxh

Date Sampled : NA

Effective Final Volume:(ml) 10.0 ml

Date Recieved : NA

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/07/95

Dilut. Factor : 1.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	50	50	U
11104-28-2	Aroclor 1221	50	50	U
11141-16-5	Aroclor 1232	50	50	U
53469-21-9	Aroclor 1242	50	50	U
12672-29-6	Aroclor 1248	50	50	U
11097-69-1	Aroclor 1254	50	220	U
11096-82-5	Aroclor 1260	50	50	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

RB-2 MS

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 3.2 %

Samp wt/vol: 15 (g/ml) g

Lab Sample ID : 51100010MS

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/08/95

Dilut. Factor : 8.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	530	530	U
11104-28-2	Aroclor 1221	530	530	U
11141-16-5	Aroclor 1232	530	530	U
53469-21-9	Aroclor 1242	530	530	U
12672-29-6	Aroclor 1248	530	530	U
11097-69-1	Aroclor 1254	530	2400	
11096-82-5	Aroclor 1260	530	530	U

PCB SAMPLE DATA FORM
issue Analysis by SW846 Method 8080 for Engineering Science

Client Sample ID

RB-2 MSD

Lab Code : HES Inc.

Contract: 72652102005

SDG #: HES001

Matrix:(tissue,soil,water) : Tissue

% Lipid 2.8 %

Samp wt/vol: 15 (g/ml) g

Lab Sample ID : 51100011MSD

Extraction : (SepF/Cont/Sonc/Sohx) : Sohx

Date Sampled : 10/26/95

Effective Final Volume:(ml) 10.0 ml

Date Recieved : 10/31/95

Injection Volume: 2.0 (uL)

Date Extracted : 11/27/95

GPC Cleanup:(Y/N) N

Date Analyzed : 12/08/95

Dilut. Factor : 8.0

CAS #	COMPOUND	PQL (UG/KG)	RESULTS (UG/KG)	QUAL
12674-11-2	Aroclor 1016	530	530	U
11104-28-2	Aroclor 1221	530	530	U
11141-16-5	Aroclor 1232	530	530	U
53469-21-9	Aroclor 1242	530	530	U
12672-29-6	Aroclor 1248	530	530	U
11097-69-1	Aroclor 1254	530	2200	U
11096-82-5	Aroclor 1260	530	530	U

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: HES_INC. _____ Contract: ENNS _____
Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____
SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
FF2	51100024
FF3	51100023
RB1	51100008
RB2	51100009
RB2 DS	51100011
RB2 S	51100010
RB3	51100012
WS1	51100018
WS2	51100019
WS3	51100022
YP1	51100013
YP2	51100016
YP3	51100017

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO_

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RB1

Lab Name: HES_INC. Contract: ENNS

Lab Code: HAZLET Case No.: SAS No.: SDG No.: FF2

Matrix (soil/water): BIOTA

Lab Sample ID: 51100008

Level (low/med): LOW

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.09	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.40			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	5.2			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.18	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.23			AV
7440-02-0	Nickel	0.18	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	23.4			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RB2

Lab Name: HES_INC. Contract: ENNS

Lab Code: HAZLET Case No.: SAS No.: SDG No.: FF2

Matrix (soil/water): BIOTA

Lab Sample ID: 51100009

Level (low/med): LOW

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.12	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.39			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	3.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.30			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.27			AV
7440-02-0	Nickel	0.18	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	16.4			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RB3

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100012

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.19	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.08	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.46			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	8.2			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.15	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.19			AV
7440-02-0	Nickel	0.18	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	25.3			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

YP1

Lab Name: HES_INC. _____

Contract: ENNS _____

Lab Code: HAZLET

Case No.: _____

SAS No.: _____

SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100013

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.09	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.39			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.2			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.19	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.06			AV
7440-02-0	Nickel	0.88			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	28.2			P
	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

YP2

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100016

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.33	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.47			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	15.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	1.4			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			AV
7440-02-0	Nickel	0.18	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	32.3			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

YP3

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100017

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.31	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.47			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	5.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.27			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.17			AV
7440-02-0	Nickel	0.18	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	25.6			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS1

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA Lab Sample ID: 51100018

Level (low/med): LOW _____ Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.18	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.41			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	28.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.87			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.13			AV
7440-02-0	Nickel	0.64	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	24.8			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS2

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100019

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.09	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.43			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	6.7			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.94			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.22			AV
7440-02-0	Nickel	1.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	19.4			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

WS3

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100022

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.14	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.34			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	16.1			P
7439-89-6	Iron				NR
7439-92-1	Lead	1.2			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16			AV
7440-02-0	Nickel	1.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	20.4			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FF2

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100024

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.07	U	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.39			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	26.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.55			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.12			AV
7440-02-0	Nickel	0.40	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	30.2			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FF3

Lab Name: HES_INC. _____ Contract: ENNS _____

Lab Code: HAZLET Case No.: _____ SAS No.: _____ SDG No.: FF2 _____

Matrix (soil/water): BIOTA

Lab Sample ID: 51100023

Level (low/med): LOW _____

Date Received: 10/31/95

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.13	B	W	F
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.07	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.34			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	16.6			P
7439-89-6	Iron				NR
7439-92-1	Lead	0.14	B		F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.14			AV
7440-02-0	Nickel	0.28	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	29.1			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

APPENDIX J

VALIDATED LABORATORY DATA AND CHAINS OF CUSTODY

PARSONS ENGINEERING SCIENCE, INC.

PAESSYR01\VOL1:WP726521.03\26521R14.WW6
April 10, 1997/1:55 PM

NMPC ONEIDA
SUBSURFACE SOIL SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID:	B-01RH	B-03RG	B-03RJ	B-06RG	B-106RG
		DEPTH:	12-16'	09-15'	17-19'	10-14'	10-14'
		LAB ID:	2425201	2420905	2420908	2423701	2423702
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	B-1	B-1	B-1	TAL-1	TAL-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/23/95	6/20/95	6/20/95	6/21/95	6/21/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG				12 U	12 U
74-83-9	Bromomethane	UG/KG				12 U	12 U
75-01-4	Vinyl Chloride	UG/KG				12 U	12 U
75-00-3	Chloroethane	UG/KG				12 U	12 U
75-09-2	Methylene Chloride	UG/KG				4 J	R
67-64-1	Acetone	UG/KG				R	12 U
75-15-0	Carbon Disulfide	UG/KG				12 U	12 U
75-35-4	1,1-Dichloroethene	UG/KG				12 U	12 U
75-34-3	1,1-Dichloroethane	UG/KG				12 U	12 U
540-59-0	1,2-Dichloroethene (total)	UG/KG				12 U	12 U
67-66-3	Chloroform	UG/KG				12 U	12 U
107-06-2	1,2-Dichloroethane	UG/KG				12 U	12 U
78-93-3	2-Butanone	UG/KG				12 UJ	12 UJ
71-55-6	1,1,1-Trichloroethane	UG/KG				12 U	12 U
56-23-5	Carbon Tetrachloride	UG/KG				12 U	12 U
75-27-4	Bromodichloromethane	UG/KG				12 U	12 U
78-87-5	1,2-Dichloropropane	UG/KG				12 U	12 U
10061-01-5	cis-1,3-Dichloropropene	UG/KG				12 U	12 U
79-01-6	Trichloroethene	UG/KG				12 U	12 U
124-48-1	Dibromochloromethane	UG/KG				12 U	12 U
79-00-5	1,1,2-Trichloroethane	UG/KG				12 U	12 U
71-43-2	Benzene	UG/KG	1200 JD	24 UJ	8 J	2 J	1 J
10061-02-6	trans-1,3-Dichloropropene	UG/KG				12 U	12 U
75-25-2	Bromoform	UG/KG				12 U	12 U
108-10-1	4-Methyl-2-Pentanone	UG/KG				12 UJ	12 UJ
591-78-6	2-Hexanone	UG/KG				12 UJ	12 UJ
127-18-4	Tetrachloroethene	UG/KG				12 U	12 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG				12 U	12 U
108-88-3	Toluene	UG/KG	1200 JD	24 UJ	15 U	12 U	12 U
108-90-7	Chlorobenzene	UG/KG				12 U	12 U
100-41-4	Ethylbenzene	UG/KG	1700 D	24 UJ	9 J	28 J	14 J
100-42-5	Styrene	UG/KG				12 U	12 U
1330-20-7	Xylene (total)	UG/KG	3900 D	24 UJ	10 J	12 U	12 U
108-05-4	Vinyl Acetate	UG/KG				12 UJ	12 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-01RH 12-16' 2425201 NYTEST B-1 SOIL 6/23/95 10/03/95	B-03RG 09-15' 2420905 NYTEST B-1 SOIL 6/20/95 10/03/95	B-03RJ 17-19' 2420908 NYTEST B-1 SOIL 6/20/95 10/03/95	B-06RG 10-14' 2423701 NYTEST TAL-1 SOIL 6/21/95 10/03/95	B-106RG 10-14' 2423702 NYTEST TAL-1 SOIL 6/21/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG				1600 U	1600 U
111-44-4	bis(2-Chloroethyl)Ether	UG/KG				R	R
95-57-8	2-Chlorophenol	UG/KG				1600 U	1600 U
541-73-1	1,3-Dichlorobenzene	UG/KG				R	R
106-46-7	1,4-Dichlorobenzene	UG/KG				R	R
95-50-1	1,2-Dichlorobenzene	UG/KG				R	R
95-48-7	2-Methylphenol	UG/KG				1600 U	1600 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG				R	R
106-44-5	4-Methylphenol	UG/KG				1600 U	1600 U
621-64-7	N-Nitroso-di-n-propylamine	UG/KG				R	R
67-72-1	Hexachloroethane	UG/KG				R	R
98-95-3	Nitrobenzene	UG/KG				R	R
78-59-1	Isophorone	UG/KG				R	R
88-75-5	2-Nitrophenol	UG/KG				1600 U	1600 U
105-67-9	2,4-Dimethylphenol	UG/KG				1600 U	1600 U
120-83-2	2,4-Dichlorophenol	UG/KG				1600 U	1600 U
120-82-1	1,2,4-Trichlorobenzene	UG/KG				R	R
91-20-3	Naphthalene	UG/KG	53000 DJ	170 J	420 J	R	R
106-47-8	4-Chloroaniline	UG/KG				R	R
87-68-3	Hexachlorobutadiene	UG/KG				R	R
111-91-1	bis(2-Chloroethoxy)methane	UG/KG				R	R
59-50-7	4-Chloro-3-Methylphenol	UG/KG				1600 U	1600 U
91-57-6	2-Methylnaphthalene	UG/KG	24000 DJ	790 UJ	130 J	R	7400 J
77-47-4	Hexachlorocyclopentadiene	UG/KG				R	R
88-06-2	2,4,6-Trichlorophenol	UG/KG				1600 U	1600 U
95-95-4	2,4,5-Trichlorophenol	UG/KG				7900 U	7800 U
91-58-7	2-Chloronaphthalene	UG/KG				R	R
88-74-4	2-Nitroaniline	UG/KG				R	R
131-11-3	Dimethylphthalate	UG/KG				R	R
208-96-8	Acenaphthylene	UG/KG	13000 DJ	790 UJ	510 U	1800 J	3700 J
606-20-2	2,6-Dinitrotoluene	UG/KG				R	R
99-09-2	3-Nitroaniline	UG/KG				R	R
83-32-9	Acenaphthene	UG/KG	3100 J	790 UJ	110 J	8500 J	11000 J
51-28-5	2,4-Dinitrophenol	UG/KG				7900 U	7800 U
100-02-7	4-Nitrophenol	UG/KG				7900 UJ	7800 UJ
132-64-9	Dibenzofuran	UG/KG				2700 J	1800 J
121-14-2	2,4-Dinitrotoluene	UG/KG				R	R
84-66-2	Diethylphthalate	UG/KG				R	R
7005-72-3	4-Chlorophenyl-phenylether	UG/KG				R	R
86-73-7	Fluorene	UG/KG	8400 DJ	790 UJ	60 J	7900 J	11000 J
100-01-6	4-Nitroaniline	UG/KG				R	R
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG				7900 U	7800 U
86-30-6	N-Nitrosodiphenylamine	UG/KG				R	R
101-55-3	4-Bromophenyl-phenylether	UG/KG				R	R
118-74-1	Hexachlorobenzene	UG/KG				R	R
87-86-5	Pentachlorophenol	UG/KG				7900 U	7800 U
85-01-8	Phenanthrene	UG/KG	25000 DJ	790 UJ	160 J	32000 J	30000 J
120-12-7	Anthracene	UG/KG	8500 DJ	790 UJ	510 U	11000 J	10000 J
86-74-8	Carbazole	UG/KG				830 J	R
84-74-2	Di-n-butylphthalate	UG/KG				R	R
206-44-0	Fluoranthene	UG/KG	12000 DJ	790 UJ	510 U	22000 J	18000 J
129-00-0	Pyrene	UG/KG	9300 D	790 UJ	510 U	29000 J	22000 J
85-68-7	Butylbenzylphthalate	UG/KG				R	R
91-94-1	3,3'-Dichlorobenzidine	UG/KG				R	R
56-55-3	Benzo(a)anthracene	UG/KG	3100	790 UJ	510 U	10000 J	8300 J
218-01-9	Chrysene	UG/KG	2800	790 UJ	510 U	11000 J	9100 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG				R	R
117-84-0	Di-n-octylphthalate	UG/KG				R	R
205-99-2	Benzo(b)fluoranthene	UG/KG	1200	790 UJ	510 U	5100 J	3700 J
207-08-9	Benzo(k)fluoranthene	UG/KG	1000	790 UJ	510 UJ	5200 J	4600 J
50-32-8	Benzo(a)pyrene	UG/KG	1700	790 UJ	510 U	8400 J	6600 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	720 J	790 UJ	510 U	4100 J	3000 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	800 U	790 UJ	510 U	270 J	180 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	720 J	790 UJ	510 U	4400 J	3100 J
100-51-6	Benzyl Alcohol	UG/KG				1600 U	1600 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG. MATRIX: SAMPLED: VALIDATED:	B-01RH 12-16' 2425201 NYTEST B-1 SOIL 6/23/95 10/03/95	B-03RG 09-15' 2420905 NYTEST B-1 SOIL 6/20/95 10/03/95	B-03RJ 17-19' 2420908 NYTEST B-1 SOIL 6/20/95 10/03/95	B-06RG 10-14' 2423701 NYTEST TAL-1 SOIL 6/21/95 10/03/95	B-106RG 10-14' 2423702 NYTEST TAL-1 SOIL 6/21/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG				29 U	28 U
319-85-7	beta-BHC	UG/KG				29 U	28 U
319-86-8	delta-BHC	UG/KG				29 U	28 U
58-89-9	gamma-BHC(Lindane)	UG/KG				29 U	28 U
76-44-8	Heptachlor	UG/KG				29 U	28 U
309-00-2	Aldrin	UG/KG				29 U	28 U
1024-57-3	Heptachlor Epoxide	UG/KG				29 U	28 U
959-98-8	Endosulfan I	UG/KG				29 U	28 U
60-57-1	Dieldrin	UG/KG				57 U	56 U
72-55-9	4,4'-DDE	UG/KG				57 U	56 U
72-20-8	Endrin	UG/KG				57 U	56 U
33213-65-9	Endosulfan II	UG/KG				57 U	56 U
72-54-8	4,4'-DDD	UG/KG				57 U	56 U
1031-07-8	Endosulfan Sulfate	UG/KG				57 U	56 U
50-29-3	4,4'-DDT	UG/KG				57 U	56 U
72-43-5	Methoxychlor	UG/KG				290 U	280 U
53494-70-5	Endrin Ketone	UG/KG				57 U	56 U
7421-93-4	Endrin Aldehyde	UG/KG				57 U	56 U
5103-71-9	alpha-Chlordane	UG/KG				29 U	28 U
5103-74-2	gamma-Chlordane	UG/KG				29 U	28 U
8001-35-2	Toxaphene	UG/KG				570 U	560 U
12674-11-2	Aroclor-1016	UG/KG				290 U	280 U
11104-28-2	Aroclor-1221	UG/KG				290 U	280 U
11141-16-5	Aroclor-1232	UG/KG				290 U	280 U
53469-21-9	Aroclor-1242	UG/KG				290 U	280 U
12672-29-6	Aroclor-1248	UG/KG				290 U	280 U
11097-69-1	Aroclor-1254	UG/KG				290 U	280 U
11096-82-5	Aroclor-1260	UG/KG				290 U	280 U
	INORGANICS						
7429-90-5	Aluminum	MG/KG				3770	2700
7440-36-0	Antimony	MG/KG				0.83 J	1.4 J
7440-38-2	Arsenic	MG/KG				7.1	8.1
7440-39-3	Barium	MG/KG				37.8	32.2 J
7440-41-7	Beryllium	MG/KG				0.19 J	0.18 J
7440-43-9	Cadmium	MG/KG				0.05 U	0.06 U
7440-70-2	Calcium	MG/KG				79000	67400
7440-47-3	Chromium	MG/KG				6.4	5
7440-48-4	Cobalt	MG/KG				4.4 J	3.7 J
7440-50-8	Copper	MG/KG				30.6 J	33.9 J
7439-89-6	Iron	MG/KG				11200 J	8830 J
7439-92-1	Lead	MG/KG				8.6 J	14.4 J
7439-95-4	Magnesium	MG/KG				23700	27000
7439-96-5	Manganese	MG/KG				359 J	367 J
7439-97-6	Mercury	MG/KG				0.12 U	0.12 U
7440-02-0	Nickel	MG/KG				9.1	7.7 J
7440-09-7	Potassium	MG/KG				672 J	511 J
7782-49-2	Selenium	MG/KG				1.1 UJ	1.1 UJ
7440-22-4	Silver	MG/KG				0.11 UJ	0.12 UJ
7440-23-5	Sodium	MG/KG				169 J	182 J
7440-28-0	Thallium	MG/KG				1.1 UJ	1.1 UJ
7440-62-2	Vanadium	MG/KG				8.4 J	6.6 J
7440-66-6	Zinc	MG/KG				31.6 J	32.7 J
57-12-5	Cyanide	MG/KG	0.76	1.19 UJ	0.77 U	0.5 U	0.56 U
57-12-5A	Amenable Cyanide	MG/KG	0.76				
	OTHER						
TR-BTU	BTU	BTU/LB				100 U	
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG				274	
TR-TOX	Total Organic Halide	MG/KG				20 U	
7440-44-0	Total Organic Carbon	MG/KG				31000	147000
8030-30-6	Total Petroleum Hydrocarbons	MG/KG				210	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: B-06RK DEPTH: 20-22' LAB ID: 2423603 SOURCE: NYTEST SDG: B-1 MATRIX: SOIL SAMPLED: 6/21/95 VALIDATED: 10/03/95	B-106RK 20-22' 2423604 NYTEST B-1 SOIL 6/21/95 10/03/95	B-10RD 05-07' 2425301 NYTEST TAL-1 SOIL 6/23/95 10/03/95	B-10RE 08-10' 2420903 NYTEST B-1 SOIL 6/20/95 10/03/95	B-10RQ 32-34' 2420904 NYTEST B-1 SOIL 6/20/95 10/03/95
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
74-87-3	Chloromethane	UG/KG			30 UJ	
74-83-9	Bromomethane	UG/KG			30 UJ	
75-01-4	Vinyl Chloride	UG/KG			30 UJ	
75-00-3	Chloroethane	UG/KG			30 UJ	
75-09-2	Methylene Chloride	UG/KG			34 J	
67-64-1	Acetone	UG/KG			30 UJ	
75-15-0	Carbon Disulfide	UG/KG			30 UJ	
75-35-4	1,1-Dichloroethene	UG/KG			30 UJ	
75-34-3	1,1-Dichloroethane	UG/KG			30 UJ	
540-59-0	1,2-Dichloroethene (total)	UG/KG			30 UJ	
67-66-3	Chloroform	UG/KG			30 UJ	
107-06-2	1,2-Dichloroethane	UG/KG			30 UJ	
78-93-3	2-Butanone	UG/KG			30 UJ	
71-55-6	1,1,1-Trichloroethane	UG/KG			30 UJ	
56-23-5	Carbon Tetrachloride	UG/KG			30 UJ	
75-27-4	Bromodichloromethane	UG/KG			30 UJ	
78-87-5	1,2-Dichloropropane	UG/KG			30 UJ	
10061-01-5	cis-1,3-Dichloropropene	UG/KG			30 UJ	
79-01-6	Trichloroethene	UG/KG			30 UJ	
124-48-1	Dibromochloromethane	UG/KG			30 UJ	
79-00-5	1,1,2-Trichloroethane	UG/KG			30 UJ	
71-43-2	Benzene	UG/KG	41 J	31 J	6 J	5700 DJ
10061-02-6	trans-1,3-Dichloropropene	UG/KG			30 UJ	
75-25-2	Bromoform	UG/KG			30 UJ	
108-10-1	4-Methyl-2-Pentanone	UG/KG			30 UJ	
591-78-6	2-Hexanone	UG/KG			30 UJ	
127-18-4	Tetrachloroethene	UG/KG			30 UJ	
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG			30 UJ	
108-88-3	Toluene	UG/KG	4 J	1 J	30 UJ	530 JD
108-90-7	Chlorobenzene	UG/KG			30 UJ	
100-41-4	Ethylbenzene	UG/KG	48 J	27 J	30 UJ	27000 DJ
100-42-5	Styrene	UG/KG			30 UJ	
1330-20-7	Xylene (total)	UG/KG	47 J	18 J	30 J	49000 DJ
108-05-4	Vinyl Acetate	UG/KG			30 UJ	

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

SAMPLE ID:	B-06RK	B-106RK	B-10RD	B-10RE	B-10RQ
DEPTH:	20-22'	20-22'	05-07'	08-10'	32-34'
LAB ID:	2423603	2423604	2425301	2420903	2420904
SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
SDG:	B-1	B-1	TAL-1	B-1	B-1
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLED:	6/21/95	6/21/95	6/23/95	6/20/95	6/20/95
VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
UNITS:					

CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG			1000 UJ		
111-44-4	bis(2-Chloroethyl)Ether	UG/KG			1000 UJ		
95-57-8	2-Chlorophenol	UG/KG			1000 UJ		
541-73-1	1,3-Dichlorobenzene	UG/KG			1000 UJ		
106-46-7	1,4-Dichlorobenzene	UG/KG			1000 UJ		
95-50-1	1,2-Dichlorobenzene	UG/KG			1000 UJ		
95-48-7	2-Methylphenol	UG/KG			1000 UJ		
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG			1000 UJ		
106-44-5	4-Methylphenol	UG/KG			1000 UJ		
621-64-7	N-Nitroso-di-n-propylamine	UG/KG			1000 UJ		
67-72-1	Hexachloroethane	UG/KG			1000 UJ		
98-95-3	Nitrobenzene	UG/KG			1000 UJ		
78-59-1	Isophorone	UG/KG			1000 UJ		
88-75-5	2-Nitrophenol	UG/KG			1000 UJ		
105-67-9	2,4-Dimethylphenol	UG/KG			1000 UJ		
120-83-2	2,4-Dichlorophenol	UG/KG			1000 UJ		
120-82-1	1,2,4-Trichlorobenzene	UG/KG			1000 UJ		
91-20-3	Naphthalene	UG/KG	480 J	800 UJ	550 J	170000 DJ	400 U
106-47-8	4-Chloroaniline	UG/KG			1000 UJ		
87-68-3	Hexachlorobutadiene	UG/KG			1000 UJ		
111-91-1	bis(2-Chloroethoxy)methane	UG/KG			1000 UJ		
59-50-7	4-Chloro-3-Methylphenol	UG/KG			1000 UJ		
91-57-6	2-Methylnaphthalene	UG/KG	110 J	2200 J	1000 UJ	56000 DJ	400 U
77-47-4	Hexachlorocyclopentadiene	UG/KG			1000 UJ		
88-06-2	2,4,6-Trichlorophenol	UG/KG			1000 UJ		
95-95-4	2,4,5-Trichlorophenol	UG/KG			5000 UJ		
91-58-7	2-Chloronaphthalene	UG/KG			1000 UJ		
88-74-4	2-Nitroaniline	UG/KG			5000 UJ		
131-11-3	Dimethylphthalate	UG/KG			1000 UJ		
208-96-8	Acenaphthylene	UG/KG	220 J	800 UJ	1000 UJ	14000 J	400 U
606-20-2	2,6-Dinitrotoluene	UG/KG			1000 UJ		
99-09-2	3-Nitroaniline	UG/KG			5000 UJ		
83-32-9	Acenaphthene	UG/KG	520 J	1200 J	220 J	85000 DJ	400 U
51-28-5	2,4-Dinitrophenol	UG/KG			5000 UJ		
100-02-7	4-Nitrophenol	UG/KG			5000 UJ		
132-64-9	Dibenzofuran	UG/KG			1000 UJ		
121-14-2	2,4-Dinitrotoluene	UG/KG			1000 UJ		
84-66-2	Diethylphthalate	UG/KG			1000 UJ		
7005-72-3	4-Chlorophenyl-phenylether	UG/KG			1000 UJ		
86-73-7	Fluorene	UG/KG	390 J	870 J	1000 UJ	72000 DJ	400 U
100-01-6	4-Nitroaniline	UG/KG			5000 UJ		
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG			5000 UJ		
86-30-6	N-Nitrosodiphenylamine	UG/KG			1000 UJ		
101-55-3	4-Bromophenyl-phenylether	UG/KG			1000 UJ		
118-74-1	Hexachlorobenzene	UG/KG			1000 UJ		
87-86-5	Pentachlorophenol	UG/KG			5000 UJ		
85-01-8	Phenanthrene	UG/KG	2800 J	1300 J	1000 UJ	280000 DJ	400 U
120-12-7	Anthracene	UG/KG	630 J	390 J	1000 UJ	62000 DJ	400 U
86-74-8	Carbazole	UG/KG			1000 UJ		
84-74-2	Di-n-butylphthalate	UG/KG			1000 UJ		
206-44-0	Fluoranthene	UG/KG	1000 J	320 J	1000 UJ	120000 DJ	400 U
129-00-0	Pyrene	UG/KG	1200 J	820 J	1000 UJ	63000 J	400 U
85-68-7	Butylbenzylphthalate	UG/KG			1000 UJ		
91-94-1	3,3'-Dichlorobenzidine	UG/KG			2000 UJ		
56-55-3	Benzo(a)anthracene	UG/KG	370 J	120 J	1000 UJ	44000 J	400 U
218-01-9	Chrysene	UG/KG	260 J	130 J	1000 UJ	44000 J	400 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG			1000 UJ		
117-84-0	Di-n-octylphthalate	UG/KG			1000 UJ		
205-99-2	Benzo(b)fluoranthene	UG/KG	160 J	800 U	1000 UJ	31000 J	400 U
207-08-9	Benzo(k)fluoranthene	UG/KG	170 J	800 U	1000 UJ	35000 J	400 UJ
50-32-8	Benzo(a)pyrene	UG/KG	280 J	800 U	1000 UJ	43000 J	400 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	140 J	800 U	1000 UJ	7000 J	400 U
53-70-3	Dibenz(a,h)anthracene	UG/KG	800 U	800 U	1000 UJ	9800 UJ	400 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	190 J	800 U	1000 UJ	6300 J	400 U
100-51-6	Benzyl Alcohol	UG/KG			1000 UJ		

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-06RK 20-22' 2423603 NYTEST B-1 SOIL 6/21/95 10/03/95	B-106RK 20-22' 2423604 NYTEST B-1 SOIL 6/21/95 10/03/95	B-10RD 05-07' 2425301 NYTEST TAL-1 SOIL 6/23/95 10/03/95	B-10RE 08-10' 2420903 NYTEST B-1 SOIL 6/20/95 10/03/95	B-10RQ 32-34' 2420904 NYTEST B-1 SOIL 6/20/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG			24 UJ		
319-85-7	beta-BHC	UG/KG			24 UJ		
319-86-8	delta-BHC	UG/KG			24 UJ		
58-89-9	gamma-BHC(Lindane)	UG/KG			24 UJ		
76-44-8	Heptachlor	UG/KG			24 UJ		
309-00-2	Aldrin	UG/KG			24 UJ		
1024-57-3	Heptachlor Epoxide	UG/KG			24 UJ		
959-98-8	Endosulfan I	UG/KG			24 UJ		
60-57-1	Dieldrin	UG/KG			48 UJ		
72-55-9	4,4'-DDE	UG/KG			48 UJ		
72-20-8	Endrin	UG/KG			48 UJ		
33213-65-9	Endosulfan II	UG/KG			48 UJ		
72-54-8	4,4'-DDD	UG/KG			48 UJ		
1031-07-8	Endosulfan Sulfate	UG/KG			48 UJ		
50-29-3	4,4'-DDT	UG/KG			48 UJ		
72-43-5	Methoxychlor	UG/KG			240 UJ		
53494-70-5	Endrin Ketone	UG/KG			48 UJ		
7421-93-4	Endrin Aldehyde	UG/KG			48 UJ		
5103-71-9	alpha-Chlordane	UG/KG			24 UJ		
5103-74-2	gamma-Chlordane	UG/KG			24 UJ		
8001-35-2	Toxaphene	UG/KG			480 UJ		
12674-11-2	Aroclor-1016	UG/KG			240 UJ		
11104-28-2	Aroclor-1221	UG/KG			240 UJ		
11141-16-5	Aroclor-1232	UG/KG			240 UJ		
53469-21-9	Aroclor-1242	UG/KG			240 UJ		
12672-29-6	Aroclor-1248	UG/KG			240 UJ		
11097-69-1	Aroclor-1254	UG/KG			240 UJ		
11096-82-5	Aroclor-1260	UG/KG			240 UJ		
	INORGANICS						
7429-90-5	Aluminum	MG/KG			271 J		
7440-36-0	Antimony	MG/KG			2 UJ		
7440-38-2	Arsenic	MG/KG			2.6 UJ		
7440-39-3	Barium	MG/KG			15.1 J		
7440-41-7	Beryllium	MG/KG			0.16 J		
7440-43-9	Cadmium	MG/KG			0.17 UJ		
7440-70-2	Calcium	MG/KG			11100 J		
7440-47-3	Chromium	MG/KG			0.96 J		
7440-48-4	Cobalt	MG/KG			1.2 UJ		
7440-50-8	Copper	MG/KG			3.8 J		
7439-89-6	Iron	MG/KG			296 J		
7439-92-1	Lead	MG/KG			2.2 J		
7439-95-4	Magnesium	MG/KG			472 J		
7439-96-5	Manganese	MG/KG			11.4 J		
7439-97-6	Mercury	MG/KG			0.3 UJ		
7440-02-0	Nickel	MG/KG			2.1 UJ		
7440-09-7	Potassium	MG/KG			219 UJ		
7782-49-2	Selenium	MG/KG			2.6 UJ		
7440-22-4	Silver	MG/KG			0.33 UJ		
7440-23-5	Sodium	MG/KG			513 J		
7440-28-0	Thallium	MG/KG			2.6 UJ		
7440-62-2	Vanadium	MG/KG			0.67 UJ		
7440-66-6	Zinc	MG/KG			15.2 J		
57-12-5	Cyanide	MG/KG	0.6 U	0.6 U	1.7 UJ	1.47 UJ	0.54 U
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
TR-BTU	BTU	BTU/LB			100 U		
TR-ASH	Ash	MG/KG			12700		
TR-SULF-T	Total Sulfur	MG/KG			2530		
TR-TOX	Total Organic Halide	MG/KG			20 U		
7440-44-0	Total Organic Carbon	MG/KG	29600	28700	226000 J		
8030-30-6	Total Petroleum Hydrocarbons	MG/KG			33 J		

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-15RG 10-14' 2427001 NYTEST TAL-1 SOIL 6/26/95 10/03/95	B-24D 06-08' 2423602 NYTEST B-1 SOIL 6/21/95 10/03/95	B-25J 18-20' 2423601 NYTEST B-1 SOIL 6/21/95 10/03/95	B-26F 10-12' 2420901 NYTEST B-1 SOIL 6/19/95 10/03/95	B-26M 24-26' 2420902 NYTEST B-1 SOIL 6/20/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG	1700 U				
74-83-9	Bromomethane	UG/KG	1700 U				
75-01-4	Vinyl Chloride	UG/KG	1700 U				
75-00-3	Chloroethane	UG/KG	1700 U				
75-09-2	Methylene Chloride	UG/KG	1700 U				
67-64-1	Acetone	UG/KG	1700 U				
75-15-0	Carbon Disulfide	UG/KG	1700 U				
75-35-4	1,1-Dichloroethene	UG/KG	1700 U				
75-34-3	1,1-Dichloroethane	UG/KG	1700 U				
540-59-0	1,2-Dichloroethene (total)	UG/KG	1700 U				
67-66-3	Chloroform	UG/KG	1700 U				
107-06-2	1,2-Dichloroethane	UG/KG	1700 U				
78-93-3	2-Butanone	UG/KG	1700 U				
71-55-6	1,1,1-Trichloroethane	UG/KG	1700 U				
56-23-5	Carbon Tetrachloride	UG/KG	1700 U				
75-27-4	Bromodichloromethane	UG/KG	1700 U				
78-87-5	1,2-Dichloropropane	UG/KG	1700 U				
10061-01-5	cis-1,3-Dichloropropene	UG/KG	1700 U				
79-01-6	Trichloroethene	UG/KG	1700 U				
124-48-1	Dibromochloromethane	UG/KG	1700 U				
79-00-5	1,1,2-Trichloroethane	UG/KG	1700 U				
71-43-2	Benzene	UG/KG	1700 U	52 J	12 U	2 J	12 UJ
10061-02-6	trans-1,3-Dichloropropene	UG/KG	1700 U				
75-25-2	Bromoform	UG/KG	1700 U				
108-10-1	4-Methyl-2-Pentanone	UG/KG	1700 U				
591-78-6	2-Hexanone	UG/KG	1700 U				
127-18-4	Tetrachloroethene	UG/KG	1700 U				
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	1700 U				
108-88-3	Toluene	UG/KG	9800	5 J	12 U	14 U	12 UJ
108-90-7	Chlorobenzene	UG/KG	1700 U				
100-41-4	Ethylbenzene	UG/KG	72000 D	32 UJ	7 J	14 U	12 UJ
100-42-5	Styrene	UG/KG	5900				
1330-20-7	Xylene (total)	UG/KG	100000 D	55 J	8 J	14 U	12 UJ
108-05-4	Vinyl Acetate	UG/KG	1700 U				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-15RG 10-14' 2427001 NYTEST TAL-1 SOIL 6/26/95 10/03/95	B-24D 06-08' 2423602 NYTEST B-1 SOIL 6/21/95 10/03/95	B-25J 18-20' 2423601 NYTEST B-1 SOIL 6/21/95 10/03/95	B-26F 10-12' 2420901 NYTEST B-1 SOIL 6/19/95 10/03/95	B-26M 24-26' 2420902 NYTEST B-1 SOIL 6/20/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG	1900 U				
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	1900 U				
95-57-8	2-Chlorophenol	UG/KG	1900 U				
541-73-1	1,3-Dichlorobenzene	UG/KG	1900 U				
106-46-7	1,4-Dichlorobenzene	UG/KG	1900 U				
95-50-1	1,2-Dichlorobenzene	UG/KG	1900 U				
95-48-7	2-Methylphenol	UG/KG	1900 U				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	1900 U				
106-44-5	4-Methylphenol	UG/KG	1900 U				
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	1900 U				
67-72-1	Hexachloroethane	UG/KG	1900 U				
98-95-3	Nitrobenzene	UG/KG	1900 U				
78-59-1	Isophorone	UG/KG	1900 U				
88-75-5	2-Nitrophenol	UG/KG	1900 U				
105-67-9	2,4-Dimethylphenol	UG/KG	1900 U				
120-83-2	2,4-Dichlorophenol	UG/KG	1900 U				
120-82-1	1,2,4-Trichlorobenzene	UG/KG	1900 U				
91-20-3	Naphthalene	UG/KG	570000 D	2300 J	210 J	410 J	410 U
106-47-8	4-Chloroaniline	UG/KG	1900 U				
87-68-3	Hexachlorobutadiene	UG/KG	1900 U				
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	1900 U				
59-50-7	4-Chloro-3-Methylphenol	UG/KG	1900 U				
91-57-6	2-Methylnaphthalene	UG/KG	190000 D	2200 UJ	200 J	660 J	410 U
77-47-4	Hexachlorocyclopentadiene	UG/KG	1900 UJ				
88-06-2	2,4,6-Trichlorophenol	UG/KG	1900 U				
95-95-4	2,4,5-Trichlorophenol	UG/KG	9400 U				
91-58-7	2-Chloronaphthalene	UG/KG	1900 U				
88-74-4	2-Nitroaniline	UG/KG	9400 U				
131-11-3	Dimethylphthalate	UG/KG	1900 U				
208-96-8	Acenaphthylene	UG/KG	70000 JD	2200 UJ	200 J	370 J	410 U
606-20-2	2,6-Dinitrotoluene	UG/KG	1900 U				
99-09-2	3-Nitroaniline	UG/KG	9400 UJ				
83-32-9	Acenaphthene	UG/KG	9600	580 J	1400	480 J	410 U
51-28-5	2,4-Dinitrophenol	UG/KG	9400 U				
100-02-7	4-Nitrophenol	UG/KG	9400 U				
132-64-9	Dibenzofuran	UG/KG	11000				
121-14-2	2,4-Dinitrotoluene	UG/KG	1900 U				
84-66-2	Diethylphthalate	UG/KG	1900 U				
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	1900 U				
86-73-7	Fluorene	UG/KG	34000 JD	2200 UJ	1000	1400 J	410 U
100-01-6	4-Nitroaniline	UG/KG	9400 U				
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	9400 U				
86-30-6	N-Nitrosodiphenylamine	UG/KG	1900 UJ				
101-55-3	4-Bromophenyl-phenylether	UG/KG	1900 U				
118-74-1	Hexachlorobenzene	UG/KG	1900 U				
87-86-5	Pentachlorophenol	UG/KG	9400 U				
85-01-8	Phenanthrene	UG/KG	70000 JD	2200 UJ	2800	12000	410 U
120-12-7	Anthracene	UG/KG	22000 JD	2200 UJ	1100	1100 J	410 U
86-74-8	Carbazole	UG/KG	1600 J				
84-74-2	Di-n-butylphthalate	UG/KG	1900 U				
206-44-0	Fluoranthene	UG/KG	26000 JD	2200 UJ	1300	7100	410 U
129-00-0	Pyrene	UG/KG	24000 JD	2200 UJ	1200	4400	410 U
85-68-7	Butylbenzylphthalate	UG/KG	1900 U				
91-94-1	3,3'-Dichlorobenzidine	UG/KG	3800 UJ				
56-55-3	Benzo(a)anthracene	UG/KG	11000 JD	2200 UJ	630	2100	410 U
218-01-9	Chrysene	UG/KG	11000 JD	2200 UJ	580	2900	410 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	1900 U				
117-84-0	Di-n-octylphthalate	UG/KG	1900 U				
205-99-2	Benzo(b)fluoranthene	UG/KG	9800	2200 UJ	200 J	1400 J	410 U
207-08-9	Benzo(k)fluoranthene	UG/KG	75000 U	2200 UJ	190 J	1800 J	410 U
50-32-8	Benzo(a)pyrene	UG/KG	9300 JD	2200 UJ	430	2100	410 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	2900	2200 UJ	160 J	430 J	410 U
53-70-3	Dibenz(a,h)anthracene	UG/KG	410 J	2200 UJ	390 U	1800 U	410 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	2600	2200 UJ	160 J	450 J	410 U
100-51-6	Benzyl Alcohol	UG/KG	1900 U				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: B-15RG DEPTH: 10-14' LAB ID: 2427001 SOURCE: NYTEST SDG: TAL-1 MATRIX: SOIL SAMPLED: 6/26/95 VALIDATED: 10/03/95	B-24D 06-08' 2423602 NYTEST B-1 SOIL 6/21/95 10/03/95	B-25J 18-20' 2423601 NYTEST B-1 SOIL 6/21/95 10/03/95	B-26F 10-12' 2420901 NYTEST B-1 SOIL 6/19/95 10/03/95	B-26M 24-26' 2420902 NYTEST B-1 SOIL 6/20/95 10/03/95
CAS NO.	COMPOUND	UNITS:				
PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG	11 U			
319-85-7	beta-BHC	UG/KG	11 U			
319-86-8	delta-BHC	UG/KG	11 U			
58-89-9	gamma-BHC(Lindane)	UG/KG	11 U			
76-44-8	Heptachlor	UG/KG	11 U			
309-00-2	Aldrin	UG/KG	11 U			
1024-57-3	Heptachlor Epoxide	UG/KG	11 U			
959-98-8	Endosulfan I	UG/KG	11 U			
60-57-1	Dieldrin	UG/KG	23 U			
72-55-9	4,4'-DDE	UG/KG	23 U			
72-20-8	Endrin	UG/KG	23 U			
33213-65-9	Endosulfan II	UG/KG	15 J			
72-54-8	4,4'-DDD	UG/KG	23 U			
1031-07-8	Endosulfan Sulfate	UG/KG	23 U			
50-29-3	4,4'-DDT	UG/KG	23 U			
72-43-5	Methoxychlor	UG/KG	110 U			
53494-70-5	Endrin Ketone	UG/KG	23 U			
7421-93-4	Endrin Aldehyde	UG/KG	23 U			
5103-71-9	alpha-Chlordane	UG/KG	11 U			
5103-74-2	gamma-Chlordane	UG/KG	11 U			
8001-35-2	Toxaphene	UG/KG	230 U			
12674-11-2	Aroclor-1016	UG/KG	110 U			
11104-28-2	Aroclor-1221	UG/KG	110 U			
11141-16-5	Aroclor-1232	UG/KG	110 U			
53469-21-9	Aroclor-1242	UG/KG	110 U			
12672-29-6	Aroclor-1248	UG/KG	110 U			
11097-69-1	Aroclor-1254	UG/KG	110 U			
11096-82-5	Aroclor-1260	UG/KG	110 U			
INORGANICS						
7429-90-5	Aluminum	MG/KG	2440			
7440-36-0	Antimony	MG/KG	10.6 UJ			
7440-38-2	Arsenic	MG/KG	5			
7440-39-3	Barium	MG/KG	67.7			
7440-41-7	Beryllium	MG/KG	0.22 U			
7440-43-9	Cadmium	MG/KG	1.1 U			
7440-70-2	Calcium	MG/KG	53000			
7440-47-3	Chromium	MG/KG	1.8 U			
7440-48-4	Cobalt	MG/KG	2.5 U			
7440-50-8	Copper	MG/KG	6.8 J			
7439-89-6	Iron	MG/KG	5830 J			
7439-92-1	Lead	MG/KG	17.1 J			
7439-95-4	Magnesium	MG/KG	17200			
7439-96-5	Manganese	MG/KG	223 J			
7439-97-6	Mercury	MG/KG	0.14 U			
7440-02-0	Nickel	MG/KG	7.4 U			
7440-09-7	Potassium	MG/KG	408 U			
7782-49-2	Selenium	MG/KG	1.3 UJ			
7440-22-4	Silver	MG/KG	1.5 UJ			
7440-23-5	Sodium	MG/KG	153 U			
7440-28-0	Thallium	MG/KG	1.3 U			
7440-62-2	Vanadium	MG/KG	5.1 J			
7440-66-6	Zinc	MG/KG	15 J			
57-12-5	Cyanide	MG/KG	0.6 U	1.61 UJ	0.58 U	0.68 U
57-12-5A	Amenable Cyanide	MG/KG				0.61 U
OTHER						
TR-BTU	BTU	BTU/LB	100 U			
TR-ASH	Ash	MG/KG	764000			
TR-SULF-T	Total Sulfur	MG/KG	1487			
TR-TOX	Total Organic Halide	MG/KG	20 U			
7440-44-0	Total Organic Carbon	MG/KG	52700			
8030-30-6	Total Petroleum Hydrocarbons	MG/KG	460			

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-27D 06-08' 2440201 NYTEST B-2 SOIL 7/12/95 10/03/95	B-127D 04-08' 2440208 NYTEST B-2 SOIL 7/12/95 10/03/95	B-27K 20-22' 2440202 NYTEST B-2 SOIL 7/12/95 10/03/95	B-28G 12-14' 2440203 NYTEST B-2 SOIL 7/12/95 10/03/95	B-29D 04-08' 2440204 NYTEST B-2 SOIL 7/12/95 10/03/95
CAS NO	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG					
74-83-9	Bromomethane	UG/KG					
75-01-4	Vinyl Chloride	UG/KG					
75-00-3	Chloroethane	UG/KG					
75-09-2	Methylene Chloride	UG/KG					
67-64-1	Acetone	UG/KG					
75-15-0	Carbon Disulfide	UG/KG					
75-35-4	1,1-Dichloroethene	UG/KG					
75-34-3	1,1-Dichloroethane	UG/KG					
540-59-0	1,2-Dichloroethene (total)	UG/KG					
67-66-3	Chloroform	UG/KG					
107-06-2	1,2-Dichloroethane	UG/KG					
78-93-3	2-Butanone	UG/KG					
71-55-6	1,1,1-Trichloroethane	UG/KG					
56-23-5	Carbon Tetrachloride	UG/KG					
75-27-4	Bromodichloromethane	UG/KG					
78-87-5	1,2-Dichloropropane	UG/KG					
10061-01-5	cis-1,3-Dichloropropene	UG/KG					
79-01-6	Trichloroethene	UG/KG					
124-48-1	Dibromochloromethane	UG/KG					
79-00-5	1,1,2-Trichloroethane	UG/KG					
71-43-2	Benzene	UG/KG	18 U	12 U	12 UJ	1600 U	14 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG					
75-25-2	Bromoform	UG/KG					
108-10-1	4-Methyl-2-Pentanone	UG/KG					
591-78-6	2-Hexanone	UG/KG					
127-18-4	Tetrachloroethene	UG/KG					
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG					
108-88-3	Toluene	UG/KG	18 U	12 U	12 UJ	1200 J	14 U
108-90-7	Chlorobenzene	UG/KG					
100-41-4	Ethylbenzene	UG/KG	18 U	12 U	12 UJ	16000	14 U
100-42-5	Styrene	UG/KG					
1330-20-7	Xylene (total)	UG/KG	18 U	12 U	12 UJ	20000	14 U
108-05-4	Vinyl Acetate	UG/KG					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

		SAMPLE ID:	B-27D	B-127D	B-27K	B-28G	B-29D
		DEPTH:	06-08'	04-08'	20-22'	12-14'	04-08'
		LAB ID:	2440201	2440208	2440202	2440203	2440204
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	B-2	B-2	B-2	B-2	B-2
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	7/12/95	7/12/95	7/12/95	7/12/95	7/12/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG					
111-44-4	bis(2-Chloroethyl)Ether	UG/KG					
95-57-8	2-Chlorophenol	UG/KG					
541-73-1	1,3-Dichlorobenzene	UG/KG					
106-46-7	1,4-Dichlorobenzene	UG/KG					
95-50-1	1,2-Dichlorobenzene	UG/KG					
95-48-7	2-Methylphenol	UG/KG					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG					
106-44-5	4-Methylphenol	UG/KG					
621-64-7	N-Nitroso-di-n-propylamine	UG/KG					
67-72-1	Hexachloroethane	UG/KG					
98-95-3	Nitrobenzene	UG/KG					
78-59-1	Isophorone	UG/KG					
88-75-5	2-Nitrophenol	UG/KG					
105-67-9	2,4-Dimethylphenol	UG/KG					
120-83-2	2,4-Dichlorophenol	UG/KG					
120-82-1	1,2,4-Trichlorobenzene	UG/KG					
91-20-3	Naphthalene	UG/KG	620 U	410 U	400 U	130000 D	81 J
106-47-8	4-Chloroaniline	UG/KG					
87-68-3	Hexachlorobutadiene	UG/KG					
111-91-1	bis(2-Chloroethoxy)methane	UG/KG					
59-50-7	4-Chloro-3-Methylphenol	UG/KG					
91-57-6	2-Methylnaphthalene	UG/KG	620 U	410 U	400 U	80000 D	470 U
77-47-4	Hexachlorocyclopentadiene	UG/KG					
88-06-2	2,4,6-Trichlorophenol	UG/KG					
95-95-4	2,4,5-Trichlorophenol	UG/KG					
91-58-7	2-Chloronaphthalene	UG/KG					
88-74-4	2-Nitroaniline	UG/KG					
131-11-3	Dimethylphthalate	UG/KG					
208-96-8	Acenaphthylene	UG/KG	620 U	410 U	46 J	18000	93 J
606-20-2	2,6-Dinitrotoluene	UG/KG					
99-09-2	3-Nitroaniline	UG/KG					
83-32-9	Acenaphthene	UG/KG	620 U	410 U	150 J	42000 D	420 J
51-28-5	2,4-Dinitrophenol	UG/KG					
100-02-7	4-Nitrophenol	UG/KG					
132-64-9	Dibenzofuran	UG/KG					
121-14-2	2,4-Dinitrotoluene	UG/KG					
84-66-2	Diethylphthalate	UG/KG					
7005-72-3	4-Chlorophenyl-phenylether	UG/KG					
86-73-7	Fluorene	UG/KG	620 U	410 U	120 J	24000	230 J
100-01-6	4-Nitroaniline	UG/KG					
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG					
86-30-6	N-Nitrosodiphenylamine	UG/KG					
101-55-3	4-Bromophenyl-phenylether	UG/KG					
118-74-1	Hexachlorobenzene	UG/KG					
87-86-5	Pentachlorophenol	UG/KG					
85-01-8	Phenanthrene	UG/KG	620 U	410 U	260 J	55000 D	470 U
120-12-7	Anthracene	UG/KG	620 U	410 U	54 J	17000	470 U
86-74-8	Carbazole	UG/KG					
84-74-2	Di-n-butylphthalate	UG/KG					
206-44-0	Fluoranthene	UG/KG	620 U	410 U	400 U	19000	470 U
129-00-0	Pyrene	UG/KG	620 U	410 U	400 U	22000	470 U
85-68-7	Butylbenzylphthalate	UG/KG					
91-94-1	3,3'-Dichlorobenzidine	UG/KG					
56-55-3	Benzo(a)anthracene	UG/KG	620 U	410 U	400 U	8400	470 U
218-01-9	Chrysene	UG/KG	620 U	410 U	400 U	6800	470 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG					
117-84-0	Di-n-octylphthalate	UG/KG					
205-99-2	Benzo(b)fluoranthene	UG/KG	620 U	410 U	400 U	3100 J	470 U
207-08-9	Benzo(k)fluoranthene	UG/KG	620 U	410 U	400 U	3500 J	470 U
50-32-8	Benzo(a)pyrene	UG/KG	620 U	410 U	400 U	6700	470 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	620 U	410 U	400 U	2500 J	470 U
53-70-3	Dibenz(a,h)anthracene	UG/KG	620 U	410 U	400 U	4500 U	470 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	620 U	410 U	400 U	3000 J	470 U
100-51-6	Benzyl Alcohol	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-27D 06-08' 2440201 NYTEST B-2 SOIL 7/12/95 10/03/95	B-127D 04-08' 2440208 NYTEST B-2 SOIL 7/12/95 10/03/95	B-27K 20-22' 2440202 NYTEST B-2 SOIL 7/12/95 10/03/95	B-28G 12-14' 2440203 NYTEST B-2 SOIL 7/12/95 10/03/95	B-29D 04-08' 2440204 NYTEST B-2 SOIL 7/12/95 10/03/95
CAS NO	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG					
319-85-7	beta-BHC	UG/KG					
319-86-8	delta-BHC	UG/KG					
58-89-9	gamma-BHC(Lindane)	UG/KG					
76-44-8	Heptachlor	UG/KG					
309-00-2	Aldrin	UG/KG					
1024-57-3	Heptachlor Epoxide	UG/KG					
959-98-8	Endosulfan I	UG/KG					
60-57-1	Dieldrin	UG/KG					
72-55-9	4,4'-DDE	UG/KG					
72-20-8	Endrin	UG/KG					
33213-65-9	Endosulfan II	UG/KG					
72-54-8	4,4'-DDD	UG/KG					
1031-07-8	Endosulfan Sulfate	UG/KG					
50-29-3	4,4'-DDT	UG/KG					
72-43-5	Methoxychlor	UG/KG					
53494-70-5	Endrin Ketone	UG/KG					
7421-93-4	Endrin Aldehyde	UG/KG					
5103-71-9	alpha-Chlordane	UG/KG					
5103-74-2	gamma-Chlordane	UG/KG					
8001-35-2	Toxaphene	UG/KG					
12674-11-2	Aroclor-1016	UG/KG					
11104-28-2	Aroclor-1221	UG/KG					
11141-16-5	Aroclor-1232	UG/KG					
53469-21-9	Aroclor-1242	UG/KG					
12672-29-6	Aroclor-1248	UG/KG					
11097-69-1	Aroclor-1254	UG/KG					
11096-82-5	Aroclor-1260	UG/KG					
	INORGANICS						
7429-90-5	Aluminum	MG/KG					
7440-36-0	Antimony	MG/KG					
7440-38-2	Arsenic	MG/KG					
7440-39-3	Barium	MG/KG					
7440-41-7	Beryllium	MG/KG					
7440-43-9	Cadmium	MG/KG					
7440-70-2	Calcium	MG/KG					
7440-47-3	Chromium	MG/KG					
7440-48-4	Cobalt	MG/KG					
7440-50-8	Copper	MG/KG					
7439-89-6	Iron	MG/KG					
7439-92-1	Lead	MG/KG					
7439-95-4	Magnesium	MG/KG					
7439-96-5	Manganese	MG/KG					
7439-97-6	Mercury	MG/KG					
7440-02-0	Nickel	MG/KG					
7440-09-7	Potassium	MG/KG					
7782-49-2	Selenium	MG/KG					
7440-22-4	Silver	MG/KG					
7440-23-5	Sodium	MG/KG					
7440-28-0	Thallium	MG/KG					
7440-62-2	Vanadium	MG/KG					
7440-66-6	Zinc	MG/KG					
57-12-5	Cyanide	MG/KG	R	4.55 J	R	1.89 J	R
57-12-5A	Amenable Cyanide	MG/KG		3.08 J			
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG					
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

		SAMPLE ID:	B-29H	B-30H	ES-02SD	ES-02SF	ES-03SE
		DEPTH:	12-16'	12-15'	06-08'	10-12'	08-10'
		LAB ID:	2440205	2427107	2423606	2423607	2423605
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	B-2	SB-1	B-1	B-1	B-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	7/12/95	6/27/95	6/22/95	6/22/95	6/22/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG					
74-83-9	Bromomethane	UG/KG					
75-01-4	Vinyl Chloride	UG/KG					
75-00-3	Chloroethane	UG/KG					
75-09-2	Methylene Chloride	UG/KG					
67-64-1	Acetone	UG/KG					
75-15-0	Carbon Disulfide	UG/KG					
75-35-4	1,1-Dichloroethene	UG/KG					
75-34-3	1,1-Dichloroethane	UG/KG					
540-59-0	1,2-Dichloroethene (total)	UG/KG					
67-66-3	Chloroform	UG/KG					
107-06-2	1,2-Dichloroethane	UG/KG					
78-93-3	2-Butanone	UG/KG					
71-55-6	1,1,1-Trichloroethane	UG/KG					
56-23-5	Carbon Tetrachloride	UG/KG					
75-27-4	Bromodichloromethane	UG/KG					
78-87-5	1,2-Dichloropropane	UG/KG					
10061-01-5	cis-1,3-Dichloropropene	UG/KG					
79-01-6	Trichloroethene	UG/KG					
124-48-1	Dibromochloromethane	UG/KG					
79-00-5	1,1,2-Trichloroethane	UG/KG					
71-43-2	Benzene	UG/KG	1400 U	11 U	49000 D	8600	5 J
10061-02-6	trans-1,3-Dichloropropene	UG/KG					
75-25-2	Bromoform	UG/KG					
108-10-1	4-Methyl-2-Pentanone	UG/KG					
591-78-6	2-Hexanone	UG/KG					
127-18-4	Tetrachloroethene	UG/KG					
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG					
108-88-3	Toluene	UG/KG	1400 U	11 U	160000 D	18000	4 J
108-90-7	Chlorobenzene	UG/KG					
100-41-4	Ethylbenzene	UG/KG	1400 J	11 U	240000 D	61000 D	38 J
100-42-5	Styrene	UG/KG					
1330-20-7	Xylene (total)	UG/KG	1100 J	11 U	340000 D	82000 D	52 J
108-05-4	Vinyl Acetate	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-29H 12-16' 2440205 NYTEST B-2 SOIL 7/12/95 10/03/95	B-30H 12-15' 2427107 NYTEST SB-1 SOIL 6/27/95 10/03/95	ES-02SD 06-08' 2423606 NYTEST B-1 SOIL 6/22/95 10/03/95	ES-02SF 10-12' 2423607 NYTEST B-1 SOIL 6/22/95 10/03/95	ES-03SE 08-10' 2423605 NYTEST B-1 SOIL 6/22/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG					
111-44-4	bis(2-Chloroethyl)Ether	UG/KG					
95-57-8	2-Chlorophenol	UG/KG					
541-73-1	1,3-Dichlorobenzene	UG/KG					
106-46-7	1,4-Dichlorobenzene	UG/KG					
95-50-1	1,2-Dichlorobenzene	UG/KG					
95-48-7	2-Methylphenol	UG/KG					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG					
106-44-5	4-Methylphenol	UG/KG					
621-64-7	N-Nitroso-di-n-propylamine	UG/KG					
67-72-1	Hexachloroethane	UG/KG					
98-95-3	Nitrobenzene	UG/KG					
78-59-1	Isophorone	UG/KG					
88-75-5	2-Nitrophenol	UG/KG					
105-67-9	2,4-Dimethylphenol	UG/KG					
120-83-2	2,4-Dichlorophenol	UG/KG					
120-82-1	1,2,4-Trichlorobenzene	UG/KG					
91-20-3	Naphthalene	UG/KG	24000 D	410	790000 DJ	170000 DJ	430 J
106-47-8	4-Chloroaniline	UG/KG					
87-68-3	Hexachlorobutadiene	UG/KG					
111-91-1	bis(2-Chloroethoxy)methane	UG/KG					
59-50-7	4-Chloro-3-Methylphenol	UG/KG					
91-57-6	2-Methylnaphthalene	UG/KG	2200	350 J	480000 DJ	120000 DJ	1400 UJ
77-47-4	Hexachlorocyclopentadiene	UG/KG					
88-06-2	2,4,6-Trichlorophenol	UG/KG					
95-95-4	2,4,5-Trichlorophenol	UG/KG					
91-58-7	2-Chloronaphthalene	UG/KG					
88-74-4	2-Nitroaniline	UG/KG					
131-11-3	Dimethylphthalate	UG/KG					
208-96-8	Acenaphthylene	UG/KG	1800	52 J	150000 DJ	29000 J	1400 UJ
606-20-2	2,6-Dinitrotoluene	UG/KG					
99-09-2	3-Nitroaniline	UG/KG					
83-32-9	Acenaphthene	UG/KG	11000 D	320 J	67000 JD	22000 J	1400 UJ
51-28-5	2,4-Dinitrophenol	UG/KG					
100-02-7	4-Nitrophenol	UG/KG					
132-64-9	Dibenzofuran	UG/KG					
121-14-2	2,4-Dinitrotoluene	UG/KG					
84-66-2	Diethylphthalate	UG/KG					
7005-72-3	4-Chlorophenyl-phenylether	UG/KG					
86-73-7	Fluorene	UG/KG	4400 D	170 J	78000 JD	28000 J	1400 UJ
100-01-6	4-Nitroaniline	UG/KG					
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG					
86-30-6	N-Nitrosodiphenylamine	UG/KG					
101-55-3	4-Bromophenyl-phenylether	UG/KG					
118-74-1	Hexachlorobenzene	UG/KG					
87-86-5	Pentachlorophenol	UG/KG					
85-01-8	Phenanthrene	UG/KG	11000 D	740	170000 DJ	51000 DJ	280 J
120-12-7	Anthracene	UG/KG	4200 D	240 J	67000 JD	17000 J	1400 UJ
86-74-8	Carbazole	UG/KG					
84-74-2	Di-n-butylphthalate	UG/KG					
206-44-0	Fluoranthene	UG/KG	6800 D	610	64000 JD	17000 J	250 J
129-00-0	Pyrene	UG/KG	8800 D	500	72000 JD	20000	190 J
85-68-7	Butylbenzylphthalate	UG/KG					
91-94-1	3,3'-Dichlorobenzidine	UG/KG					
56-55-3	Benzo(a)anthracene	UG/KG	4100 D	240 J	20000	9400	1400 UJ
218-01-9	Chrysene	UG/KG	3600 JD	280 J	19000	8900	1400 UJ
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG					
117-84-0	Di-n-octylphthalate	UG/KG					
205-99-2	Benzo(b)fluoranthene	UG/KG	1800 JD	140 J	8100	3800 J	1400 UJ
207-08-9	Benzo(k)fluoranthene	UG/KG	3000	170 J	8600	2900 J	1400 UJ
50-32-8	Benzo(a)pyrene	UG/KG	4300 D	270 J	14000	6500	1400 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	1200	110 J	4700	2400 J	1400 UJ
53-70-3	Dibenz(a,h)anthracene	UG/KG	140 J	370 U	670 J	4800 U	1400 UJ
191-24-2	Benzo(g,h,i)perylene	UG/KG	940	110 J	4400	2300 J	1400 UJ
100-51-6	Benzyl Alcohol	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	B-29H 12-16' 2440205 NYTEST B-2 SOIL 7/12/95 10/03/95	B-30H 12-15' 2427107 NYTEST SB-1 SOIL 6/27/95 10/03/95	ES-02SD 06-08' 2423606 NYTEST B-1 SOIL 6/22/95 10/03/95	ES-02SF 10-12' 2423607 NYTEST B-1 SOIL 6/22/95 10/03/95	ES-03SE 08-10' 2423605 NYTEST B-1 SOIL 6/22/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG					
319-85-7	beta-BHC	UG/KG					
319-86-8	delta-BHC	UG/KG					
58-89-9	gamma-BHC(Lindane)	UG/KG					
76-44-8	Heptachlor	UG/KG					
309-00-2	Aldrin	UG/KG					
1024-57-3	Heptachlor Epoxide	UG/KG					
959-98-8	Endosulfan I	UG/KG					
60-57-1	Dieldrin	UG/KG					
72-55-9	4,4'-DDE	UG/KG					
72-20-8	Endrin	UG/KG					
33213-65-9	Endosulfan II	UG/KG					
72-54-8	4,4'-DDD	UG/KG					
1031-07-8	Endosulfan Sulfate	UG/KG					
50-29-3	4,4'-DDT	UG/KG					
72-43-5	Methoxychlor	UG/KG					
53494-70-5	Endrin Ketone	UG/KG					
7421-93-4	Endrin Aldehyde	UG/KG					
5103-71-9	alpha-Chlordane	UG/KG					
5103-74-2	gamma-Chlordane	UG/KG					
8001-35-2	Toxaphene	UG/KG					
12674-11-2	Aroclor-1016	UG/KG					
11104-28-2	Aroclor-1221	UG/KG					
11141-16-5	Aroclor-1232	UG/KG					
53469-21-9	Aroclor-1242	UG/KG					
12672-29-6	Aroclor-1248	UG/KG					
11097-69-1	Aroclor-1254	UG/KG					
11096-82-5	Aroclor-1260	UG/KG					
	INORGANICS						
7429-90-5	Aluminum	MG/KG					
7440-36-0	Antimony	MG/KG					
7440-38-2	Arsenic	MG/KG					
7440-39-3	Barium	MG/KG					
7440-41-7	Beryllium	MG/KG					
7440-43-9	Cadmium	MG/KG					
7440-70-2	Calcium	MG/KG					
7440-47-3	Chromium	MG/KG					
7440-48-4	Cobalt	MG/KG					
7440-50-8	Copper	MG/KG					
7439-89-6	Iron	MG/KG					
7439-92-1	Lead	MG/KG					
7439-95-4	Magnesium	MG/KG					
7439-96-5	Manganese	MG/KG					
7439-97-6	Mercury	MG/KG					
7440-02-0	Nickel	MG/KG					
7440-09-7	Potassium	MG/KG					
7782-49-2	Selenium	MG/KG					
7440-22-4	Silver	MG/KG					
7440-23-5	Sodium	MG/KG					
7440-28-0	Thallium	MG/KG					
7440-62-2	Vanadium	MG/KG					
7440-66-6	Zinc	MG/KG					
57-12-5	Cyanide	MG/KG	R	0.56 U	0.82 U	0.72 U	1.06 UJ
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG					
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

		SAMPLE ID:	ES-03SI	ES-4SD	ES-4SH	ES-7E	ES-7G
		DEPTH:	14-18'	04-08'	12-16'	08-10'	12-14'
		LAB ID:	2423703	2425202	2425203	2423608	2423609
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	TAL-1	B-1	B-1	B-1	B-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/22/95	6/23/95	6/23/95	6/22/95	6/22/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
	<u>VOLATILES</u>						
74-87-3	Chloromethane	UG/KG	12 U				
74-83-9	Bromomethane	UG/KG	12 U				
75-01-4	Vinyl Chloride	UG/KG	12 U				
75-00-3	Chloroethane	UG/KG	12 U				
75-09-2	Methylene Chloride	UG/KG	3 J				
67-64-1	Acetone	UG/KG	12 U				
75-15-0	Carbon Disulfide	UG/KG	12 U				
75-35-4	1,1-Dichloroethene	UG/KG	12 U				
75-34-3	1,1-Dichloroethane	UG/KG	12 U				
540-59-0	1,2-Dichloroethene (total)	UG/KG	12 U				
67-66-3	Chloroform	UG/KG	12 U				
107-06-2	1,2-Dichloroethane	UG/KG	12 U				
78-93-3	2-Butanone	UG/KG	12 U				
71-55-6	1,1,1-Trichloroethane	UG/KG	12 U				
56-23-5	Carbon Tetrachloride	UG/KG	12 U				
75-27-4	Bromodichloromethane	UG/KG	12 U				
78-87-5	1,2-Dichloropropane	UG/KG	12 U				
10061-01-5	cis-1,3-Dichloropropene	UG/KG	12 U				
79-01-6	Trichloroethene	UG/KG	12 U				
124-48-1	Dibromochloromethane	UG/KG	12 U				
79-00-5	1,1,2-Trichloroethane	UG/KG	12 U				
71-43-2	Benzene	UG/KG	12 U	12 U	12 U	1600 J	28
10061-02-6	trans-1,3-Dichloropropene	UG/KG	12 U				
75-25-2	Bromoform	UG/KG	12 U				
108-10-1	4-Methyl-2-Pentanone	UG/KG	12 UJ				
591-78-6	2-Hexanone	UG/KG	12 U				
127-18-4	Tetrachloroethene	UG/KG	12 U				
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	12 U				
108-88-3	Toluene	UG/KG	12 U	12 U	12 U	210 J	2 J
108-90-7	Chlorobenzene	UG/KG	12 U				
100-41-4	Ethylbenzene	UG/KG	3 J	12 U	12 U	21000	97 D
100-42-5	Styrene	UG/KG	12 U				
1330-20-7	Xylene (total)	UG/KG	3 J	10 J	2 J	38000	380
108-05-4	Vinyl Acetate	UG/KG	12 UJ				

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

SAMPLE ID:	ES-03SI	ES-4SD	ES-4SH	ES-7E	ES-7G
DEPTH:	14-35'	04-08'	12-16'	08-10'	12-14'
LAB ID:	2423703	2425202	2425203	2423608	2423609
SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
SDG:	TAL-1	B-1	B-1	B-1	B-1
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
SAMPLED:	6/22/95	6/23/95	6/23/95	6/22/95	6/22/95
VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95

CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG	400 UJ				
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	R				
95-57-8	2-Chlorophenol	UG/KG	400 UJ				
541-73-1	1,3-Dichlorobenzene	UG/KG	R				
106-46-7	1,4-Dichlorobenzene	UG/KG	R				
95-50-1	1,2-Dichlorobenzene	UG/KG	R				
95-48-7	2-Methylphenol	UG/KG	400 UJ				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	R				
106-44-5	4-Methylphenol	UG/KG	400 UJ				
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	R				
67-72-1	Hexachloroethane	UG/KG	R				
98-95-3	Nitrobenzene	UG/KG	R				
78-59-1	Isophorone	UG/KG	R				
88-75-5	2-Nitrophenol	UG/KG	400 UJ				
105-67-9	2,4-Dimethylphenol	UG/KG	400 UJ				
120-83-2	2,4-Dichlorophenol	UG/KG	400 UJ				
120-82-1	1,2,4-Trichlorobenzene	UG/KG	R				
91-20-3	Naphthalene	UG/KG	120 J	2300 J	240 J	19000 J	4400
106-47-8	4-Chloroaniline	UG/KG	R				
87-68-3	Hexachlorobutadiene	UG/KG	R				
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	R				
59-50-7	4-Chloro-3-Methylphenol	UG/KG	400 UJ				
91-57-6	2-Methylnaphthalene	UG/KG	R	4000 J	660 J	16000 J	3000
77-47-4	Hexachlorocyclopentadiene	UG/KG	R				
88-06-2	2,4,6-Trichlorophenol	UG/KG	400 UJ				
95-95-4	2,4,5-Trichlorophenol	UG/KG	2000 UJ				
91-58-7	2-Chloronaphthalene	UG/KG	R				
88-74-4	2-Nitroaniline	UG/KG	R				
131-11-3	Dimethylphthalate	UG/KG	R				
208-96-8	Acenaphthylene	UG/KG	130 J	820 U	780 U	4800 J	460 J
606-20-2	2,6-Dinitrotoluene	UG/KG	R				
99-09-2	3-Nitroaniline	UG/KG	R				
83-32-9	Acenaphthene	UG/KG	540 J	590 J	780 U	26000 J	2200
51-28-5	2,4-Dinitrophenol	UG/KG	2000 UJ				
100-02-7	4-Nitrophenol	UG/KG	2000 UJ				
132-64-9	Dibenzofuran	UG/KG	74 J				
121-14-2	2,4-Dinitrotoluene	UG/KG	R				
84-66-2	Diethylphthalate	UG/KG	R				
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	R				
86-73-7	Fluorene	UG/KG	320 J	1200	170 J	21000 J	1800 J
100-01-6	4-Nitroaniline	UG/KG	R				
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	2000 UJ				
86-30-6	N-Nitrosodiphenylamine	UG/KG	R				
101-55-3	4-Bromophenyl-phenylether	UG/KG	R				
118-74-1	Hexachlorobenzene	UG/KG	R				
87-86-5	Pentachlorophenol	UG/KG	2000 UJ				
85-01-8	Phenanthrene	UG/KG	1000 J	1500	220 J	94000 J	5400
120-12-7	Anthracene	UG/KG	310 J	190 J	780 U	31000 J	1600 J
86-74-8	Carbazole	UG/KG	R				
84-74-2	Di-n-butylphthalate	UG/KG	R				
206-44-0	Fluoranthene	UG/KG	360 J	170 J	780 U	92000 J	3500
129-00-0	Pyrene	UG/KG	920 J	170 J	780 U	86000 J	4000
85-68-7	Butylbenzylphthalate	UG/KG	R				
91-94-1	3,3'-Dichlorobenzidine	UG/KG	R				
56-55-3	Benzo(a)anthracene	UG/KG	200 J	820 U	780 U	34000 J	2000 J
218-01-9	Chrysene	UG/KG	250 J	820 U	780 U	35000 J	1700 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	53 J				
117-84-0	Di-n-octylphthalate	UG/KG	R				
205-99-2	Benzo(b)fluoranthene	UG/KG	130 J	820 U	780 U	24000 J	1600 J
207-08-9	Benzo(k)fluoranthene	UG/KG	140 J	820 U	780 U	18000 J	1100 J
50-32-8	Benzo(a)pyrene	UG/KG	210 J	820 U	780 U	30000 J	2100 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	90 J	820 U	780 U	18000 J	1700 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	R	820 U	780 U	20000 UJ	470 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	94 J	820 U	780 U	21000 J	2100 J
100-51-6	Benzyl Alcohol	UG/KG	400 UJ				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-03SI 14-35' 2423703 NYTEST TAL-1 SOIL 6/22/95 10/03/95	ES-4SD 04-08' 2425202 NYTEST B-1 SOIL 6/23/95 10/03/95	ES-4SH 12-16' 2425203 NYTEST B-1 SOIL 6/23/95 10/03/95	ES-7E 08-10' 2423608 NYTEST B-1 SOIL 6/22/95 10/03/95	ES-7G 12-14' 2423609 NYTEST B-1 SOIL 6/22/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG	10 U				
319-85-7	beta-BHC	UG/KG	10 U				
319-86-8	delta-BHC	UG/KG	10 U				
58-89-9	gamma-BHC(Lindane)	UG/KG	10 U				
76-44-8	Heptachlor	UG/KG	10 U				
309-00-2	Aldrin	UG/KG	10 U				
1024-57-3	Heptachlor Epoxide	UG/KG	10 U				
959-98-8	Endosulfan I	UG/KG	10 U				
60-57-1	Dieldrin	UG/KG	19 U				
72-55-9	4,4'-DDE	UG/KG	19 U				
72-20-8	Endrin	UG/KG	19 U				
33213-65-9	Endosulfan II	UG/KG	19 U				
72-54-8	4,4'-DDD	UG/KG	19 U				
1031-07-8	Endosulfan Sulfate	UG/KG	19 U				
50-29-3	4,4'-DDT	UG/KG	19 U				
72-43-5	Methoxychlor	UG/KG	95 U				
53494-70-5	Endrin Ketone	UG/KG	19 U				
7421-93-4	Endrin Aldehyde	UG/KG	19 U				
5103-71-9	alpha-Chlordane	UG/KG	10 U				
5103-74-2	gamma-Chlordane	UG/KG	10 U				
8001-35-2	Toxaphene	UG/KG	190 U				
12674-11-2	Aroclor-1016	UG/KG	95 U				
11104-28-2	Aroclor-1221	UG/KG	95 U				
11141-16-5	Aroclor-1232	UG/KG	95 U				
53469-21-9	Aroclor-1242	UG/KG	95 U				
12672-29-6	Aroclor-1248	UG/KG	95 U				
11097-69-1	Aroclor-1254	UG/KG	95 U				
11096-82-5	Aroclor-1260	UG/KG	95 U				
	INORGANICS						
7429-90-5	Aluminum	MG/KG	3610				
7440-36-0	Antimony	MG/KG	1.6 J				
7440-38-2	Arsenic	MG/KG	4.2				
7440-39-3	Barium	MG/KG	59.6				
7440-41-7	Beryllium	MG/KG	0.2 J				
7440-43-9	Cadmium	MG/KG	0.06 U				
7440-70-2	Calcium	MG/KG	82200				
7440-47-3	Chromium	MG/KG	6				
7440-48-4	Cobalt	MG/KG	4.7 J				
7440-50-8	Copper	MG/KG	16.9 J				
7439-89-6	Iron	MG/KG	9800 J				
7439-92-1	Lead	MG/KG	3.9 J				
7439-95-4	Magnesium	MG/KG	22500				
7439-96-5	Manganese	MG/KG	406 J				
7439-97-6	Mercury	MG/KG	0.12 U				
7440-02-0	Nickel	MG/KG	10.1				
7440-09-7	Potassium	MG/KG	758 J				
7782-49-2	Selenium	MG/KG	1.1 UJ				
7440-22-4	Silver	MG/KG	0.57 J				
7440-23-5	Sodium	MG/KG	184 J				
7440-28-0	Thallium	MG/KG	1.1 U				
7440-62-2	Vanadium	MG/KG	7.7 J				
7440-66-6	Zinc	MG/KG	25.2 J				
57-12-5	Cyanide	MG/KG	0.54 U	1.97	0.58 U	0.81 U	0.64 U
57-12-5A	Amenable Cyanide	MG/KG		1.97			
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG	34300				
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-8D 04-08' 2427002 NYTEST TAL-1 SOIL 6/26/95 10/03/95	ES-10E 06-10' 2431401 NYTEST SB-1 SOIL 6/30/95 10/03/95	ES-110E 06-10' 2431402 NYTEST SB-1 SOIL 6/30/95 10/03/95	ES-11G 12-14' 2430205 NYTEST SB-1 SOIL 6/28/95 10/03/95	ES-12K 20-22' 2430206 NYTEST SB-1 SOIL 6/29/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG	12 U				
74-83-9	Bromomethane	UG/KG	12 U				
75-01-4	Vinyl Chloride	UG/KG	12 U				
75-00-3	Chloroethane	UG/KG	12 U				
75-09-2	Methylene Chloride	UG/KG	12 U				
67-64-1	Acetone	UG/KG	12 UJ				
75-15-0	Carbon Disulfide	UG/KG	12 U				
75-35-4	1,1-Dichloroethene	UG/KG	12 U				
75-34-3	1,1-Dichloroethane	UG/KG	12 U				
540-59-0	1,2-Dichloroethene (total)	UG/KG	12 U				
67-66-3	Chloroform	UG/KG	12 U				
107-06-2	1,2-Dichloroethane	UG/KG	12 U				
78-93-3	2-Butanone	UG/KG	12 UJ				
71-55-6	1,1,1-Trichloroethane	UG/KG	12 U				
56-23-5	Carbon Tetrachloride	UG/KG	12 U				
75-27-4	Bromodichloromethane	UG/KG	12 U				
78-87-5	1,2-Dichloropropane	UG/KG	12 U				
10061-01-5	cis-1,3-Dichloropropene	UG/KG	12 U				
79-01-6	Trichloroethene	UG/KG	12 U				
124-48-1	Dibromochloromethane	UG/KG	12 U				
79-00-5	1,1,2-Trichloroethane	UG/KG	12 U				
71-43-2	Benzene	UG/KG	12 U	14 U	13 U	12 U	11 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG	12 U				
75-25-2	Bromoform	UG/KG	12 U				
108-10-1	4-Methyl-2-Pentanone	UG/KG	12 U				
591-78-6	2-Hexanone	UG/KG	12 U				
127-18-4	Tetrachloroethene	UG/KG	12 U				
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	12 U				
108-88-3	Toluene	UG/KG	12 U	14 U	13 U	12 U	11 U
108-90-7	Chlorobenzene	UG/KG	12 U				
100-41-4	Ethylbenzene	UG/KG	12 U	14 U	13 U	12 U	11 U
100-42-5	Styrene	UG/KG	12 U				
1330-20-7	Xylene (total)	UG/KG	12 U	14 U	13 U	12 U	11 U
108-05-4	Vinyl Acetate	UG/KG	12 U				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID	ES-8D	ES-10E	ES-110E	ES-11G	ES-12K
		DEPTH:	04-08'	06-10'	06-10'	12-14'	20-22'
		LAB ID:	2427002	2431401	2431402	2430205	2430206
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	TAL-1	SB-1	SB-1	SB-1	SB-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/26/95	6/30/95	6/30/95	6/28/95	6/29/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
SEMIVOLATILES							
108-95-2	Phenol	UG/KG	390 U				
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	390 UJ				
95-57-8	2-Chlorophenol	UG/KG	390 U				
541-73-1	1,3-Dichlorobenzene	UG/KG	390 UJ				
106-46-7	1,4-Dichlorobenzene	UG/KG	390 UJ				
95-50-1	1,2-Dichlorobenzene	UG/KG	390 UJ				
95-48-7	2-Methylphenol	UG/KG	390 U				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	390 UJ				
106-44-5	4-Methylphenol	UG/KG	390 U				
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	390 UJ				
67-72-1	Hexachloroethane	UG/KG	390 UJ				
98-95-3	Nitrobenzene	UG/KG	390 UJ				
78-59-1	Isophorone	UG/KG	390 UJ				
88-75-5	2-Nitrophenol	UG/KG	390 U				
105-67-9	2,4-Dimethylphenol	UG/KG	390 U				
120-83-2	2,4-Dichlorophenol	UG/KG	390 U				
120-82-1	1,2,4-Trichlorobenzene	UG/KG	390 UJ				
91-20-3	Naphthalene	UG/KG	1300 J	460 U	430 U	390 UJ	380 UJ
106-47-8	4-Chloroaniline	UG/KG	390 UJ				
87-68-3	Hexachlorobutadiene	UG/KG	390 UJ				
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	390 UJ				
59-50-7	4-Chloro-3-Methylphenol	UG/KG	390 U				
91-57-6	2-Methylnaphthalene	UG/KG	570 J	460 U	430 U	390 UJ	380 UJ
77-47-4	Hexachlorocyclopentadiene	UG/KG	390 UJ				
88-06-2	2,4,6-Trichlorophenol	UG/KG	390 U				
95-95-4	2,4,5-Trichlorophenol	UG/KG	2000 U				
91-58-7	2-Chloronaphthalene	UG/KG	390 UJ				
88-74-4	2-Nitroaniline	UG/KG	2000 UJ				
131-11-3	Dimethylphthalate	UG/KG	390 UJ				
208-96-8	Acenaphthylene	UG/KG	390 UJ	130 J	83 J	390 UJ	380 UJ
606-20-2	2,6-Dinitrotoluene	UG/KG	390 UJ				
99-09-2	3-Nitroaniline	UG/KG	2000 UJ				
83-32-9	Acenaphthene	UG/KG	200 J	460 U	430 U	390 UJ	380 UJ
51-28-5	2,4-Dinitrophenol	UG/KG	2000 U				
100-02-7	4-Nitrophenol	UG/KG	2000 U				
132-64-9	Dibenzofuran	UG/KG	390 UJ				
121-14-2	2,4-Dinitrotoluene	UG/KG	390 UJ				
84-66-2	Diethylphthalate	UG/KG	390 UJ				
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	390 UJ				
86-73-7	Fluorene	UG/KG	62 J	66 J	50 J	390 UJ	380 UJ
100-01-6	4-Nitroaniline	UG/KG	2000 UJ				
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	2000 U				
86-30-6	N-Nitrosodiphenylamine	UG/KG	390 UJ				
101-55-3	4-Bromophenyl-phenylether	UG/KG	390 UJ				
118-74-1	Hexachlorobenzene	UG/KG	390 UJ				
87-86-5	Pentachlorophenol	UG/KG	2000 U				
85-01-8	Phenanthrene	UG/KG	46 J	450 J	300 J	56 J	41 J
120-12-7	Anthracene	UG/KG	390 UJ	460 J	170 J	390 UJ	380 UJ
86-74-8	Carbazole	UG/KG	390 UJ				
84-74-2	Di-n-butylphthalate	UG/KG	390 UJ				
206-44-0	Fluoranthene	UG/KG	390 UJ	600 J	340 J	160 J	51 J
129-00-0	Pyrene	UG/KG	390 UJ	630	350 J	110 J	41 J
85-68-7	Butylbenzylphthalate	UG/KG	390 UJ				
91-94-1	3,3'-Dichlorobenzidine	UG/KG	780 UJ				
56-55-3	Benzo(a)anthracene	UG/KG	390 UJ	260 J	160 J	88 J	380 UJ
218-01-9	Chrysene	UG/KG	390 UJ	350 J	210 J	130 J	380 UJ
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	390 UJ				
117-84-0	Di-n-octylphthalate	UG/KG	390 UJ				
205-99-2	Benzo(b)fluoranthene	UG/KG	390 UJ	170 J	110 J	92 J	380 UJ
207-08-9	Benzo(k)fluoranthene	UG/KG	390 UJ	200 J	140 J	62 J	380 UJ
50-32-8	Benzo(a)pyrene	UG/KG	390 UJ	240 J	160 J	74 J	380 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	390 UJ	140 J	85 J	390 UJ	380 UJ
53-70-3	Dibenz(a,h)anthracene	UG/KG	390 UJ	460 U	430 U	390 UJ	380 UJ
191-24-2	Benzo(g,h,i)perylene	UG/KG	390 UJ	160 J	97 J	390 UJ	380 UJ
100-51-6	Benzyl Alcohol	UG/KG	390 U				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-8D 04-08' 2427002 NYTEST TAL-1 SOIL 6/26/95 10/03/95	ES-10E 06-10' 2431401 NYTEST SB-1 SOIL 6/30/95 10/03/95	ES-110E 06-10' 2431402 NYTEST SB-1 SOIL 6/30/95 10/03/95	ES-11G 12-14' 2430205 NYTEST SB-1 SOIL 6/28/95 10/03/95	ES-12K 20-22' 2430206 NYTEST SB-1 SOIL 6/29/95 10/03/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG	9 U				
319-85-7	beta-BHC	UG/KG	9 U				
319-86-8	delta-BHC	UG/KG	9 U				
58-89-9	gamma-BHC(Lindane)	UG/KG	9 U				
76-44-8	Heptachlor	UG/KG	9 U				
309-00-2	Aldrin	UG/KG	9 U				
1024-57-3	Heptachlor Epoxide	UG/KG	9 U				
959-98-8	Endosulfan I	UG/KG	9 U				
60-57-1	Dieldrin	UG/KG	19 U				
72-55-9	4,4'-DDE	UG/KG	19 U				
72-20-8	Endrin	UG/KG	19 U				
33213-65-9	Endosulfan II	UG/KG	19 U				
72-54-8	4,4'-DDD	UG/KG	19 U				
1031-07-8	Endosulfan Sulfate	UG/KG	19 U				
50-29-3	4,4'-DDT	UG/KG	19 U				
72-43-5	Methoxychlor	UG/KG	94 U				
53494-70-5	Endrin Ketone	UG/KG	19 U				
7421-93-4	Endrin Aldehyde	UG/KG	19 U				
5103-71-9	alpha-Chlordane	UG/KG	9 U				
5103-74-2	gamma-Chlordane	UG/KG	9 U				
8001-35-2	Toxaphene	UG/KG	190 U				
12674-11-2	Aroclor-1016	UG/KG	94 U				
11104-28-2	Aroclor-1221	UG/KG	94 U				
11141-16-5	Aroclor-1232	UG/KG	94 U				
53469-21-9	Aroclor-1242	UG/KG	94 U				
12672-29-6	Aroclor-1248	UG/KG	94 U				
11097-69-1	Aroclor-1254	UG/KG	94 U				
11096-82-5	Aroclor-1260	UG/KG	94 U				
	INORGANICS						
7429-90-5	Aluminum	MG/KG	3340				
7440-36-0	Antimony	MG/KG	9.7 UJ				
7440-38-2	Arsenic	MG/KG	2.6				
7440-39-3	Barium	MG/KG	34.8 J				
7440-41-7	Beryllium	MG/KG	0.2 U				
7440-43-9	Cadmium	MG/KG	1 U				
7440-70-2	Calcium	MG/KG	20000				
7440-47-3	Chromium	MG/KG	2.2				
7440-48-4	Cobalt	MG/KG	2.6 J				
7440-50-8	Copper	MG/KG	14.1 J				
7439-89-6	Iron	MG/KG	5750 J				
7439-92-1	Lead	MG/KG	9.7 J				
7439-95-4	Magnesium	MG/KG	11100				
7439-96-5	Manganese	MG/KG	235 J				
7439-97-6	Mercury	MG/KG	0.12 U				
7440-02-0	Nickel	MG/KG	6.7 U				
7440-09-7	Potassium	MG/KG	374 U				
7782-49-2	Selenium	MG/KG	0.89 UJ				
7440-22-4	Silver	MG/KG	1.4 UJ				
7440-23-5	Sodium	MG/KG	140 U				
7440-28-0	Thallium	MG/KG	0.89 U				
7440-62-2	Vanadium	MG/KG	5.7 J				
7440-66-6	Zinc	MG/KG	15.1 J				
57-12-5	Cyanide	MG/KG	0.57 U	0.7 U	0.64 U	0.58 U	0.56 U
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG	5360				
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: ES-13G DEPTH: 08-14' LAB ID: 2430207 SOURCE: NYTEST SDG: SB-1 MATRIX: SOIL SAMPLED: 6/29/95 VALIDATED: 10/03/95	SB02 03' 2427101 NYTEST SB-1 SOIL 6/26/95 10/03/95	SB04 03.5' 2427102 NYTEST SB-1 SOIL 6/26/95 10/03/95	SB13 04.3' 2427106 NYTEST SB-1 SOIL 6/27/95 10/03/95	SB16 02' 2427105 NYTEST SB-1 SOIL 6/27/95 10/03/95
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
74-87-3	Chloromethane	UG/KG				
74-83-9	Bromomethane	UG/KG				
75-01-4	Vinyl Chloride	UG/KG				
75-00-3	Chloroethane	UG/KG				
75-09-2	Methylene Chloride	UG/KG				
67-64-1	Acetone	UG/KG				
75-15-0	Carbon Disulfide	UG/KG				
75-35-4	1,1-Dichloroethene	UG/KG				
75-34-3	1,1-Dichloroethane	UG/KG				
540-59-0	1,2-Dichloroethene (total)	UG/KG				
67-66-3	Chloroform	UG/KG				
107-06-2	1,2-Dichloroethane	UG/KG				
78-93-3	2-Butanone	UG/KG				
71-55-6	1,1,1-Trichloroethane	UG/KG				
56-23-5	Carbon Tetrachloride	UG/KG				
75-27-4	Bromodichloromethane	UG/KG				
78-87-5	1,2-Dichloropropane	UG/KG				
10061-01-5	cis-1,3-Dichloropropene	UG/KG				
79-01-6	Trichloroethene	UG/KG				
124-48-1	Dibromochloromethane	UG/KG				
79-00-5	1,1,2-Trichloroethane	UG/KG				
71-43-2	Benzene	UG/KG	12 U	14000 J	26	12 U 32
10061-02-6	trans-1,3-Dichloropropene	UG/KG				
75-25-2	Bromoform	UG/KG				
108-10-1	4-Methyl-2-Pentanone	UG/KG				
591-78-6	2-Hexanone	UG/KG				
127-18-4	Tetrachloroethene	UG/KG				
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG				
108-88-3	Toluene	UG/KG	12 U	14000 J	16 J	12 U 14 U
108-90-7	Chlorobenzene	UG/KG				
100-41-4	Ethylbenzene	UG/KG	12 U	110000 DJ	180	12 U 9 J
100-42-5	Styrene	UG/KG				
1330-20-7	Xylene (total)	UG/KG	12 U	140000 DJ	450	12 U 21
108-05-4	Vinyl Acetate	UG/KG				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID:	ES - 13G	SB02	SB04	SB13	SB16
		DEPTH:	08 - 14'	03'	03.5'	04.3'	02'
		LAB ID:	2430207	2427101	2427102	2427106	2427105
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	SB - 1	SB - 1	SB - 1	SB - 1	SB - 1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/29/95	6/26/95	6/26/95	6/27/95	6/27/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
SEMIVOLATILES							
108-95-2	Phenol	UG/KG					
111-44-4	bis(2-Chloroethyl)Ether	UG/KG					
95-57-8	2-Chlorophenol	UG/KG					
541-73-1	1,3-Dichlorobenzene	UG/KG					
106-46-7	1,4-Dichlorobenzene	UG/KG					
95-50-1	1,2-Dichlorobenzene	UG/KG					
95-48-7	2-Methylphenol	UG/KG					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG					
106-44-5	4-Methylphenol	UG/KG					
621-64-7	N-Nitroso-di-n-propylamine	UG/KG					
67-72-1	Hexachloroethane	UG/KG					
98-95-3	Nitrobenzene	UG/KG					
78-59-1	Isophorone	UG/KG					
88-75-5	2-Nitrophenol	UG/KG					
105-67-9	2,4-Dimethylphenol	UG/KG					
120-83-2	2,4-Dichlorophenol	UG/KG					
120-82-1	1,2,4-Trichlorobenzene	UG/KG					
91-20-3	Naphthalene	UG/KG	410 UJ	5800000 DJ	960000 DJ	1600 UJ	57000 D
106-47-8	4-Chloroaniline	UG/KG					
87-68-3	Hexachlorobutadiene	UG/KG					
111-91-1	bis(2-Chloroethoxy)methane	UG/KG					
59-50-7	4-Chloro-3-Methylphenol	UG/KG					
91-57-6	2-Methylnaphthalene	UG/KG	410 UJ	4300000 DJ	1000000 DJ	1600 UJ	2800 J
77-47-4	Hexachlorocyclopentadiene	UG/KG					
88-06-2	2,4,6-Trichlorophenol	UG/KG					
95-95-4	2,4,5-Trichlorophenol	UG/KG					
91-58-7	2-Chloronaphthalene	UG/KG					
88-74-4	2-Nitroaniline	UG/KG					
131-11-3	Dimethylphthalate	UG/KG					
208-96-8	Acenaphthylene	UG/KG	410 UJ	100000 JD	57000 JD	170 J	3300 J
606-20-2	2,6-Dinitrotoluene	UG/KG					
99-09-2	3-Nitroaniline	UG/KG					
83-32-9	Acenaphthene	UG/KG	410 UJ	2700000 DJ	960000 DJ	1600 UJ	6500 J
51-28-5	2,4-Dinitrophenol	UG/KG					
100-02-7	4-Nitrophenol	UG/KG					
132-64-9	Dibenzofuran	UG/KG					
121-14-2	2,4-Dinitrotoluene	UG/KG					
84-66-2	Diethylphthalate	UG/KG					
7005-72-3	4-Chlorophenyl-phenylether	UG/KG					
86-73-7	Fluorene	UG/KG	410 UJ	1200000 DJ	470000 JD	1600 UJ	2700 J
100-01-6	4-Nitroaniline	UG/KG					
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG					
86-30-6	N-Nitrosodiphenylamine	UG/KG					
101-55-3	4-Bromophenyl-phenylether	UG/KG					
118-74-1	Hexachlorobenzene	UG/KG					
87-86-5	Pentachlorophenol	UG/KG					
85-01-8	Phenanthrene	UG/KG	410 UJ	3900000 DJ	1400000 DJ	540 J	7800 J
120-12-7	Anthracene	UG/KG	410 UJ	1300000 DJ	370000 JD	1600 UJ	2400 J
86-74-8	Carbazole	UG/KG					
84-74-2	Di-n-butylphthalate	UG/KG					
206-44-0	Fluoranthene	UG/KG	410 UJ	950000 DJ	450000 JD	950 J	9600 J
129-00-0	Pyrene	UG/KG	410 UJ	1100000 DJ	540000 JD	570 J	6000 J
85-68-7	Butylbenzylphthalate	UG/KG					
91-94-1	3,3'-Dichlorobenzidine	UG/KG					
56-55-3	Benzo(a)anthracene	UG/KG	410 UJ	350000 JD	180000 JD	360 J	5800 J
218-01-9	Chrysene	UG/KG	410 UJ	370000 JD	200000 JD	510 J	6600 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG					
117-84-0	Di-n-octylphthalate	UG/KG					
205-99-2	Benzo(b)fluoranthene	UG/KG	410 UJ	150000 JD	97000 JD	400 J	8000 J
207-08-9	Benzo(k)fluoranthene	UG/KG	410 UJ	200000 JD	120000 JD	400 J	8300 J
50-32-8	Benzo(a)pyrene	UG/KG	410 UJ	310000 JD	190000 JD	460 J	14000 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	410 UJ	120000 JD	74000 JD	230 J	2800 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	410 UJ	5700 J	3600 J	1600 UJ	350 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	410 UJ	140000 JD	87000 JD	230 J	2500 J
100-51-6	Benzyl Alcohol	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES - 13G 08 - 14' 2430207 NYTEST SB - 1 SOIL 6/29/95 10/03/95	SB02 03' 2427101 NYTEST SB - 1 SOIL 6/26/95 10/03/95	SB04 03.5' 2427102 NYTEST SB - 1 SOIL 6/26/95 10/03/95	SB13 04.3' 2427106 NYTEST SB - 1 SOIL 6/27/95 10/03/95	SB16 02' 2427105 NYTEST SB - 1 SOIL 6/27/95 10/03/95
CAS NO	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG					
319-85-7	beta-BHC	UG/KG					
319-86-8	delta-BHC	UG/KG					
58-89-9	gamma-BHC(Lindane)	UG/KG					
76-44-8	Heptachlor	UG/KG					
309-00-2	Aldrin	UG/KG					
1024-57-3	Heptachlor Epoxide	UG/KG					
959-98-8	Endosulfan I	UG/KG					
60-57-1	Dieldrin	UG/KG					
72-55-9	4,4'-DDE	UG/KG					
72-20-8	Endrin	UG/KG					
33213-65-9	Endosulfan II	UG/KG					
72-54-8	4,4'-DDD	UG/KG					
1031-07-8	Endosulfan Sulfate	UG/KG					
50-29-3	4,4'-DDT	UG/KG					
72-43-5	Methoxychlor	UG/KG					
53494-70-5	Endrin Ketone	UG/KG					
7421-93-4	Endrin Aldehyde	UG/KG					
5103-71-9	alpha-Chlordane	UG/KG					
5103-74-2	gamma-Chlordane	UG/KG					
8001-35-2	Toxaphene	UG/KG					
12674-11-2	Aroclor-1016	UG/KG					
11104-28-2	Aroclor-1221	UG/KG					
11141-16-5	Aroclor-1232	UG/KG					
53469-21-9	Aroclor-1242	UG/KG					
12672-29-6	Aroclor-1248	UG/KG					
11097-69-1	Aroclor-1254	UG/KG					
11096-82-5	Aroclor-1260	UG/KG					
	INORGANICS						
7429-90-5	Aluminum	MG/KG					
7440-36-0	Antimony	MG/KG					
7440-38-2	Arsenic	MG/KG					
7440-39-3	Barium	MG/KG					
7440-41-7	Beryllium	MG/KG					
7440-43-9	Cadmium	MG/KG					
7440-70-2	Calcium	MG/KG					
7440-47-3	Chromium	MG/KG					
7440-48-4	Cobalt	MG/KG					
7440-50-8	Copper	MG/KG					
7439-89-6	Iron	MG/KG					
7439-92-1	Lead	MG/KG					
7439-95-4	Magnesium	MG/KG					
7439-96-5	Manganese	MG/KG					
7439-97-6	Mercury	MG/KG					
7440-02-0	Nickel	MG/KG					
7440-09-7	Potassium	MG/KG					
7782-49-2	Selenium	MG/KG					
7440-22-4	Silver	MG/KG					
7440-23-5	Sodium	MG/KG					
7440-28-0	Thallium	MG/KG					
7440-62-2	Vanadium	MG/KG					
7440-66-6	Zinc	MG/KG					
57-12-5	Cyanide	MG/KG	0.61 U	1.06 UJ	0.84 U	0.6 U	0.7 U
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG					
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SOIL BORING APPENDIX
SOIL BORING DATA

		SAMPLE ID:	SB17	SB18	SB20	SB22	SB25
		DEPTH:	02-03.5'	04'	04'	04'	04'
		LAB ID:	2430101	2430202	2430201	2430203	2430204
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	TAL-2	SB-1	SB-1	SB-1	SB-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/28/95	6/28/95	6/28/95	6/28/95	6/29/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
VOLATILES							
74-87-3	Chloromethane	UG/KG	38 UJ				
74-83-9	Bromomethane	UG/KG	38 UJ				
75-01-4	Vinyl Chloride	UG/KG	38 UJ				
75-00-3	Chloroethane	UG/KG	38 UJ				
75-09-2	Methylene Chloride	UG/KG	38 UJ				
67-64-1	Acetone	UG/KG	210 J				
75-15-0	Carbon Disulfide	UG/KG	38 UJ				
75-35-4	1,1-Dichloroethene	UG/KG	38 UJ				
75-34-3	1,1-Dichloroethane	UG/KG	38 UJ				
540-59-0	1,2-Dichloroethene (total)	UG/KG	38 UJ				
67-66-3	Chloroform	UG/KG	38 UJ				
107-06-2	1,2-Dichloroethane	UG/KG	38 UJ				
78-93-3	2-Butanone	UG/KG	38 UJ				
71-55-6	1,1,1-Trichloroethane	UG/KG	38 UJ				
56-23-5	Carbon Tetrachloride	UG/KG	38 UJ				
75-27-4	Bromodichloromethane	UG/KG	38 UJ				
78-87-5	1,2-Dichloropropane	UG/KG	38 UJ				
10061-01-5	cis-1,3-Dichloropropene	UG/KG	38 UJ				
79-01-6	Trichloroethene	UG/KG	38 UJ				
124-48-1	Dibromochloromethane	UG/KG	38 UJ				
79-00-5	1,1,2-Trichloroethane	UG/KG	38 UJ				
71-43-2	Benzene	UG/KG	11 J	14 U	15 U	13 U	12 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG	38 UJ				
75-25-2	Bromoform	UG/KG	38 UJ				
108-10-1	4-Methyl-2-Pentanone	UG/KG	38 UJ				
591-78-6	2-Hexanone	UG/KG	38 UJ				
127-18-4	Tetrachloroethene	UG/KG	40 J				
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	38 UJ				
108-88-3	Toluene	UG/KG	38 UJ	14 U	15 U	13 U	12 U
108-90-7	Chlorobenzene	UG/KG	38 UJ				
100-41-4	Ethylbenzene	UG/KG	180 J	14 U	15 U	13 U	12 U
100-42-5	Styrene	UG/KG	38 UJ				
1330-20-7	Xylene (total)	UG/KG	260 J	14 U	15 U	13 U	12 U
108-05-4	Vinyl Acetate	UG/KG	38 UJ				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SB17 02-03.5' 2430101 NYTEST TAL-2 SOIL 6/28/95 10/03/95	SB18 04' 2430202 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB20 04' 2430201 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB22 04' 2430203 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB25 04' 2430204 NYTEST SB-1 SOIL 6/29/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG	1300 UJ				
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	1300 UJ				
95-57-8	2-Chlorophenol	UG/KG	1300 UJ				
541-73-1	1,3-Dichlorobenzene	UG/KG	1300 UJ				
106-46-7	1,4-Dichlorobenzene	UG/KG	1300 UJ				
95-50-1	1,2-Dichlorobenzene	UG/KG	1300 UJ				
95-48-7	2-Methylphenol	UG/KG	1300 UJ				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	1300 UJ				
106-44-5	4-Methylphenol	UG/KG	1300 UJ				
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	1300 UJ				
67-72-1	Hexachloroethane	UG/KG	1300 UJ				
98-95-3	Nitrobenzene	UG/KG	1300 UJ				
78-59-1	Isophorone	UG/KG	1300 UJ				
88-75-5	2-Nitrophenol	UG/KG	1300 UJ				
105-67-9	2,4-Dimethylphenol	UG/KG	1300 UJ				
120-83-2	2,4-Dichlorophenol	UG/KG	1300 UJ				
120-82-1	1,2,4-Trichlorobenzene	UG/KG	1300 UJ				
91-20-3	Naphthalene	UG/KG	9500 J	300 J	230 J	250 J	390 UJ
106-47-8	4-Chloroaniline	UG/KG	1300 UJ				
87-68-3	Hexachlorobutadiene	UG/KG	1300 UJ				
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	1300 UJ				
59-50-7	4-Chloro-3-Methylphenol	UG/KG	1300 UJ				
91-57-6	2-Methylnaphthalene	UG/KG	1600 J	450 UJ	980 UJ	440 UJ	390 UJ
77-47-4	Hexachlorocyclopentadiene	UG/KG	1300 UJ				
88-06-2	2,4,6-Trichlorophenol	UG/KG	1300 UJ				
95-95-4	2,4,5-Trichlorophenol	UG/KG	6400 UJ				
91-58-7	2-Chloronaphthalene	UG/KG	1300 UJ				
88-74-4	2-Nitroaniline	UG/KG	6400 UJ				
131-11-3	Dimethylphthalate	UG/KG	1300 UJ				
208-96-8	Acenaphthylene	UG/KG	4200 J	860 J	800 J	440 UJ	390 UJ
606-20-2	2,6-Dinitrotoluene	UG/KG	1300 UJ				
99-09-2	3-Nitroaniline	UG/KG	6400 UJ				
83-32-9	Acenaphthene	UG/KG	3800 J	450 UJ	980 UJ	440 UJ	96 J
51-28-5	2,4-Dinitrophenol	UG/KG	6400 UJ				
100-02-7	4-Nitrophenol	UG/KG	6400 UJ				
132-64-9	Dibenzofuran	UG/KG	370 J				
121-14-2	2,4-Dinitrotoluene	UG/KG	1300 UJ				
84-66-2	Diethylphthalate	UG/KG	1300 UJ				
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	1300 UJ				
86-73-7	Fluorene	UG/KG	4400 J	92 J	150 J	440 UJ	390 UJ
100-01-6	4-Nitroaniline	UG/KG	6400 UJ				
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	6400 UJ				
86-30-6	N-Nitrosodiphenylamine	UG/KG	1300 UJ				
101-55-3	4-Bromophenyl-phenylether	UG/KG	1300 UJ				
118-74-1	Hexachlorobenzene	UG/KG	1300 UJ				
87-86-5	Pentachlorophenol	UG/KG	6400 UJ				
85-01-8	Phenanthrene	UG/KG	9300 DJ	450 J	1400 J	66 J	390 UJ
120-12-7	Anthracene	UG/KG	6300 J	300 J	840 J	440 UJ	390 UJ
86-74-8	Carbazole	UG/KG	1300 UJ				
84-74-2	Di-n-butylphthalate	UG/KG	1300 UJ				
206-44-0	Fluoranthene	UG/KG	14000 DJ	1500 J	6100 J	270 J	390 UJ
129-00-0	Pyrene	UG/KG	20000 DJ	940 J	2700 J	140 J	390 UJ
85-68-7	Butylbenzylphthalate	UG/KG	1300 UJ				
91-94-1	3,3'-Dichlorobenzidine	UG/KG	2600 UJ				
56-55-3	Benzo(a)anthracene	UG/KG	9600 DJ	860 J	2000 J	120 J	390 UJ
218-01-9	Chrysene	UG/KG	10000 DJ	1900 J	2700 J	160 J	390 UJ
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	1300 UJ				
117-84-0	Di-n-octylphthalate	UG/KG	1300 UJ				
205-99-2	Benzo(b)fluoranthene	UG/KG	6400 UJ	2900 J	2300 J	170 J	390 UJ
207-08-9	Benzo(k)fluoranthene	UG/KG	5000 J	2600 J	3300 J	170 J	390 UJ
50-32-8	Benzo(a)pyrene	UG/KG	12000 DJ	1000 J	3800 J	180 J	390 UJ
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	7800 J	440 J	700 J	61 J	390 UJ
53-70-3	Dibenz(a,h)anthracene	UG/KG	1000 J	450 UJ	980 UJ	440 UJ	390 UJ
191-24-2	Benzo(g,h,i)perylene	UG/KG	8400 J	360 J	580 J	60 J	390 UJ
100-51-6	Benzyl Alcohol	UG/KG	1300 UJ				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SB17 02-03.5' 2430101 NYTEST TAL-2 SOIL 6/28/95 10/03/95	SB18 04' 2430202 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB20 04' 2430201 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB22 04' 2430203 NYTEST SB-1 SOIL 6/28/95 10/03/95	SB25 04' 2430204 NYTEST SB-1 SOIL 6/29/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG	31 UJ				
319-85-7	beta-BHC	UG/KG	31 UJ				
319-86-8	delta-BHC	UG/KG	31 UJ				
58-89-9	gamma-BHC(Lindane)	UG/KG	31 UJ				
76-44-8	Heptachlor	UG/KG	31 UJ				
309-00-2	Aldrin	UG/KG	31 UJ				
1024-57-3	Heptachlor Epoxide	UG/KG	31 UJ				
959-98-8	Endosulfan I	UG/KG	31 UJ				
60-57-1	Dieldrin	UG/KG	62 UJ				
72-55-9	4,4'-DDE	UG/KG	62 UJ				
72-20-8	Endrin	UG/KG	62 UJ				
33213-65-9	Endosulfan II	UG/KG	62 UJ				
72-54-8	4,4'-DDD	UG/KG	62 UJ				
1031-07-8	Endosulfan Sulfate	UG/KG	62 UJ				
50-29-3	4,4'-DDT	UG/KG	62 UJ				
72-43-5	Methoxychlor	UG/KG	310 UJ				
53494-70-5	Endrin Ketone	UG/KG	62 UJ				
7421-93-4	Endrin Aldehyde	UG/KG	62 UJ				
5103-71-9	alpha-Chlordane	UG/KG	31 UJ				
5103-74-2	gamma-Chlordane	UG/KG	31 UJ				
8001-35-2	Toxaphene	UG/KG	620 UJ				
12674-11-2	Aroclor-1016	UG/KG	310 UJ				
11104-28-2	Aroclor-1221	UG/KG	310 UJ				
11141-16-5	Aroclor-1232	UG/KG	310 UJ				
53469-21-9	Aroclor-1242	UG/KG	310 UJ				
12672-29-6	Aroclor-1248	UG/KG	310 UJ				
11097-69-1	Aroclor-1254	UG/KG	310 UJ				
11096-82-5	Aroclor-1260	UG/KG	310 UJ				
	INORGANICS						
7429-90-5	Aluminum	MG/KG	5430 J				
7440-36-0	Antimony	MG/KG	32.6 UJ				
7440-38-2	Arsenic	MG/KG	14.6 J				
7440-39-3	Barium	MG/KG	87.3 J				
7440-41-7	Beryllium	MG/KG	0.69 UJ				
7440-43-9	Cadmium	MG/KG	3.4 UJ				
7440-70-2	Calcium	MG/KG	85100 J				
7440-47-3	Chromium	MG/KG	36.7 J				
7440-48-4	Cobalt	MG/KG	12.1 J				
7440-50-8	Copper	MG/KG	43 J				
7439-89-6	Iron	MG/KG	42000 J				
7439-92-1	Lead	MG/KG	94.9 J				
7439-95-4	Magnesium	MG/KG	38000 J				
7439-96-5	Manganese	MG/KG	663 J				
7439-97-6	Mercury	MG/KG	0.57 J				
7440-02-0	Nickel	MG/KG	36.9 J				
7440-09-7	Potassium	MG/KG	1260 UJ				
7782-49-2	Selenium	MG/KG	3.4 UJ				
7440-22-4	Silver	MG/KG	4.7 UJ				
7440-23-5	Sodium	MG/KG	818 J				
7440-28-0	Thallium	MG/KG	3.4 UJ				
7440-62-2	Vanadium	MG/KG	17.6 J				
7440-66-6	Zinc	MG/KG	210 J				
57-12-5	Cyanide	MG/KG	1.7 UJ	117	0.74 U	0.67 U	0.59 U
57-12-5A	Amenable Cyanide	MG/KG		12			
	OTHER						
TR-BTU	BTU	BTU/LB					
TR-ASH	Ash	MG/KG					
TR-SULF-T	Total Sulfur	MG/KG					
TR-TOX	Total Organic Halide	MG/KG					
7440-44-0	Total Organic Carbon	MG/KG	104000 J				
8030-30-6	Total Petroleum Hydrocarbons	MG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	DW-01 2417602 NYTEST DW01 WATER 6/16/95 8/28/95	FB-01 2423611 NYTEST B-1 WATER 6/22/95 10/03/95	TB-02 2417601 NYTEST DW01 WATER 6/16/95 8/28/95	TB-02 2423610 NYTEST B-1 WATER 6/22/95 10/03/95
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
74-87-3	Chloromethane	UG/L	10 U		10 U	
74-83-9	Bromomethane	UG/L	10 U		10 U	
75-01-4	Vinyl Chloride	UG/L	10 U		10 U	
75-00-3	Chloroethane	UG/L	10 U		10 U	
75-09-2	Methylene Chloride	UG/L	10 UJ		10 UJ	
67-64-1	Acetone	UG/L	5 JN		10 U	
75-15-0	Carbon Disulfide	UG/L	10 U		10 U	
75-35-4	1,1-Dichloroethene	UG/L	10 U		10 U	
75-34-3	1,1-Dichloroethane	UG/L	10 U		10 U	
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U		10 U	
67-66-3	Chloroform	UG/L	42		10 U	
107-06-2	1,2-Dichloroethane	UG/L	10 U		10 U	
78-93-3	2-Butanone	UG/L	10 U		10 U	
71-55-6	1,1,1-Trichloroethane	UG/L	10 U		10 U	
56-23-5	Carbon Tetrachloride	UG/L	10 U		10 U	
75-27-4	Bromodichloromethane	UG/L	2 J		10 U	
78-87-5	1,2-Dichloropropane	UG/L	10 U		10 U	
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U		10 U	
79-01-6	Trichloroethene	UG/L	10 U		10 U	
124-48-1	Dibromochloromethane	UG/L	10 U		10 U	
79-00-5	1,1,2-Trichloroethane	UG/L	10 U		10 U	
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U		10 U	
75-25-2	Bromoform	UG/L	10 U		10 U	
108-10-1	4-Methyl-2-Pentanone	UG/L	10 U		10 U	
591-78-6	2-Hexanone	UG/L	10 U		10 U	
127-18-4	Tetrachloroethene	UG/L	10 U		10 U	
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U		10 U	
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L	10 U		10 U	
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L	10 U		10 U	
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID:	DW-01	FB-01	TB-02	TB-02
		DEPTH:				
		LAB ID:	2417602	2423611	2417601	2423610
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	DW01	B-1	DW01	B-1
		MATRIX:	WATER	WATER	WATER	WATER
		SAMPLED:	6/16/95	6/22/95	6/16/95	6/22/95
		VALIDATED:	8/28/95	10/03/95	8/28/95	10/03/95
CAS NO	COMPOUND	UNITS:				
	SEMIVOLATILES					
108-95-2	Phenol	UG/L	10 UJ			
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 U			
95-57-8	2-Chlorophenol	UG/L	10 U			
541-73-1	1,3-Dichlorobenzene	UG/L	10 U			
106-46-7	1,4-Dichlorobenzene	UG/L	10 U			
95-50-1	1,2-Dichlorobenzene	UG/L	10 U			
95-48-7	2-Methylphenol	UG/L	10 U			
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 U			
106-44-5	4-Methylphenol	UG/L	10 U			
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U			
67-72-1	Hexachloroethane	UG/L	10 U			
98-95-3	Nitrobenzene	UG/L	10 U			
78-59-1	Isophorone	UG/L	10 U			
88-75-5	2-Nitrophenol	UG/L	10 U			
105-67-9	2,4-Dimethylphenol	UG/L	10 U			
120-83-2	2,4-Dichlorophenol	UG/L	10 U			
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U			
91-20-3	Naphthalene	UG/L	10 U	10 U		
106-47-8	4-Chloroaniline	UG/L	R			
87-68-3	Hexachlorobutadiene	UG/L	10 U			
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U			
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U			
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U		
77-47-4	Hexachlorocyclopentadiene	UG/L	10 UJ			
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U			
95-95-4	2,4,5-Trichlorophenol	UG/L	25 U			
91-58-7	2-Chloronaphthalene	UG/L	10 U			
88-74-4	2-Nitroaniline	UG/L	25 U			
131-11-3	Dimethylphthalate	UG/L	10 U			
208-96-8	Acenaphthylene	UG/L	10 U	10 U		
606-20-2	2,6-Dinitrotoluene	UG/L	10 U			
99-09-2	3-Nitroaniline	UG/L	25 UJ			
83-32-9	Acenaphthene	UG/L	10 U	10 U		
51-28-5	2,4-Dinitrophenol	UG/L	25 U			
100-02-7	4-Nitrophenol	UG/L	25 UJ			
132-64-9	Dibenzofuran	UG/L	10 U			
121-14-2	2,4-Dinitrotoluene	UG/L	10 U			
84-66-2	Diethylphthalate	UG/L	10 U			
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U			
86-73-7	Fluorene	UG/L	10 U	10 U		
100-01-6	4-Nitroaniline	UG/L	25 U			
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	25 U			
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U			
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U			
118-74-1	Hexachlorobenzene	UG/L	10 U			
87-86-5	Pentachlorophenol	UG/L	25 U			
85-01-8	Phenanthrene	UG/L	10 U	10 U		
120-12-7	Anthracene	UG/L	10 U	10 U		
86-74-8	Carbazole	UG/L	10 U			
84-74-2	Di-n-butylphthalate	UG/L	10 U			
206-44-0	Fluoranthene	UG/L	10 U	10 U		
129-00-0	Pyrene	UG/L	10 U	10 U		
85-68-7	Butylbenzylphthalate	UG/L	10 U			
91-94-1	3,3'-Dichlorobenzidine	UG/L	10 UJ			
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U		
218-01-9	Chrysene	UG/L	10 U	10 U		
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	1 J			
117-84-0	Di-n-octylphthalate	UG/L	10 U			
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U		
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U		
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U		
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 UJ	10 U		
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U		
191-24-2	Benzo(g,h,i)perylene	UG/L	10 UJ	10 U		
100-51-6	Benzyl Alcohol	UG/L				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SOIL BORING APPENDIX SOIL BORING DATA		SAMPLE ID:	DW-01	FB-01	TB-02	TB-02
		DEPTH:				
		LAB ID:	2417602	2423611	2417601	2423610
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	DW01	B-1	DW01	B-1
		MATRIX:	WATER	WATER	WATER	WATER
		SAMPLED:	6/16/95	6/16/95	6/16/95	6/22/95
		VALIDATED:	8/28/95	10/03/95	8/28/95	10/03/95
CAS NO.	COMPOUND	UNITS:				
PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U			
319-85-7	beta-BHC	UG/L	0.05 U			
319-86-8	delta-BHC	UG/L	0.05 U			
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U			
76-44-8	Heptachlor	UG/L	0.05 U			
309-00-2	Aldrin	UG/L	0.05 U			
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U			
959-98-8	Endosulfan I	UG/L	0.05 U			
60-57-1	Dieldrin	UG/L	0.1 U			
72-55-9	4,4'-DDE	UG/L	0.1 U			
72-20-8	Endrin	UG/L	0.1 U			
33213-65-9	Endosulfan II	UG/L	0.1 U			
72-54-8	4,4'-DDD	UG/L	0.1 U			
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U			
50-29-3	4,4'-DDT	UG/L	0.1 U			
72-43-5	Methoxychlor	UG/L	0.5 U			
53494-70-5	Endrin Ketone	UG/L	0.1 U			
7421-93-4	Endrin Aldehyde	UG/L	0.1 U			
5103-71-9	alpha-Chlordane	UG/L	0.05 U			
5103-74-2	gamma-Chlordane	UG/L	0.05 U			
8001-35-2	Toxaphene	UG/L	5 U			
12674-11-2	Aroclor-1016	UG/L	1 U			
11104-28-2	Aroclor-1221	UG/L	2 U			
11141-16-5	Aroclor-1232	UG/L	1 U			
53469-21-9	Aroclor-1242	UG/L	1 U			
12672-29-6	Aroclor-1248	UG/L	1 U			
11097-69-1	Aroclor-1254	UG/L	1 U			
11096-82-5	Aroclor-1260	UG/L	1 U			
INORGANICS						
7429-90-5	Aluminum	MG/L	217			
7440-36-0	Antimony	MG/L	3.6 U			
7440-38-2	Arsenic	MG/L	1.6 U			
7440-39-3	Barium	MG/L	17.2 J			
7440-41-7	Beryllium	MG/L	0.2 U			
7440-43-9	Cadmium	MG/L	2 J			
7440-70-2	Calcium	MG/L	8650			
7440-47-3	Chromium	MG/L	8.1 U			
7440-48-4	Cobalt	MG/L	2.1 U			
7440-50-8	Copper	MG/L	370 J			
7439-89-6	Iron	MG/L	357 J			
7439-92-1	Lead	MG/L	100 J			
7439-95-4	Magnesium	MG/L	2650 J			
7439-96-5	Manganese	MG/L	63.9 J			
7439-97-6	Mercury	MG/L	0.2 U			
7440-02-0	Nickel	MG/L	3.8 U			
7440-09-7	Potassium	MG/L	1080 J			
7782-49-2	Selenium	MG/L	2.1 U			
7440-22-4	Silver	MG/L	0.6 UJ			
7440-23-5	Sodium	MG/L	8030			
7440-28-0	Thallium	MG/L	3.4 U			
7440-62-2	Vanadium	MG/L	1.2 U			
7440-66-6	Zinc	MG/L	485 J			
57-12-5	Cyanide	MG/L	10 U	0.01 U		
57-12-5A	Amenable Cyanide	MG/L				
OTHER						
TR-BTU	BTU	BTU/LB				
TR-ASH	Ash	MG/L				
TR-SULF-T	Total Sulfur	MG/L				
TR-TOX	Total Organic Halide	MG/L				
7440-44-0	Total Organic Carbon	MG/L				
8030-30-6	Total Petroleum Hydrocarbons	MG/L				

NMPC ONEIDA
SURFACE SOIL SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION		SAMPLE ID:	SS-07	SS107	SS-08	SS-09	SS-10
ONEIDA MGP SITE, ONEIDA, NEW YORK		DEPTH:	0-6 IN	0-6 IN	0-6 IN	0-6 IN	0-6 IN
DETECTED SURFACE SOIL APPENDIX		LAB ID:	2420705	2420706	2420704	2420701	2416402
SURFACE SOIL DATA		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	SS-1	SS-1	SS-1	SS-1	SS-1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
		SAMPLED:	6/20/95	6/20/95	6/20/95	6/19/95	6/14/95
		VALIDATED:	8/28/95	8/28/95	8/28/95	8/28/95	8/28/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG					
74-83-9	Bromomethane	UG/KG					
75-01-4	Vinyl Chloride	UG/KG					
75-00-3	Chloroethane	UG/KG					
75-09-2	Methylene Chloride	UG/KG					
67-64-1	Acetone	UG/KG					
75-15-0	Carbon Disulfide	UG/KG					
75-35-4	1,1-Dichloroethene	UG/KG					
75-34-3	1,1-Dichloroethane	UG/KG					
540-59-0	1,2-Dichloroethene (total)	UG/KG					
67-66-3	Chloroform	UG/KG					
107-06-2	1,2-Dichloroethane	UG/KG					
78-93-3	2-Butanone	UG/KG					
71-55-6	1,1,1-Trichloroethane	UG/KG					
56-23-5	Carbon Tetrachloride	UG/KG					
75-27-4	Bromodichloromethane	UG/KG					
78-87-5	1,2-Dichloropropane	UG/KG					
10061-01-5	cis-1,3-Dichloropropene	UG/KG					
79-01-6	Trichloroethene	UG/KG					
124-48-1	Dibromochloromethane	UG/KG					
79-00-5	1,1,2-Trichloroethane	UG/KG					
71-43-2	Benzene	UG/KG	11 U	11 U	11 U	11 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG					
75-25-2	Bromoform	UG/KG					
108-10-1	4-Methyl-2-Pentanone	UG/KG					
591-78-6	2-Hexanone	UG/KG					
127-18-4	Tetrachloroethene	UG/KG					
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG					
108-88-3	Toluene	UG/KG	11 U	11 U	11 U	11 U	10 U
108-90-7	Chlorobenzene	UG/KG					
100-41-4	Ethylbenzene	UG/KG	11 U	11 U	11 U	11 U	10 U
100-42-5	Styrene	UG/KG					
1330-20-7	Xylene (total)	UG/KG	11 U	11 U	11 U	11 U	10 U
108-05-4	Vinyl Acetate	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-07 0-6 IN 2420705 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS107 0-6 IN 2420706 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-08 0-6 IN 2420704 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-09 0-6 IN 2420701 NYTEST SS-1 SOIL 6/19/95 8/28/95	SS-10 0-6 IN 2416402 NYTEST SS-1 SOIL 6/14/95 8/28/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG					
111-44-4	bis(2-Chloroethyl)Ether	UG/KG					
95-57-8	2-Chlorophenol	UG/KG					
541-73-1	1,3-Dichlorobenzene	UG/KG					
106-46-7	1,4-Dichlorobenzene	UG/KG					
95-50-1	1,2-Dichlorobenzene	UG/KG					
95-48-7	2-Methylphenol	UG/KG					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG					
106-44-5	4-Methylphenol	UG/KG					
621-64-7	N-Nitroso-di-n-propylamine	UG/KG					
67-72-1	Hexachloroethane	UG/KG					
98-95-3	Nitrobenzene	UG/KG					
78-59-1	Isophorone	UG/KG					
88-75-5	2-Nitrophenol	UG/KG					
105-67-9	2,4-Dimethylphenol	UG/KG					
120-83-2	2,4-Dichlorophenol	UG/KG					
120-82-1	1,2,4-Trichlorobenzene	UG/KG					
91-20-3	Naphthalene	UG/KG	360 UJ	370 UJ	350 UJ	360 UJ	700 U
106-47-8	4-Chloroaniline	UG/KG					
87-68-3	Hexachlorobutadiene	UG/KG					
111-91-1	bis(2-Chloroethoxy)methane	UG/KG					
59-50-7	4-Chloro-3-Methylphenol	UG/KG					
91-57-6	2-Methylnaphthalene	UG/KG	40 J	370 UJ	350 UJ	360 UJ	700 U
77-47-4	Hexachlorocyclopentadiene	UG/KG					
88-06-2	2,4,6-Trichlorophenol	UG/KG					
95-95-4	2,4,5-Trichlorophenol	UG/KG					
91-58-7	2-Chloronaphthalene	UG/KG					
88-74-4	2-Nitroaniline	UG/KG					
131-11-3	Dimethylphthalate	UG/KG					
208-96-8	Acenaphthylene	UG/KG	130 J	120 J	68 J	120 J	83 J
606-20-2	2,6-Dinitrotoluene	UG/KG					
99-09-2	3-Nitroaniline	UG/KG					
83-32-9	Acenaphthene	UG/KG	360 UJ	370 UJ	350 UJ	71 J	700 U
51-28-5	2,4-Dinitrophenol	UG/KG					
100-02-7	4-Nitrophenol	UG/KG					
132-64-9	Dibenzofuran	UG/KG					
121-14-2	2,4-Dinitrotoluene	UG/KG					
84-66-2	Diethylphthalate	UG/KG					
7005-72-3	4-Chlorophenyl-phenylether	UG/KG					
86-73-7	Fluorene	UG/KG	360 UJ	370 UJ	350 UJ	79 J	700 U
100-01-6	4-Nitroaniline	UG/KG					
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG					
86-30-6	N-Nitrosodiphenylamine	UG/KG					
101-55-3	4-Bromophenyl-phenylether	UG/KG					
118-74-1	Hexachlorobenzene	UG/KG					
87-86-5	Pentachlorophenol	UG/KG					
85-01-8	Phenanthrene	UG/KG	300 J	200 J	180 J	440 J	320 J
120-12-7	Anthracene	UG/KG	94 J	100 J	56 J	170 J	77 J
86-74-8	Carbazole	UG/KG					
84-74-2	Di-n-butylphthalate	UG/KG					
206-44-0	Fluoranthene	UG/KG	560 J	460 J	420 J	710 J	630 J
129-00-0	Pyrene	UG/KG	620 J	480 J	450 J	720 J	570 J
85-68-7	Butylbenzylphthalate	UG/KG					
91-94-1	3,3'-Dichlorobenzidine	UG/KG					
56-55-3	Benzo(a)anthracene	UG/KG	290 J	290 J	230 J	450 J	360 J
218-01-9	Chrysene	UG/KG	340 J	370 J	280 J	390 J	410 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG					
117-84-0	Di-n-octylphthalate	UG/KG					
205-99-2	Benzo(b)fluoranthene	UG/KG	410 J	250 J	290 J	370 J	320 J
207-08-9	Benzo(k)fluoranthene	UG/KG	330 J	240 J	260 J	370 J	300 J
50-32-8	Benzo(a)pyrene	UG/KG	270 J	250 J	210 J	360 J	350 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	230 J	240 J	120 J	150 J	200 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	360 UJ	370 UJ	46 J	360 UJ	700 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	240 J	260 J	120 J	150 J	200 J
100-51-6	Benzyl Alcohol	UG/KG					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-07 0-6 IN 2420705 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS107 0-6 IN 2420706 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-08 0-6 IN 2420704 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-09 0-6 IN 2420701 NYTEST SS-1 SOIL 6/19/95 8/28/95	SS-10 0-6 IN 2416402 NYTEST SS-1 SOIL 6/14/95 8/28/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG					
319-85-7	beta-BHC	UG/KG					
319-86-8	delta-BHC	UG/KG					
58-89-9	gamma-BHC (Lindane)	UG/KG					
76-44-8	Heptachlor	UG/KG					
309-00-2	Aldrin	UG/KG					
1024-57-3	Heptachlor Epoxide	UG/KG					
959-98-8	Endosulfan I	UG/KG					
60-57-1	Dieldrin	UG/KG					
72-55-9	4,4'-DDE	UG/KG					
72-20-8	Endrin	UG/KG					
33213-65-9	Endosulfan II	UG/KG					
72-54-8	4,4'-DDD	UG/KG					
1031-07-8	Endosulfan Sulfate	UG/KG					
50-29-3	4,4'-DDT	UG/KG					
72-43-5	Methoxychlor	UG/KG					
53494-70-5	Endrin Ketone	UG/KG					
7421-93-4	Endrin Aldehyde	UG/KG					
5103-71-9	alpha-Chlordane	UG/KG					
5103-74-2	gamma-Chlordane	UG/KG					
8001-35-2	Toxaphene	UG/KG					
12674-11-2	Aroclor-1016	UG/KG					
11104-28-2	Aroclor-1221	UG/KG					
11141-16-5	Aroclor-1232	UG/KG					
53469-21-9	Aroclor-1242	UG/KG					
12672-29-6	Aroclor-1248	UG/KG					
11097-69-1	Aroclor-1254	UG/KG					
11096-82-5	Aroclor-1260	UG/KG					
	INORGANICS						
7429-90-5	Aluminum	MG/KG					
7440-36-0	Antimony	MG/KG					
7440-38-2	Arsenic	MG/KG					
7440-39-3	Barium	MG/KG					
7440-41-7	Beryllium	MG/KG					
7440-43-9	Cadmium	MG/KG					
7440-70-2	Calcium	MG/KG					
7440-47-3	Chromium	MG/KG					
7440-48-4	Cobalt	MG/KG					
7440-50-8	Copper	MG/KG					
7439-89-6	Iron	MG/KG					
7439-92-1	Lead	MG/KG					
7439-95-4	Magnesium	MG/KG					
7439-96-5	Manganese	MG/KG					
7439-97-6	Mercury	MG/KG					
7440-02-0	Nickel	MG/KG					
7440-09-7	Potassium	MG/KG					
7782-49-2	Selenium	MG/KG					
7440-22-4	Silver	MG/KG					
7440-23-5	Sodium	MG/KG					
7440-28-0	Thallium	MG/KG					
7440-62-2	Vanadium	MG/KG					
7440-66-6	Zinc	MG/KG					
57-12-5	Cyanide	MG/KG	0.54 U	0.56 U	0.53 U	0.54 U	0.53 U
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	87700	60650			124000

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED SURFACE SOIL APPENDIX
SURFACE SOIL DATA

		SAMPLE ID:	SS-11	SS-12	SS-13	SS-14	SS-15
		DEPTH:	0-6 IN	0-6 IN	0-6 IN	0-6 IN	
		LAB ID:	2420702	2416405	2420703	2416401	2458301
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	SS-1	SS-1	SS-1	SS-1	ONEI1
		MATRIX:	SOIL	SOIL	SOIL	SOIL	
		SAMPLED:	6/20/95	6/14/95	6/20/95	6/14/95	7/28/95
		VALIDATED:	8/28/95	8/28/95	8/28/95	8/28/95	10/11/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/KG					11 U
74-83-9	Bromomethane	UG/KG					11 U
75-01-4	Vinyl Chloride	UG/KG					11 U
75-00-3	Chloroethane	UG/KG					11 U
75-09-2	Methylene Chloride	UG/KG					11 U
67-64-1	Acetone	UG/KG					11 UJ
75-15-0	Carbon Disulfide	UG/KG					11 U
75-35-4	1,1-Dichloroethene	UG/KG					11 U
75-34-3	1,1-Dichloroethane	UG/KG					11 U
540-59-0	1,2-Dichloroethene (total)	UG/KG					11 U
67-66-3	Chloroform	UG/KG					11 U
107-06-2	1,2-Dichloroethane	UG/KG					11 U
78-93-3	2-Butanone	UG/KG					11 UJ
71-55-6	1,1,1-Trichloroethane	UG/KG					11 U
56-23-5	Carbon Tetrachloride	UG/KG					11 U
75-27-4	Bromodichloromethane	UG/KG					11 U
78-87-5	1,2-Dichloropropane	UG/KG					11 U
10061-01-5	cis-1,3-Dichloropropene	UG/KG					11 U
79-01-6	Trichloroethene	UG/KG					11 U
124-48-1	Dibromochloromethane	UG/KG					11 U
79-00-5	1,1,2-Trichloroethane	UG/KG					11 U
71-43-2	Benzene	UG/KG	10 U	10 U	10 U	11 U	11 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG					11 U
75-25-2	Bromoform	UG/KG					11 U
108-10-1	4-Methyl-2-Pentanone	UG/KG					11 U
591-78-6	2-Hexanone	UG/KG					11 U
127-18-4	Tetrachloroethene	UG/KG					11 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG					11 U
108-88-3	Toluene	UG/KG	3 J	10 U	10 U	11 U	11 U
108-90-7	Chlorobenzene	UG/KG					11 U
100-41-4	Ethylbenzene	UG/KG	10 U	10 U	10 U	11 U	11 U
100-42-5	Styrene	UG/KG					11 U
1330-20-7	Xylene (total)	UG/KG	10 U	10 U	10 U	11 U	11 U
108-05-4	Vinyl Acetate	UG/KG					11 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-11 0-6 IN 2420702 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-12 0-6 IN 2416405 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-13 0-6 IN 2420703 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-14 0-6 IN 2416401 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-15 2458301 NYTEST ONE11 7/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG					750 U
111-44-4	bis(2-Chloroethyl)Ether	UG/KG					750 U
95-57-8	2-Chlorophenol	UG/KG					750 U
541-73-1	1,3-Dichlorobenzene	UG/KG					750 U
106-46-7	1,4-Dichlorobenzene	UG/KG					750 U
95-50-1	1,2-Dichlorobenzene	UG/KG					750 U
95-48-7	2-Methylphenol	UG/KG					750 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG					750 U
106-44-5	4-Methylphenol	UG/KG					750 U
621-64-7	N-Nitroso-di-n-propylamine	UG/KG					750 U
67-72-1	Hexachloroethane	UG/KG					750 U
98-95-3	Nitrobenzene	UG/KG					750 U
78-59-1	Isophorone	UG/KG					750 U
88-75-5	2-Nitrophenol	UG/KG					750 U
105-67-9	2,4-Dimethylphenol	UG/KG					750 U
120-83-2	2,4-Dichlorophenol	UG/KG					750 U
120-82-1	1,2,4-Trichlorobenzene	UG/KG					750 U
91-20-3	Naphthalene	UG/KG	340 UJ	350 U	350 UJ	84 J	750 U
106-47-8	4-Chloroaniline	UG/KG					R
87-68-3	Hexachlorobutadiene	UG/KG					750 U
111-91-1	bis(2-Chloroethoxy)methane	UG/KG					750 U
59-50-7	4-Chloro-3-Methylphenol	UG/KG					750 U
91-57-6	2-Methylnaphthalene	UG/KG	340 UJ	350 U	36 J	750 U	750 U
77-47-4	Hexachlorocyclopentadiene	UG/KG					750 U
88-06-2	2,4,6-Trichlorophenol	UG/KG					750 U
95-95-4	2,4,5-Trichlorophenol	UG/KG					3700 U
91-58-7	2-Chloronaphthalene	UG/KG					750 U
88-74-4	2-Nitroaniline	UG/KG					3700 U
131-11-3	Dimethylphthalate	UG/KG					750 U
208-96-8	Acenaphthylene	UG/KG	340 UJ	350 U	170 J	820	370 J
606-20-2	2,6-Dinitrotoluene	UG/KG					750 U
99-09-2	3-Nitroaniline	UG/KG					3700 UJ
83-32-9	Acenaphthene	UG/KG	340 UJ	350 U	48 J	750 U	750 U
51-28-5	2,4-Dinitrophenol	UG/KG					3700 U
100-02-7	4-Nitrophenol	UG/KG					3700 UJ
132-64-9	Dibenzofuran	UG/KG					750 U
121-14-2	2,4-Dinitrotoluene	UG/KG					750 U
84-66-2	Diethylphthalate	UG/KG					750 U
7005-72-3	4-Chlorophenyl-phenylether	UG/KG					750 U
86-73-7	Fluorene	UG/KG	340 UJ	350 U	82 J	88 J	750 U
100-01-6	4-Nitroaniline	UG/KG					3700 UJ
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG					3700 U
86-30-6	N-Nitrosodiphenylamine	UG/KG					750 U
101-55-3	4-Bromophenyl-phenylether	UG/KG					750 U
118-74-1	Hexachlorobenzene	UG/KG					750 U
87-86-5	Pentachlorophenol	UG/KG					3700 U
85-01-8	Phenanthrene	UG/KG	140 J	160 J	740 J	530 J	580 J
120-12-7	Anthracene	UG/KG	340 UJ	350 U	190 J	300 J	180 J
86-74-8	Carbazole	UG/KG					88 J
84-74-2	Di-n-butylphthalate	UG/KG					750 U
206-44-0	Fluoranthene	UG/KG	230 J	260 J	1200 J	1900	1600
129-00-0	Pyrene	UG/KG	210 J	200 J	1300 J	2200	1100
85-68-7	Butylbenzylphthalate	UG/KG					750 U
91-94-1	3,3'-Dichlorobenzidine	UG/KG					1500 UJ
56-55-3	Benzo(a)anthracene	UG/KG	150 J	130 J	720 J	1700	680 J
218-01-9	Chrysene	UG/KG	140 J	140 J	720 J	1800	920
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG					150 J
117-84-0	Di-n-octylphthalate	UG/KG					750 U
205-99-2	Benzo(b)fluoranthene	UG/KG	120 J	91 J	800 J	1400	780 N
207-08-9	Benzo(k)fluoranthene	UG/KG	140 J	96 J	580 J	1900	780 N
50-32-8	Benzo(a)pyrene	UG/KG	110 J	120 J	640 J	2100	930
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	63 J	58 J	340 J	1200	350 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	340 UJ	350 U	39 J	110 J	750 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	62 J	56 J	350 J	1200 J	330 J
100-51-6	Benzyl Alcohol	UG/KG					R

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-11 0-6 IN 2420702 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-12 0-6 IN 2416405 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-13 0-6 IN 2420703 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-14 0-6 IN 2416401 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-15 2458301 NYTEST ONE11 7/28/95 10/11/95
CAS NO	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG					18 U
319-85-7	beta-BHC	UG/KG					18 U
319-86-8	delta-BHC	UG/KG					18 U
58-89-9	gamma-BHC (Lindane)	UG/KG					18 U
76-44-8	Heptachlor	UG/KG					18 U
309-00-2	Aldrin	UG/KG					18 U
1024-57-3	Heptachlor Epoxide	UG/KG					18 U
959-98-8	Endosulfan I	UG/KG					18 U
60-57-1	Dieldrin	UG/KG					36 U
72-55-9	4,4'-DDE	UG/KG					36 U
72-20-8	Endrin	UG/KG					36 U
33213-65-9	Endosulfan II	UG/KG					36 U
72-54-8	4,4'-DDD	UG/KG					36 U
1031-07-8	Endosulfan Sulfate	UG/KG					36 U
50-29-3	4,4'-DDT	UG/KG					36 U
72-43-5	Methoxychlor	UG/KG					180 U
53494-70-5	Endrin Ketone	UG/KG					36 U
7421-93-4	Endrin Aldehyde	UG/KG					36 U
5103-71-9	alpha-Chlordane	UG/KG					18 U
5103-74-2	gamma-Chlordane	UG/KG					18 U
8001-35-2	Toxaphene	UG/KG					360 U
12674-11-2	Aroclor-1016	UG/KG					180 U
11104-28-2	Aroclor-1221	UG/KG					180 U
11141-16-5	Aroclor-1232	UG/KG					180 U
53469-21-9	Aroclor-1242	UG/KG					180 U
12672-29-6	Aroclor-1248	UG/KG					180 U
11097-69-1	Aroclor-1254	UG/KG					180 U
11098-82-5	Aroclor-1260	UG/KG					180 U
	INORGANICS						
7429-90-5	Aluminum	MG/KG					3570
7440-36-0	Antimony	MG/KG					7.3 UJ
7440-38-2	Arsenic	MG/KG					3.3
7440-39-3	Barium	MG/KG					38.9 J
7440-41-7	Beryllium	MG/KG					0.17 J
7440-43-9	Cadmium	MG/KG					0.26 J
7440-70-2	Calcium	MG/KG					38800
7440-47-3	Chromium	MG/KG					6.5
7440-48-4	Cobalt	MG/KG					4.4 J
7440-50-8	Copper	MG/KG					22.7
7439-89-6	Iron	MG/KG					8810
7439-92-1	Lead	MG/KG					61.1
7439-95-4	Magnesium	MG/KG					4330
7439-96-5	Manganese	MG/KG					610
7439-97-6	Mercury	MG/KG					0.28
7440-02-0	Nickel	MG/KG					7 J
7440-09-7	Potassium	MG/KG					482 U
7782-49-2	Selenium	MG/KG					1 UJ
7440-22-4	Silver	MG/KG					1.1 UJ
7440-23-5	Sodium	MG/KG					590 U
7440-28-0	Thallium	MG/KG					1 UJ
7440-62-2	Vanadium	MG/KG					8.1 J
7440-66-6	Zinc	MG/KG					56.2 J
57-12-5	Cyanide	MG/KG	0.51 U	0.53 U	0.52 U	0.56 U	0.83 J
57-12-5A	Amenable Cyanide	MG/KG					0.83 J
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	27900		68000		28800

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: SS-115 DEPTH: 0-6 IN LAB ID: 2458304 SOURCE: NYTEST SDG: ONE1 MATRIX: SOIL SAMPLED: 7/28/95 VALIDATED: 10/11/95	SS-16 0-6 IN 2416406 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-17 0-6 IN 2420709 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-18 0-6 IN 2420708 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-19 0-6 IN 2420707 NYTEST SS-1 SOIL 6/20/95 8/28/95
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
74-87-3	Chloromethane	UG/KG	11 U			
74-83-9	Bromomethane	UG/KG	11 U			
75-01-4	Vinyl Chloride	UG/KG	11 U			
75-00-3	Chloroethane	UG/KG	11 U			
75-09-2	Methylene Chloride	UG/KG	11 U			
67-64-1	Acetone	UG/KG	11 UJ			
75-15-0	Carbon Disulfide	UG/KG	11 U			
75-35-4	1,1-Dichloroethene	UG/KG	11 U			
75-34-3	1,1-Dichloroethane	UG/KG	11 U			
540-59-0	1,2-Dichloroethene (total)	UG/KG	11 U			
67-66-3	Chloroform	UG/KG	11 U			
107-06-2	1,2-Dichloroethane	UG/KG	11 U			
78-93-3	2-Butanone	UG/KG	11 UJ			
71-55-6	1,1,1-Trichloroethane	UG/KG	11 U			
56-23-5	Carbon Tetrachloride	UG/KG	11 U			
75-27-4	Bromodichloromethane	UG/KG	11 U			
78-87-5	1,2-Dichloropropane	UG/KG	11 U			
10061-01-5	cis-1,3-Dichloropropene	UG/KG	11 U			
79-01-6	Trichloroethene	UG/KG	11 U			
124-48-1	Dibromochloromethane	UG/KG	11 U			
79-00-5	1,1,2-Trichloroethane	UG/KG	11 U			
71-43-2	Benzene	UG/KG	11 U	10 UJ	14 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/KG	11 U			18 U
75-25-2	Bromoform	UG/KG	11 U			
108-10-1	4-Methyl-2-Pentanone	UG/KG	11 U			
591-78-6	2-Hexanone	UG/KG	11 U			
127-18-4	Tetrachloroethene	UG/KG	11 U			
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	11 U			
108-88-3	Toluene	UG/KG	11 U	10 UJ	14 UJ	10 U
108-90-7	Chlorobenzene	UG/KG	11 U			18 U
100-41-4	Ethylbenzene	UG/KG	11 U	10 UJ	14 UJ	10 U
100-42-5	Styrene	UG/KG	11 U			18 U
1330-20-7	Xylene (total)	UG/KG	11 U	10 UJ	14 UJ	10 U
108-05-4	Vinyl Acetate	UG/KG	11 U			18 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-115 0-6 IN 2458304 NYTEST ONE11 7/28/95 10/11/95	SS-16 0-6 IN 2416406 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-17 0-6 IN 2420709 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-18 0-6 IN 2420708 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-19 0-6 IN 2420707 NYTEST SS-1 SOIL 6/20/95 8/28/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/KG	750 U				
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	750 U				
95-57-8	2-Chlorophenol	UG/KG	750 U				
541-73-1	1,3-Dichlorobenzene	UG/KG	750 U				
106-46-7	1,4-Dichlorobenzene	UG/KG	750 U				
95-50-1	1,2-Dichlorobenzene	UG/KG	750 U				
95-48-7	2-Methylphenol	UG/KG	750 U				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	750 U				
106-44-5	4-Methylphenol	UG/KG	750 U				
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	750 U				
67-72-1	Hexachloroethane	UG/KG	750 U				
98-95-3	Nitrobenzene	UG/KG	750 U				
78-59-1	Isophorone	UG/KG	750 U				
88-75-5	2-Nitrophenol	UG/KG	750 U				
105-67-9	2,4-Dimethylphenol	UG/KG	750 U				
120-83-2	2,4-Dichlorophenol	UG/KG	750 U				
120-82-1	1,2,4-Trichlorobenzene	UG/KG	750 U				
91-20-3	Naphthalene	UG/KG	750 U	200 J	69 J	330 UJ	620 UJ
106-47-8	4-Chloroaniline	UG/KG	R				
87-68-3	Hexachlorobutadiene	UG/KG	750 U				
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	750 U				
59-50-7	4-Chloro-3-Methylphenol	UG/KG	750 U				
91-57-6	2-Methylnaphthalene	UG/KG	750 U	78 J	110 J	330 UJ	120 J
77-47-4	Hexachlorocyclopentadiene	UG/KG	750 U				
88-06-2	2,4,6-Trichlorophenol	UG/KG	750 U				
95-95-4	2,4,5-Trichlorophenol	UG/KG	3700 U				
91-58-7	2-Chloronaphthalene	UG/KG	750 U				
88-74-4	2-Nitroaniline	UG/KG	3700 U				
131-11-3	Dimethylphthalate	UG/KG	750 U				
208-96-8	Acenaphthylene	UG/KG	380 J	680 J	100 J	38 J	140 J
606-20-2	2,6-Dinitrotoluene	UG/KG	750 U				
99-09-2	3-Nitroaniline	UG/KG	3700 UJ				
83-32-9	Acenaphthene	UG/KG	750 U	710 U	470 UJ	56 J	620 UJ
51-28-5	2,4-Dinitrophenol	UG/KG	3700 U				
100-02-7	4-Nitrophenol	UG/KG	3700 UJ				
132-64-9	Dibenzofuran	UG/KG	750 U				
121-14-2	2,4-Dinitrotoluene	UG/KG	750 U				
84-66-2	Diethylphthalate	UG/KG	750 U				
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	750 U				
86-73-7	Fluorene	UG/KG	750 U	120 J	470 UJ	120 J	620 UJ
100-01-6	4-Nitroaniline	UG/KG	3700 UJ				
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	3700 U				
86-30-6	N-Nitrosodiphenylamine	UG/KG	750 U				
101-55-3	4-Bromophenyl-phenylether	UG/KG	750 U				
118-74-1	Hexachlorobenzene	UG/KG	750 U				
87-86-5	Pentachlorophenol	UG/KG	3700 U				
85-01-8	Phenanthrene	UG/KG	600 J	2300	290 J	560 J	410 J
120-12-7	Anthracene	UG/KG	200 J	720	70 J	180 J	150 J
86-74-8	Carbazole	UG/KG	81 J				
84-74-2	Di-n-butylphthalate	UG/KG	750 U				
206-44-0	Fluoranthene	UG/KG	1700	5500	610 J	750 J	750 J
129-00-0	Pyrene	UG/KG	1100	3700	640 J	690 J	840 J
85-68-7	Butylbenzylphthalate	UG/KG	750 U				
91-94-1	3,3'-Dichlorobenzidine	UG/KG	1500 UJ				
56-55-3	Benzo(a)anthracene	UG/KG	710 J	3300	340 J	400 J	420 J
218-01-9	Chrysene	UG/KG	940	3400	440 J	370 J	560 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	140 J				
117-84-0	Di-n-octylphthalate	UG/KG	750 U				
205-99-2	Benzo(b)fluoranthene	UG/KG	1200	3500	380 J	300 J	520 J
207-08-9	Benzo(k)fluoranthene	UG/KG	520 J	4200	360 J	340 J	490 J
50-32-8	Benzo(a)pyrene	UG/KG	950	3700	280 J	280 J	390 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	240 J	1900	120 J	110 J	170 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	750 U	140 J	470 UJ	330 UJ	620 UJ
191-24-2	Benzo(g,h,i)perylene	UG/KG	200 J	1800 J	120 J	100 J	160 J
100-51-6	Benzyl Alcohol	UG/KG	R				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-115 2458304 NYTEST ONE11 7/28/95 10/11/95	SS-16 0-6 IN 2416406 NYTEST SS-1 SOIL 6/14/95 8/28/95	SS-17 0-6 IN 2420709 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-18 0-6 IN 2420708 NYTEST SS-1 SOIL 6/20/95 8/28/95	SS-19 0-6 IN 2420707 NYTEST SS-1 SOIL 6/20/95 8/28/95
CAS NO.	COMPOUND	UNITS:					
PESTICIDE/PCBs							
319-84-6	alpha-BHC	UG/KG	18 U				
319-85-7	beta-BHC	UG/KG	18 U				
319-86-8	delta-BHC	UG/KG	18 U				
58-89-9	gamma-BHC (Lindane)	UG/KG	18 U				
76-44-8	Heptachlor	UG/KG	18 U				
309-00-2	Aldrin	UG/KG	18 U				
1024-57-3	Heptachlor Epoxide	UG/KG	18 U				
959-98-8	Endosulfan I	UG/KG	18 U				
60-57-1	Dieldrin	UG/KG	36 U				
72-55-9	4,4'-DDE	UG/KG	36 U				
72-20-8	Endrin	UG/KG	36 U				
33213-65-9	Endosulfan II	UG/KG	36 U				
72-54-8	4,4'-DDD	UG/KG	36 U				
1031-07-8	Endosulfan Sulfate	UG/KG	36 U				
50-29-3	4,4'-DDT	UG/KG	36 U				
72-43-5	Methoxychlor	UG/KG	180 U				
53494-70-5	Endrin Ketone	UG/KG	36 U				
7421-93-4	Endrin Aldehyde	UG/KG	36 U				
5103-71-9	alpha-Chlordane	UG/KG	18 U				
5103-74-2	gamma-Chlordane	UG/KG	18 U				
8001-35-2	Toxaphene	UG/KG	360 U				
12674-11-2	Aroclor-1016	UG/KG	180 U				
11104-28-2	Aroclor-1221	UG/KG	180 U				
11141-16-5	Aroclor-1232	UG/KG	180 U				
53469-21-9	Aroclor-1242	UG/KG	180 U				
12672-29-6	Aroclor-1248	UG/KG	180 U				
11097-69-1	Aroclor-1254	UG/KG	180 U				
11096-82-5	Aroclor-1260	UG/KG	180 U				
INORGANICS							
7429-90-5	Aluminum	MG/KG	3070				
7440-36-0	Antimony	MG/KG	7 UJ				
7440-38-2	Arsenic	MG/KG	2.6				
7440-39-3	Barium	MG/KG	33.7 J				
7440-41-7	Beryllium	MG/KG	0.14 J				
7440-43-9	Cadmium	MG/KG	0.26 J				
7440-70-2	Calcium	MG/KG	39400				
7440-47-3	Chromium	MG/KG	5.5				
7440-48-4	Cobalt	MG/KG	3.9 J				
7440-50-8	Copper	MG/KG	19.6				
7439-89-6	Iron	MG/KG	7580				
7439-92-1	Lead	MG/KG	61.9				
7439-95-4	Magnesium	MG/KG	4680				
7439-96-5	Manganese	MG/KG	506				
7439-97-6	Mercury	MG/KG	0.24				
7440-02-0	Nickel	MG/KG	6.4 J				
7440-09-7	Potassium	MG/KG	459 U				
7782-49-2	Selenium	MG/KG	1 UJ				
7440-22-4	Silver	MG/KG	1 UJ				
7440-23-5	Sodium	MG/KG	562 U				
7440-28-0	Thallium	MG/KG	1 UJ				
7440-62-2	Vanadium	MG/KG	7.2 J				
7440-66-6	Zinc	MG/KG	45.7 J				
57-12-5	Cyanide	MG/KG	1 J	0.53 U	0.7 U	0.5 U	0.93 U
57-12-5A	Amenable Cyanide	MG/KG	1 J				
OTHER							
7440-44-0	Total Organic Carbon	MG/KG	19100	51200	46400	14600	103000

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-20 2458305 NYTEST ONE11 7/28/95 10/11/95	SS-21 2458306 NYTEST ONE11 7/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:		
	<u>VOLATILES</u>			
74-87-3	Chloromethane	UG/KG	11 U	11 UJ
74-83-9	Bromomethane	UG/KG	11 U	11 UJ
75-01-4	Vinyl Chloride	UG/KG	11 U	11 UJ
75-00-3	Chloroethane	UG/KG	11 U	11 UJ
75-09-2	Methylene Chloride	UG/KG	11 U	11 UJ
67-64-1	Acetone	UG/KG	11 UJ	R
75-15-0	Carbon Disulfide	UG/KG	11 U	11 UJ
75-35-4	1,1-Dichloroethene	UG/KG	11 U	11 UJ
75-34-3	1,1-Dichloroethane	UG/KG	11 U	11 UJ
540-59-0	1,2-Dichloroethene (total)	UG/KG	11 U	11 UJ
67-66-3	Chloroform	UG/KG	11 U	11 UJ
107-06-2	1,2-Dichloroethane	UG/KG	11 U	11 UJ
78-93-3	2-Butanone	UG/KG	11 UJ	11 UJ
71-55-6	1,1,1-Trichloroethane	UG/KG	11 U	11 UJ
56-23-5	Carbon Tetrachloride	UG/KG	11 U	11 UJ
75-27-4	Bromodichloromethane	UG/KG	11 U	11 UJ
78-87-5	1,2-Dichloropropane	UG/KG	11 U	11 UJ
10061-01-5	cis-1,3-Dichloropropene	UG/KG	11 U	11 UJ
79-01-6	Trichloroethene	UG/KG	11 U	11 UJ
124-48-1	Dibromochloromethane	UG/KG	11 U	11 UJ
79-00-5	1,1,2-Trichloroethane	UG/KG	11 U	11 UJ
71-43-2	Benzene	UG/KG	11 U	11 UJ
10061-02-6	trans-1,3-Dichloropropene	UG/KG	11 U	11 UJ
75-25-2	Bromoform	UG/KG	11 U	11 UJ
108-10-1	4-Methyl-2-Pentanone	UG/KG	11 U	11 UJ
591-78-6	2-Hexanone	UG/KG	11 U	11 UJ
127-18-4	Tetrachloroethene	UG/KG	11 U	11 UJ
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	11 U	11 UJ
108-88-3	Toluene	UG/KG	11 U	11 UJ
108-90-7	Chlorobenzene	UG/KG	11 U	11 UJ
100-41-4	Ethylbenzene	UG/KG	11 U	11 UJ
100-42-5	Styrene	UG/KG	11 U	11 UJ
1330-20-7	Xylene (total)	UG/KG	11 U	11 UJ
108-05-4	Vinyl Acetate	UG/KG	11 U	11 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-20 2458305 NYTEST ONE11 7/28/95 10/11/95	SS-21 2458306 NYTEST ONE11 7/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:		
SEMIVOLATILES				
108-95-2	Phenol	UG/KG	15000 U	720 U
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	15000 U	720 U
95-57-8	2-Chlorophenol	UG/KG	15000 U	720 U
541-73-1	1,3-Dichlorobenzene	UG/KG	15000 U	720 U
106-46-7	1,4-Dichlorobenzene	UG/KG	15000 U	720 U
95-50-1	1,2-Dichlorobenzene	UG/KG	15000 U	720 U
95-48-7	2-Methylphenol	UG/KG	15000 U	720 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	15000 U	720 U
106-44-5	4-Methylphenol	UG/KG	15000 U	720 U
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	15000 U	720 U
67-72-1	Hexachloroethane	UG/KG	15000 U	720 U
98-95-3	Nitrobenzene	UG/KG	15000 U	720 U
78-59-1	Isophorone	UG/KG	15000 U	720 U
88-75-5	2-Nitrophenol	UG/KG	15000 U	720 U
105-67-9	2,4-Dimethylphenol	UG/KG	15000 U	720 U
120-83-2	2,4-Dichlorophenol	UG/KG	15000 U	720 U
120-82-1	1,2,4-Trichlorobenzene	UG/KG	15000 U	720 U
91-20-3	Naphthalene	UG/KG	15000 U	330 J
106-47-8	4-Chloroaniline	UG/KG	R	R
87-68-3	Hexachlorobutadiene	UG/KG	15000 U	720 U
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	15000 U	720 U
59-50-7	4-Chloro-3-Methylphenol	UG/KG	15000 U	720 U
91-57-6	2-Methylnaphthalene	UG/KG	15000 U	390 J
77-47-4	Hexachlorocyclopentadiene	UG/KG	15000 U	720 U
88-06-2	2,4,6-Trichlorophenol	UG/KG	15000 U	720 U
95-95-4	2,4,5-Trichlorophenol	UG/KG	74000 U	3600 U
91-58-7	2-Chloronaphthalene	UG/KG	15000 U	720 U
88-74-4	2-Nitroaniline	UG/KG	74000 U	3600 U
131-11-3	Dimethylphthalate	UG/KG	15000 U	720 U
208-96-8	Acenaphthylene	UG/KG	15000 U	500 J
606-20-2	2,6-Dinitrotoluene	UG/KG	15000 U	720 U
99-09-2	3-Nitroaniline	UG/KG	74000 UJ	3600 UJ
83-32-9	Acenaphthene	UG/KG	4300 J	720 U
51-28-5	2,4-Dinitrophenol	UG/KG	74000 U	3600 U
100-02-7	4-Nitrophenol	UG/KG	74000 UJ	3600 UJ
132-64-9	Dibenzofuran	UG/KG	3800 J	270 J
121-14-2	2,4-Dinitrotoluene	UG/KG	15000 U	720 U
84-66-2	Diethylphthalate	UG/KG	15000 U	720 U
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	15000 U	720 U
86-73-7	Fluorene	UG/KG	5700 J	720 U
100-01-6	4-Nitroaniline	UG/KG	74000 UJ	3600 UJ
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	74000 U	3600 U
86-30-6	N-Nitrosodiphenylamine	UG/KG	15000 U	720 U
101-55-3	4-Bromophenyl-phenylether	UG/KG	15000 U	720 U
118-74-1	Hexachlorobenzene	UG/KG	15000 U	720 U
87-86-5	Pentachlorophenol	UG/KG	74000 U	3600 U
85-01-8	Phenanthrene	UG/KG	48000	980
120-12-7	Anthracene	UG/KG	11000 J	350 J
86-74-8	Carbazole	UG/KG	7900 J	130 J
84-74-2	Di-n-butylphthalate	UG/KG	15000 U	720 U
206-44-0	Fluoranthene	UG/KG	55000	1600
129-00-0	Pyrene	UG/KG	28000	850
85-68-7	Butylbenzylphthalate	UG/KG	15000 U	720 U
91-94-1	3,3'-Dichlorobenzidine	UG/KG	30000 UJ	1400 UJ
56-55-3	Benzo(a)anthracene	UG/KG	19000	750
218-01-9	Chrysene	UG/KG	23000	1100
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	15000 UJ	720 UJ
117-84-0	Di-n-octylphthalate	UG/KG	15000 U	720 U
205-99-2	Benzo(b)fluoranthene	UG/KG	18000	1300
207-08-9	Benzo(k)fluoranthene	UG/KG	16000 J	920 J
50-32-8	Benzo(a)pyrene	UG/KG	18000	690 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	4300 J	220 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	15000 U	720 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	2900 J	150 J
100-51-6	Benzyl Alcohol	UG/KG	R	R

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACE SOIL APPENDIX SURFACE SOIL DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-20 2458305 NYTEST ONE11 7/28/95 10/11/95	SS-21 2458306 NYTEST ONE11 7/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:		
PESTICIDE/PCBs				
319-84-6	alpha-BHC	UG/KG	44 U	43 U
319-85-7	beta-BHC	UG/KG	44 U	43 U
319-86-8	delta-BHC	UG/KG	44 U	43 U
58-89-9	gamma-BHC (Lindane)	UG/KG	44 U	43 U
76-44-8	Heptachlor	UG/KG	44 U	43 U
309-00-2	Aldrin	UG/KG	44 U	43 U
1024-57-3	Heptachlor Epoxide	UG/KG	44 U	43 U
959-98-8	Endosulfan I	UG/KG	44 U	43 U
60-57-1	Dieldrin	UG/KG	89 U	86 U
72-55-9	4,4'-DDE	UG/KG	89 U	86 U
72-20-8	Endrin	UG/KG	89 U	86 U
33213-65-9	Endosulfan II	UG/KG	89 U	86 U
72-54-8	4,4'-DDD	UG/KG	89 U	86 U
1031-07-8	Endosulfan Sulfate	UG/KG	89 U	86 U
50-29-3	4,4'-DDT	UG/KG	89 U	86 U
72-43-5	Methoxychlor	UG/KG	440 U	430 U
53494-70-5	Endrin Ketone	UG/KG	130 J	86 U
7421-93-4	Endrin Aldehyde	UG/KG	89 U	86 U
5103-71-9	alpha-Chlordane	UG/KG	44 U	43 U
5103-74-2	gamma-Chlordane	UG/KG	44 U	43 U
8001-35-2	Toxaphene	UG/KG	890 U	860 U
12674-11-2	Aroclor-1016	UG/KG	440 U	430 U
11104-28-2	Aroclor-1221	UG/KG	440 U	430 U
11141-16-5	Aroclor-1232	UG/KG	440 U	430 U
53469-21-9	Aroclor-1242	UG/KG	440 U	430 U
12672-29-6	Aroclor-1248	UG/KG	440 U	430 U
11097-69-1	Aroclor-1254	UG/KG	440 U	430 U
11096-82-5	Aroclor-1260	UG/KG	440 U	430 U
INORGANICS				
7429-90-5	Aluminum	MG/KG	3260	4080
7440-36-0	Antimony	MG/KG	7 UJ	7.4 UJ
7440-38-2	Arsenic	MG/KG	2.6	14.6
7440-39-3	Barium	MG/KG	20.2 J	44.1
7440-41-7	Beryllium	MG/KG	0.15 J	0.28 J
7440-43-9	Cadmium	MG/KG	0.16 U	0.16 U
7440-70-2	Calcium	MG/KG	134000 J	50100
7440-47-3	Chromium	MG/KG	7.5	8.5
7440-48-4	Cobalt	MG/KG	3.7 J	5.9 J
7440-50-8	Copper	MG/KG	20.3	89.7
7439-89-6	Iron	MG/KG	8360	22800
7439-92-1	Lead	MG/KG	130	70.4
7439-95-4	Magnesium	MG/KG	7740	14400
7439-96-5	Manganese	MG/KG	286	513
7439-97-6	Mercury	MG/KG	0.11 U	0.15
7440-02-0	Nickel	MG/KG	9.2	13.2
7440-09-7	Potassium	MG/KG	859 J	917 J
7782-49-2	Selenium	MG/KG	0.93 UJ	0.99 UJ
7440-22-4	Silver	MG/KG	1 UJ	1.1 UJ
7440-23-5	Sodium	MG/KG	561 U	591 U
7440-28-0	Thallium	MG/KG	0.93 UJ	0.99 UJ
7440-62-2	Vanadium	MG/KG	10.8	12.2
7440-66-6	Zinc	MG/KG	93 J	66.9 J
57-12-5	Cyanide	MG/KG	1.7 J	1 J
57-12-5A	Amenable Cyanide	MG/KG	1.1 J	1 J
OTHER				
7440-44-0	Total Organic Carbon	MG/KG	54300	12100

NMPC ONEIDA
SEDIMENT SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	SED-12 0.0-0.5' 2416504 NYTEST SED01 SOIL 6/15/95 8/28/95	SED-13 0.0-0.5' 2416505 NYTEST SED01 SOIL 6/15/95 8/28/95	SED-14 0.0-0.5' 2416506 NYTEST SED01 SOIL 6/15/95 8/28/95	SED-15 0.0-0.5' 2416503 NYTEST SED01 SOIL 6/15/95 8/28/95	SED-16 0.0-0.5' 2416501 NYTEST SED01 SOIL 6/15/95 8/28/95
CAS NO.	COMPOUND						
	BTEX						
71-43-2	Benzene	UG/KG	18 U	12 U	11 U	14 U	12 U
108-88-3	Toluene	UG/KG	1000 DJ	12 U	11 U	14 U	12 U
100-41-4	Ethylbenzene	UG/KG	18 UJ	12 U	11 U	14 U	12 U
1330-20-7	Xylene (total)	UG/KG	18 UJ	12 U	11 U	14 U	12 U
	PAHs						
91-20-3	Naphthalene	UG/KG	600 U	390 U	380 U	460 U	390 U
91-57-6	2-Methylnaphthalene	UG/KG	600 U	390 U	380 U	460 U	390 U
208-96-8	Acenaphthylene	UG/KG	240 J	390 U	380 U	460 U	390 U
83-32-9	Acenaphthene	UG/KG	140 J	390 U	380 U	460 U	390 U
86-73-7	Fluorene	UG/KG	340 J	390 U	380 U	460 U	390 U
85-01-8	Phenanthrene	UG/KG	2100	110 J	380 U	460 U	390 U
120-12-7	Anthracene	UG/KG	550 J	390 U	380 U	460 U	390 U
206-44-0	Fluoranthene	UG/KG	3400	180 J	380 U	460 U	390 U
129-00-0	Pyrene	UG/KG	3000	230 J	380 U	460 U	390 U
56-55-3	Benzo(a)anthracene	UG/KG	1500	88 J	380 U	460 U	390 U
218-01-9	Chrysene	UG/KG	1700	93 J	380 U	460 U	390 U
205-99-2	Benzo(b)fluoranthene	UG/KG	1200	64 J	380 U	460 U	390 U
207-08-9	Benzo(k)fluoranthene	UG/KG	1100	60 J	380 U	460 U	390 U
50-32-8	Benzo(a)pyrene	UG/KG	1500	88 J	380 U	460 U	390 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	580 J	60 J	380 U	460 U	390 U
53-70-3	Dibenz(a,h)anthracene	UG/KG	600 U	390 U	380 U	460 U	390 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	600 UJ	73 J	380 UJ	460 UJ	390 UJ
	INORGANICS						
57-12-5	Total Cyanide	MG/KG	0.89 U	0.58 U	0.57 U	0.68 U	0.58 U
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	78000	94300	132300	125500	38500

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SED-116 0.0-0.5' 2420801 NYTEST SED01 SOIL 6/20/95 8/28/95	SED-17 0.0-0.5' 2416502 NYTEST SED01 SOIL 6/15/95 8/28/95	SED-18A 0.0-0.5' 2427601 NYTEST SED-2 SEDIMENT 6/27/95 10/03/95	SED-118A 0.0-0.5 2427602 NYTEST SED-2 SEDIMENT 6/27/95 10/03/95	SED-18B 2.0-2.5 2427605 NYTEST SED-2 SEDIMENT 6/27/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	BTEX						
71-43-2	Benzene	UG/KG	13 U	5 J	28 J	5 J	3100 J
108-88-3	Toluene	UG/KG	13 U	5 J	9 J	4 J	2900 J
100-41-4	Ethylbenzene	UG/KG	13 U	12 U	52 J	50 J	87000 DJ
1330-20-7	Xylene (total)	UG/KG	13 U	12 U	150 J	100 J	73000 J
	PAHs						
91-20-3	Naphthalene	UG/KG	430 UJ	390 U	17000 J	9000 J	380000 D
91-57-6	2-Methylnaphthalene	UG/KG	430 UJ	390 U	11000 J	6400 J	150000 J
208-96-8	Acenaphthylene	UG/KG	430 UJ	390 U	22000 UJ	22000 UJ	7600 J
83-32-9	Acenaphthene	UG/KG	430 UJ	390 U	11000 J	6400 J	110000 J
86-73-7	Fluorene	UG/KG	430 UJ	390 U	7200 J	3000 J	71000 J
85-01-8	Phenanthrene	UG/KG	130 J	390 U	27000 J	13000 J	150000 J
120-12-7	Anthracene	UG/KG	430 UJ	390 U	5400 J	3100 J	54000 J
206-44-0	Fluoranthene	UG/KG	170 J	390 U	21000 J	18000 J	84000 J
129-00-0	Pyrene	UG/KG	130 J	390 U	23000 J	20000 J	86000 J
56-55-3	Benzo(a)anthracene	UG/KG	76 J	390 U	9500 J	8700 J	35000 J
218-01-9	Chrysene	UG/KG	98 J	390 U	10000 J	10000 J	37000 J
205-99-2	Benzo(b)fluoranthene	UG/KG	62 J	390 U	7000 J	9300 J	20000 J
207-08-9	Benzo(k)fluoranthene	UG/KG	55 J	390 U	8700 J	7300 J	29000 J
50-32-8	Benzo(a)pyrene	UG/KG	79 J	390 U	9200 J	9300 J	32000 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	430 UJ	390 U	7400 J	7300 J	13000 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	430 UJ	390 U	22000 UJ	22000 UJ	25000 UJ
191-24-2	Benzo(g,h,i)perylene	UG/KG	430 UJ	390 UJ	8400 J	8400 J	14000 J
	INORGANICS						
57-12-5	Total Cyanide	MG/KG	0.64 U	0.58 U	1.1 UJ	1.35 J	1.24 UJ
57-12-5A	Amenable Cyanide	MG/KG				R	
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	10700	123000	268000 J	127000 J	298000 J

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID:	SED-19A	SED-19B	SED-19C	SED-20A	SED-20B
		DEPTH:	0.0-0.5'	0.5-1.0'	2.0-3.0'	0.0-0.5'	0.5-1.0'
		LAB ID:	2427608	2427607	2427608	2427609	2430301
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	SED-2	SED-2	SED-2	SED-2	SED-2
		MATRIX:	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
		SAMPLED:	6/27/95	6/27/95	6/27/95	6/27/95	6/28/95
		VALIDATED:	10/03/95	10/03/95	10/03/95	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:					
BTEX							
71-43-2	Benzene	UG/KG	3 J	8 J	38	250	510 JD
108-88-3	Toluene	UG/KG	12 U	1 J	2 J	13 J	12 J
100-41-4	Ethylbenzene	UG/KG	31	93	480 D	1100 D	8400 D
1330-20-7	Xylene (total)	UG/KG	11 J	46	130	860 D	7000 D
PAHs							
91-20-3	Naphthalene	UG/KG	1100 J	39000	41000 D	23000 DJ	380000 D
91-57-6	2-Methylnaphthalene	UG/KG	4100 U	21000	16000	5200 J	110000 D
208-96-8	Acenaphthylene	UG/KG	4100 U	3300 J	3000 J	270 J	11000
83-32-9	Acenaphthene	UG/KG	1100 J	22000	27000	4700 J	79000 JD
86-73-7	Fluorene	UG/KG	680 J	18000	18000	3300 J	47000 JD
85-01-8	Phenanthrene	UG/KG	2000 J	51000	98000 D	13000 DJ	160000 D
120-12-7	Anthracene	UG/KG	570 J	24000	26000	3100 J	43000 JD
208-44-0	Fluoranthene	UG/KG	2400 J	47000	74000 D	7300 J	89000 JD
129-00-0	Pyrene	UG/KG	2600 J	39000	56000 D	6200 J	65000 JD
56-55-3	Benzo(a)anthracene	UG/KG	1300 J	20000	26000	2600 J	38000 JD
218-01-9	Chrysene	UG/KG	1400 J	19000	24000	2400 J	34000 JD
205-99-2	Benzo(b)fluoranthene	UG/KG	1000 J	14000	15000	1300 J	30000
207-08-9	Benzo(k)fluoranthene	UG/KG	1100 J	13000	22000	1500 J	31000
50-32-8	Benzo(a)pyrene	UG/KG	1300 J	18000	21000	1600 J	33000 JD
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	500 J	8100 J	8200 J	520 J	17000
53-70-3	Dibenz(a,h)anthracene	UG/KG	4100 U	12000 UJ	800 J	1000 UJ	1500 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	510 J	9000 J	8200 J	500 J	15000
INORGANICS							
57-12-5	Total Cyanide	MG/KG	0.62 U	0.63 U	0.65 U	0.75 U	0.71 UJ
57-12-5A	Amenable Cyanide	MG/KG					
OTHER							
7440-44-0	Total Organic Carbon	MG/KG	144000	23400	37200	45000	51300

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SED-20C 1.5-2.0' 2430302 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-20D 3.0-3.5' 2430303 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-21A 0.0-0.5' 2430304 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-21B 0.5-1.0' 2430305 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-21C 3.0-3.5' 2430306 NYTEST SED-2 SEDIMENT 6/27/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	BTEX						
71-43-2	Benzene	UG/KG	1000 JD	3700 D	160 J	7900	6800
108-88-3	Toluene	UG/KG	360 JD	5800 D	52 J	14000	13000
100-41-4	Ethylbenzene	UG/KG	16000 D	66000 D	510 J	23000	26000
1330-20-7	Xylene (total)	UG/KG	17000 D	96000 D	960 J	86000	85000
	PAHs						
91-20-3	Naphthalene	UG/KG	180000 D	600000 J	3600000 DJ	9600000 D	7100000 D
91-57-6	2-Methylnaphthalene	UG/KG	68000 D	240000 J	1200000 DJ	2700000 D	1700000 JD
208-96-8	Acenaphthylene	UG/KG	8000	7200 J	130000 J	500000 JD	370000 J
83-32-9	Acenaphthene	UG/KG	71000 D	210000 J	1200000 DJ	2800000 D	2700000 D
86-73-7	Fluorene	UG/KG	32000	120000 J	740000 DJ	2200000 JD	1900000 JD
85-01-8	Phenanthrene	UG/KG	140000 D	480000 J	3300000 DJ	9900000 D	9400000 D
120-12-7	Anthracene	UG/KG	35000	130000 J	800000 DJ	3100000 D	2300000 JD
206-44-0	Fluoranthene	UG/KG	84000 D	280000 J	1700000 DJ	5200000 D	5200000 D
129-00-0	Pyrene	UG/KG	75000 DJ	270000 J	980000 DJ	3000000 D	4100000 D
56-55-3	Benzo(a)anthracene	UG/KG	34000	87000 J	560000 JD	1800000 JD	1800000 JD
218-01-9	Chrysene	UG/KG	30000	99000 J	470000 JD	1600000 JD	1500000 JD
205-99-2	Benzo(b)fluoranthene	UG/KG	18000	54000 J	370000 JD	1300000 JD	1000000 JD
207-08-9	Benzo(k)fluoranthene	UG/KG	25000	74000 J	360000 JD	1000000 JD	1100000 JD
50-32-8	Benzo(a)pyrene	UG/KG	32000	85000 J	470000 JD	1500000 JD	1400000 JD
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	11000	40000 J	150000 J	270000 J	730000 JD
53-70-3	Dibenz(a,h)anthracene	UG/KG	1100 J	1200 J	58000 J	24000 J	22000 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	10000	44000 J	120000 J	200000	790000 JD
	INORGANICS						
57-12-5	Total Cyanide	MG/KG	0.69 UJ	0.67 UJ	1.07 UJ	0.97 UJ	0.91 UJ
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	45400	104000	92800 J	236000	60800

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID: DEPTH: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SED-22A 0.0-0.5' 2430307 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-23A 0.0-0.5' 2430308 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95	SED-23B 3.0-3.5' 2431301 NYTEST SED-3 SEDIMENT 6/30/95 10/03/95	SED-123B 3.0-3.5' 2431304 NYTEST SED-3 SEDIMENT 6/30/95 10/03/95	SED-24A 0.0-0.5' 2430309 NYTEST SED-2 SEDIMENT 6/28/95 10/03/95
CAS NO.	COMPOUND	UNITS:					
	BTEX						
71-43-2	Benzene	UG/KG	13 U	13 U	12 U	12 U	2 J
108-88-3	Toluene	UG/KG	13 U	13 U	12 U	12 U	1 J
100-41-4	Ethylbenzene	UG/KG	8 J	6 J	24 J	71 J	100
1330-20-7	Xylene (total)	UG/KG	4 J	13	14 J	28 J	52
	PAHs						
91-20-3	Naphthalene	UG/KG	4400 U	R	1500 J	640 J	4800 J
91-57-6	2-Methylnaphthalene	UG/KG	460 J	R	2000 U	2000 U	5700 J
208-96-8	Acenaphthylene	UG/KG	4800	R	880 J	370 J	2200 J
83-32-9	Acenaphthene	UG/KG	49000 D	250 J	19000 DJ	8600 J	14000 J
86-73-7	Fluorene	UG/KG	35000	270 J	11000 J	4600 J	11000 J
85-01-8	Phenanthrene	UG/KG	74000 D	2200 J	18000 DJ	6900 J	33000 J
120-12-7	Anthracene	UG/KG	19000	560 J	4000 J	1700 J	11000 J
206-44-0	Fluoranthene	UG/KG	26000 JD	700 J	6100 J	2300 J	16000 J
129-00-0	Pyrene	UG/KG	26000	580 J	8000 J	3200 J	14000 J
56-55-3	Benzo(a)anthracene	UG/KG	14000	140 J	3200 J	1200 J	7200 J
218-01-9	Chrysene	UG/KG	14000	130 J	2900 J	1100 J	6600 J
205-99-2	Benzo(b)fluoranthene	UG/KG	8400	R	1300 J	560 J	3000 J
207-08-9	Benzo(k)fluoranthene	UG/KG	10000	R	2000 J	700 J	4600 J
50-32-8	Benzo(a)pyrene	UG/KG	12000	110 J	2700 J	990 J	5900 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	2600 J	R	1500 J	550 J	1200 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	1100 J	R	230 J	2000 U	540 J
191-24-2	Benzo(g,h,i)perylene	UG/KG	2300 J	R	1800 J	680 J	1100 J
	INORGANICS						
57-12-5	Total Cyanide	MG/KG	0.67 UJ	0.65 UJ	0.6 U	0.61 U	0.65 UJ
57-12-5A	Amenable Cyanide	MG/KG					
	OTHER						
7440-44-0	Total Organic Carbon	MG/KG	67700	27400	38200	24400	28100

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID: SED-24B DEPTH: 2.5-3.0' LAB ID: 2431305 SOURCE: NYTEST SDG: SED-3 MATRIX: SEDIMENT SAMPLED: 6/30/95 VALIDATED: 10/03/95	SED-25A 0.0-0.5' 2430310 NYTEST SED-2 SEDIMENT 6/29/95 10/03/95	SED-26A 0.0-0.5' 2430311 NYTEST SED-2 SEDIMENT 6/29/95 10/03/95	SED-27A 0.0-0.5' 2430312 NYTEST SED-2 SEDIMENT 6/29/95 10/03/95	SED-28A 0.0-0.5' 2430313 NYTEST SED-2 SEDIMENT 6/29/95 10/03/95
CAS NO.	COMPOUND	UNITS:				
	BTEX					
71-43-2	Benzene	UG/KG	13 J	16 U	23 UJ	12 U
108-88-3	Toluene	UG/KG	5 J	16 U	23 UJ	12 U
100-41-4	Ethylbenzene	UG/KG	280	23	23 UJ	12 U
1330-20-7	Xylene (total)	UG/KG	120	24	21 J	12 U
	PAHs					
91-20-3	Naphthalene	UG/KG	19000	3200 J	2100 J	2100 U
91-57-6	2-Methylnaphthalene	UG/KG	12000	1100 J	3900 J	2100 U
208-96-8	Acenaphthylene	UG/KG	1600 J	1100 J	2100 J	2100 U
83-32-9	Acenaphthene	UG/KG	34000 D	7100	6000 J	2100 U
86-73-7	Fluorene	UG/KG	12000	3400 J	3900 J	2100 U
85-01-8	Phenanthrene	UG/KG	41000 D	6400	12000 J	360 J
120-12-7	Anthracene	UG/KG	9900	1900 J	4000 J	2100 U
206-44-0	Fluoranthene	UG/KG	12000	6900	17000 J	550 J
129-00-0	Pyrene	UG/KG	18000	4900 J	10000 J	340 J
56-55-3	Benzo(a)anthracene	UG/KG	6500	3100 J	6600 J	230 J
218-01-9	Chrysene	UG/KG	6000	3300 J	7500 J	280 J
205-99-2	Benzo(b)fluoranthene	UG/KG	2100 J	2600 J	6800 J	280 J
207-08-9	Benzo(k)fluoranthene	UG/KG	4000	2800 J	5600 J	2100 U
50-32-8	Benzo(a)pyrene	UG/KG	5100	3300 J	6800 J	240 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	2600	1000 J	1700 J	2100 U
53-70-3	Dibenz(a,h)anthracene	UG/KG	320 J	5200 U	7600 UJ	2100 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	3000 J	940 J	1500 J	2100 U
	INORGANICS					
57-12-5	Total Cyanide	MG/KG	0.76 U	0.78 UJ	1.12 UJ	0.63 UJ
57-12-5A	Amenable Cyanide	MG/KG				
	OTHER					
7440-44-0	Total Organic Carbon	MG/KG	36400	49100	142000 J	52400

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SEDIMENT APPENDIX SEDIMENT DATA		SAMPLE ID:	FB02	TB03
		DEPTH:		
		LAB ID:	2430314	2430315
		SOURCE:	NYTEST	NYTEST
		SDG:	SED-2	SED-2
		MATRIX:	WATER	WATER
		SAMPLED:	6/29/95	6/29/95
		VALIDATED:	10/03/95	10/03/95
CAS NO.	COMPOUND	UNITS:		
	BTEX			
71-43-2	Benzene	UG/KG	10 U	10 U
108-88-3	Toluene	UG/KG	10 U	10 U
100-41-4	Ethylbenzene	UG/KG	10 U	10 U
1330-20-7	Xylene (total)	UG/KG	10 U	10 U
	PAHs			
91-20-3	Naphthalene	UG/KG	10 U	
91-57-6	2-Methylnaphthalene	UG/KG	10 U	
208-96-8	Acenaphthylene	UG/KG	10 U	
83-32-9	Acenaphthene	UG/KG	10 U	
86-73-7	Fluorene	UG/KG	10 U	
85-01-8	Phenanthrene	UG/KG	10 U	
120-12-7	Anthracene	UG/KG	10 U	
206-44-0	Fluoranthene	UG/KG	10 U	
129-00-0	Pyrene	UG/KG	10 U	
56-55-3	Benzo(a)anthracene	UG/KG	10 U	
218-01-9	Chrysene	UG/KG	10 U	
205-99-2	Benzo(b)fluoranthene	UG/KG	10 U	
207-08-9	Benzo(k)fluoranthene	UG/KG	10 U	
50-32-8	Benzo(a)pyrene	UG/KG	10 U	
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	10 U	
53-70-3	Dibenz(a,h)anthracene	UG/KG	10 U	
191-24-2	Benzo(g,h,i)perylene	UG/KG	10 U	
	INORGANICS			
57-12-5	Total Cyanide	MG/KG	0.01 UJ	
57-12-5A	Amenable Cyanide	MG/KG		
	OTHER			
7440-44-0	Total Organic Carbon	MG/KG		

NMPC ONEIDA
SURFACE WATER SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED SURFACEWATER APPENDIX SURFACE WATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	SW-10 2416606 NYTEST SW12 WATER 6/15/95 8/28/95	SW-11 2416604 NYTEST SW12 WATER 6/15/95 8/28/95	SW-111 2416605 NYTEST SW12 WATER 6/15/95 8/28/95	SW-12 2416601 NYTEST SW12 WATER 6/15/95 8/28/95	TB-01 2416607 NYTEST SW12 WATER 6/15/95 8/28/95
CAS NO.	COMPOUND						
	BTEX						
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
	PAHs						
91-20-3	Naphthalene	UG/L	10 UJ	10 U	10 UJ	10 U	
91-57-6	2-Methylnaphthalene	UG/L	10 UJ	10 U	10 UJ	10 U	
208-96-8	Acenaphthylene	UG/L	10 UJ	10 U	10 UJ	10 U	
83-32-9	Acenaphthene	UG/L	10 UJ	10 U	10 UJ	10 U	
86-73-7	Fluorene	UG/L	10 UJ	10 U	10 UJ	10 U	
85-01-8	Phenanthrene	UG/L	10 UJ	10 U	10 UJ	10 U	
120-12-7	Anthracene	UG/L	10 UJ	10 U	10 UJ	10 U	
206-44-0	Fluoranthene	UG/L	10 UJ	10 U	10 UJ	10 U	
129-00-0	Pyrene	UG/L	10 UJ	10 U	10 UJ	10 U	
56-55-3	Benzo(a)anthracene	UG/L	10 UJ	10 U	10 UJ	10 U	
218-01-9	Chrysene	UG/L	10 UJ	10 U	10 UJ	10 U	
205-99-2	Benzo(b)fluoranthene	UG/L	10 UJ	10 U	10 UJ	10 U	
207-08-9	Benzo(k)fluoranthene	UG/L	10 UJ	10 U	10 UJ	10 U	
50-32-8	Benzo(a)pyrene	UG/L	10 UJ	10 U	10 UJ	10 U	
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 UJ	10 U	10 UJ	10 U	
53-70-3	Dibenz(a,h)anthracene	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	
191-24-2	Benzo(g,h,i)perylene	UG/L	10 UJ	10 U	10 UJ	10 U	
	INORGANICS						
57-12-5	Cyanide	UG/L	10 U	10 U	10 U	10 U	

NMPC ONEIDA
GROUNDWATER SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-01 2454007 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 7/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 7/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 7/27/95 10/02/95
CAS NO.	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 U	10 U		1 JN	10 U
74-83-9	Bromomethane	UG/L	10 U	10 U		10 UJ	10 U
75-01-4	Vinyl Chloride	UG/L	10 U	10 U		10 UJ	10 U
75-00-3	Chloroethane	UG/L	10 U	10 U		10 UJ	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 UJ	10 U		5 J	10 U
75-15-0	Carbon Disulfide	UG/L	10 U	10 U		10 UJ	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U		10 UJ	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 U	10 U		10 UJ	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U		10 UJ	10 U
67-66-3	Chloroform	UG/L	10 U	10 U		10 UJ	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U	10 U		10 UJ	10 U
78-93-3	2-Butanone	UG/L	10 UJ	10 U		10 UJ	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	10 U		10 UJ	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U		10 UJ	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U		10 UJ	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U		10 UJ	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U		10 UJ	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U		10 UJ	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U		10 UJ	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U		66 J	10 U
71-43-2	Benzene	UG/L	10 U	8 J		2000 D	42
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U		10 UJ	10 U
75-25-2	Bromoform	UG/L	10 U	10 U		10 UJ	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U	10 U		10 UJ	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U		10 UJ	10 U
108-88-3	Toluene	UG/L	10 U	100		3200 D	4 J
108-90-7	Chlorobenzene	UG/L	10 U	10 U		10 UJ	10 U
100-41-4	Ethylbenzene	UG/L	10 U	19		3000 D	21
100-42-5	Styrene	UG/L	10 U	10 U		10 UJ	10 U
1330-20-7	Xylene (total)	UG/L	10 U	530 J		5200 D	14
108-05-4	Vinyl Acetate	UG/L	10 U	10 UJ		10 UJ	10 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-01 2454007 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 7/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 7/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 7/27/95 10/02/95
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	10 U	200 U	200 U	13 J	40 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 UJ	200 U	200 U	20 U	40 U
95-57-8	2-Chlorophenol	UG/L	10 U	200 U	200 U	20 U	40 U
541-73-1	1,3-Dichlorobenzene	UG/L	10 UJ	200 U	200 U	20 U	40 U
106-46-7	1,4-Dichlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
95-50-1	1,2-Dichlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
95-48-7	2-Methylphenol	UG/L	10 UJ	200 U	200 U	11 J	40 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 UJ	200 UJ	200 UJ	20 UJ	40 U
106-44-5	4-Methylphenol	UG/L	10 UJ	200 U	25 J	27	40 U
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U	200 U	200 U	20 U	40 U
67-72-1	Hexachloroethane	UG/L	10 U	200 U	200 U	20 U	40 U
98-95-3	Nitrobenzene	UG/L	10 U	200 U	200 U	20 UJ	40 U
78-59-1	Isophorone	UG/L	10 U	200 U	200 U	20 UJ	40 U
88-75-5	2-Nitrophenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
105-67-9	2,4-Dimethylphenol	UG/L	10 U	200 U	48 J	20 UJ	40 U
120-83-2	2,4-Dichlorophenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U	200 U	200 U	20 UJ	40 U
91-20-3	Naphthalene	UG/L	10 U	1000	6300 D	13000 DJ	40 U
106-47-8	4-Chloroaniline	UG/L	10 U	200 UJ	200 UJ	20 UJ	40 UJ
87-68-3	Hexachlorobutadiene	UG/L	10 U	200 U	200 U	20 UJ	40 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U	200 U	200 U	20 UJ	40 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
91-57-6	2-Methylnaphthalene	UG/L	10 U	320	1000 J	14000 JD	40 U
77-47-4	Hexachlorocyclopentadiene	UG/L	10 UJ	200 U	200 U	20 U	40 U
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U	200 U	200 U	20 U	40 U
95-95-4	2,4,5-Trichlorophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
91-58-7	2-Chloronaphthalene	UG/L	10 U	200 U	200 U	20 U	40 U
88-74-4	2-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
131-11-3	Dimethylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
208-96-8	Acenaphthylene	UG/L	10 U	120 J	280	260 J	21 J
606-20-2	2,6-Dinitrotoluene	UG/L	10 U	200 U	200 U	20 U	40 U
99-09-2	3-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 U
83-32-9	Acenaphthene	UG/L	10 U	200 U	68 J	80	100
51-28-5	2,4-Dinitrophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
100-02-7	4-Nitrophenol	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
132-64-9	Dibenzofuran	UG/L	10 U	200 U	200 U	17 J	8 J
121-14-2	2,4-Dinitrotoluene	UG/L	10 U	200 U	200 U	20 U	40 U
84-66-2	Diethylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U	200 U	200 U	20 U	40 U
86-73-7	Fluorene	UG/L	10 U	34 J	80 J	97	39 J
100-01-6	4-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U	200 U	200 U	20 U	40 U
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U	200 U	200 U	20 U	40 U
118-74-1	Hexachlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
87-86-5	Pentachlorophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
85-01-8	Phenanthrene	UG/L	10 U	34 J	66 J	74	44
120-12-7	Anthracene	UG/L	10 U	200 U	200 UJ	23 J	13 J
86-74-8	Carbazole	UG/L	10 U	200 U	30 J	33	40 U
84-74-2	Di-n-butylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
206-44-0	Fluoranthene	UG/L	10 U	200 U	200 U	17 J	12 J
129-00-0	Pyrene	UG/L	10 U	200 U	200 UJ	21 J	13 J
85-68-7	Butylbenzylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	20 U	400 UJ	400 UJ	40 UJ	R
56-55-3	Benzo(a)anthracene	UG/L	10 U	200 U	200 U	8 J	40 U
218-01-9	Chrysene	UG/L	10 U	200 U	200 U	20 U	40 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	10 U	200 U	200 U	20 U	40 U
117-84-0	Di-n-octylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
205-99-2	Benzo(b)fluoranthene	UG/L	10 UJ	200 U	200 U	4 JN	40 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	200 U	200 U	4 JN	40 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	200 U	200 U	6 J	40 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	200 U	200 U	3 J	40 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	200 U	200 U	20 U	40 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	200 U	200 U	4 J	40 U
100-51-6	Benzyl Alcohol	UG/L	10 U	R	R	R	R

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-01 2454007 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 7/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 7/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 7/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 7/27/95 10/02/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.08 J	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.11 J	0.09 J	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U	0.05 UJ	0.12 J	0.16
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 UJ	1 UJ	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
	INORGANICS						
7429-90-5	Aluminum	UG/L	370	345	848 J	713 J	1460 J
7440-36-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	53.8 J	13.2	15.7	17.4	5 U
7440-39-3	Barium	UG/L	88.6 J	2740 J	592 J	585 J	323 J
7440-41-7	Beryllium	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	142000	66200 J	206000 J	204000 J	174000 J
7440-47-3	Chromium	UG/L	4.6 U	4.6 U	4.6 U	4.6 U	4.8 J
7440-48-4	Cobalt	UG/L	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
7440-50-8	Copper	UG/L	19.6 J	26.1	35.9	23.8 J	37.9
7439-89-6	Iron	UG/L	6980	1850 J	52900 J	52100 J	5670 J
7439-92-1	Lead	UG/L	3 U	3 U	301	298	7.3
7439-95-4	Magnesium	UG/L	55600	46400 J	31400 J	31100 J	72200 J
7439-96-5	Manganese	UG/L	51.4	54 J	720 J	715 J	410 J
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	2.2 J	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	4.4 U	4.4 U	5.5 J	4.4 U	5.2 J
7440-09-7	Potassium	UG/L	3270 J	3570 J	14700	14400	7410
7782-49-2	Selenium	UG/L	5 UJ	5 U	5 U	5 U	5 U
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	72400 J	485000 J	117000 J	115000 J	129000 J
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 U	5 U	5 U
7440-62-2	Vanadium	UG/L	4.7 U	4.7 U	5 J	4.7 U	4.7 U
7440-66-6	Zinc	UG/L	43.8 J	18.3 J	254 J	254 J	36.8 J
57-12-5	Total Cyanide	UG/L	10 U	10 U	32 J	10 UJ	10 U
57-12-5A	Amenable Cyanide	UG/L			17 J		
	OTHER						
7440-44-0	Total Organic Carbon	MG/L		7.5			
10-29-7	pH	SU		7.14			
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L		206			
ES-5001	Biochemical Oxygen Demand	MG/L		3 U			
ES-5050	Carbonate	MG/L		1 U			
10-27-5	Chemical Oxygen Demand	MG/L		3 U			
16667-00-6	Chloride	MG/L		733			
11-02-9	Hardness	MG/L		331			
7757-79-1	Nitrate, Nitrogen	MG/L		0.04			
7632-00-0	Nitrite, Nitrogen	MG/L		0.01			
ES-5025	Oil & Grease	MG/L		5			
14806-79-8	Sulfate	MG/L		3 U			
18496-25-8	Sulfide	MG/L		0.6			
ES-5006	Total Dissolved Solids	MG/L		1720			

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-03S 2454008 NYTEST GW1 WATER 7/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 7/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 7/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 7/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 7/26/95 10/02/95
CAS NO.	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
74-83-9	Bromomethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
67-64-1	Acetone	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 UJ	10 U	10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 UJ	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	10 U	6 J	10 U	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	UG/L	10 U	10 U	10 U	86	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	2 J	10 U
108-90-7	Chlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	510 D	10 U
100-42-5	Styrene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	76	10 U
108-05-4	Vinyl Acetate	UG/L	10 U	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-03S 2454008 NYTEST GW1 WATER 7/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 7/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 7/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 7/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 7/26/95 10/02/95
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
95-57-8	2-Chlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
541-73-1	1,3-Dichlorobenzene	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-46-7	1,4-Dichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-50-1	1,2-Dichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-48-7	2-Methylphenol	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-44-5	4-Methylphenol	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
621-64-7	N-Nitroso-di-n-propylamine	UG/L	20 U	10 U	10 UJ	10 U	10 U
67-72-1	Hexachloroethane	UG/L	20 U	10 U	10 UJ	10 U	10 U
98-95-3	Nitrobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
78-59-1	Isophorone	UG/L	20 U	10 U	10 UJ	10 U	10 U
88-75-5	2-Nitrophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
105-67-9	2,4-Dimethylphenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
120-83-2	2,4-Dichlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-20-3	Naphthalene	UG/L	20 U	10 U	10 UJ	130 D	10 U
106-47-8	4-Chloroaniline	UG/L	20 U	10 U	10 UJ	10 U	10 U
87-68-3	Hexachlorobutadiene	UG/L	20 U	10 U	10 UJ	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	20 U	10 U	10 UJ	10 U	10 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-57-6	2-Methylnaphthalene	UG/L	20 U	10 U	10 UJ	140 D	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
88-06-2	2,4,6-Trichlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
91-58-7	2-Chloronaphthalene	UG/L	20 U	10 U	10 UJ	10 U	10 U
88-74-4	2-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
131-11-3	Dimethylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
208-96-8	Acenaphthylene	UG/L	20 U	10 U	10 UJ	7 J	10 U
606-20-2	2,6-Dinitrotoluene	UG/L	20 U	10 U	10 UJ	10 U	10 U
99-09-2	3-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
83-32-9	Acenaphthene	UG/L	20 U	10 U	10 UJ	82 D	10 U
51-28-5	2,4-Dinitrophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
100-02-7	4-Nitrophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
132-64-9	Dibenzofuran	UG/L	20 U	10 U	10 UJ	2 J	10 U
121-14-2	2,4-Dinitrotoluene	UG/L	20 U	10 U	10 UJ	10 U	10 U
84-66-2	Diethylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	20 U	10 U	10 UJ	10 U	10 U
86-73-7	Fluorene	UG/L	20 U	10 U	10 UJ	20	10 U
100-01-6	4-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
86-30-6	N-Nitrosodiphenylamine	UG/L	20 U	10 U	10 UJ	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	UG/L	20 U	10 U	10 UJ	10 U	10 U
118-74-1	Hexachlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
87-86-5	Pentachlorophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
85-01-8	Phenanthrene	UG/L	20 U	10 U	10 UJ	10	10 U
120-12-7	Anthracene	UG/L	20 U	10 U	10 UJ	1 J	10 U
86-74-8	Carbazole	UG/L	20 U	10 U	10 UJ	10 U	10 U
84-74-2	Di-n-butylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
206-44-0	Fluoranthene	UG/L	20 U	10 U	10 UJ	10 U	10 U
129-00-0	Pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	40 U	20 U	20 UJ	20 U	20 U
56-55-3	Benzo(a)anthracene	UG/L	20 U	10 U	10 UJ	10 U	10 U
218-01-9	Chrysene	UG/L	20 U	10 U	10 UJ	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
117-84-0	Di-n-octylphthalate	UG/L	20 UJ	10 UJ	10 UJ	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	20 U	10 U	10 UJ	10 UJ	10 UJ
207-08-9	Benzo(k)fluoranthene	UG/L	20 U	10 U	10 UJ	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	20 U	10 U	10 UJ	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	20 U	10 U	10 UJ	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L	20 U	10 U	R	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-03S 2454008 NYTEST GW1 WATER 7/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 7/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 7/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 7/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 7/26/95 10/02/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 U	1 U	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	INORGANICS						
7429-90-5	Aluminum	UG/L	3150 J	542 J	6290 J	12800 J	18200 J
7440-36-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	6.6 J	11.2	17.7	13	15.3
7440-39-3	Barium	UG/L	498	109 J	1230	1190	954
7440-41-7	Beryllium	UG/L	0.3 U	0.3 U	0.69 J	0.95 J	1.1 J
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	258000	138000	420000	316000	398000
7440-47-3	Chromium	UG/L	6.5 J	4.6 U	11	20.2	29.8
7440-48-4	Cobalt	UG/L	5 J	4.4 U	17.4 J	17.7 J	24.9 J
7440-50-8	Copper	UG/L	11.4 J	16.9 J	112	56.5	114
7439-89-6	Iron	UG/L	25600	3450	26200	32200	41200
7439-92-1	Lead	UG/L	24.3	3.3	40.8	132	63.5
7439-95-4	Magnesium	UG/L	33300	64500	134000	103000	118000
7439-96-5	Manganese	UG/L	758	106	2940	1570	2140
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	13.5 J	4.4 U	28.6 J	35 J	45.8
7440-09-7	Potassium	UG/L	14500	3140 J	18200	5910	6700
7782-49-2	Selenium	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	131000 J	79500 J	257000 J	76300 J	34300
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 UJ	5 U	5 U
7440-62-2	Vanadium	UG/L	7.4 J	4.7 U	25.6 J	38.2 J	45.4 J
7440-66-6	Zinc	UG/L	142 J	15.9 J	143 J	208 J	168 J
57-12-5	Total Cyanide	UG/L	78	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L	10 U				
	OTHER						
7440-44-0	Total Organic Carbon	MG/L				55.2	
10-29-7	pH	SU				6.7	
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L				538	
ES-5001	Biochemical Oxygen Demand	MG/L				3 U	
ES-5050	Carbonate	MG/L				1 U	
10-27-5	Chemical Oxygen Demand	MG/L				22	
16667-00-6	Chloride	MG/L				133	
11-02-9	Hardness	MG/L				458	
7757-79-1	Nitrate, Nitrogen	MG/L				0.54	
7632-00-0	Nitrite, Nitrogen	MG/L				0.04	
ES-5025	Oil & Grease	MG/L				3	
14806-79-8	Sulfate	MG/L				52	
18496-25-8	Sulfide	MG/L				7.4	
ES-5006	Total Dissolved Solids	MG/L				734	

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED GROUNDWATER APPENDIX
GROUNDWATER DATA

		SAMPLE ID:	ES-07	ES-08	ES-10	ES-10S	ES-11
		LAB ID:	2455701	2453205	2453201	2453202	2454002
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	GW1	GW1	GW1	GW1	GW1
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	7/27/95	7/25/95	7/25/95	7/25/95	7/26/95
		VALIDATED:	10/02/95	10/02/95	10/02/95	10/02/95	10/02/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 U	10 U	10 UJ	2 J	10 U
74-83-9	Bromomethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 UJ	12 U	10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 U	10 U	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	3 J	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 U	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 U	10 U	10 UJ	10 U	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	1 J	10 U	8 J	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	UG/L	69	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
591-78-6	2-Hexanone	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
127-18-4	Tetrachloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	4 J	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	350 D	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	480 D	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L	10 UJ	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-07 2455701 NYTEST GW1 WATER 7/27/95 10/02/95	ES-08 2453205 NYTEST GW1 WATER 7/25/95 10/02/95	ES-10 2453201 NYTEST GW1 WATER 7/25/95 10/02/95	ES-10S 2453202 NYTEST GW1 WATER 7/25/95 10/02/95	ES-11 2454002 NYTEST GW1 WATER 7/26/95 10/02/95
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	100 U	10 U	10 U	R	10 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
95-57-8	2-Chlorophenol	UG/L	100 U	10 U	10 U	R	10 U
541-73-1	1,3-Dichlorobenzene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
106-46-7	1,4-Dichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	UG/L	100 U	10 UJ	10 UJ	R	10 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	100 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-44-5	4-Methylphenol	UG/L	100 U	10 UJ	10 UJ	R	10 UJ
621-64-7	N-Nitroso-di-n-propylamine	UG/L	100 U	10 U	10 U	10 U	10 U
67-72-1	Hexachloroethane	UG/L	100 U	10 U	10 U	10 U	10 U
98-95-3	Nitrobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	UG/L	100 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	UG/L	100 U	10 U	10 U	R	10 U
105-67-9	2,4-Dimethylphenol	UG/L	100 U	10 U	10 U	R	10 U
120-83-2	2,4-Dichlorophenol	UG/L	100 U	10 U	10 U	R	10 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	UG/L	340	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	UG/L	100 UJ	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	UG/L	100 U	10 U	10 U	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	100 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	100 U	10 U	10 U	R	10 U
91-57-6	2-Methylnaphthalene	UG/L	140	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
88-06-2	2,4,6-Trichlorophenol	UG/L	100 U	10 U	10 U	R	10 U
95-95-4	2,4,5-Trichlorophenol	UG/L	500 U	50 U	50 U	R	50 U
91-58-7	2-Chloronaphthalene	UG/L	100 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
131-11-3	Dimethylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
208-96-8	Acenaphthylene	UG/L	100 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	UG/L	100 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
83-32-9	Acenaphthene	UG/L	140	10 U	10 U	10 U	10 U
51-28-5	2,4-Dinitrophenol	UG/L	500 U	50 U	50 U	R	50 U
100-02-7	4-Nitrophenol	UG/L	500 U	50 U	50 U	R	50 U
132-64-9	Dibenzofuran	UG/L	22 J	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	UG/L	100 U	10 U	10 U	10 U	10 U
84-66-2	Diethylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	100 U	10 U	10 U	10 U	10 U
86-73-7	Fluorene	UG/L	65 J	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	500 U	50 U	50 U	R	50 U
86-30-6	N-Nitrosodiphenylamine	UG/L	100 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	UG/L	100 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	UG/L	500 U	50 U	50 U	R	50 U
85-01-8	Phenanthrene	UG/L	70 J	10 U	10 U	10 U	10 U
120-12-7	Anthracene	UG/L	17 J	10 U	10 U	10 U	10 U
86-74-8	Carbazole	UG/L	43 J	10 U	10 U	10 U	10 U
84-74-2	Di-n-butylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	UG/L	10 J	10 U	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	200 UJ	20 U	20 U	20 U	20 U
56-55-3	Benzo(a)anthracene	UG/L	100 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	100 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	100 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
207-08-9	Benzo(k)fluoranthene	UG/L	100 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	100 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	100 U	10 U	10 U	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L	R	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-07 2455701 NYTEST GW1 WATER 7/27/95 10/02/95	ES-08 2453205 NYTEST GW1 WATER 7/25/95 10/02/95	ES-10 2453201 NYTEST GW1 WATER 7/25/95 10/02/95	ES-10S 2453202 NYTEST GW1 WATER 7/25/95 10/02/95	ES-11 2454002 NYTEST GW1 WATER 7/26/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
PESTICIDE/PCBs							
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	Endosulfan I	UG/L	0.17	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 U	1 U	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
INORGANICS							
7429-90-5	Aluminum	UG/L	1360 J	18900 J	1030 J	6320 J	3310 J
7440-36-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	5 U	21.3	5 UJ	5 J	6.7 J
7440-39-3	Barium	UG/L	328 J	948	370	421	322
7440-41-7	Beryllium	UG/L	0.3 U	0.98 J	0.3 U	0.61 J	0.3 U
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	1.5 J	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	252000 J	328000	130000	360000	180000
7440-47-3	Chromium	UG/L	4.6 U	32.4	4.6 U	18.7	6.3 J
7440-48-4	Cobalt	UG/L	4.4 U	29.2 J	4.4 U	13.6 J	5.9 J
7440-50-8	Copper	UG/L	44.3	195	48.4	107	46.6
7439-89-6	Iron	UG/L	4460 J	52300	3820	18400	15700
7439-92-1	Lead	UG/L	12.2	43.6	3.1	43.2	10.6
7439-95-4	Magnesium	UG/L	42300 J	127000	60900	110000	56100
7439-96-5	Manganese	UG/L	1300 J	2170	98.5	2850	781
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	4.6 J	60.2	4.4 U	25.1 J	10.3 J
7440-09-7	Potassium	UG/L	8730	15300	5080	23500	4230 J
7782-49-2	Selenium	UG/L	5 U	5 UJ	5 UJ	5 UJ	5 UJ
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	104000 J	174000 J	175000 J	392000 J	68800 J
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 UJ	5 UJ	5 U
7440-62-2	Vanadium	UG/L	7.5 J	43.7 J	4.7 U	24 J	7.3 J
7440-66-6	Zinc	UG/L	36.9 J	190 J	63.3 J	122 J	42.1 J
57-12-5	Total Cyanide	UG/L	94	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L	75				
OTHER							
7440-44-0	Total Organic Carbon	MG/L	16.8		54.7	65.1	
10-29-7	pH	SU	6.34		7.17	6.88	
CONVENTIONALS							
ES-5026	Alkalinity, Total	MG/L	527		359	583	
ES-5001	Biochemical Oxygen Demand	MG/L	3 U		3 U	3 U	
ES-5050	Carbonate	MG/L	1 U		1 U	1 U	
10-27-5	Chemical Oxygen Demand	MG/L	64		3 U	26	
16667-00-6	Chloride	MG/L	279		295	534	
11-02-9	Hardness	MG/L	695		487	722	
7757-79-1	Nitrate, Nitrogen	MG/L	0.14		0.46	0.57	
7632-00-0	Nitrite, Nitrogen	MG/L	0.03		0.02	0.02	
ES-5025	Oil & Grease	MG/L	5		1	3	
14806-79-8	Sulfate	MG/L	4		80	21	
18496-25-8	Sulfide	MG/L	4.7		2.2	3.9	
ES-5006	Total Dissolved Solids	MG/L	1240		1070	1800	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 7/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 7/26/95 10/02/95	MWES1 2592707 NYTEST ONE13 WATER 12/07/95 1/11/96	MWES2 2592709 NYTEST ONE13 WATER 12/07/95 1/11/96	MWES2S 2592710 NYTEST ONE13 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 UJ	10 UJ			
74-83-9	Bromomethane	UG/L	10 U	10 U			
75-01-4	Vinyl Chloride	UG/L	10 U	10 U			
75-00-3	Chloroethane	UG/L	10 U	10 U			
75-09-2	Methylene Chloride	UG/L	10 U	10 U			
67-64-1	Acetone	UG/L	10 U	10 U			
75-15-0	Carbon Disulfide	UG/L	10 U	10 U			
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U			
75-34-3	1,1-Dichloroethane	UG/L	10 U	10 U			
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U			
67-66-3	Chloroform	UG/L	10 U	10 U			
107-06-2	1,2-Dichloroethane	UG/L	10 U	10 U			
78-93-3	2-Butanone	UG/L	10 UJ	10 UJ			
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	10 U			
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U			
75-27-4	Bromodichloromethane	UG/L	10 U	10 U			
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U			
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U			
79-01-6	Trichloroethene	UG/L	10 U	10 U			
124-48-1	Dibromochloromethane	UG/L	10 U	10 U			
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U			
71-43-2	Benzene	UG/L	10 U	10 U	10 U	11	350 D
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U			
75-25-2	Bromoform	UG/L	10 U	10 U			
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ			
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ			
127-18-4	Tetrachloroethene	UG/L	10 U	10 U			
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U			
108-88-3	Toluene	UG/L	10 U	10 U	10 U	130	530 D
108-90-7	Chlorobenzene	UG/L	10 U	10 U			
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	240 D	900 D
100-42-5	Styrene	UG/L	10 U	10 U			
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	390	1100 D
108-05-4	Vinyl Acetate	UG/L	10 U	10 U			

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 7/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 7/26/95 10/02/95	MWES1 2592707 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2 2592709 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2S 2592710 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	10 UJ	10 U			
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 U	10 UJ			
95-57-8	2-Chlorophenol	UG/L	10 U	10 U			
541-73-1	1,3-Dichlorobenzene	UG/L	10 UJ	10 UJ			
106-46-7	1,4-Dichlorobenzene	UG/L	10 U	10 U			
95-50-1	1,2-Dichlorobenzene	UG/L	10 UJ	10 U			
95-48-7	2-Methylphenol	UG/L	10 UJ	10 UJ			
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 UJ	10 UJ			
106-44-5	4-Methylphenol	UG/L	10 U	10 UJ			
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U	10 U			
67-72-1	Hexachloroethane	UG/L	10 U	10 U			
98-95-3	Nitrobenzene	UG/L	10 U	10 U			
78-59-1	Isophorone	UG/L	10 U	10 U			
88-75-5	2-Nitrophenol	UG/L	10 U	10 U			
105-67-9	2,4-Dimethylphenol	UG/L	10 U	10 U			
120-83-2	2,4-Dichlorophenol	UG/L	10 U	10 U			
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U	10 U			
91-20-3	Naphthalene	UG/L	10 U	10 U	10 U	2700 D	7300 D
106-47-8	4-Chloroaniline	UG/L	10 UJ	10 U			
87-68-3	Hexachlorobutadiene	UG/L	10 U	10 U			
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U	10 U			
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U	10 U			
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U	320 JD	600 JD
77-47-4	Hexachlorocyclopentadiene	UG/L	10 U	10 UJ			
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U	10 U			
95-95-4	2,4,5-Trichlorophenol	UG/L	50 U	50 U			
91-58-7	2-Chloronaphthalene	UG/L	10 U	10 U			
88-74-4	2-Nitroaniline	UG/L	50 U	50 U			
131-11-3	Dimethylphthalate	UG/L	10 U	10 U			
208-96-8	Acenaphthylene	UG/L	10 U	10 U	10 U	90 JD	120 JD
606-20-2	2,6-Dinitrotoluene	UG/L	10 U	10 U			
99-09-2	3-Nitroaniline	UG/L	50 U	50 U			
83-32-9	Acenaphthene	UG/L	10 U	10 U	10 U	6 J	36
51-28-5	2,4-Dinitrophenol	UG/L	50 U	50 U			
100-02-7	4-Nitrophenol	UG/L	50 U	50 U			
132-64-9	Dibenzofuran	UG/L	10 U	10 U			
121-14-2	2,4-Dinitrotoluene	UG/L	10 U	10 U			
84-66-2	Diethylphthalate	UG/L	10 U	10 U			
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U	10 U			
86-73-7	Fluorene	UG/L	10 U	10 U	10 U	21 J	30
100-01-6	4-Nitroaniline	UG/L	50 U	50 U			
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U			
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U	10 U			
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U	10 U			
118-74-1	Hexachlorobenzene	UG/L	10 U	10 U			
87-86-5	Pentachlorophenol	UG/L	50 U	50 U			
85-01-8	Phenanthrene	UG/L	10 U	10 U	2 J	22 J	20
120-12-7	Anthracene	UG/L	10 U	10 U	10 U	5 J	4 J
86-74-8	Carbazole	UG/L	10 U	10 U			
84-74-2	Di-n-butylphthalate	UG/L	10 U	10 U			
206-44-0	Fluoranthene	UG/L	10 U	10 U	3 J	5 J	3 J
129-00-0	Pyrene	UG/L	10 U	10 U	4 J	4 J	4 J
85-68-7	Butylbenzylphthalate	UG/L	10 U	10 U			
91-94-1	3,3'-Dichlorobenzidine	UG/L	20 U	20 U			
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	3 J	2 J	1 J
218-01-9	Chrysene	UG/L	10 U	10 U	3 J	1 J	1 J
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U			
117-84-0	Di-n-octylphthalate	UG/L	10 U	10 U			
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 UJ	5 J	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 UJ	10 U	7 J	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	1 J	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 UJ	10 U	5 J	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 UJ	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 UJ	10 U	6 J	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L	10 U	10 U			

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 7/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 7/26/95 10/02/95	MWES1 2592707 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2 2592709 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2S 2592710 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U			
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U			
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ			
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U			
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U			
309-00-2	Aldrin	UG/L	0.05 U	0.05 U			
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U			
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U			
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U			
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U			
72-20-8	Endrin	UG/L	0.1 U	0.1 U			
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U			
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U			
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U			
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U			
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U			
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U			
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U			
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U			
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U			
8001-35-2	Toxaphene	UG/L	1 U	1 U			
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U			
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U			
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U			
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U			
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U			
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U			
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U			
	INORGANICS						
7429-90-5	Aluminum	UG/L	7540 J	8230 J			
7440-36-0	Antimony	UG/L	36 U	36 U			
7440-38-2	Arsenic	UG/L	10.9	9.5 J			
7440-39-3	Barium	UG/L	521	829			
7440-41-7	Beryllium	UG/L	0.39 J	0.9 J			
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U			
7440-70-2	Calcium	UG/L	353000	397000			
7440-47-3	Chromium	UG/L	14	12.1			
7440-48-4	Cobalt	UG/L	11.6 J	18.6 J			
7440-50-8	Copper	UG/L	75.4	60			
7439-89-6	Iron	UG/L	21500	23600			
7439-92-1	Lead	UG/L	34.2	27.6			
7439-95-4	Magnesium	UG/L	93300	86300			
7439-96-5	Manganese	UG/L	1580	1580			
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ			
7440-02-0	Nickel	UG/L	23 J	26.3 J			
7440-09-7	Potassium	UG/L	12800	4170 J			
7782-49-2	Selenium	UG/L	5 UJ	5 UJ			
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ			
7440-23-5	Sodium	UG/L	43600	81000 J			
7440-28-0	Thallium	UG/L	5 U	5 UJ			
7440-62-2	Vanadium	UG/L	15.8 J	19 J			
7440-66-6	Zinc	UG/L	91.9 J	113 J			
57-12-5	Total Cyanide	UG/L	10 U	10 U	10 U	26	470
57-12-5A	Amenable Cyanide	UG/L				10 U	470
	OTHER						
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED GROUNDWATER APPENDIX
GROUNDWATER DATA

		SAMPLE ID:	MWES3	MWES3S	MWES4	MWES4S	FB01
		LAB ID:	2592711	2592712	2592704	2592703	2592720
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	ONEI3	ONEI3	ONEI3	ONEI3	ONEI3
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	12/07/95	12/07/95	12/07/95	12/07/95	12/07/95
		VALIDATED:	1/11/96	1/11/96	1/11/96	1/11/96	1/11/96
		UNITS:					
CAS NO.	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L					
74-83-9	Bromomethane	UG/L					
75-01-4	Vinyl Chloride	UG/L					
75-00-3	Chloroethane	UG/L					
75-09-2	Methylene Chloride	UG/L					
67-64-1	Acetone	UG/L					
75-15-0	Carbon Disulfide	UG/L					
75-35-4	1,1-Dichloroethene	UG/L					
75-34-3	1,1-Dichloroethane	UG/L					
540-59-0	1,2-Dichloroethene (total)	UG/L					
67-66-3	Chloroform	UG/L					
107-06-2	1,2-Dichloroethane	UG/L					
78-93-3	2-Butanone	UG/L					
71-55-6	1,1,1-Trichloroethane	UG/L					
56-23-5	Carbon Tetrachloride	UG/L					
75-27-4	Bromodichloromethane	UG/L					
78-87-5	1,2-Dichloropropane	UG/L					
10051-01-5	cis-1,3-Dichloropropene	UG/L					
79-01-6	Trichloroethene	UG/L					
124-48-1	Dibromochloromethane	UG/L					
79-00-5	1,1,2-Trichloroethane	UG/L					
71-43-2	Benzene	UG/L	22	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L					
75-25-2	Bromoform	UG/L					
108-10-1	4-Methyl-2-Pentanone	UG/L					
591-78-6	2-Hexanone	UG/L					
127-18-4	Tetrachloroethene	UG/L					
79-34-5	1,1,2,2-Tetrachloroethane	UG/L					
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L					
100-41-4	Ethylbenzene	UG/L	4 J	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L					
1330-20-7	Xylene (total)	UG/L	2 J	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	MWES3 2592711 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES3S 2592712 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4 2592704 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4S 2592703 NYTEST ONEI3 WATER 12/07/95 1/11/96	FB01 2592720 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L					
111-44-4	bis(2-Chloroethyl)Ether	UG/L					
95-57-8	2-Chlorophenol	UG/L					
541-73-1	1,3-Dichlorobenzene	UG/L					
106-46-7	1,4-Dichlorobenzene	UG/L					
95-50-1	1,2-Dichlorobenzene	UG/L					
95-48-7	2-Methylphenol	UG/L					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L					
106-44-5	4-Methylphenol	UG/L					
621-64-7	N-Nitroso-di-n-propylamine	UG/L					
67-72-1	Hexachloroethane	UG/L					
98-95-3	Nitrobenzene	UG/L					
78-59-1	Isophorone	UG/L					
88-75-5	2-Nitrophenol	UG/L					
105-67-9	2,4-Dimethylphenol	UG/L					
120-83-2	2,4-Dichlorophenol	UG/L					
120-82-1	1,2,4-Trichlorobenzene	UG/L					
91-20-3	Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	UG/L					
87-68-3	Hexachlorobutadiene	UG/L					
111-91-1	bis(2-Chloroethoxy)methane	UG/L					
59-50-7	4-Chloro-3-Methylphenol	UG/L					
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L					
88-06-2	2,4,6-Trichlorophenol	UG/L					
95-95-4	2,4,5-Trichlorophenol	UG/L					
91-58-7	2-Chloronaphthalene	UG/L					
88-74-4	2-Nitroaniline	UG/L					
131-11-3	Dimethylphthalate	UG/L					
208-96-8	Acenaphthylene	UG/L	8 J	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	UG/L					
99-09-2	3-Nitroaniline	UG/L					
83-32-9	Acenaphthene	UG/L	72	10 U	10 U	10 U	10 U
51-28-5	2,4-Dinitrophenol	UG/L					
100-02-7	4-Nitrophenol	UG/L					
132-64-9	Dibenzofuran	UG/L					
121-14-2	2,4-Dinitrotoluene	UG/L					
84-66-2	Diethylphthalate	UG/L					
7005-72-3	4-Chlorophenyl-phenylether	UG/L					
86-73-7	Fluorene	UG/L	19	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	UG/L					
534-52-1	4,6-Dinitro-2-methylphenol	UG/L					
86-30-6	N-Nitrosodiphenylamine	UG/L					
101-55-3	4-Bromophenyl-phenylether	UG/L					
118-74-1	Hexachlorobenzene	UG/L					
87-86-5	Pentachlorophenol	UG/L					
85-01-8	Phenanthrene	UG/L	13	10 U	10 U	10 U	10 U
120-12-7	Anthracene	UG/L	4 J	10 U	10 U	10 U	10 U
86-74-8	Carbazole	UG/L					
84-74-2	Di-n-butylphthalate	UG/L					
206-44-0	Fluoranthene	UG/L	2 J	10 U	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	2 J	10 U	10 U	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L					
91-94-1	3,3'-Dichlorobenzidine	UG/L					
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L					
117-84-0	Di-n-octylphthalate	UG/L					
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	MWES3 2592711 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES3S 2592712 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4 2592704 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4S 2592703 NYTEST ONEI3 WATER 12/07/95 1/11/96	FB01 2592720 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L					
319-85-7	beta-BHC	UG/L					
319-86-8	delta-BHC	UG/L					
58-89-9	gamma-BHC(Lindane)	UG/L					
76-44-8	Heptachlor	UG/L					
309-00-2	Aldrin	UG/L					
1024-57-3	Heptachlor Epoxide	UG/L					
959-98-8	Endosulfan I	UG/L					
60-57-1	Dieldrin	UG/L					
72-55-9	4,4'-DDE	UG/L					
72-20-8	Endrin	UG/L					
33213-65-9	Endosulfan II	UG/L					
72-54-8	4,4'-DDD	UG/L					
1031-07-8	Endosulfan Sulfate	UG/L					
50-29-3	4,4'-DDT	UG/L					
72-43-5	Methoxychlor	UG/L					
53494-70-5	Endrin Ketone	UG/L					
7421-93-4	Endrin Aldehyde	UG/L					
5103-71-9	alpha-Chlordane	UG/L					
5103-74-2	gamma-Chlordane	UG/L					
8001-35-2	Toxaphene	UG/L					
12674-11-2	Aroclor-1016	UG/L					
11104-28-2	Aroclor-1221	UG/L					
11141-16-5	Aroclor-1232	UG/L					
53469-21-9	Aroclor-1242	UG/L					
12672-29-6	Aroclor-1248	UG/L					
11097-69-1	Aroclor-1254	UG/L					
11096-82-5	Aroclor-1260	UG/L					
	INORGANICS						
7429-90-5	Aluminum	UG/L					
7440-36-0	Antimony	UG/L					
7440-38-2	Arsenic	UG/L					
7440-39-3	Barium	UG/L					
7440-41-7	Beryllium	UG/L					
7440-43-9	Cadmium	UG/L					
7440-70-2	Calcium	UG/L					
7440-47-3	Chromium	UG/L					
7440-48-4	Cobalt	UG/L					
7440-50-8	Copper	UG/L					
7439-89-6	Iron	UG/L					
7439-92-1	Lead	UG/L					
7439-95-4	Magnesium	UG/L					
7439-96-5	Manganese	UG/L					
7439-97-6	Mercury	UG/L					
7440-02-0	Nickel	UG/L					
7440-09-7	Potassium	UG/L					
7782-49-2	Selenium	UG/L					
7440-22-4	Silver	UG/L					
7440-23-5	Sodium	UG/L					
7440-28-0	Thallium	UG/L					
7440-62-2	Vanadium	UG/L					
7440-66-6	Zinc	UG/L					
57-12-5	Total Cyanide	UG/L	10 U	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L					
	OTHER						
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NIAGARA MOHAWK POWER CORPORATION
ONEIDA MGP SITE, ONEIDA, NEW YORK
DETECTED GROUNDWATER APPENDIX
GROUNDWATER DATA

		SAMPLE ID:	MWES5	MWES6	MWES7	MWES8	MWES8-DUP
		LAB ID:	2592713	2592715	2592708	2592705	2592706
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	ONEI3	ONEI3	ONEI3	ONEI3	ONEI3
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	12/07/95	12/07/95	12/07/95	12/07/95	12/07/95
		VALIDATED:	1/11/96	1/11/96	1/11/96	1/11/96	1/11/96
		UNITS:					
CAS NO	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L					
74-83-9	Bromomethane	UG/L					
75-01-4	Vinyl Chloride	UG/L					
75-00-3	Chloroethane	UG/L					
75-09-2	Methylene Chloride	UG/L					
67-64-1	Acetone	UG/L					
75-15-0	Carbon Disulfide	UG/L					
75-35-4	1,1-Dichloroethene	UG/L					
75-34-3	1,1-Dichloroethane	UG/L					
540-59-0	1,2-Dichloroethene (total)	UG/L					
67-66-3	Chloroform	UG/L					
107-06-2	1,2-Dichloroethane	UG/L					
78-93-3	2-Butanone	UG/L					
71-55-6	1,1,1-Trichloroethane	UG/L					
56-23-5	Carbon Tetrachloride	UG/L					
75-27-4	Bromodichloromethane	UG/L					
78-87-5	1,2-Dichloropropane	UG/L					
10061-01-5	cis-1,3-Dichloropropene	UG/L					
79-01-6	Trichloroethene	UG/L					
124-48-1	Dibromochloromethane	UG/L					
79-00-5	1,1,2-Trichloroethane	UG/L					
71-43-2	Benzene	UG/L	40	10 U	44	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L					
75-25-2	Bromoform	UG/L					
108-10-1	4-Methyl-2-Pentanone	UG/L					
591-78-6	2-Hexanone	UG/L					
127-18-4	Tetrachloroethene	UG/L					
79-34-5	1,1,2,2-Tetrachloroethane	UG/L					
108-88-3	Toluene	UG/L	2 J	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L					
100-41-4	Ethylbenzene	UG/L	210 D	10 U	34	10 U	10 U
100-42-5	Styrene	UG/L					
1330-20-7	Xylene (total)	UG/L	24 JD	10 U	22	10 U	10 U
108-05-4	Vinyl Acetate	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	MWES5 2592713 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES6 2592715 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES7 2592708 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8 2592705 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8-DUP 2592706 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/L					
111-44-4	bis(2-Chloroethyl)Ether	UG/L					
95-57-8	2-Chlorophenol	UG/L					
541-73-1	1,3-Dichlorobenzene	UG/L					
106-46-7	1,4-Dichlorobenzene	UG/L					
95-50-1	1,2-Dichlorobenzene	UG/L					
95-48-7	2-Methylphenol	UG/L					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L					
106-44-5	4-Methylphenol	UG/L					
621-64-7	N-Nitroso-di-n-propylamine	UG/L					
67-72-1	Hexachloroethane	UG/L					
98-95-3	Nitrobenzene	UG/L					
78-59-1	Isophorone	UG/L					
88-75-5	2-Nitrophenol	UG/L					
105-67-9	2,4-Dimethylphenol	UG/L					
120-83-2	2,4-Dichlorophenol	UG/L					
120-82-1	1,2,4-Trichlorobenzene	UG/L					
91-20-3	Naphthalene	UG/L	10 U	10 U	270 D	10 U	10 U
106-47-8	4-Chloroaniline	UG/L					
87-68-3	Hexachlorobutadiene	UG/L					
111-91-1	bis(2-Chloroethoxy)methane	UG/L					
59-50-7	4-Chloro-3-Methylphenol	UG/L					
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	9 J	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L					
88-06-2	2,4,6-Trichlorophenol	UG/L					
95-95-4	2,4,5-Trichlorophenol	UG/L					
91-58-7	2-Chloronaphthalene	UG/L					
88-74-4	2-Nitroaniline	UG/L					
131-11-3	Dimethylphthalate	UG/L					
208-96-8	Acenaphthylene	UG/L	3 J	10 U	1 J	10 U	10 U
606-20-2	2,6-Dinitrotoluene	UG/L					
99-09-2	3-Nitroaniline	UG/L					
83-32-9	Acenaphthene	UG/L	56	1 J	34	10 U	10 U
51-28-5	2,4-Dinitrophenol	UG/L					
100-02-7	4-Nitrophenol	UG/L					
132-64-9	Dibenzofuran	UG/L					
121-14-2	2,4-Dinitrotoluene	UG/L					
84-66-2	Diethylphthalate	UG/L					
7005-72-3	4-Chlorophenyl-phenylether	UG/L					
86-73-7	Fluorene	UG/L	13	10 U	11	10 U	10 U
100-01-6	4-Nitroaniline	UG/L					
534-52-1	4,6-Dinitro-2-methylphenol	UG/L					
86-30-6	N-Nitrosodiphenylamine	UG/L					
101-55-3	4-Bromophenyl-phenylether	UG/L					
118-74-1	Hexachlorobenzene	UG/L					
87-86-5	Pentachlorophenol	UG/L					
85-01-8	Phenanthrene	UG/L	6 J	10 U	27	10 U	10 U
120-12-7	Anthracene	UG/L	10 U	10 U	4 J	10 U	10 U
86-74-8	Carbazole	UG/L					
84-74-2	Di-n-butylphthalate	UG/L					
206-44-0	Fluoranthene	UG/L	10 U	10 U	9 J	10 U	10 U
129-00-0	Pyrene	UG/L	10 U	10 U	7 J	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L					
91-94-1	3,3'-Dichlorobenzidine	UG/L					
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	3 J	10 U	10 U
218-01-9	Chrysene	UG/L	10 U	10 U	2 J	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L					
117-84-0	Di-n-octylphthalate	UG/L					
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U	1 J	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U	2 J	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	1 J	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	1 J	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	10 U	1 J	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	MWES5 2592713 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES6 2592715 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES7 2592708 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8 2592705 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8-DUP 2592706 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L					
319-85-7	beta-BHC	UG/L					
319-86-8	delta-BHC	UG/L					
58-89-9	gamma-BHC(Lindane)	UG/L					
76-44-8	Heptachlor	UG/L					
309-00-2	Aldrin	UG/L					
1024-57-3	Heptachlor Epoxide	UG/L					
959-98-8	Endosulfan I	UG/L					
60-57-1	Dieldrin	UG/L					
72-55-9	4,4'-DDE	UG/L					
72-20-8	Endrin	UG/L					
33213-65-9	Endosulfan II	UG/L					
72-54-8	4,4'-DDD	UG/L					
1031-07-8	Endosulfan Sulfate	UG/L					
50-29-3	4,4'-DDT	UG/L					
72-43-5	Methoxychlor	UG/L					
53494-70-5	Endrin Ketone	UG/L					
7421-93-4	Endrin Aldehyde	UG/L					
5103-71-9	alpha-Chlordane	UG/L					
5103-74-2	gamma-Chlordane	UG/L					
8001-35-2	Toxaphene	UG/L					
12674-11-2	Aroclor-1016	UG/L					
11104-28-2	Aroclor-1221	UG/L					
11141-16-5	Aroclor-1232	UG/L					
53469-21-9	Aroclor-1242	UG/L					
12672-29-6	Aroclor-1248	UG/L					
11097-69-1	Aroclor-1254	UG/L					
11096-82-5	Aroclor-1260	UG/L					
	INORGANICS						
7429-90-5	Aluminum	UG/L					
7440-36-0	Antimony	UG/L					
7440-38-2	Arsenic	UG/L					
7440-39-3	Barium	UG/L					
7440-41-7	Beryllium	UG/L					
7440-43-9	Cadmium	UG/L					
7440-70-2	Calcium	UG/L					
7440-47-3	Chromium	UG/L					
7440-48-4	Cobalt	UG/L					
7440-50-8	Copper	UG/L					
7439-89-6	Iron	UG/L					
7439-92-1	Lead	UG/L					
7439-95-4	Magnesium	UG/L					
7439-96-5	Manganese	UG/L					
7439-97-6	Mercury	UG/L					
7440-02-0	Nickel	UG/L					
7440-09-7	Potassium	UG/L					
7782-49-2	Selenium	UG/L					
7440-22-4	Silver	UG/L					
7440-23-5	Sodium	UG/L					
7440-28-0	Thallium	UG/L					
7440-62-2	Vanadium	UG/L					
7440-66-6	Zinc	UG/L					
57-12-5	Total Cyanide	UG/L	10 U	10 U	11	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L					
	OTHER						
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	MWES10 2592702 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES10S 2592701 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES11 2592714 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES12 2592719 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES13 2592716 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/L					
74-83-9	Bromomethane	UG/L					
75-01-4	Vinyl Chloride	UG/L					
75-00-3	Chloroethane	UG/L					
75-09-2	Methylene Chloride	UG/L					
67-64-1	Acetone	UG/L					
75-15-0	Carbon Disulfide	UG/L					
75-35-4	1,1-Dichloroethene	UG/L					
75-34-3	1,1-Dichloroethane	UG/L					
540-59-0	1,2-Dichloroethene (total)	UG/L					
67-66-3	Chloroform	UG/L					
107-06-2	1,2-Dichloroethane	UG/L					
78-93-3	2-Butanone	UG/L					
71-55-6	1,1,1-Trichloroethane	UG/L					
56-23-5	Carbon Tetrachloride	UG/L					
75-27-4	Bromodichloromethane	UG/L					
78-87-5	1,2-Dichloropropane	UG/L					
10061-01-5	cis-1,3-Dichloropropene	UG/L					
79-01-6	Trichloroethene	UG/L					
124-48-1	Dibromochloromethane	UG/L					
79-00-5	1,1,2-Trichloroethane	UG/L					
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L					
75-25-2	Bromoform	UG/L					
108-10-1	4-Methyl-2-Pentanone	UG/L					
591-78-6	2-Hexanone	UG/L					
127-18-4	Tetrachloroethene	UG/L					
79-34-5	1,1,2,2-Tetrachloroethane	UG/L					
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L					
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L					
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID:	MWES10	MWES10S	MWES11	MWES12	MWES13
		LAB ID:	2592702	2592701	2592714	2592719	2592716
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	ONEI3	ONEI3	ONEI3	ONEI3	ONEI3
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	12/07/95	12/07/95	12/07/95	12/07/95	12/07/95
		VALIDATED:	1/11/96	1/11/96	1/11/96	1/11/96	1/11/96
CAS NO.	COMPOUND	UNITS:					
SEMIVOLATILES							
108-95-2	Phenol	UG/L					
111-44-4	bis(2-Chloroethyl)Ether	UG/L					
95-57-8	2-Chlorophenol	UG/L					
541-73-1	1,3-Dichlorobenzene	UG/L					
106-46-7	1,4-Dichlorobenzene	UG/L					
95-50-1	1,2-Dichlorobenzene	UG/L					
95-48-7	2-Methylphenol	UG/L					
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L					
106-44-5	4-Methylphenol	UG/L					
621-64-7	N-Nitroso-di-n-propylamine	UG/L					
67-72-1	Hexachloroethane	UG/L					
98-95-3	Nitrobenzene	UG/L					
78-59-1	Isophorone	UG/L					
88-75-5	2-Nitrophenol	UG/L					
105-67-9	2,4-Dimethylphenol	UG/L					
120-83-2	2,4-Dichlorophenol	UG/L					
120-82-1	1,2,4-Trichlorobenzene	UG/L					
91-20-3	Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	UG/L					
87-68-3	Hexachlorobutadiene	UG/L					
111-91-1	bis(2-Chloroethoxy)methane	UG/L					
59-50-7	4-Chloro-3-Methylphenol	UG/L					
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L					
88-06-2	2,4,6-Trichlorophenol	UG/L					
95-95-4	2,4,5-Trichlorophenol	UG/L					
91-58-7	2-Chloronaphthalene	UG/L					
88-74-4	2-Nitroaniline	UG/L					
131-11-3	Dimethylphthalate	UG/L					
208-96-8	Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	UG/L					
99-09-2	3-Nitroaniline	UG/L					
83-32-9	Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
51-28-5	2,4-Dinitrophenol	UG/L					
100-02-7	4-Nitrophenol	UG/L					
132-64-9	Dibenzofuran	UG/L					
121-14-2	2,4-Dinitrotoluene	UG/L					
84-66-2	Diethylphthalate	UG/L					
7005-72-3	4-Chlorophenyl-phenylether	UG/L					
86-73-7	Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	UG/L					
534-52-1	4,6-Dinitro-2-methylphenol	UG/L					
86-30-6	N-Nitrosodiphenylamine	UG/L					
101-55-3	4-Bromophenyl-phenylether	UG/L					
118-74-1	Hexachlorobenzene	UG/L					
87-86-5	Pentachlorophenol	UG/L					
85-01-8	Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
120-12-7	Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	UG/L					
84-74-2	Di-n-butylphthalate	UG/L					
206-44-0	Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L					
91-94-1	3,3'-Dichlorobenzidine	UG/L					
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L					
117-84-0	Di-n-octylphthalate	UG/L					
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	MWES10 2592702 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES10S 2592701 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES11 2592714 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES12 2592719 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES13 2592716 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L					
319-85-7	beta-BHC	UG/L					
319-86-8	delta-BHC	UG/L					
58-89-9	gamma-BHC(Lindane)	UG/L					
76-44-8	Heptachlor	UG/L					
309-00-2	Aldrin	UG/L					
1024-57-3	Heptachlor Epoxide	UG/L					
959-98-8	Endosulfan I	UG/L					
60-57-1	Dieldrin	UG/L					
72-55-9	4,4'-DDE	UG/L					
72-20-8	Endrin	UG/L					
33213-65-9	Endosulfan II	UG/L					
72-54-8	4,4'-DDD	UG/L					
1031-07-8	Endosulfan Sulfate	UG/L					
50-29-3	4,4'-DDT	UG/L					
72-43-5	Methoxychlor	UG/L					
53494-70-5	Endrin Ketone	UG/L					
7421-93-4	Endrin Aldehyde	UG/L					
5103-71-9	alpha-Chlordane	UG/L					
5103-74-2	gamma-Chlordane	UG/L					
8001-35-2	Toxaphene	UG/L					
12674-11-2	Aroclor-1016	UG/L					
11104-28-2	Aroclor-1221	UG/L					
11141-16-5	Aroclor-1232	UG/L					
53469-21-9	Aroclor-1242	UG/L					
12672-29-6	Aroclor-1248	UG/L					
11097-69-1	Aroclor-1254	UG/L					
11096-82-5	Aroclor-1260	UG/L					
	INORGANICS						
7429-90-5	Aluminum	UG/L					
7440-36-0	Antimony	UG/L					
7440-38-2	Arsenic	UG/L					
7440-39-3	Barium	UG/L					
7440-41-7	Beryllium	UG/L					
7440-43-9	Cadmium	UG/L					
7440-70-2	Calcium	UG/L					
7440-47-3	Chromium	UG/L					
7440-48-4	Cobalt	UG/L					
7440-50-8	Copper	UG/L					
7439-89-6	Iron	UG/L					
7439-92-1	Lead	UG/L					
7439-95-4	Magnesium	UG/L					
7439-96-5	Manganese	UG/L					
7439-97-6	Mercury	UG/L					
7440-02-0	Nickel	UG/L					
7440-09-7	Potassium	UG/L					
7782-49-2	Selenium	UG/L					
7440-22-4	Silver	UG/L					
7440-23-5	Sodium	UG/L					
7440-28-0	Thallium	UG/L					
7440-62-2	Vanadium	UG/L					
7440-66-6	Zinc	UG/L					
57-12-5	Total Cyanide	UG/L	113	58	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L	113	58			
	OTHER						
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
	CONVENTIONALS						
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID:	FB-03	TB01	TB-04	TB-05	TB-06
		LAB ID:	2455705	2592721	2453206	2454001	2455707
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	GW1	ONEI3	GW1	GW1	GW1
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	7/27/95	11/29/95	7/25/95	7/26/95	7/27/95
		VALIDATED:	10/02/95	1/11/96	10/02/95	10/02/95	10/02/95
CAS NO.	COMPOUND	UNITS:					
VOLATILES							
74-87-3	Chloromethane	UG/L	10 U		10 U	10 U	10 U
74-83-9	Bromomethane	UG/L	10 U		10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 U		10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 U		10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ		10 UJ	10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 U		10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 U		10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U		10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 U		10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U		10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 U		10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U		10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 U		10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U		10 U	2 J	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U		10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U		10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U		10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U		10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U		10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U		10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U		10 U	10 U	10 U
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U		10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U		10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ		10 U	10 U	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ		10 U	10 U	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U		10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U		10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L	10 U		10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L	10 U		10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L	10 UJ		10 U	10 U	10 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	FB-03 2455705 NYTEST GW1 WATER 7/27/95 10/02/95	TB01 2592721 NYTEST ONEI3 WATER 11/29/95 1/11/96	TB-04 2453206 NYTEST GW1 WATER 7/25/95 10/02/95	TB-05 2454001 NYTEST GW1 WATER 7/26/95 10/02/95	TB-06 2455707 NYTEST GW1 WATER 7/27/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	10 U				
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 U				
95-57-8	2-Chlorophenol	UG/L	10 U				
541-73-1	1,3-Dichlorobenzene	UG/L	10 U				
106-46-7	1,4-Dichlorobenzene	UG/L	10 U				
95-50-1	1,2-Dichlorobenzene	UG/L	10 U				
95-48-7	2-Methylphenol	UG/L	10 U				
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 UJ				
106-44-5	4-Methylphenol	UG/L	10 U				
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U				
67-72-1	Hexachloroethane	UG/L	10 U				
98-95-3	Nitrobenzene	UG/L	10 U				
78-59-1	Isophorone	UG/L	10 U				
88-75-5	2-Nitrophenol	UG/L	10 U				
105-67-9	2,4-Dimethylphenol	UG/L	10 U				
120-83-2	2,4-Dichlorophenol	UG/L	10 U				
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U				
91-20-3	Naphthalene	UG/L	4 J				
106-47-8	4-Chloroaniline	UG/L	10 UJ				
87-68-3	Hexachlorobutadiene	UG/L	10 U				
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U				
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U				
91-57-6	2-Methylnaphthalene	UG/L	10 U				
77-47-4	Hexachlorocyclopentadiene	UG/L	10 U				
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U				
95-95-4	2,4,5-Trichlorophenol	UG/L	50 U				
91-58-7	2-Chloronaphthalene	UG/L	10 U				
88-74-4	2-Nitroaniline	UG/L	50 U				
131-11-3	Dimethylphthalate	UG/L	10 U				
208-96-8	Acenaphthylene	UG/L	10 U				
606-20-2	2,6-Dinitrotoluene	UG/L	10 U				
99-09-2	3-Nitroaniline	UG/L	50 U				
83-32-9	Acenaphthene	UG/L	10 U				
51-28-5	2,4-Dinitrophenol	UG/L	50 U				
100-02-7	4-Nitrophenol	UG/L	50 U				
132-64-9	Dibenzofuran	UG/L	10 U				
121-14-2	2,4-Dinitrotoluene	UG/L	10 U				
84-66-2	Diethylphthalate	UG/L	10 U				
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U				
86-73-7	Fluorene	UG/L	10 U				
100-01-6	4-Nitroaniline	UG/L	50 U				
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	50 U				
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U				
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U				
118-74-1	Hexachlorobenzene	UG/L	10 U				
87-86-5	Pentachlorophenol	UG/L	50 U				
85-01-8	Phenanthrene	UG/L	10 U				
120-12-7	Anthracene	UG/L	10 U				
86-74-8	Carbazole	UG/L	10 U				
84-74-2	Di-n-butylphthalate	UG/L	10 U				
206-44-0	Fluoranthene	UG/L	10 U				
129-00-0	Pyrene	UG/L	10 U				
85-68-7	Butylbenzylphthalate	UG/L	10 U				
91-94-1	3,3'-Dichlorobenzidine	UG/L	20 UJ				
56-55-3	Benzo(a)anthracene	UG/L	10 U				
218-01-9	Chrysene	UG/L	10 U				
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	10 U				
117-84-0	Di-n-octylphthalate	UG/L	10 U				
205-99-2	Benzo(b)fluoranthene	UG/L	10 U				
207-08-9	Benzo(k)fluoranthene	UG/L	10 U				
50-32-8	Benzo(a)pyrene	UG/L	10 U				
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U				
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U				
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U				
100-51-6	Benzyl Alcohol	UG/L	R				

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE, ONEIDA, NEW YORK DETECTED GROUNDWATER APPENDIX GROUNDWATER DATA		SAMPLE ID:	FB-03	TB01	TB-04	TB-05	TB-06
		LAB ID:	2455705	2592721	2453206	2454001	2455707
		SOURCE:	NYTEST	NYTEST	NYTEST	NYTEST	NYTEST
		SDG:	GW1	ONEI3	GW1	GW1	GW1
		MATRIX:	WATER	WATER	WATER	WATER	WATER
		SAMPLED:	7/27/95	11/29/95	7/25/95	7/26/95	7/27/95
		VALIDATED:	10/02/95	1/11/96	10/02/95	10/02/95	10/02/95
		UNITS:					
CAS NO.	COMPOUND						
PESTICIDE/PCBs							
319-84-6	alpha-BHC	UG/L	0.05 U				
319-85-7	beta-BHC	UG/L	0.05 U				
319-86-8	delta-BHC	UG/L	0.05 UJ				
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U				
76-44-8	Heptachlor	UG/L	0.05 U				
309-00-2	Aldrin	UG/L	0.05 U				
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U				
959-98-8	Endosulfan I	UG/L	0.05 U				
60-57-1	Dieldrin	UG/L	0.1 U				
72-55-9	4,4'-DDE	UG/L	0.1 U				
72-20-8	Endrin	UG/L	0.1 U				
33213-65-9	Endosulfan II	UG/L	0.1 U				
72-54-8	4,4'-DDD	UG/L	0.1 U				
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U				
50-29-3	4,4'-DDT	UG/L	0.1 U				
72-43-5	Methoxychlor	UG/L	0.5 U				
53494-70-5	Endrin Ketone	UG/L	0.1 U				
7421-93-4	Endrin Aldehyde	UG/L	0.1 U				
5103-71-9	alpha-Chlordane	UG/L	0.05 U				
5103-74-2	gamma-Chlordane	UG/L	0.05 U				
8001-35-2	Toxaphene	UG/L	1 U				
12674-11-2	Aroclor-1016	UG/L	0.5 U				
11104-28-2	Aroclor-1221	UG/L	0.5 U				
11141-16-5	Aroclor-1232	UG/L	0.5 U				
53469-21-9	Aroclor-1242	UG/L	0.5 U				
12672-29-6	Aroclor-1248	UG/L	0.5 U				
11097-69-1	Aroclor-1254	UG/L	0.5 U				
11096-82-5	Aroclor-1260	UG/L	0.5 U				
INORGANICS							
7429-90-5	Aluminum	UG/L	121 J				
7440-36-0	Antimony	UG/L	36 U				
7440-38-2	Arsenic	UG/L	5 U				
7440-39-3	Barium	UG/L	23 U				
7440-41-7	Beryllium	UG/L	0.3 U				
7440-43-9	Cadmium	UG/L	0.8 U				
7440-70-2	Calcium	UG/L	664 U				
7440-47-3	Chromium	UG/L	4.6 U				
7440-48-4	Cobalt	UG/L	4.4 U				
7440-50-8	Copper	UG/L	16 J				
7439-89-6	Iron	UG/L	75 U				
7439-92-1	Lead	UG/L	3 U				
7439-95-4	Magnesium	UG/L	669 U				
7439-96-5	Manganese	UG/L	1.2 U				
7439-97-6	Mercury	UG/L	0.2 UJ				
7440-02-0	Nickel	UG/L	4.4 U				
7440-09-7	Potassium	UG/L	2360 U				
7782-49-2	Selenium	UG/L	5 U				
7440-22-4	Silver	UG/L	5.3 UJ				
7440-23-5	Sodium	UG/L	2890 U				
7440-28-0	Thallium	UG/L	5 U				
7440-62-2	Vanadium	UG/L	4.7 U				
7440-66-6	Zinc	UG/L	5 J				
57-12-5	Total Cyanide	UG/L	10 U				
57-12-5A	Amenable Cyanide	UG/L					
OTHER							
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
CONVENTIONALS							
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NMPC ONEIDA
FISH TISSUE SAMPLE RESULTS

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED ONEIDA CREEK FISH SAMPLING		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	RB1 51100008 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS1 51100018 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP1 51100013 HAZELTON HES001 TISSUE 10/26/95 1/04/96
CAS NO.	COMPOUND	UNITS:			
	SEMIVOLATILES				
91-20-3	Naphthalene	UG/KG	200 U	100 U	100 U
208-96-8	Acenaphthylene	UG/KG	250 U	130 U	120 U
83-32-9	Acenaphthene	UG/KG	100 U	50 U	50 U
86-73-7	Fluorene	UG/KG	20 U	10 U	10 U
85-01-8	Phenanthrene	UG/KG	23	14	5 U
120-12-7	Anthracene	UG/KG	15 U	7.5 U	7.5 U
206-44-0	Fluoranthene	UG/KG	15 U	9.2	7.5 U
129-00-0	Pyrene	UG/KG	15 U	11	7.5 U
56-55-3	Benzo(a)anthracene	UG/KG	10 U	5 U	5 U
218-01-9	Chrysene	UG/KG	10 U	5 U	5 U
205-99-2	Benzo(b)fluoranthene	UG/KG	20 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/KG	10 U	5 U	5 U
50-32-8	Benzo(a)pyrene	UG/KG	20 U	10 U	10 U
53-70-3	Dibenzo(a,h)anthracene	UG/KG	30 U	15 U	15 U
191-24-2	Benzo(ghi)perylene	UG/KG	24 U	12 U	12 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	15 U	7.5 U	7.5 U
	PCBs				
12674-11-2	Aroclor 1016	UG/KG	99 U	50 U	50 U
11104-28-2	Aroclor 1221	UG/KG	99 U	50 U	50 U
11141-16-5	Aroclor 1232	UG/KG	99 U	50 U	50 U
53469-21-9	Aroclor 1242	UG/KG	99 U	50 U	50 U
12672-29-6	Aroclor 1248	UG/KG	99 U	50 U	50 U
11097-69-1	Aroclor 1254	UG/KG	100	140	50 U
11096-82-5	Aroclor 1260	UG/KG	99 U	50 U	50 U
	METALS				
7440-38-2	Arsenic	MG/KG	0.09 J	0.18 J	0.09 J
7440-43-9	Cadmium	MG/KG	0.07 U	0.07 U	0.07 U
7440-47-3	Chromium	MG/KG	0.4	0.41	0.39
7440-50-8	Copper	MG/KG	5.2	28	4.2
7439-92-1	Lead	MG/KG	0.18 J	0.87	0.19 J
7439-97-6	Mercury	MG/KG	0.23	0.13	0.06
7440-02-0	Nickel	MG/KG	0.18 U	0.64 J	0.88
7440-66-6	Zinc	MG/KG	23.4	24.8	28.2
	OTHER				
ES-LIPIDS	Percent Lipids	%	2	1.7	1.2

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED ONEIDA CREEK FISH SAMPLING		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	FF2 51100024 HAZELTON HES001 TISSUE 10/26/95 1/04/96	RB2 51100009 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS2 51100019 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP2 51100016 HAZELTON HES001 TISSUE 10/26/95 1/04/96
CAS NO.	COMPOUND					
	SEMIVOLATILES					
91-20-3	Naphthalene	UG/KG	100 U	100 U	100 U	100 U
208-96-8	Acenaphthylene	UG/KG	130 U	120 U	120 U	120 U
83-32-9	Acenaphthene	UG/KG	50 U	50 U	50 U	50 U
86-73-7	Fluorene	UG/KG	10 U	11	10 U	10 U
85-01-8	Phenanthrene	UG/KG	5 U	19	5 U	5 U
120-12-7	Anthracene	UG/KG	7.5 U	7.5 U	7.5 U	7.5 U
206-44-0	Fluoranthene	UG/KG	7.5 U	7.8	7.5 U	7.5 U
129-00-0	Pyrene	UG/KG	7.5 U	7.5 U	7.5 U	7.5 U
56-55-3	Benzo(a)anthracene	UG/KG	5 U	5 U	5 U	5 U
218-01-9	Chrysene	UG/KG	5 U	5 U	5 U	5 U
205-99-2	Benzo(b)fluoranthene	UG/KG	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/KG	5 U	5 U	5 U	5 U
50-32-8	Benzo(a)pyrene	UG/KG	10 U	10 U	10 U	10 U
53-70-3	Dibenzo(a,h)anthracene	UG/KG	15 U	15 U	15 U	15 U
191-24-2	Benzo(ghi)perylene	UG/KG	12 U	12 U	12 U	12 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	7.5 U	7.5 U	7.5 U	7.5 U
	PCBs					
12674-11-2	Aroclor 1016	UG/KG	50 U	67 U	50 U	50 U
11104-28-2	Aroclor 1221	UG/KG	50 U	67 U	50 U	50 U
11141-16-5	Aroclor 1232	UG/KG	50 U	67 U	50 U	50 U
53469-21-9	Aroclor 1242	UG/KG	50 U	67 U	50 U	50 U
12672-29-6	Aroclor 1248	UG/KG	50 U	67 U	50 U	50 U
11097-69-1	Aroclor 1254	UG/KG	94	140	50 U	77
11096-82-5	Aroclor 1260	UG/KG	65	67 U	50 U	50 U
	METALS					
7440-38-2	Arsenic	MG/KG	0.07 UJ	0.12 J	0.09 J	0.33 U
7440-43-9	Cadmium	MG/KG	0.07 U	0.07 U	0.07 U	0.07 U
7440-47-3	Chromium	MG/KG	0.39	0.39	0.43	0.47
7440-50-8	Copper	MG/KG	26	3	6.7	15
7439-92-1	Lead	MG/KG	0.55	0.3	0.94	1.4
7439-97-6	Mercury	MG/KG	0.12	0.27	0.22	0.11
7440-02-0	Nickel	MG/KG	0.4 J	0.18 U	1.1	0.18 U
7440-66-6	Zinc	MG/KG	30.2	16.4	19.4	32.3
	OTHER					
ES - LIPIDS	Percent Lipids	%	1.5	3.5	0.8	1.3

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED ONEIDA CREEK FISH SAMPLING		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	FF3 51100023 HAZELTON HES001 TISSUE 10/26/95 1/04/96	RB3 51100012 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS3 51100022 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP3 51100017 HAZELTON HES001 TISSUE 10/26/95 1/04/96
CAS NO.	COMPOUND	UNITS:				
	SEMIVOLATILES					
91-20-3	Naphthalene	UG/KG	100 U	100 U	100 U	200 U
208-96-8	Acenaphthylene	UG/KG	120 U	120 U	120 U	250 U
83-32-9	Acenaphthene	UG/KG	50 U	50 U	50 U	100 U
86-73-7	Fluorene	UG/KG	10 U	10 U	10 U	20 U
85-01-8	Phenanthrene	UG/KG	5 U	5 U	5 U	10 U
120-12-7	Anthracene	UG/KG	7.5 U	7.5 U	7.5 U	15 U
206-44-0	Fluoranthene	UG/KG	7.5 U	7.5 U	7.5 U	15 U
129-00-0	Pyrene	UG/KG	7.5 U	7.5 U	7.5 U	15 U
56-55-3	Benzo(a)anthracene	UG/KG	5 U	5 U	5 U	10 U
218-01-9	Chrysene	UG/KG	5 U	5 U	5 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/KG	10 U	10 U	10 U	20 U
207-08-9	Benzo(k)fluoranthene	UG/KG	5 U	5 U	5 U	10 U
50-32-8	Benzo(a)pyrene	UG/KG	10 U	10 U	10 U	20 U
53-70-3	Dibenzo(a,h)anthracene	UG/KG	15 U	15 U	15 U	30 U
191-24-2	Benzo(ghi)perylene	UG/KG	12 U	12 U	12 U	24 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	7.5 U	7.5 U	7.5 U	15 U
	PCBs					
12674-11-2	Aroclor 1016	UG/KG	50 U	50 U	50 U	100 U
11104-28-2	Aroclor 1221	UG/KG	50 U	50 U	50 U	100 U
11141-16-5	Aroclor 1232	UG/KG	50 U	50 U	50 U	100 U
53469-21-9	Aroclor 1242	UG/KG	50 U	50 U	50 U	100 U
12672-29-6	Aroclor 1248	UG/KG	50 U	50 U	50 U	100 U
11097-69-1	Aroclor 1254	UG/KG	97	96	130	100 U
11096-82-5	Aroclor 1260	UG/KG	82	50 U	120	100 U
	METALS					
7440-38-2	Arsenic	MG/KG	0.13 J	0.19 J	0.14 J	0.31 U
7440-43-9	Cadmium	MG/KG	0.07 U	0.08 J	0.07 U	0.07 J
7440-47-3	Chromium	MG/KG	0.34	0.46	0.34	0.47
7440-50-8	Copper	MG/KG	16.6	8.2	16.1	5
7439-92-1	Lead	MG/KG	0.14 J	0.15 J	1.2	0.27
7439-97-6	Mercury	MG/KG	0.14	0.19	0.16	0.17
7440-02-0	Nickel	MG/KG	0.28 J	0.18 U	1.2	0.18 U
7440-66-6	Zinc	MG/KG	29.1	25.3	20.4	25.6
	OTHER					
ES-LIPIDS	Percent Lipids	%	1.1	1.9	2.1	1.4

NMPC ONEIDA
CHAINS OF CUSTODY

CHAIN OF CUSTODY RECORD

№ 0402

CLIENT: NMR ONEDA MGP		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED				Send results to: PARSONS ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: NYTEST	
PROJECT NAME: RI/FS		NOTES - (Reference QAPP and/or analytical protocols to be used): * ANALYZE FOR AMENABLE CYANIDE ONLY IF TOTAL CYANIDE IS DETECTED									
SAMPLERS: <i>[Signature]</i>											
FIELD SAMPLE ID: TYPE NUMBER DEPTH CODES / OC IDENTIFIERS											
X X 0 0 1 0 0 1 - 0 0 2											
Location Description		Date	Time	GRAB	COMB	NO OF Bottles	BTEX	PAH	CN ⁻	TOC	Matrix / Preservative / Remarks
SS - 14		6/14/95	1515	X		2	X	X	X		SOIL
SS - 10		6/14/95	1600	X		2	X	X	X	X	
SS - 10 M		6/14/95	1600	X		2	X	X	X		
SS - 10 MD		6/14/95	1600	X		2	X	X	X		
SS - 12		6/14/95	1630	X		2	X	X	X		
SS - 16		6/14/95	1650	X		2	X	X	X	X	
SED - 16		6/15/95	1436	X		2	X	X	X	X	SEDIMENT
SED - 17		6/15/95	1450	X		2	X	X	X	X	
SED - 15		6/15/95	1500	X		2	X	X	X	X	
SED - 12		6/15/95	1640	X		2	X	X	X	X	
SED - 13		6/15/95	1650	X		2	X	X	X	X	
SED - 14		6/15/95	1700	X		2	X	X	X	X	
Relinquished by: (Signature) <i>[Signature]</i>		Date: 6/15/95	Time: 1930	Received by: (Signature)		Date:		Time:		SHIPPED VIA: FEDEx 3000 442605	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA: ARBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA: ARBILL NO:	

TYPE CODES: SOLID

SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
mw - Monitoring Well Boring

TP - Test Pit/Tank Pit

DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
LC - Leachate
SW - Surface Water
DW - Drill Water
FD - Fuel Dispenser
MH - Manhole
OW - Oil Water Separator
PR - Piping Run

ST - Storm Water

WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
TB - Trip Blank (number each)
WB - Wash Blank (number each)

CHAIN OF CUSTODY RECORD

17-0403

CLIENT: NMPC ONEIDA MGP		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED										Send results to: PARSONS ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088	
PROJECT NAME: RIFS		NOTES - (Reference QAPP and/or analytical protocols to be used): X ANALYZE FOR TOTAL CYANIDE - IF DETECTED RIN FOR AMENABLE										Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: NYTEST					
SAMPLERS: <i>[Signature]</i>																	
FIELD SAMPLE ID:																	
TYPE NUMBER DEPTH CODES / GC IDENTIFIERS		Location Description		Date	Time	GRAB	COMB	No of Bottles	BTEX	PAH	CN	Matrix / Preservative / Remarks					
X X 001 001 - 002		DOWNSTREAM		6/15/95	1405	X		5	X	X	X						
SW-12				6/15/95	1405	X		5	X	X	X	MS SET					
SW-12 MD				6/15/95	1405	X		5	X	X	X	MSD SET					
SW-11		MOUTH OF TAILRACE		6/15/95	1530	X		5	X	X	X						
SW-11 1		ONEIDA CREEK		6/15/95	1530	X		5	X	X	X						
SW-10		UPSTREAM		6/15/95	1630	X		5	X	X	X						
TB-01		TRIP BLANK		6/15/95	1400	X		1	X								
Relinquished by: (Signature) <i>[Signature]</i>		Date: 6/15/95	Time: 1930	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:					

TYPE CODES: SOLID

SD-Sediment
SS-Surface Soil
SB-Subsurface Soil
MW-Monitoring Well Boring

TP-Test Pit/Tank Pit

DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW-Monitoring Well
LC-Leachate
SW-Surface Water
DW-Drill Water
FD-Fuel Dispenser
MH-Manhole
OW-Oil Water Separator
PR-Piping Run

ST-Storm Water
WW-Waste Water
OL-Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB-Field Blank (number each)
TB-Trip Blank (number each)
WB-Wash Blank (number each)

10 0079

TYPE CODES: SOLID		WATER			QUALITY CONTROL	
SD-Sediment	TP-Test Pit/Tank Pit	MW- Monitoring Well	FD- Fuel Dispenser	ST- Storm Water	FB- Field Blank (number each)	
SS-Surface Soil	DR-Drum Waste	LC- Leachate	MH- Manhole	WW- Waste Water	TB- Trip Blank (number each)	
SB-Subsurface Soil	WA-Solid Waste	SW- Surface Water	OW- Oil Water Separator	OL- Other Liquid (eg. Drum liquid)	WB- Wash Blank (number each)	
MW-Monitoring Well Boring	OS-Other Solid (eg. wipe samples, asbestos, etc.)	DW- Drift Water	PR- Piping Run			



(516) 625-5500 FAX: (516) 625-1274

page # : ____ of ____

Ship to: Nytest Environmental Inc.
60 Seaview Blvd
Port Washington N.Y. 11050
Attn.: Sample Control
Date Shipped: 6/20/89
Carrier: FEDEX
Air Bill #: 3000442813
Cooler #: _____
C of C #: 0403A
SDG #: _____
NEI QT #: _____

Comments

5011
218/450 5011
3

Use Only		
	Broken	Absent
Condition? :	Y	N
_____	Degrees Celcius	

CLIENT RETAINS YELLOW COPY ONLY

CHAIN OF CUSTODY RECORD

110 0263

CLIENT: NMPC		PROJECT NO. 726521		PROJECT MGR. GHM		TYPES OF ANALYSES REQUESTED				Send results to: PAPER'S ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088		
PROJECT NAME: ONEIDA RI/FS		NOTES - (Reference QAPP and/or analytical protocols to be used): * ANALYZE FOR TOTAL CYANIDE - IF DETECTED, ADD AMENABLE								Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: MYTEST		
SAMPLERS: <i>[Signature]</i>												
FIELD SAMPLE ID: XX 001 001-002												
TYPE: XX NUMBER: 001 DEPTH CODES / QC IDENTIFIER: 001-002		Location Description		Date	Time	GRAB	COMP	NO OF Bottles	BTEX	PAH	CYANIDE	TOC
SS - 09		B-26, 0-6"		6/19/95	1427	X		2	X	X	X	
SS - 11		On-site, behind main bldg (North) 0-0.5'		6/20/95	1045	X		2	X	X	X	X
SS - 13		On-site, West side of site 0-0.5'		6/20/95	1145	X		2	X	X	X	X
SS - 08		On-site, South side of SS-07 0-0.5'		6/20/95	1215	X		2	X	X	X	
SS - 07		On-site, near N corner 0-0.5'		6/20/95	1400	X		2	X	X	X	X
SS 107		"		6/20/95	1400	X		2	X	X	X	X
SS - 19		North of site off-site 0-0.5'			1515	X		2	X	X	X	X
SS - 18		DPW, SE of P-4 off-site 0-0.5'			1630	X		2	X	X	X	X
SS - 17		off-site to east of site 0-0.5'		✓	1645	X		2	X	X	X	X
Relinquished by: (Signature) <i>[Signature]</i>		Date: 6/20/95	Time: 1830	Received by: (Signature) <i>[Signature]</i>		Date:		Time:	SHIPPED VIA: FEDEX		AIRBILL NO: 3000 442913	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	SHIPPED VIA:		AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	SHIPPED VIA:		AIRBILL NO:	

TYPE CODES:

SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
 DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water
 FD - Fuel Dispenser
 MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water
 WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

CHAIN OF CUSTODY RECORD

110 0262

CLIENT: NMPC		PROJECT NO. 726521		PROJECT MGR. GHM		TYPES OF ANALYSES REQUESTED						Send results to: PARSONS ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: NYTEST			
PROJECT NAME: ONKIDA R/F/S		NOTES - (Reference QAPP and/or analytical protocols to be used): * ANALYZE FOR TOTAL CYANIDE - IF DETECTED ADD AMENABLE													
SAMPLERS: <i>[Signature]</i>															
FIELD SAMPLE ID:															
TYPE	NUMBER	DEPTH CODES / QC IDENTIFIERS				Location Description	Date	Time	GRAB	COMP	NO OF Bottles	BTX	PAH	CN	Matrix / Preservative / Remarks
X X	0 0 1	0 0 1 - 0 0 2													
B-	26F					B-26, 10-12 ft	6/19/95	1453	X		2	X	X	X	Soil
B-	26M					B-26, 24-26 ft	6/19/95	1540	X		2	X	X	X	
B-	10R	E				B-10R, 8-10 ft	6/20/95	0445	X		2	X	X	X	SHLW, ODR, PID 625
B-	10R	Q				B-10R, 32-34 ft	6/20/95	1217	X		2	X	X	X	
B-	3R	03	R	G		B-03R, 9-15 ft	6/20/95	1554	X		2	X	X	X	
B-	3R	03	R	G	M		6/20/95	1554	X		2	X	X	X	MS SET
B-	03R	G	M	D			6/20/95	1554	X		2	X	X	X	MSD SET
B-	03R	I				B-03R, 17-19 ft	6/20/95	1600	X		2	X	X	X	
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:					
		6/20/95	1830					FEDEX		3000442513					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:					

TYPE CODES:

SOLID
SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
mw - Monitoring Well Boring

TP - Test Pit/Tank Pit
DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
LC - Leachate
SW - Surface Water
DW - Drill Water
FD - Fuel Dispenser
MH - Manhole
OW - Oil Water Separator
PR - Piping Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
TB - Trip Blank (number each)
WB - Wash Blank (number each)

CHAIN OF CUSTODY RECORD

№ 064

CLIENT: NMPC		PROJECT NO: 726521, 02002		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED				Send results to: MRS. MRS	
PROJECT NAME: ONEIDA RI/FS		NOTES - (Reference QAPP and/or analytical protocols to be used): X ANALYZE FOR TOTAL CYANIDE - IF DETECTED ADD AVAILABLE				STEX PAH CN⁻ TOC				ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088	
SAMPLERS: <i>Phil A. Jones</i>										Telephone: (315) 451-9560 Fax: (315) 451-9570	
FIELD SAMPLE ID:										Lab Submitted to: NYTEST	
TYPE NUMBER DEPTH CODES / OC IDENTIFIERS										Matrix / Preservative / Remarks	
X X 0 0 1 0 0 1 - 0 0 2											
Location Description		Date		Time		GRAB	COMP	NO OF			
						Bottles					
B- 25 J		6/21/95		1001		X		Z	X	X	X
B- 24 D		6/21/95		1302		X		Z	X	X	X
B- 06 R K		6/21/95		1605		X		Z	X	X	X
B- 106 R K		6/21/95		1605		X		Z	X	X	X
ES 3SE		6/22/95		0905		X		Z	X	X	X
ES 2ED		6/22/95		1130		X		Z	X	X	X
ES 2SF		6/22/95		1137		X		Z	X	X	X
ES - 7E		6/22/95		1455		X		Z	X	X	X
ES - 7G		6/22/95		1505		X		Z	X	X	X
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:	
<i>Phil A. Jones</i>		6/22/95	1900					FED EX		3000442524	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA:		AIRBILL NO:	

TYPE CODES: SOLID

SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit

DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water
 FD - Fuel Dispenser
 MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water

WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

№ 0646

TYPE CODES: SOLID
SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
mw - Monitoring Well Boring

TP-Test Pt/Tank Pt
DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER		
MW- Monitoring Well	FD- Fuel Dispenser	ST- Storm Water
LC- Leachate	MH- Manhole	WW- Waste Water
SW- Surface Water	OW- Oil Water Separator	OL- Other Liquid (eg. Drum liquid)
DW- Drill Water	PR- Piping Run	

QUALITY CONTROL
FB- Field Blank (number each)
TB- Trip Blank (number each)
WB- Wash Blank (number each)

TYPE CODES: SOLID		WATER			QUALITY CONTROL
SD - Sediment	TP - Test Pit/Tank Pit	MW - Monitoring Well	FD - Fuel Dispenser	ST - Storm Water	FB - Field Blank (number each)
SS - Surface Soil	DR - Drum Waste	LC - Leachate	MH - Manhole	WW - Waste Water	TB - Trip Blank (number each)
SB - Subsurface Soil	WA - Solid Waste	SW - Surface Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drum liquid)	WB - Wash Blank (number each)
mw - Monitoring Well Boring	OS - Other Solid (eg. wipe samples, asbestos, etc.)	DW - Drill Water	PR - Piping Run		

№ 0648

TYPE CODES: SOLID
SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
MW - Monitoring Well Boring

TP-Test Pit/Tank Pit
DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER		
MW - Monitoring Well	FD - Fuel Dispenser	ST - Storm Water
LC - Leachate	MH - Manhole	WW - Waste Water
SW - Surface Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drum liquid)
DW - Drill Water	PR - Plain Run	

QUALITY CONTROL
FB- Field Blank (number each)
TB- Trip Blank (number each)
WB- Wash Blank (number each)

lmw/dbma1/chain.wk3

CHAIN OF CUSTODY RECORD

№ 0640

[illegible]

TYPE CODES: SOLID
SD-Sediment
SS-Surface Soil
SB-Subsurface Soil
mw-Monitoring Well Boring

TP - Test Pit/Tank Pit
DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER	
MW- Monitoring Well	FD- Fuel Dispenser
LC- Leachate	MH- Manhole
SW- Surface Water	OW- Oil Water Separator
DW- Drill Water	PR- Piping Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL
 FB- Field Blank (number each)
 TB- Trip Blank (number each)
 WB- Wash Blank (number each)

No. 6649
Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

№ 0639

TYPE CODES:					QUALITY CONTROL
SOLID		WATER			
SD - Sediment	TP - Test Pit/Tank Pit	MW - Monitoring Well	FD - Fuel Dispenser	ST - Storm Water	FB - Field Blank (number each)
SS - Surface Soil	DR - Drum Waste	LC - Leachate	MH - Manhole	WW - Waste Water	TB - Trip Blank (number each)
SB - Subsurface Soil	WA - Solid Waste	SW - Surface Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drum liquid)	WB - Wash Blank (number each)
MW - Monitoring Well Boring	OS - Other Solid (eg. wipe samples, asbestos, etc.)	DW - Drill Water	PR - Piping Run		

№ 0632

TYPE CODES: SOLID		WATER			QUALITY CONTROL
SD - Sediment	TP - Test Pit/Tank Pit	MW - Monitoring Well	FD - Fuel Dispenser	ST - Storm Water	FB - Field Blank (number each)
SS - Surface Soil	DR - Drum Waste	LC - Leachate	MH - Manhole	WW - Waste Water	TB - Trip Blank (number each)
SB - Subsurface Soil	WA - Solid Waste	SW - Surface Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drum liquid)	WB - Wash Blank (number each)
mw - Monitoring Well Boring	OS - Other Solid (eg. wipe samples, asbestos, etc.)	DW - Drill Water	PR - Piping Run		

№ 065

TYPE CODES: SOLID

TP- Test Pit/Tank Pit
DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

MW- Monitoring Well
LC- Leachate
SW- Surface Water
DW- Drill Water

FD- Fuel Dispenser
MH- Manhole
OW- Oil Water Separator
PR- Piping Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

FB- Field Blank (number each)
TB- Trip Blank (number each)
WB- Wash Blank (number each)

CHAIN OF CUSTODY RECORD

№ 065

CLIENT: NMPC - Oncida		PROJECT NO. 726521.02003		PROJECT MGR: GMM		TYPES OF ANALYSES REQUESTED										Send results to: PARSON'S ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: Nytest Environmental	
PROJECT NAME: R1 \ FS		NOTES - (Reference QAPP and/or analytical protocols to be used): SEDIMENT SAMPLES															
SAMPLERS: PMH																	
FIELD SAMPLE ID:																	
TYPE NUMBER DEPTH CODES / GC IDENTIFIER		Location Description		Date	Time	GRAB	COMP	No of Bottles	BTEX	PAH	CN	TOC	Matrix / Preservative / Remarks				
X	X	0	0	1	0	0	1	-	0	0	2						
SE	D18	A	Tailrace creek Sedim. Sample 0-6"		6/27/95	1010	X		2	✓	1			SEDIMENT			
SE	D11	8	SAA 0-6"		"	1040	X		2	1	1			*Run A-CN			
SE	D18	M	SAA 0-6"		"	1025	X		2	1	1			if T-CN			
SE	D18	MD	SAA 0-6"		"	1025	X		2	1	1			is detected.			
SE	D18	B	Sed. Sample 18 2-2.5'		"	1130	X		2	1	1						
SE	D19	A	Tailrace creek Sed. Sample 0-6"		"	1420	X		2	1	1						
SE	D19	B	SAA 6"-1.0'		"	1435	X		2	1	1						
SE	D19	C	SAA 2-3.0'		"	1500	X		2	1	1						
SE	D20	A	Tailrace creek Sedim. Sample 0-6"		"	1600	X		2	1	1						
Relinquished by: (Signature) Pete M. Hamlett		Date: 6/27/95	Time: 1700	Received by: (Signature)		Date:		Time:	SHIPPED VIA: FEDEX		AIRBILL NO: 3000442522						
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	SHIPPED VIA:		AIRBILL NO:						
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:	SHIPPED VIA:		AIRBILL NO:						

TYPE CODES:

S0 - Sediment
S1 - Surface Soil
S2 - Subsurface Soil
MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
DW - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
LC - Leachate
SW - Surface Water
DW - Drill Water
FD - Fuel Dispenser
MH - Manhole
OW - Oil Water Separator
PR - Piping Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
TB - Trip Blank (number each)
WB - Wash Blank (number each)

№ 0650
Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

CHAIN OF STUDY RECORD

Nº U63

CLIENT: Pursons ES		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED		Send results to:	
PROJECT NAME: NMPC - Onco - Dredge Spills		NOTES - (Reference QAPP and/or analytical protocols to be used): Samples packed on Ice Shipped VIA FedEx						ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088	
SAMPLERS: Eric A. Felter								Telephone: (315) 451-9580 Fax: (315) 451-9570	
FIELD SAMPLE ID:								Lab Submitted to: NHTEST	
TYPE NUMBER DEPTH CODES / GC IDENTIFIERS		Location Description		Date	Time	GRAB	COMP	No of Bottles	Matrix / Preservative / Remarks
X	X	001	001	002					
SB	17		SB 17 2.0-3.5' bgs	6/24/95	0920	X		3	2
SB	17M					X		3	2
SB	17M	D				X		3	2
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA: AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA: AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	SHIPPED VIA: AIRBILL NO:	

TYPE CODES:

SOLID
SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
mw - Monitoring Well Boring

TP - Test Pit/Tank Pit
DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
LC - Leachate
SW - Surface Water
DW - Drill Water
FD - Fuel Dispenser
MH - Manhole
OW - Oil Water Separator
PR - Piping Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
TB - Trip Blank (number each)
WB - Wash Blank (number each)

Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbme1/chain.wk3

№ 063

TYPE CODES: SOLID
SD - Sediment
SS - Surface Soil
SB - Subsurface Soil
MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER	
MW- Monitoring Well	FD- Fuel Dispenser
LC- Leachate	MH- Manhole
SW- Surface Water	OW- Oil Water Separator
DW- Drill Water	PR- Piling Run

ST - Storm Water
WW - Waste Water
OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL
 FB- Field Blank (number each)
 TB- Trip Blank (number each)
 WB- Wash Blank (number each)

10.655
Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

CHAIN OF CUSTODY RECORD

No 063

PROJECT NAME: NMPC Oneida Oneida SAMPLERS: Pete Hart FIELD SAMPLE ID: TYPE NUMBER DEPTH CODES / GC IDENTIFIERS X X 0 0 1 0 0 1 - 0 0 2		PROJECT NO.: 726521 PROJECT MGR.: GHM NOTES - (Reference QAPP and/or analytical protocols to be used): Wash blanks + trip blank		TYPES OF ANALYSES REQUESTED PAH - CU - BTEX				Send results to: ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9580 Fax: (315) 451-9570 Lab Submitted to: NYTEST Environmental Matrix / Preservative / Remarks					
		Location Description	Date	Time	GRAB	COMP	No of Bottles						
FB 02		Wash blanks for sediment samples	6/29/95	165			5	2	1	2			DI water
TB 03		Trip blank for sediment samples	"	1610			1		1				
Relinquished by: (Signature) Pete Hart		Date: 6/29/95	Time: 1700	Received by: (Signature)		Date:		Time:		SHIPPED VIA: FEDEX 3000442546		AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:	

TYPE CODES: SOLID
 SD-Sediment
 SS-Surface Soil
 SB-Subsurface Soil
 MW-Monitoring Well Boring

TP-Test Pit/Tank Pit
 DR-Drum Waste
 WA-Solid Waste
 OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER
 MW-Monitoring Well
 LC-Leachate
 SW-Surface Water
 DW-Drill Water
 FD-Fuel Dispenser
 MH-Manhole
 OW-Oil Water Separator
 PR-Piping Run

ST-Storm Water
 WW-Waste Water
 OL-Other Liquid (eg. Drum liquid)

QUALITY CONTROL
 FB-Field Blank (number each)
 TB-Trip Blank (number each)
 WB-Wash Blank (number each)

Engineering-Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

№ 065

TYPE CODES: SOLID
SD-Sediment
SS-Surface Soil
SB-Subsurface Soil
mw-Monitoring Well Boring

TP- Test Pit/Tank Pit
DR-Drum Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER	
MW- Monitoring Well	FD- Fuel Dispenser
LC- Leachate	MH- Manhole
SW- Surface Water	OW- Oil Water Separator
DW- Drill Water	PR- Piping Run

ST- Storm Water
WW- Waste Water
OL- Other Liquid (eg. Drum Liquid)

QUALITY CONTROL
 FB- Field Blank (number each)
 TB- Trip Blank (number each)
 WB- Wash Blank (number each)

CHAIN OF CUSTODY RECORD

N2 U63

CLIENT: NMPC		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED										Send results to:			
PROJECT NAME: Oneida		NOTES - (Reference QAPP and/or analytical protocols to be used): Run A-CN⁻ if T-CN⁻ is detected										BTEX PAH, CN⁻		ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088					
SAMPLERS: NAS														Telephone: (315) 451-9580 Fax: (315) 451-9570 Lab Submitted to:					
FIELD SAMPLE ID:														Matrix / Preservative / Remarks					
<table border="1"> <tr> <th>TYPE</th> <th>NUMBER</th> <th>DEPTH CODES / QC IDENTIFIERS</th> </tr> <tr> <td>X</td> <td>X</td> <td>001001-002</td> </tr> </table>																TYPE	NUMBER	DEPTH CODES / QC IDENTIFIERS	X
TYPE	NUMBER	DEPTH CODES / QC IDENTIFIERS																	
X	X	001001-002																	
Location Description			Date	Time	GRAB	COMP	NO OF Bottles												
ES 10E			Soil borings, South of bldg. 6-10.0'	6/30/95	1110	X	2	1	1							Soil Samples			
ES 110E			11	"	"	X	2	1	1										
Not Inquired by: (Signature)			Date:	Time:	Received by: (Signature)			Date:	Time:	SHIPPED VIA:			AIRBILL NO:						
J. E. Hunt			6/30/95	1235						FEDEX			300042550						
Not Inquired by: (Signature)			Date:	Time:	Received by: (Signature)			Date:	Time:	SHIPPED VIA:			AIRBILL NO:						
Not Inquired by: (Signature)			Date:	Time:	Received by: (Signature)			Date:	Time:	SHIPPED VIA:			AIRBILL NO:						

TYPE CODES:

SOLID
 SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
 DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water
 FD - Fuel Dispenser
 MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water
 WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

CHAIN OF CUSTODY RECORD

Nº 0636

CLIENT: NMPC		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED										Send results to: ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088		
PROJECT NAME: ONEIDA		NOTES - (Reference QAPP and/or analytical protocols to be used): Run A-CN if T-CN is detected										Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to:						
SAMPLERS: Pete Huth																		
FIELD SAMPLE ID: X X 0 0 1 0 0 1 - 0 0 2		Location Description		Date	Time	GRAB	COMP	NO OF Bottles	Matrix / Preservative / Remarks									
TYPE NUMBER DEPTH CODES / OC IDENTIFIER																		
SE D23 B		Sediments, tailrace creek 3.0-3.5'		6/30/95	0930	X		2	SEDIMENTS									
SE D23 B (M)		" (M)		"	0930	X		2										
SE D23 B MO		" (MO)		"	0930	X		2										
SE D12 3B		Sediments, tailrace creek, 3.0-3.5'		"	0930	X		2										
SE D24 B		Sediments, tailrace creek, 2.5-3.0'		"	1030	X		2										
Relinquished by: (Signature) Pete Huth		Date: 6/30/95	Time: 1235	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:						
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:						
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:						

TYPE CODES: SOLID

SO - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
 DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water

FD - Fuel Dispenser
 MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water
 WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

CHAIN OF CUSTODY RECORD

Nº 0653

CLIENT: NMPC		PROJECT NO: 726521		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED		Send results to:	
PROJECT NAME: ONEIDA		NOTES: - Reference OAPP and/or analytical protocols to be used: Run A-CN if T-CN is detected				RTX PAH, CN + TOC		ENGINEERING-SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088	
SAMPLERS: Pete Harth								Telephone: (315) 451-9540 Fax: (315) 451-9570 Lab Submitted to: MYTEST Environm.	
FIELD SAMPLE ID:								Matrix / Preservative / Remarks	
TYPE: X X 0 0 1 0 0 1 - 0 0 2		Location Description		Date	Time	GRAB	COMB	# of Bottles	
SE D20 B		TALAKE CREEK 6"-1.0' depth		6/28/95	0950	X		2	1
SE D20 C		1.5-2.0' depth		"	1010	X		2	1
SE D20 D		3-3.5' depth		"	1030	X		2	1
SE D21 A		Tailrace Creek 0-6"		"	1130	X		2	1
SE D21 B		6"-1.0'		"	1200	X		2	1
SE D21 C		3-3.5'		"	1230	X		2	1
SE D22 A		0-6"		"	1500	X		2	1
SE D23 A		0-6"		"	1530	X		2	1
SE D24 A		0-6"		"	1630	X		2	1
SE D25 A		0-6"		6/29/95	0930	X		2	1
SE D26 A		0-6"		"	1030	X		2	1
SE D27 A		0-6" / Drainage Synthetic Tailrace Creek		"	1325	X		2	1
Subsampled by: (Signature) Pete M. Harth		Date: 6/29/95 Time: 1630		Received by: (Signature) R. Lewis		Date: 6/30/95 Time: 0945		SHIPPED FOR: NYTEST 3000442546	
Subsampled by: (Signature)		Date: Time:		Received by: (Signature)		Date: Time:		SHIPPED FOR: ANALYST NO:	
Subsampled by: (Signature)		Date: Time:		Received by: (Signature)		Date: Time:		SHIPPED FOR: ANALYST NO:	

TYPE CODES: SOLID

SD-Sediment
SS-Surface Soil
SB-Subsurface Soil
SW-Monitoring Well Boring

TP-Test Pit/Tank Pit
OW-Open Waste
WA-Solid Waste
OS-Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW-Monitoring Well
LC-Leachate
SW-Surface Water
OW-Drill Water

FD-Fuel Dispenser
MH-Manhole
OW-Oil Water Separator
PR-Piping Run

QUALITY CONTROL

FB-Field Blank (number each)
TB-Trip Blank (number each)
WB-Wash Blank (number each)

NO. 0653
Engineering - Science, Inc.

Revised: 17-Jan-94

cooler temp 4°C
(PP)

Enviro/Sci Inc 1/chain/93

FROM

7.10.1995 15:52

P. 5

CHAIN OF CUSTODY RECORD

[illegible]

QUALITY CONTROL

core temp 4°C

WATER

LC - Leachate	FD - Fuel Dispenser	BT - Storm Water
SW - Surface Water	MT - Metals	WW - Wastewater
OW - Oil Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drums Liquid)
	PR - Piping Run	

TP - Test paper (see PG)
 DP - Dyein Tablets
 WA - White Tablets
 OS - Other Solid (eg. dye samples, adhesives, etc.)

SCS
SO - Sediment
SS - Surface Soil
SP - Substrate Soil
SW - Substrate Water

TYPE CODES: 8010

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Each order

Question - Answering

Flotboot 17-Jan-64

Engineering - Bolanca, Inc.

№ 0654

TYPE CODES: SOLID		WATER			QUALITY CONTROL
SD - Sediment	TP - Test Pit/Tank Pit	MW - Monitoring Well	FD - Fuel Dispenser	ST - Storm Water	FB - Field Blank (number each)
SS - Surface Soil	DR - Drum Waste	LC - Leachate	MH - Manhole	WW - Waste Water	TB - Trip Blank (number each)
SB - Subsurface Soil	WA - Solid Waste	SW - Surface Water	OW - Oil Water Separator	OL - Other Liquid (eg. Drum liquid)	WB - Wash Blank (number each)
MW - Monitoring Well Boring	OS - Other Solid (eg. wipe samples, asbestos, etc.)	DW - Drill Water	PR - Piping Run		

lmw/dbms1/chain.wk3

№ 0655

TYPE CODES:					QUALITY CONTROL
SOLID			WATER		
SD-Sediment	TP-Test Pit/Tank Pit	MW-Monitoring Well	FD-Fuel Dispenser	ST-Storm Water	FB-Field Blank (number each)
SS-Surface Soil	DR-Drum Waste	LC-Leachate	MH-Manhole	WW-Waste Water	TB-Trip Blank (number each)
SB-Subsurface Soil	WA-Solid Waste	SW-Surface Water	OW-Oil Water Separator	OL-Other Liquid (eg. Drum liquid)	WB-Wash Blank (number each)
mw-Monitoring Well Boring	OS-Other Solid (eg. wipe samples, asbestos, etc.)	DW-Drill Water	PR-Piping Run		

CHAIN OF CUSTODY RECORD

Nº 0704

CLIENT: NMPC		PROJECT NO: 726521.02003		PROJECT MGR: CHM		TYPES OF ANALYSES REQUESTED										Send results to:			
PROJECT NAME: Onaido		NOTES - (Reference QAPP and/or analytical protocols to be used): 1st Groundwater Round (TCL/TAL + CONVENTIONALS)				TCL UCH TCL SUCIT TCL Test/PCBs TAL Metals + Cu Conventional K ⁺ , Na ⁺ , Mg ²⁺ + Hardness NO ₃ , NO ₂ , NH ₄ , COD, TOC Sulfide										ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: Nytest Environmental			
SAMPLERS: NAC, CRT, Kump		FIELD SAMPLE ID: 001001-002														Matrix / Preservative / Remarks			
TYPE NUMBER DEPTH CODES / OC IDENTIFIERS		Location Description		Date	Time	GRAB	COMP	No of Bottles											
X X 0 0 1 0 0 1 - 0 0 2		ES - 10		7/25/95	1240	✓		13	2	2	2	2	2	2	1	1	1	* If T-Cn is detected, run another A-Cn.	
ES 10S		ES - 10S		7/25/95	1140	✓		13	2	2	2	2	2	2	1	1	1		
TB 04		Trip from Lab		7/25/95	1130			2	2									Trip Blank	
ES 04S		ES - 04S		7/25/95	1520	✓		8	2	2	2	2							
ES 04		ES - 4		7/25/95	1535	✓		8	2	2	2	2							
ES 08		ES - 8		7/25/95	1605	✓		8	2	2	2	2							
Relinquished by: (Signature) <i>[Signature]</i>		Date: 07/25/95	Time:	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:							
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:							
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Date:	Time:	SHIPPED VIA:		AIRBILL NO:							

TYPE CODES: SOLID

SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit

DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water

FD - Fuel Dispenser

MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water

WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

NO. 0704
 Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbma1/chain.wk3

CHAIN OF CUSTODY RECORD

CLIENT: NMPC		PROJECT NO: 726921.02003		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED								Send results to: PARSONS ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088 Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: NYTEST																									
PROJECT NAME: ONEIDA MGP RI/FS		NOTES - (Reference QAPP and/or analytical protocols to be used): groundwater / B40 IF TOTAL CN DETECTED, ADD AMPLABLE X 5 Coolers																																					
SAMPLERS: NBS, CRT, KWH		FIELD SAMPLE ID: X X 0 0 1 0 0 1 - 0 0 2																																					
		TYPE		NUMBER		DEPTH CODES / QC IDENTIFIERS		Location Description		Date		Time		GRAB		COMP		NO OF		BOTTLES		TCLVDA		TCL SDA, PEST PCB		TAL MEANS, CN		NITRATE, COD, TOC		OIL & GREASE, ALK, PH		K ⁺ , Na ⁺ , Mg ⁺ , HARD		SULFIDE, SULFATE, TDS		CHLORIDE, CARBONATE, BOD5		Matrix / Preservative / Remarks	
TB - 05								TRIP BLANK #5		7/26/95		900				2		2																		TRIP BLANK WATER			
ES - 11								ES-11		7/26/95		905		X		8		2		4		2																	
ES - 12								ES-12		7/26/95		845		X		8		2		4		2																	
ES - 13								ES-13		7/26/95		1030		X		8		2		4		2		KHP		KHP		KHP		KHP		KHP		KHP		NO CONVENTIONALS			
ES - 05								ES-5		7/26/95		1320		X		8		2		4		2		1		1		1						HMS CONVENTIONALS					
ES - 06								ES-6		7/26/95		1400		X		8		2		4		2																	
ES - 01								ES-1		7/26/95		1130		X		8		2		4		2																	
ES - 03 S								ES-3S		7/26/95		1620		X		8		2		4		2																	
ES - 03 S m								ES-3S m		7/26/95		1620		X		8		2		4		2												HMS					
ES - 03 S m D								ES-3S m D		7/26/95		1620		X		8		2		4		2												HMSD					
Not Released by (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:																									
[Signature]		7/26/95		1815								FEDEX		4844461144																									
Not Released by (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:																									
Not Released by (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:																									

TYPE CODES: SOLID SD - Sediment SS - Surface Soil SB - Subsurface Soil mW - Monitoring Well Boring	WATER MW - Monitoring Well LC - Leachate SW - Surface Water DW - Drill Water	QUALITY CONTROL FB - Field Blank (number each) TB - Trip Blank (number each) WB - Wash Blank (number each)
TP - Test Pit/Tank Pit DR - Drum Waste WA - Solid Waste OS - Other Solid (eg. wipe samples, asbestos, etc.)	FD - Fuel Dispenser MH - Manhole OW - Oil Water Separator PR - Piping Run	BT - Storm Water WW - Waste Water OL - Other Liquid (eg. Drum liquid)

No. 0705
Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

CHAIN OF CUSTODY RECORD

No 0706

CLIENT: NmPC		PROJECT NO: 72651.02003		PROJECT MGR: GMM		TYPES OF ANALYSES REQUESTED										Send results to: Person ES				
PROJECT NAME: Oneida RI/ES		NOTES - (Reference QAPP and/or analytical protocols to be used): groundwater Samples - 3 coolers SW846				TEL VCH TEL SUCH TEST PCB Metals, CN Nitrate, Nitrite, Cor. Tot. Hg, Pb, Cu, Ni, Fe, Mn TDS, BODs, P, Alkalinity Sulfide, Chloride, Conductivity Oil & Grease Solids										ENGINEERING - SCIENCE, INC. 290 Elwood Davis Road Liverpool, NY 13088				
SAMPLERS: CRT, NAS, KHM		FIELD SAMPLE ID: XX001001-002														Telephone: (315) 451-9560 Fax: (315) 451-9570 Lab Submitted to: NYTEST				
TYPE CODES: NUMBER DEPTH CODES / OC IDENTIFIERS		Location Description		Date	Time	GRAB	COMP	No of Bottles											Matrix / Preservative / Remarks	
ES-7		ES-7		7/27/95	825	X		13	2	2	2	2	1	1	1	2				
ES-2		ES-2		7/27/95	1045	X		13	2	2	2	2	1	1	1	2				
ES-1025		ES-1025		7/27/95	1000	X		8	2	2	2	2					Dup. of SHEEN			
ES-3		ES-3		7/27/95	1325	X		8	2	2	2	2					SHEEN			
TB03		TB03		7/27/95	1420	X		8	2	2	2	2					FIELD BLANK			
TB06		TB06		7/27/95	815	X		2	2								TRIP BLANK			
ES-25		ES-25		7/27/95	1000	X		8	2	2	2	2					SHEEN			
				60 bottles total for this OC																
Relinquished by: (Signature) CRT mll		Date: 7/27/95	Time: 1700	Received by: (Signature) Felix		Date:		Time:		SHIPPED VIA: FEDEX		AIRBILL NO: 484461133								
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO:								
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:		Time:		SHIPPED VIA:		AIRBILL NO: 5870226095								

TYPE CODES: SOLID

SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit

DR - Drum Waste

WA - Solid Waste

OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well

LC - Leachate

SW - Surface Water

DW - Drill Water

FD - Fuel Dispenser

MH - Manhole

OW - Oil Water Separator

PR - Piping Run

ST - Storm Water

WW - Waste Water

OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)

TB - Trip Blank (number each)

WB - Wash Blank (number each)

No. 0706

Engineering - Science, Inc.

Revised: 17-Jan-94

lmw/dbms1/chain.wk3

CHAIN OF CUSTODY RECORD

NO: 1001

PROJECT NO. 726521.02003		PROJECT MGR. GHM		TYPES OF ANALYSES REQUESTED										Send results to: PARSONS ENGINEERING SCIENCE, INC 290 Elwood Davis Road-Suite 312 Liverpool, NY 13088 Telephone: (315) 451-9580 Fax: (315) 451-9570 Lab Submitted to: NyTest							
PROJECT NAME		NOTES - (Reference CAPP and/or analytical protocols to be used):																			
FIELD SAMPLE ID: 001 001-002		Location Description		Date	Time	GRAB	COMB	No of Bottles	BTEX	PAH	CN	Matrix / Preservative / Remarks									
ES-3S		12/7/95		1045	1		5	✓	✓	✓											
Trip Blank		11/29/95		—			2	✓			Trip Blank										
ES-5		12/7/95		1110	✓		5	✓	✓	✓											
ES-11		12/7/95		1230	✓		5	✓	✓	✓											
ES-6		12/7/95		1245	✓		5	✓	✓	✓											
ANAL ES-13		12/7/95		1300	✓		5	✓	✓	✓											
" MS		↓		1300	✓	DSH	✓	✓	✓												
" MSD		↓		1300	✓	DSH	✓	✓	✓												
ES12		12/7/95		1315	✓		5	✓	✓	✓											
Field Blank		12/7/95		1325	✓		5	✓	✓	✓	Field Blank										
A. Walsgall		12/7/95		1600	Shipped via:		Airbill #:		Received by: (Signature)		Date:		Time:		Cooler Temp: °C		Samples Intact				
																	Yes No				
																	Yes No				
																	Yes No				

TYPE CODES: SOLID

SD - Sediment
 SS - Surface Soil
 SB - Subsurface Soil
 MW - Monitoring Well Boring

TP - Test Pit/Tank Pit
 DR - Drum Waste
 WA - Solid Waste
 OS - Other Solid (eg. wipe samples, asbestos, etc.)

WATER

MW - Monitoring Well
 LC - Leachate
 SW - Surface Water
 DW - Drill Water

FD - Fuel Dispenser
 MH - Manhole
 OW - Oil Water Separator
 PR - Piping Run

ST - Storm Water
 WW - Waste Water
 OL - Other Liquid (eg. Drum liquid)

QUALITY CONTROL

FB - Field Blank (number each)
 TB - Trip Blank (number each)
 WB - Wash Blank (number each)

NO: 1001

NO: 1002

CLIENT: HMPC - Oncida		PROJECT NO: 726521.02003		PROJECT MGR: GHM		TYPES OF ANALYSES REQUESTED										Send results to: PARSONS ENGINEERING SCIENCE, INC 290 Elwood Davis Road - Suite 312 Liverpool, NY 13088	
PROJECT NAME: Sampling - Dec. 95		NOTES - (Reference QAPP and/or analytical protocols to be used):										Telephone: (315) 451-9560		Fax: (315) 451-9570			
SAMPLERS: TAW Rwy												Lab Submitted to: NYTEST					
FIELD SAMPLE ID: XX 001 001-002																	
TYPE NUMBER DEPTH CODES / QC IDENTIFIER																	
Location Description		Date		Time		GRAB COMP		No of Bottles		BTX PAH Cyanide		Matrix / Preservative / Remarks					
ES-10S		12/7/95		0805		J		S		J J J							
ES-10				0810		J		S		J J J							
ES-4S				0840		J		S		J J J							
ES-4				0835		J		S		J J J							
ES-8				0900		J		S		J J J							
ES-3				0900		J		S		J J J		Dup of MWESB					
ES-1				0935		J		S		J J J							
ES-7				0950		J		S		J J J							
ES-2				1030		J		S		J J J							
ES-2S				1000		J		S		J J J							
ES-3				1040		J		S		J J J							
Shipped by: A. Watzgabl		Date: 12/7/95		Time: 1600		Shipped via:		Airbill #:		Received by: (Signature)		Date:		Time:		Cooler Temp: °C Samples Intact Yes No	
Shipped by: A. Watzgabl		Date:		Time:		Shipped via:		Airbill #:		Received by: (Signature)		Date:		Time:		Cooler Temp: °C Samples Intact Yes No	
Shipped by: A. Watzgabl		Date:		Time:		Shipped via:		Airbill #:		Received by: (Signature)		Date:		Time:		Cooler Temp: °C Samples Intact Yes No	

WELL CODES: **SOLID**
SD—Sediment
SS—Surface Soil
SB—Subsurface Soil
MW—Monitoring Well Boring

TP - Test Pit/Tank Pit
DR - Drum Waste
WA - Solid Waste
OS - Other Solid (eg. wipe samples, asbestos, etc.)

ST- Storm Water
WW- Wasta Water
OL- Other Liquid (eg. Drum liquid)

QUALITY CONTROL
FB- Field Blank (number each)
TB- Trip Blank (number each)
WB- Wash Blank (number each)

NO. 1002

APPENDIX K

DATA VALIDATION PACKAGES

PARSONS ENGINEERING SCIENCE, INC.

PARESSYR01\VOL1:WP\726521.03\26521R14.WW6
April 10, 1997/1:55 PM

DATA VALIDATION REPORT

Prepared for
NIAGARA MOHAWK POWER CORPORATION
ONEIDA - FISH STUDY

Prepared by
PARSONS ENGINEERING SCIENCE, INC.
290 ELWOOD DAVIS ROAD
LIVERPOOL, NEW YORK 13088

Approved by: M. Kosciwicz
(Parsons ES QA Officer)

Maryanne Kosciwicz
(Signature)

1/4/96
(Date)

Approved by: G.H. Moreau
(Parsons ES Project Manager)

G.H. Moreau
(Signature)

1/23/96
(Date)

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LIST OF ATTACHMENTS

ATTACHMENT A VALIDATED LABORATORY DATA

SECTION 1

DATA VALIDATION SUMMARY

Fish samples were collected from the Oneida site in Oneida, New York on October 26, 1995. Analytical results from these samples were validated and reviewed by Parsons Engineering Science, Inc. (Parsons ES) for usability with respect to the following requirements:

- Quality Assurance Project Plan (QAPjP),
- NYSDEC Analytical Services Protocol (ASP) dated September 1989 with December 1991 and September 1993 revisions, and
- USEPA Region II Standard Operating Procedures (SOP) in "CLP Organics Data Review and Preliminary Review," SOP No. HW-6, Revision #8, January 1992, and "Evaluation of Metals Data for the CLP Based on SOW 3/90," SOP No. HW-2, Revision #11, January 1992.

The analytical laboratory for this project was Hazleton Environmental Services, Inc. (HES). This laboratory is certified by the New York State Department of Health under the Environmental Laboratory Approval Program (ELAP) to perform analyses in accordance with the NYSDEC ASP, dated September 1989 with December 1991 and September 1993 revisions.

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons ES, was 45 days for the fish samples.

The data packages received from HES were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation reports which are summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

Fish samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at HES within five days of sampling. All samples were received intact and in good condition at HES.

1.3 LABORATORY ANALYTICAL METHODS

Fish samples were collected from the Oneida site and analyzed for polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and metals. A summary of issues concerning the laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method in

Section 2. The laboratory data were reviewed and qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented by SDG in Attachment A.

1.3.1 PAH Analysis

The fish samples collected from the Oneida site for PAHs were analyzed using the NYSDEC ASP 8310 analytical method. None of the PAH results were qualified as estimated due to noncompliances. All of the PAH data were considered usable and 100% complete for the fish samples presented by HES and PARCC requirements were met overall.

1.3.2 PCB Analysis

The fish samples collected from the Oneida site for PCBs were analyzed using the NYSDEC ASP 8080 analytical method. Certain reported results for the PCB samples were qualified as estimated due to noncompliant sample surrogate recoveries. All of the PCB data were considered usable and 100% complete for the fish samples presented by HES and PARCC requirements were met overall.

1.3.3 Metals

The fish samples collected from the Oneida site for metals were analyzed using analytical methods specified in the NYSDEC ASP. Certain reported arsenic results were qualified as estimated due to noncompliant analytical spike recoveries. All of the metals data were considered usable and 100% complete for the fish samples presented by HES and PARCC requirements were met overall.

SECTION 2

DATA VALIDATION REPORTS

2.1 FISH STUDY

Data review has been completed for data packages generated by HES containing fish samples collected from the Oneida site. The specific samples, the analyses performed, and a usability summary are presented in Table 2.1-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs and the NYSDEC ASP for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 PAHs

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the PAH analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Matrix spike blank (MSB) recoveries
- Laboratory method blank contamination
- Sample result verification and identification
- Initial and continuing calibrations
- Retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for fish sample RB2. All of the relative percent difference (RPD) and spike recoveries (%R) were within QC limits with the exception of the low MSD recovery for phenanthrene (34%; QC limit 49-111%) and

TABLE 2.1-1
SUMMARY OF SAMPLE ANALYSES AND USABILITY

ONEIDA

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLE DATE</u>	<u>PAHs</u>	<u>PCBs</u>	<u>METALS</u>
RB1	Fish	10/26/95	OK	OK	OK
RB2	Fish	10/26/95	OK	OK	OK
RB3	Fish	10/26/95	OK	OK	OK
YP1	Fish	10/26/95	OK	OK	OK
YP2	Fish	10/26/95	OK	OK	OK
YP3	Fish	10/26/95	OK	OK	OK
WS1	Fish	10/26/95	OK	OK	OK
WS2	Fish	10/26/95	OK	OK	OK
WS3	Fish	10/26/95	OK	OK	OK
FF2	Fish	10/26/95	OK	OK	OK
FF3	Fish	10/26/95	OK	OK	OK

NOTES: OK - Sample analysis considered valid and usable.

the RPDs for phenanthrene, anthracene, pyrene, and chrysene (44.1 %, 22.2 %, 24.5 %, and 21.1 %, respectively). Validation qualification was not warranted since all surrogate recoveries were acceptable and within criteria for the unspiked sample RB2. Therefore, there were no interferences resulting from matrix effects on sample RB2.

Usability

All PAH sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PAH data package presented by HES was 100% complete and all data were considered usable and valid. The validated semivolatile laboratory data are tabulated and presented in Attachment A.

2.1.2 PCBs

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Matrix spike blank (MSB) recoveries
- Laboratory method blank contamination
- Sample result verification and identification
- Initial and continuing calibrations
- Analytical sequence
- Cleanup efficiency
- Chromatogram quality
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries.

Surrogate Recoveries

Recoveries of sample surrogates were compliant and within QC advisory limits with the exception of the high decachlorobiphenyl recovery for YP-3 (201%). Therefore, positive PCB results for this sample were considered estimated and qualified "J" due to this noncompliance.

Usability

All PCB sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PCB data packages presented by HES were 100% complete and all PCB data were considered usable and valid. The validated PCB data are tabulated and presented in Attachment A.

2.1.3 Metals

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the metals analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration and laboratory preparation blank contamination
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample
- ICP serial dilution
- Furnace atomic absorption (AA) analysis
- Method of standard additions
- Sample result verification and identification
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of furnace AA analysis.

Furnace AA Analysis

The furnace AA analysis was performed on furnace metals arsenic and lead. All duplicate injections agreed within 20% RSD or Coefficient of Variation (CV) for concentrations greater than the contract required detection limit (CRDL) and analytical spike recoveries were within the 85-115% control limits with the exception of those spike recoveries for AA metals summarized in Table 2.1.3-1. For these AA metals where analytical spike recoveries were less than 85%, sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

TABLE 2.1.3-1
METALS AA ANALYTICAL SPIKE RECOVERY OUTLIERS
ONEIDA

<u>AA ANALYTE</u>	<u>SPIKE RECOVERY (%)</u>	<u>AFFECTED SAMPLES</u>
Arsenic	45.4	RB1
	45.7	RB2
	41.5	RB3
	50.5	YP1
	47.4	WS1
	53.2	WS2
	48.4	WS3
	52.4	FF2
	50.3	FF3

Usability

All metals sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The metals data package presented by HES was 100% complete and all data were considered valid and usable. The validated metals laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A
VALIDATED LABORATORY DATA

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED ONEIDA CREEK FISH SAMPLING SDG: HES001		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	RB1 51100008 HAZELTON HES001 TISSUE 10/26/95 1/04/96	RB2 51100009 HAZELTON HES001 TISSUE 10/26/95 1/04/96	RB3 51100012 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP1 51100013 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP2 51100016 HAZELTON HES001 TISSUE 10/26/95 1/04/96	YP3 51100017 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS1 51100018 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS2 51100019 HAZELTON HES001 TISSUE 10/26/95 1/04/96	WS3 51100022 HAZELTON HES001 TISSUE 10/26/95 1/04/96	FF2 51100024 HAZELTON HES001 TISSUE 10/26/95 1/04/96	FF3 51100023 HAZELTON HES001 TISSUE 10/26/95 1/04/96
CAS NO.	COMPOUND												
SEMI-VOLATILES													
91-20-3	Naphthalene	UG/KG	200 U	100 U	100 U	100 U	100 U	200 U	100 U	100 U	100 U	100 U	100 U
206-96-8	Acenaphthylene	UG/KG	250 U	120 U	120 U	120 U	120 U	250 U	130 U	120 U	120 U	130 U	120 U
83-32-9	Acenaphthene	UG/KG	100 U	50 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
86-73-7	Fluorene	UG/KG	20 U	11	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
85-01-8	Phenanthrene	UG/KG	23	19	5 U	5 U	5 U	10 U	14	5 U	5 U	5 U	5 U
120-12-7	Anthracene	UG/KG	15 U	7.5 U	7.5 U	7.5 U	7.5 U	15 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
206-44-0	Fluoranthene	UG/KG	15 U	7.8	7.5 U	7.5 U	7.5 U	15 U	9.2	7.5 U	7.5 U	7.5 U	7.5 U
129-00-0	Pyrene	UG/KG	15 U	7.5 U	7.5 U	7.5 U	7.5 U	15 U	11	7.5 U	7.5 U	7.5 U	7.5 U
56-55-3	Benzo(a)anthracene	UG/KG	10 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
218-01-9	Chrysene	UG/KG	10 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
205-99-2	Benzo(b)fluoranthene	UG/KG	20 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/KG	10 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
50-32-8	Benzo(a)pyrene	UG/KG	20 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenzo(a,h)anthracene	UG/KG	30 U	15 U	15 U	15 U	15 U	30 U	15 U	15 U	15 U	15 U	15 U
191-24-2	Benzo(ghi)perylene	UG/KG	24 U	12 U	12 U	12 U	12 U	24 U	12 U	12 U	12 U	12 U	12 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	15 U	7.5 U	7.5 U	7.5 U	7.5 U	15 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
PCBs													
12674-11-2	Aroclor 1016	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
11104-26-2	Aroclor 1221	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
11141-18-5	Aroclor 1232	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
53469-21-9	Aroclor 1242	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
12672-29-8	Aroclor 1248	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	50 U	50 U	50 U
11097-69-1	Aroclor 1254	UG/KG	100	140	96	50 U	77	100 U	140	50 U	130	94	97
11096-82-5	Aroclor 1260	UG/KG	99 U	67 U	50 U	50 U	50 U	100 U	50 U	50 U	120	65	82
METALS													
7440-38-2	Arsenic	MG/KG	0.09 J	0.12 J	0.19 J	0.09 J	0.33 U	0.31 U	0.18 J	0.09 J	0.14 J	0.07 UJ	0.13 J
7440-43-9	Cadmium	MG/KG	0.07 U	0.07 U	0.08 J	0.07 U	0.07 U	0.07 J	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
7440-47-3	Chromium	MG/KG	0.4	0.39	0.46	0.39	0.47	0.47	0.41	0.43	0.34	0.39	0.34
7440-50-8	Copper	MG/KG	5.2	3	8.2	4.2	15	5	28	6.7	16.1	26	16.6
7439-92-1	Lead	MG/KG	0.18 J	0.3	0.15 J	0.19 J	1.4	0.27	0.87	0.94	1.2	0.55	0.14 J
7439-97-6	Mercury	MG/KG	0.23	0.27	0.19	0.06	0.11	0.17	0.13	0.22	0.16	0.12	0.14
7440-02-0	Nickel	MG/KG	0.18 U	0.18 U	0.18 U	0.88	0.18 U	0.18 U	0.64 J	1.1	1.2	0.4 J	0.28 J
7440-66-6	Zinc	MG/KG	23.4	16.4	25.3	28.2	32.3	25.6	24.8	19.4	20.4	30.2	29.1
OTHER													
ES-LIPIDS	Percent Lipids	%	2	3.5	1.9	1.2	1.3	1.4	1.7	0.8	2.1	1.5	1.1

DATA VALIDATION REPORT

Prepared for
NIAGARA MOHAWK POWER CORPORATION
ONEIDA MANUFACTURED GAS PLANT

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SECTION 1

DATA VALIDATION SUMMARY

Groundwater samples were collected from the Oneida site in Oneida, New York on December 7, 1995. Analytical results from these samples were validated and reviewed by Parsons Engineering Science, Inc. (Parsons ES) for usability with respect to the following requirements:

- Quality Assurance Project Plan (QAPjP),
- NYSDEC Analytical Services Protocol (ASP) dated September 1989 with December 1991 and September 1993 revisions, and
- USEPA Region II Standard Operating Procedures (SOP) in "CLP Organics Data Review and Preliminary Review," SOP No. HW-6, Revision #8, January 1992, and "Evaluation of Metals Data for the CLP Based on SOW 3/90," SOP No. HW-2, Revision #11, January 1992.

The analytical laboratory for this project was NYTEST Environmental, Inc. (NEI). This laboratory is certified by the New York State Department of Health under the Environmental Laboratory Approval Program (ELAP) to perform analyses in accordance with the NYSDEC ASP, dated September 1989 with December 1991 and September 1993 revisions.

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons ES, was 26 days for the groundwater samples.

The data packages received from NEI were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation reports which are summarized in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

Groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at NEI within one day of sampling. All samples were received intact and in good condition at NEI.

1.3 LABORATORY ANALYTICAL METHODS

Groundwater samples were collected from the Oneida site and analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), polynuclear aromatic hydrocarbons (PAHs), and cyanide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are

discussed for each analytical method in Section 2. The laboratory data were reviewed and qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 BTEX

The groundwater samples collected from the Oneida site were analyzed for BTEX using the NYSDEC ASP 8240 analytical method. None of the reported results for the BTEX samples were qualified as estimated. All of the BTEX data were considered usable and 100% complete for the groundwater samples analyzed by NEI and PARCC requirements were met overall.

1.3.2 PAHs

The groundwater samples collected from the Oneida site were analyzed for PAHs using the NYSDEC ASP 8270 analytical method. Certain reported results for the PAHs samples were qualified as estimated due to noncompliant sample surrogate recoveries, holding times, instrument calibrations, and internal standard sample responses. All of the PAH data were considered usable and 100% complete for the groundwater samples analyzed by NEI and PARCC requirements were met overall.

1.3.3 Cyanide

The groundwater samples collected from the Oneida site were analyzed for cyanide using the NYSDEC ASP CLP-M analytical method. None of the reported results for the cyanide samples were qualified as estimated. All of the cyanide data were considered usable and 100% complete for the groundwater samples analyzed by NEI and PARCC requirements were met overall.

SECTION 2

DATA VALIDATION REPORTS

2.1 GROUNDWATER

Data review has been completed for data packages generated by NEI containing groundwater samples collected from the Oneida site. The specific samples contained in this SDG, the analyses performed, and a usability summary are presented in Table 2.1-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs and the NYSDEC ASP for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 BTEX

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the BTEX analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Matrix spike blank (MSB) recoveries
- Laboratory method blank and field/trip blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy and sample result identification.

TABLE 2.1-1**SUMMARY OF SAMPLE ANALYSES AND USABILITY
ONEIDA**

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLE DATE</u>	<u>BTEX</u>	<u>PAHs</u>	<u>CYANIDE</u>
MWES-04	Water	12/07/95	OK	OK	OK
MWES-04S	Water	12/07/95	OK	OK	OK
MWES-08	Water	12/07/95	OK	OK	OK
MWES-10	Water	12/07/95	OK	OK	OK
MWES-10S	Water	12/07/95	OK	OK	OK
MWES-08 DUP	Water	12/07/95	OK	OK	OK
MWES-01	Water	12/07/95	OK	OK	OK
MWES-03S	Water	12/07/95	OK	OK	OK
MWES-05	Water	12/07/95	OK	OK	OK
MWES-06	Water	12/07/95	OK	OK	OK
MWES-11	Water	12/07/95	OK	OK	OK
MWES-12	Water	12/07/95	OK	OK	OK
MWES-13	Water	12/07/95	OK	OK	OK
MWES-02	Water	12/07/95	OK	OK	OK
MWES-02S	Water	12/07/95	OK	OK	OK
MWES-03	Water	12/07/95	OK	OK	OK
MWES-07	Water	12/07/95	OK	OK	OK
TB-01	Water	12/07/95	OK		
FB-01	Water	12/07/95	OK	OK	OK
TOTAL SAMPLES:			19	18	18

NOTES: OK - Sample analysis considered valid and usable.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for monitoring well location MWES-13. All of the relative percent differences (RPD) and spike recoveries (%R) were within QC limits with the exception of the low MSD toluene recovery (70%; QC limit 76-125%) and the toluene RPD (48%; QC limit 0-13%). Validation qualification was not warranted due to these noncompliances since surrogate recoveries and internal standard responses were within criteria for the unspiked sample MWES-13, thereby, not confirming matrix interferences.

Sample Result Identification

All positive results for BTEX in samples were confirmed present and verified with the raw sample data. However, the detected total xylenes result for sample MWES-5 (220 µg/L) reported by the laboratory was not confirmed during validation due to poor spectral matches between the sample result and the reference standard for this compound. Therefore, this sample result was considered estimated with presumptive evidence of this compound and qualified "N". It appears this total xylenes result may be resulting from the large concentration of ethylbenzene present in the sample. This sample was reanalyzed at a secondary dilution (see Summary below). The total xylenes result from the reanalysis was considered representative of MWES-5 and reported.

Usability

All BTEX sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The BTEX data package presented by NEI was 100% complete and all data were considered usable and valid. The validated laboratory data are tabulated and presented in Attachment A.

The table in Attachment A presents the most representative BTEX data for a sample location resulting from validation. For example, samples MWES-2, MWES-2S, and MWES-5 were reanalyzed at secondary dilutions (MWES-2DL, MWES-2SDL, and MWES-5DL, respectively) since certain volatile compounds in these samples yielded concentrations above the highest calibration standard. Benzene, toluene, ethylbenzene and total xylenes concentrations in MWES-2S and ethylbenzene in MWES-2 and MWES-5 exceeded instrument calibration ranges. Therefore, the validated results from the diluted samples where instrument calibration ranges were exceeded in the original analysis were considered compliant and representative of the sample. These results were reported for the sample and qualified "D" in the validated laboratory data table presented in Attachment A.

It was noted that the total xylenes concentration reported for MWES-5DL was considered representative and reported for MWES-5 in the validated laboratory data table since the total xylenes concentration in the original analysis was considered presumptive and suspect.

2.1.2 PAHs

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the PAH analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- MSB recoveries
- Laboratory method blank and field blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times; surrogate recoveries; continuing calibrations; and internal standard responses.

Holding Times

All PAH samples were within the holding time requirements for extraction and analysis with the exception of the reextracted samples MWES-2RE which exceeded the ten day reextraction holding time requirement by eight days. Therefore, sample results for MWES-2RE were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ".

Surrogate Recoveries

Recoveries of sample surrogates were compliant and within QC criteria with the exception of those summarized in Table 2.1.2-1. Although one base-neutral surrogate was higher than the QC limits in all of these samples except for MWES-2, qualification of these samples was not warranted. Qualification was not required due to the noncompliance for only one base-neutral surrogate.

However, since sample MWES-2 recovered two base-neutral surrogates higher than QC limits, then positive sample results for MWES-2 were considered estimated and qualified "J".

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a maximum percent difference (%D) of $\pm 25\%$

TABLE 2.1.2-1

PAH SAMPLE SURROGATE RECOVERY OUTLIERS

ONEIDA

<u>SAMPLE ID</u>	<u>NBZ %R</u>	<u>FBP %R</u>	<u>TPH %R</u>	<u>DCB %R</u>
MWES-10S	117	*	*	*
MWES-10	121	*	*	*
MWES-4S	125	*	*	*
MWES-4	137	*	*	*
MWES-8	145	*	*	*
MWES-8 DUP	165	*	*	*
MWES-7	126	*	*	*
MWES-2	216	120	*	*
MWES-2S	143	*	*	*
MWES-3	156	*	*	*
MWES-3S	156	*	*	*
MWES-5	141	*	*	*
MWES-13	134	*	*	*
MWES-12	118	*	*	*
MWES-1	231	*	*	*

SURROGATEQC LIMITS

NBZ = Nitrobenzene-d5	35-114%	
FBP = 2-Fluorobiphenyl	43-116%	
TPH = Terphenyl-d14	33-141%	
DCB = 1,2-Dichlorobenzene-d4	16-110%	advisory

NOTES: * - Surrogate recovery within criteria.

with exception of those compounds summarized in Table 2.1.2-2. The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in the affected samples.

Internal Standards

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within $\pm$ 0.5 minutes of the standard) with the exception of the ISs perylene-d12 in sample MWES-2, and phenanthrene-d10 and chrysene-d12 in sample MWES-2SDL. The area counts for these ISs (1611365, 1425252, and 1204682, respectively) were higher than the QC acceptance ranges. Therefore, positive sample results were considered estimated and qualified "J" in these samples for those compounds associated with the noncompliant ISs.

Usability

All PAH sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PAH data package presented by NEI was 100% complete and all data were considered usable and valid. The validated PAH laboratory data are tabulated and presented in Attachment A.

The table in Attachment A presents the most representative PAH data for a sample location resulting from validation. For example, samples MWES-2, MWES-2S, and MWES-7 were reanalyzed at secondary dilutions (MWES-2DL, MWES-2SDL, and MWES-7DL, respectively) since certain PAH target compounds yielded concentrations that exceeded instrument calibration ranges during the original analysis. These certain PAHs were the following:

- naphthalene in MWES-2, MWES-2S, and MWES-7;
- 2-methylnaphthalene in MWES-2 and MWES-2S; and
- acenaphthylene in MWES-2 and MWES-2S.

All of the validated results from the diluted samples for these target PAHs where instrument calibration ranges were exceeded in the original analysis were considered compliant, representative of the sample, qualified "D", and reported for the sample in the validated laboratory data table presented in Attachment A.

In addition, sample MWES-2 was reextracted and reanalyzed (MWES-2RE) due to noncompliant surrogate recoveries and internal standard responses during the original analysis. Although the reextracted sample exceeded reextraction holding times, sample results from the reanalysis of sample MWES-2 were considered more compliant. However, the diluted results from MWES-2DL were also considered compliant, representative of the sample, and reported for MWES-2 in the validated laboratory data table presented in Attachment A. Sample MWES-2 did not experience matrix effects

TABLE 2.1.2-2

PAH CONTINUING CALIBRATION OUTLIERS

ONEIDA

CONTINUING CALIBRATION DATE - TIME	<u>FILE ID</u>	<u>COMPOUND</u>	<u>%D</u> ⁽¹⁾	<u>AFFECTED SAMPLES</u>
12/20/95 - 11:07	R8605	Dibenz(a,h)anthracene	-29.4	MWES-2SDL
12/28/95 - 12:35	R8718	Benzo(g,h,i)perylene	25.6	MWES-2RE

NOTES: ⁽¹⁾ - Percent Difference.

since the reanalysis of this sample had improved surrogate recoveries and internal standards.

2.1.3 Cyanide

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the cyanide analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, laboratory preparation, and field blank contamination
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample
- Sample result verification and identification
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

ATTACHMENT A
VALIDATED LABORATORY DATA

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED GROUNDWATER DATA SDG: ONEI 3		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	FB01 2592720 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES1 2592707 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES10 2592702 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES10S 2592701 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES11 2592714 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND	UNITS:					
	BTEX						
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
	PAHs						
91-20-3	Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
208-96-8	Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
83-32-9	Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
86-73-7	Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
85-01-8	Phenanthrene	UG/L	10 U	2 J	10 U	10 U	10 U
120-12-7	Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	UG/L	10 U	3 J	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	10 U	4 J	10 U	10 U	10 U
56-55-3	Benzo(a)anthracene	UG/L	10 U	3 J	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	10 U	3 J	10 U	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	5 J	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	7 J	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	1 J	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	5 J	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	6 J	10 U	10 U	10 U
	INORGANICS						
57-12-5	Total Cyanide	UG/L	10 U	10 U	113	58	10 U
57-12-5A	Amenable Cyanide	UG/L			113	58	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED GROUNDWATER DATA SDG: ONEI 3		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	MWES12 2592719 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES13 2592716 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2 2592709 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES2S 2592710 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES3 2592711 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND						
	BTEX						
71-43-2	Benzene	UG/L	10 U	10 U	11	350 D	22
108-88-3	Toluene	UG/L	10 U	10 U	130	530 D	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	240 D	900 D	4 J
1330-20-7	Xylene (total)	UG/L	10 U	10 U	390	1100 D	2 J
	PAHs						
91-20-3	Naphthalene	UG/L	10 U	10 U	2700 D	7300 D	10 U
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	320 JD	600 JD	10 U
208-96-8	Acenaphthylene	UG/L	10 U	10 U	90 JD	120 JD	8 J
83-32-9	Acenaphthene	UG/L	10 U	10 U	6 J	36	72
86-73-7	Fluorene	UG/L	10 U	10 U	21 J	30	19
85-01-8	Phenanthrene	UG/L	10 U	10 U	22 J	20	13
120-12-7	Anthracene	UG/L	10 U	10 U	5 J	4 J	4 J
206-44-0	Fluoranthene	UG/L	10 U	10 U	5 J	3 J	2 J
129-00-0	Pyrene	UG/L	10 U	10 U	4 J	4 J	2 J
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	2 J	1 J	10 U
218-01-9	Chrysene	UG/L	10 U	10 U	1 J	1 J	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
	INORGANICS						
57-12-5	Total Cyanide	UG/L	10 U	10 U	26	470	10 U
57-12-5A	Amenable Cyanide	UG/L			10 U	470	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED GROUNDWATER DATA SDG: ONEI 3		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	MWES3S 2592712 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4 2592704 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES4S 2592703 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES5 2592713 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES6 2592715 NYTEST ONEI3 WATER 12/07/95 1/11/96
CAS NO.	COMPOUND	UNITS:					
	BTEX						
71-43-2	Benzene	UG/L	10 U	10 U	10 U	40	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	2 J	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	210 D	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	24 JD	10 U
	PAHs						
91-20-3	Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
208-96-8	Acenaphthylene	UG/L	10 U	10 U	10 U	3 J	10 U
83-32-9	Acenaphthene	UG/L	10 U	10 U	10 U	56	1 J
86-73-7	Fluorene	UG/L	10 U	10 U	10 U	13	10 U
85-01-8	Phenanthrene	UG/L	10 U	10 U	10 U	6 J	10 U
120-12-7	Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
	INORGANICS						
57-12-5	Total Cyanide	UG/L	10 U	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP SITE VALIDATED GROUNDWATER DATA SDG: ONEI 3		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	MWES7 2592708 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8 2592705 NYTEST ONEI3 WATER 12/07/95 1/11/96	MWES8--DUP 2592706 NYTEST ONEI3 WATER 12/07/95 1/11/96	TB01 2592721 NYTEST ONEI3 WATER 11/29/95 1/11/96
CAS NO.	COMPOUND					
	BTEX					
71-43-2	Benzene	UG/L	44	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	34	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	22	10 U	10 U	10 U
	PAHs					
91-20-3	Naphthalene	UG/L	270 D	10 U	10 U	
91-57-6	2-Methylnaphthalene	UG/L	9 J	10 U	10 U	
208-96-8	Acenaphthylene	UG/L	1 J	10 U	10 U	
83-32-9	Acenaphthene	UG/L	34	10 U	10 U	
86-73-7	Fluorene	UG/L	11	10 U	10 U	
85-01-8	Phenanthrene	UG/L	27	10 U	10 U	
120-12-7	Anthracene	UG/L	4 J	10 U	10 U	
206-44-0	Fluoranthene	UG/L	9 J	10 U	10 U	
129-00-0	Pyrene	UG/L	7 J	10 U	10 U	
56-55-3	Benzo(a)anthracene	UG/L	3 J	10 U	10 U	
218-01-9	Chrysene	UG/L	2 J	10 U	10 U	
205-99-2	Benzo(b)fluoranthene	UG/L	1 J	10 U	10 U	
207-08-9	Benzo(k)fluoranthene	UG/L	2 J	10 U	10 U	
50-32-8	Benzo(a)pyrene	UG/L	1 J	10 U	10 U	
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	1 J	10 U	10 U	
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	
191-24-2	Benzo(g,h,i)perylene	UG/L	1 J	10 U	10 U	
	INORGANICS					
57-12-5	Total Cyanide	UG/L	11	10 U	10 U	
57-12-5A	Amenable Cyanide	UG/L				

DATA VALIDATION REPORT

Prepared for
NIAGARA MOHAWK POWER CORPORATION
ONEIDA MANUFACTURED GAS PLANT

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SECTION 1

DATA VALIDATION SUMMARY

Groundwater and surface soil samples were collected from the Oneida site in Oneida, New York from July 25, 1995 through July 28, 1995. Analytical results from these samples were validated and reviewed by Parsons Engineering Science, Inc. (Parsons ES) for usability with respect to the following requirements:

- Quality Assurance Project Plan (QAPjP),
- NYSDEC Analytical Services Protocol (ASP) dated September 1989 with December 1991 and September 1993 revisions, and
- USEPA Region II Standard Operating Procedures (SOP) in "CLP Organics Data Review and Preliminary Review," SOP No. HW-6, Revision #8, January 1992, and "Evaluation of Metals Data for the CLP Based on SOW 3/90," SOP No. HW-2, Revision #11, January 1992.

The analytical laboratory for this project was NYTEST Environmental, Inc. (NEI). This laboratory is certified by the New York State Department of Health under the Environmental Laboratory Approval Program (ELAP) to perform analyses in accordance with the NYSDEC ASP, dated September 1989 with December 1991 and September 1993 revisions.

1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons ES, was 46 days on average for groundwater and surface soil samples.

The data packages received from NEI were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation reports which are summarized by sample delivery group (SDG) in Section 2.

1.2 SAMPLING AND CHAIN-OF-CUSTODY

Groundwater samples, composing one SDG (GW1), were collected from July 25, 1995 through July 27, 1995, properly preserved, shipped under a chain-of-custody (COC) record, and received at NEI within one day of sampling. Surface soil samples, composing one SDG (ONEI1), were collected on July 28, 1995, properly preserved, shipped under a COC record, and received at NEI within one day of sampling. All samples were received intact and in good condition at NEI with the exception of the volatile groundwater sample for ES-02S in which both sample vials were received broken. Therefore, a volatile analysis was not performed for ES-02S.

1.3 LABORATORY ANALYTICAL METHODS

Groundwater and surface soil samples were collected from the Oneida site and analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides and polychlorinated biphenyls (PCBs), inorganics (metals and cyanide), and other parameters. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.5. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method by SDG in Section 2. The laboratory data were reviewed and qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented by SDG in Attachment A.

1.3.1 Volatile Organic Analysis

The groundwater and surface soil samples collected from the Oneida site were analyzed for target compound list (TCL) VOCs using the NYSDEC ASP 8240 analytical method. Certain reported results for the TCL VOC samples were qualified as estimated due to noncompliant surrogate recoveries, instrument calibrations, and internal standard responses. Certain reported sample volatile results were considered unusable and qualified "R" due to poor internal standard responses and poor continuing calibration linearity. Therefore, the TCL VOC analyses were 93.3% to 100% complete for the groundwater and surface soil SDGs presented by NEI and PARCC requirements were met overall.

1.3.2 Semivolatile Organic Analysis

The groundwater and surface soil samples collected from the Oneida site were analyzed for TCL SVOCs using the NYSDEC ASP 8270 analytical method. Certain reported results for the TCL SVOC samples were qualified as estimated due to noncompliant sample surrogate recoveries, holding times, instrument calibrations, internal standard sample responses, and field duplicate precision. Certain reported sample semivolatile results were considered unusable and qualified as "R" due to poor acid surrogate recoveries, grossly exceeded holding times for reextractions, and poor responses in the initial and/or continuing calibrations. Therefore, the TCL SVOC analyses were 55.9% to 96.5% complete for the groundwater and surface soil SDGs presented by NEI and PARCC requirements were met overall.

1.3.3 Pesticide/PCB Analysis

The groundwater and surface soil samples collected from the Oneida site were analyzed for TCL pesticide/PCBs using the NYSDEC ASP 8080 analytical method.

Certain reported results for the TCL pesticide/PCB samples were qualified as estimated due to noncompliant sample surrogate recoveries, instrument calibrations, and field duplicate precision. All of the pesticide/PCB data were considered usable and 100% complete for the groundwater and surface soil SDGs presented by NEI and PARCC requirements were met overall.

1.3.4 Inorganics

The groundwater and surface soil samples collected from the Oneida site were analyzed for inorganics using the NYSDEC ASP CLP-M analytical method. Certain reported results for the inorganic samples were qualified as estimated due to noncompliant calibrations, matrix spike recoveries, laboratory duplicate precision, field duplicate precision, serial dilution, furnace spike recoveries, laboratory control samples, and method of standard additions. All of the inorganic data were considered usable and 100% complete for the groundwater and surface soil SDGs presented by NEI and PARCC requirements were met overall.

1.3.5 Other Parameters

The surface soil samples collected from the Oneida site were analyzed for total organic carbon, and certain groundwater samples were analyzed for total organic carbon, total alkalinity, carbonate, chloride, hardness, sulfate, sulfide, pH, biochemical oxygen demand, chemical oxygen demand, nitrate, nitrite, oil and grease, and total dissolved solids. All calibrations, laboratory blanks, holding times, matrix spikes, duplicates, control samples, and surrogates were reviewed for compliance. All of these analytical parameters for these samples were considered usable and 100% complete for the SDGs presented by NEI and PARCC requirements were met overall.

SECTION 2

DATA VALIDATION REPORTS BY SDG

2.1 SDG GW1

Data review has been completed for SDG GW1 data packages generated by NEI containing groundwater samples collected from the Oneida site. The specific samples contained in this SDG, the analyses performed, and a usability summary are presented in Table 2.1-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory with the exception of the volatile groundwater sample for ES-02S in which both sample vials were received broken. Therefore, a volatile analysis was not performed for ES-02S. The validated laboratory data for this SDG are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs and the NYSDEC ASP for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.1.1 TCL Volatiles

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Matrix spike blank (MSB) recoveries
- Laboratory method blank and field/trip blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries; MS/MSD precision and accuracy; laboratory method blank, field/trip blank and MSB contamination; sample result identification; continuing calibrations; and internal standard area counts.

TABLE 2.1-1
SUMMARY OF SAMPLE ANALYSES AND USABILITY FOR SDG GW1
ONEIDA

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLE DATE</u>	<u>TCL VOC</u>	<u>TCL SVOC</u>	<u>TCL PESTICIDE/PCB</u>	<u>INORGANICS</u>	<u>OTHER</u> ⁽¹⁾	<u>FOOTNOTES</u>
ES-04	Water	07/25/95	OK	OK	OK	OK		
ES-04S	Water	07/25/95	OK	NO	OK	OK		1
ES-08	Water	07/25/95	OK	OK	OK	OK		
ES-10	Water	07/25/95	OK	OK	OK	OK	OK	
ES-10S	Water	07/25/95	OK	NO	OK	OK	OK	2
TB-04	Water	07/25/95	OK					
ES-01	Water	07/26/95	OK	OK	OK	OK		
ES-03S	Water	07/26/95	OK	OK	OK	OK		
ES-05	Water	07/26/95	OK	OK	OK	OK	OK	
ES-06	Water	07/26/95	OK	OK	OK	OK		
ES-11	Water	07/26/95	OK	OK	OK	OK		
ES-12	Water	07/26/95	OK	OK	OK	OK		
ES-13	Water	07/26/95	OK	OK	OK	OK		
TB-05	Water	07/26/95	OK					
ES-02	Water	07/27/95	OK	NO	OK	OK	OK	3
ES-02S	Water	07/27/95		NO	OK	OK		3
ES-102S	Water	07/27/95	OK	NO	OK	OK		3
ES-03	Water	07/27/95	OK	NO	OK	OK		3
ES-07	Water	07/27/95	OK	NO	OK	OK	OK	3
TB-06	Water	07/27/95	OK					
FB-03	Water	07/27/95	OK	NO		OK		3
TOTAL SAMPLES:			20	18	18	18	5	

NOTES: OK - Sample analysis considered valid and usable.

NO - Sample analysis has noncompliance(s) resulting in unusable data. See appropriate footnote.

(1) - Sample analysis includes total organic carbon, total alkalinity, carbonate, chloride, hardness, sulfate, sulfide, pH, biochemical oxygen demand, chemical oxygen demand, nitrate, nitrite, oil and grease, and total dissolved solids.

FOOTNOTES: 1 - Poor semivolatile acid surrogate recoveries; reanalysis sample considered OK.

2 - Poor semivolatile acid surrogate recoveries in both original and reanalysis samples.

3 - Poor semivolatile continuing calibration responses for various compounds.

Surrogate Recoveries

All sample surrogate recoveries were within QC limits with the exception of bromofluorobenzene (BFB) in ES-102S (73%) which was below the QC limit of 86-115%. Therefore, sample results for ES-102S were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ". This noncompliance may be resulting from the large concentrations of benzene, toluene, ethylbenzene, and total xylenes in this sample causing some interferences in the recovery of BFB. ES-102S was reanalyzed at a secondary dilution (ES-102SDL) which produced acceptable surrogate recoveries with larger benzene, toluene, ethylbenzene, and total xylene concentrations.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for monitoring well location ES-03S. All of the relative percent differences (RPD) and spike recoveries (%R) were within QC limits with the exception of the RPDs for trichloroethene (17%; QC limit 0-14%), benzene (15%; QC limit 0-11%), toluene (20%; QC limit 0-13%), and chlorobenzene (17%; QC limit 0-13%). Validation qualification was not warranted due to these noncompliant RPDs.

Blank Contamination

The trip blanks (TB-04, TB-05, and TB-06), the field blank (FB03), the MSB, and the laboratory method blanks (VBLKN7, VBLKN8, VBLKN10, VBLKN15, and VBLKN16) associated with samples in this SDG contained TCL VOCs at concentrations summarized in Table 2.1.1-1. All associated sample results with concentrations greater than the CRDL and greater than the validation action concentration were acceptable and reported unqualified. However, all associated sample results with concentrations greater than the CRDL and less than the validation action concentration were considered not detected at the sample concentration value given and qualified "U". If the associated sample results were at concentrations less than the CRDL and less than the validation action concentration, then the sample concentration was considered not detected at the CRDL.

As a result, the presence of contaminants in these blanks may be indicative of volatile sample contamination from the laboratory, field equipment, and/or sample transport and storage. Sample results were qualified with a "B" by the laboratory for those cases where the associated laboratory method blank also contained the volatile target compound and, therefore, was considered a laboratory artifact.

Sample Result Identification

All positive results for TCL VOCs in samples contained in this SDG were confirmed present and verified with the raw sample data. However, the detected chloromethane result for sample ES-102S (1 µg/L) and the detected styrene result for sample ES-102SDL (130 µg/L) reported by the laboratory were not confirmed during validation due to poor spectral matches between these sample results and the reference standards for these compounds. Therefore, these sample results were considered estimated with presumptive evidence of these compounds and qualified "JN".

TABLE 2.1.1-1
DETECTED TCL VOCs IN BLANKS

ONEIDA

BLANK ID	TCL VOC	CONCENTRATION ($\mu\text{g/l}$)	CRDL⁽¹⁾ ($\mu\text{g/l}$)	VALIDATION ACTION CONCENTRATION⁽²⁾ ($\mu\text{g/l}$)	AFFECTED SAMPLES
VBLKN7	Methylene Chloride	3	10	30	ES-10S, ES-04S, ES-08, TB-05, TB-04, ES-11
VBLKN8	Methylene Chloride	4	10	40	ES-10, ES-04, ES-12, ES-13, ES-05, ES-06
VBLKN10	Methylene Chloride	2	10	20	ES-05DL, ES-01, ES-03S
VBLKN15	Methylene Chloride	5	10	50	ES-07, ES-02, ES-102S, ES-03, FB-03, TB-06
	1,1,2,2-Tetrachloroethane	2	10	10	
VBLKN16	Methylene Chloride	3	10	30	ES-07DL, ES-102SDL
	1,1,2,2-Tetrachloroethane	1	10	5	
TB-04	Methylene Chloride	3	10	30	ES-04, ES-04S, ES-08, ES-10, ES-10S
TB-05	Methylene Chloride	3	10	30	ES-01, ES-03S, ES-05, ES-06, ES-11, ES-12, ES-13
	1,1,1-Trichloroethane	2	10	10	
TB-06	Methylene Chloride	4	10	40	ES-02, ES-02S, ES-102S, ES-03, ES-07, FB-03
FB-03	Methylene Chloride	3	10	30	All
MSB	Methylene Chloride	6	10	60	All

NOTES: (1) - Contract Required Detection Limit.

(2) - Defined as 10 times the blank concentration for common volatile laboratory contaminants (methylene chloride, acetone, and 2-butanone) and 5 times the blank concentration for all other volatile contaminants.

Continuing Calibrations

The continuing calibration checks were performed on 7/27/95, 7/28/95, 7/31/95, 8/1/95, and 8/2/95 using instrument HPN. All calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) of $\pm 25\%$ with the exception of those compounds summarized in Table 2.1.1-2 which were outside the $\pm 25\%$ QC limit. The sample results for these non-compliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in the affected samples.

Internal Standards

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within ± 0.5 minutes of the standard) with the exception of the IS bromochloromethane in sample ES-03S. The area count for this IS (53266) was lower than the QC acceptance range of 65532-262126 for this sample. Therefore, sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in ES-03S for those compounds associated with this noncompliant IS. This sample should have been reanalyzed by the laboratory due to this noncompliance.

Usability

All TCL volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile data package presented by NEI was 100% complete and all volatile data were considered usable and valid. The validated volatile laboratory data are tabulated and presented in Attachment A. This table presents the most representative volatile data for a sample location resulting from validation.

For example, samples ES-102S, ES-05, and ES-07 were reanalyzed at secondary dilutions (ES-102SDL, ES-05DL, and ES-07DL, respectively) since certain volatile compounds in these samples yielded concentrations above the highest calibration standard. Benzene, toluene, ethylbenzene and total xylenes concentrations in ES-102S; ethylbenzene in ES-05; and ethylbenzene and total xylenes in ES-07 exceeded instrument calibration ranges. Therefore, the validated results from the diluted samples where instrument calibration ranges were exceeded in the original analysis were considered compliant and representative of the sample. These results were reported for the sample and qualified "D" in the validated laboratory data table presented in Attachment A.

It was noted that the total xylenes concentration reported for ES-02 exceeded instrument calibration ranges. Since the laboratory did not reanalyze this sample at a secondary dilution, the total xylenes result for ES-02 was considered estimated and qualified "J".

TABLE 2.1.1-2
VOLATILE CONTINUING CALIBRATION OUTLIERS
ONEIDA

<u>CONTINUING CALIBRATION DATE - TIME</u>	<u>FILE ID</u>	<u>COMPOUND</u>	<u>%D ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
7/27/95 - 21:32	N3506	Methylene Chloride	36.1	ES-10S, ES-04S, ES-08, TB-04, TB-05, ES-11
7/28/95 - 10:34	N3529	Chloromethane	-29.1	ES-10, ES-04, ES-12,
		2-Butanone	41.3	ES-13, ES-05, ES-06
		4-Methyl-2-pentanone	29.4	
		2-Hexanone	30.8	
7/31/95 - 12:15	N3554	Methylene Chloride	27.3	ES-05DL, ES-01, ES-03S
		Acetone	30.3	
		2-Butanone	37.5	
		4-Methyl-2-pentanone	29.5	
		2-Hexanone	30.3	
8/1/95 - 21:49	N3612	Methylene Chloride	30.7	ES-07, ES-02, ES-102S,
		4-Methyl-2-pentanone	30.4	ES-03, FB-03, TB-06
		2-Hexanone	25.7	
		Vinyl Acetate	29.4	
8/2/95 - 10:13	N3629	Methylene Chloride	29.8	ES-07DL, ES-102SDL
		2-Butanone	33.2	
		Vinyl Acetate	27.9	

NOTES: (1) - Percent Difference.

2.1.2 TCL Semivolatiles

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- MSB recoveries
- Laboratory method blank and field blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times; surrogate recoveries; MS/MSD precision and accuracy; MSB recoveries; laboratory method blank and field blank contamination; sample result identification; initial and continuing calibrations; internal standard responses; and field duplicate precision.

Holding Times

All semivolatile samples were within the holding time requirements for extraction and analysis with the exception of the reextracted samples ES-10SRE and ES-04SRE which exceeded the ten day reextraction holding time requirement by nine days. Therefore, sample results for ES-10SRE and ES-04SRE were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ".

Surrogate Recoveries

Recoveries of sample surrogates were compliant and within QC criteria with the exception of those summarized in Table 2.1.2-1. Although one base-neutral surrogate was higher than the QC limits in the case of sample ES-10, one acid surrogate was lower than the QC limits for sample ES-12, and one base-neutral surrogate was higher when one acid surrogate was lower than the QC limits for sample ES-04SRE, qualification of these samples was not warranted. Qualification was not required due to the noncompliance for only one base-neutral surrogate and/or one acid surrogate.

Since acid surrogate recoveries were below 10% for samples ES-04S, ES-10S, and ES-10SRE, positive results were considered estimated and qualified "J" and nondetected results were considered unusable and qualified "R" for the acid fraction in these samples.

TABLE 2.1.2-1

SEMIVOLATILE SAMPLE SURROGATE RECOVERY OUTLIERS

ONEIDA

<u>SAMPLE ID</u>	<u>NBZ %R</u>	<u>FBP %R</u>	<u>TPH %R</u>	<u>PHL %R</u>	<u>2FP %R</u>	<u>TBP %R</u>	<u>2CP %R</u>	<u>DCB %R</u>
ES-10	*	*	145	*	*	*	*	*
ES-10S	*	*	198	5	10	*	18	*
ES-04S	*	*	*	8	15	*	31	*
ES-12	*	*	*	*	19	*	*	*
ES-10SRE	145	*	*	1	1	3	2	*
ES-04SRE	122	*	*	*	17	*	*	*

SURROGATE

NBZ = Nitrobenzene-d5
 FBP = 2-Fluorobiphenyl
 TPH = Terphenyl-d14
 PHL = Phenol-d5
 2FP = 2-Fluorophenol
 TBP = 2,4,6-Tribromophenol
 2CP = 2-Chlorophenol-d4
 DCB = 1,2-Dichlorobenzene-d4

QC LIMITS

35-114 %
 43-116 %
 33-141 %
 10-110 %
 21-110 %
 10-123 %
 33-110 % advisory
 16-110 % advisory

NOTES: * - Surrogate recovery within criteria.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for groundwater location ES-03S. All of the relative percent difference (RPD) and spike recoveries (%R) were within QC limits with the exception of the low recoveries for 1,4-dichlorobenzene (16% in the MS and 20% in the MSD; QC limit 36-97%); N-nitroso-di-n-propylamine (38% in the MS and 40% in the MSD; QC limit 41-116%); and 1,2,4-trichlorobenzene (28% in the MS and 32% in the MSD; QC limit 39-98%). Validation qualification was not warranted since all surrogate recoveries and internal standards were acceptable and within criteria for the unspiked sample ES-03S. Therefore, there were no interferences resulting from matrix effects on sample ES-03S.

MSB Recoveries

All MSB recoveries of spiked compounds were compliant and within QC criteria with the exception of the low recoveries for 1,4-dichlorobenzene (18%; QC limit 36-97%) and 1,2,4-trichlorobenzene (34%; QC limit 39-98%). It was noted that these spiked compounds were also recovered lower than the QC limits in the designated MS/MSD analyses for this SDG. These noncompliances appeared to be resulting from laboratory spiking solution error and not due to sample matrix. Therefore, validation qualification was not warranted for these samples in this SDG due to these noncompliances.

Blank Contamination

One laboratory method blank (SBLK42) associated with samples ES-10SRE and ES-04SRE contained bis(2-ethylhexyl)phthalate at a concentration of 4 µg/L, which was below the Contract Required Detection Limit (CRDL) of 10 µg/L. The field blank (FB-03) associated with all samples in this SDG contained naphthalene at a concentration of 4 µg/L which was below the CRDL of 10 µg/L. The validation action concentration for bis(2-ethylhexyl)phthalate was 40 µg/L (10 times the respective concentration found in the blank) since the bis(2-ethylhexyl)phthalate is a common laboratory contaminant. The validation action concentration for naphthalene was 20 µg/L (5 times the respective concentration found in the blank) since the TCL SVOC naphthalene is not a common laboratory contaminant. Therefore, all associated sample results for these compounds with concentrations greater than the CRDL and greater than the validation action concentration were acceptable and reported unqualified. However, all associated sample results with concentrations greater than the CRDL and less than the validation action concentration were considered not detected at the sample concentration value given and qualified "U". If the associated sample results were at concentrations less than the CRDL and less than the validation action concentration, then the sample concentration was considered not detected at the CRDL.

As a result, the presence of contaminants in these blanks may be indicative of semivolatile sample contamination from the laboratory and/or field equipment. Sample results were qualified with a "B" by the laboratory for those cases where the associated laboratory method blank also contained the semivolatile target compound and, therefore, was considered a laboratory artifact.

Sample Result Identification

All positive results for TCL SVOCs in samples contained in this SDG were confirmed present and verified with the raw sample data. However, the presence of benzo(k)fluoranthene and benzo(b)fluoranthene in ES-102S were considered presumptive since these stereoisomers were indistinguishable on the sample chromatogram and in the raw data (i.e., these compounds eluted at the same retention time and have the same primary ion). Therefore, these compounds were qualified as estimated "JN" for ES-102S.

Initial and Continuing Calibrations

The initial calibration performed on 8/4/95, 8/16/95, and 9/15/95 using instruments HPQ and HPS were compliant with a minimum relative response factor (RRF) of 0.05 and a maximum relative standard deviation (%RSD) of 30% with the exception of those compounds summarized in Table 2.1.2-2. The positive sample results for these noncompliant compounds where the maximum %RSD was exceeded, were considered estimated and qualified "J" in the affected samples. However, the nondetected benzyl alcohol results for samples ES-04SRE and ES-10SRE were considered unusable and qualified "R" since the RRF for benzyl alcohol (0.030) was below the QC limit of 0.05 in the associated initial calibration.

The continuing calibration checks were performed on 8/2/95, 8/4/95, 8/17/95, 8/18/95, 8/21/95, and 9/22/95 using instruments HPQ and HPS. All calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D of $\pm 25\%$ with exception of those compounds summarized in Table 2.1.2-3. The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in the affected samples. The nondetected benzyl alcohol results for samples ES-07, ES-02, ES-02S, ES-102S, FB-03, ES-03, ES-02SDL, and ES-102SDL, and the nondetected 4-chloroaniline and hexachlorocyclopentadiene results for sample ES-102SDL were considered unusable and qualified "R" since the %D was greater than $\pm 90\%$ in the associated continuing calibrations.

In addition, the nondetected 3,3'-dichlorobenzidine and benzyl alcohol results for samples ES-03 and ES-02DL, and the nondetected benzyl alcohol results for samples ES-102SDL, ES-04SRE, and ES-10SRE were also considered unusable and qualified "R" since the RRF was less than 0.05 in the associated continuing calibrations.

Internal Standards

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within ± 0.5 minutes of the standard) with the exception of the IS naphthalene-d8 in sample ES-102S. The area count for this IS (588013) was lower than the QC acceptance range of 1096599-4386396 for this sample. Therefore, sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in ES-102S for those compounds associated with this noncompliant IS.

TABLE 2.1.2-2
SEMIVOLATILE INITIAL CALIBRATION OUTLIERS
ONEIDA

<u>INITIAL CALIBRATION DATE - INSTRUMENT</u>	<u>COMPOUND</u>	<u>%RSD ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
8/4/95 - HPQ	4-Chloroaniline	42.9	ES-11RE, ES-12, ES-05DL
	Hexachlorocyclopentadiene	36.1	
	Benzo(k)fluoranthene	38.3	
	Indeno(1,2,3-cd)pyrene	31.1	
	Dibenz(a,h)anthracene	33.7	
8/16/95 - HPQ	4-Chloroaniline	58.5	ES-07, ES-02, ES-03, ES-02SDL, ES-02S, ES-102S, ES-102SDL, FB-03
	Hexachlorocyclopentadiene	33.8	
	Benzyl Alcohol	48.9	
9/15/95 - HPS	4-Chloroaniline	37.6	ES-04SRE, ES-10SRE

NOTES: (1) - Relative Standard Deviation.

TABLE 2.1.2-3
SEMIVOLATILE CONTINUING CALIBRATION OUTLIERS
ONEIDA

<u>CONTINUING CALIBRATION DATE - TIME</u>	<u>FILE ID</u>	<u>COMPOUND</u>	<u>%D ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
8/2/95 - 16:16	Q6674	Bis(2-chloroethyl)ether	36.9	ES-10, ES-10S
		1,3-Dichlorobenzene	35.2	ES-11, ES-13,
		2-Methylphenol	30.3	ES-01, ES-04,
		2,2'-Oxybis(1-chloropropane)	32.2	ES-03S, ES-04S,
		4-Methylphenol	29.2	ES-05, ES-06,
		Hexachlorocyclopentadiene	31.1	ES-08
		Benzo(b)fluoranthene	31.8	
8/4/95 - 11:22	Q6703	Phenol	25.8	ES-11RE, ES-12,
		1,3-Dichlorobenzene	33.2	ES-05DL
		1,2-Dichlorobenzene	26.6	
		2-Methylphenol	29.0	
		2,2'-Oxybis(1-chloropropane)	28.3	
		4-Chloroaniline	-71.0	
		Benzo(k)fluoranthene	41.0	
		Indeno(1,2,3-cd)pyrene	32.1	
		Dibenz(a,h)anthracene	34.2	
		Benzo(g,h,i)perylene	28.5	
8/17/95 - 12:06	Q6940	2,2'-Oxybis(1-chloropropane)	-26.5	ES-07, ES-02,
		4-Chloroaniline	-44.9	ES-02S, ES-102S,
		3,3'-Dichlorobenzidine	-58.9	FB-03
		Benzyl Alcohol	-90.9	
8/18/95 - 14:32	Q6982	4-Chloroaniline	-49.8	ES-03, ES-02SDL
		2-Nitroaniline	-25.4	
		4-Nitrophenol	-32.9	
		3,3'-Dichlorobenzidine	84.0 (RRF = 0.017)	
		Benzyl Alcohol	95.7 (RRF = 0.020)	
8/21/95 - 12:48	Q7052	1,3-Dichlorobenzene	37.1	ES-102SDL
		1,4-Dichlorobenzene	27.2	
		2,2'-Oxybis(1-chloropropane)	-26.2	
		4-Methylphenol	27.0	
		Nitrobenzene	-45.4	
		2,4-Dimethylphenol	-40.6	
		4-Chloroaniline	-149.0	
		Hexachlorocyclopentadiene	-120.0	
		2-Nitroaniline	-37.8	
		4-Nitrophenol	-53.9	
		N-Nitrosodiphenylamine	-27.9	
		3,3'-Dichlorobenzidine	-83.1	
		Benzo(k)fluoranthene	28.9	
		Benzo(g,h,i)perylene	26.8	
		Benzyl Alcohol	93.9 (RRF = 0.027)	
9/22/95 - 11:25	S6978	2,4-Dimethylphenol	25.5	ES-04SRE, ES-10SRE
		Hexachlorocyclopentadiene	52.2	
		3,3'-Dichlorobenzidine	41.2	
		Di-n-octylphthalate	-29.5	
		Benzyl Alcohol	RRF = 0.027	

NOTES: ⁽¹⁾ - Percent Difference.

PALESSYR01\VOL1:WP\726521.02002\26521R08.DOC

In addition, the IS perylene-d12 response in samples ES-11 and ES-11RE exceeded the QC acceptance ranges of 124684-498736 and 104141-416564, respectively, with area counts of 676389 and 438618, respectively. Therefore, positive sample results were considered estimated and qualified "J" in ES-11 and ES-11RE for those compounds associated with this noncompliant IS.

Field Duplicate Precision

Sample ES-102S was collected as the field duplicate sample of ES-02S. ES-102S was submitted to the laboratory as a blind field duplicate sample to eliminate the potential of possible sample bias during analysis. All reported results for this duplicate pair were acceptable with the exception of those compounds summarized in Table 2.1.2-4 which exceeded RPD < 30%. These sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ". This may be indicative of matrix interferences resulting from the large naphthalene concentrations present in ES-02S and ES-102S.

Usability

All TCL semivolatile sample results were considered usable following data validation with the exception of the nondetected acid fraction compounds for ES-04S, ES-10S, and ES-10SRE due to poor acid surrogate recoveries in these samples, and the nondetected benzyl alcohol, 3,3'-dichlorobenzidine, 4-chloroaniline, and hexachlorocyclopentadiene results for certain samples due to poor initial and continuing calibrations.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The semivolatile data package presented by NEI was 96.5% complete. The validated semivolatile laboratory data are tabulated and presented in Attachment A. This table presents the most representative semivolatile data for a sample location resulting from validation.

For example, samples ES-02S, ES-102S, and ES-05 were reanalyzed at secondary dilutions (ES-02SDL, ES-102SDL, and ES-05DL, respectively) since certain semivolatile target compounds yielded concentrations that exceeded instrument calibration ranges during the original analysis. These certain TCL SVOCs were the following:

- naphthalene in ES-02S, ES-102S, and ES05;
- 2-methylnaphthalene in ES-102S and ES-05;
- acenaphthylene in ES-102S; and
- acenaphthene in ES-05.

All of the validated results from the diluted samples for these target SVOCs where instrument calibration ranges were exceeded in the original analysis were considered compliant, representative of the sample, qualified "D", and reported for the sample in the validated laboratory data table presented in Attachment A. However, the

TABLE 2.1.2-4
SEMIVOLATILE FIELD DUPLICATE VARIATIONS
ONEIDA

<u>COMPOUND</u>	<u>ES-02S</u> <u>CONCENTRATION ($\mu\text{g/L}$)</u>	<u>ES-102S</u> <u>CONCENTRATION ($\mu\text{g/L}$)</u>	<u>RPD</u> ⁽¹⁾
Naphthalene	6300	130,000	182
2-Methylnaphthalene	1000	14,000	173
Anthracene	200 U	23	159
Pyrene	200 U	21	162

NOTES: (1) - Relative Percent Difference.

U - Not Detected.

acenaphthylene result from the original analysis for ES-102S was considered representative of the sample and estimated due to the calibration range exceedance and qualified "J".

In addition, samples ES-04S and ES-10S were reextracted and reanalyzed (ES-04SRE and ES-10SRE, respectively) due to noncompliant acid surrogate recoveries during the original analysis. Although the reextracted samples exceeded reextraction holding times, sample results from the reanalysis of sample ES-04S were considered more compliant, representative of the sample, and reported for ES-04S in the validated laboratory data table presented in Attachment A. Sample ES-04S did not experience matrix effects since the reanalysis of this sample had improved surrogate recoveries. However, the reanalysis of ES-10S confirmed matrix effects in the sample since the reanalysis also experienced poor acid surrogate recoveries. Therefore, the original sample results were reported for ES-10S.

Sample ES-11 was reanalyzed (ES-11RE) due to high internal standard responses during the original analysis. Since sample ES-11RE also experienced high internal standard responses, matrix effects were confirmed and results from the original analysis were considered more compliant, representative of the sample, and reported for ES-11 in the validated laboratory data table presented in Attachment A.

2.1.3 TCL Pesticides/PCBs

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the pesticide/PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- MSB recoveries
- Laboratory method blank and field blank contamination
- Sample result verification and identification
- Initial calibrations
- Performance evaluation mixtures
- Verification calibrations
- Analytical sequence
- Cleanup efficiency
- Chromatogram quality
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries; MS/MSD precision and accuracy; initial calibrations; and field duplicate precision.

Surrogate Recoveries

Recoveries of sample surrogates were compliant and within QC advisory limits with the exception of those samples summarized in Table 2.1.3-1. Validation qualification was required for sample ES-02S and ES-102S since two surrogates were outside QC criteria. Results for these samples were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

Samples ES-11, ES-07, ES-02, ES-03, and FB-03 only had one surrogate outside criteria. Therefore, validation qualification was not required.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for groundwater location ES-03S. All of the relative percent differences (RPD) and spike recoveries (%R) were within QC limits with the exception of the high MSD recovery for gamma-BHC (134%; QC limit 56-123%), and the RPD exceedances for gamma-BHC (18%; QC limit 0-15%) and heptachlor (25%; QC limit 0-20%). Validation qualification was not warranted for the unspiked sample ES-03S since surrogate recoveries were within QC limits for this sample.

Initial Calibrations

All of the Individual Standard Mixes A and B of the initial calibrations met the linearity criteria of %RSD < 20% for both columns with the exception of delta-BHC for Individual Standard Mix B. The %RSD of this compound on column DB-608 was 23.13%. All samples were affected due to this noncompliance. Therefore, the results for delta-BHC in these samples were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

Field Duplicate Precision

Sample ES-102S was collected as the field duplicate sample of ES-02S. ES-102S was submitted to the laboratory as a blind field duplicate sample to eliminate the potential of possible sample bias during analysis. All reported results for this duplicate pair were acceptable with the exception of those compounds summarized in Table 2.1.3-2 which exceeded RPD < 30%. These sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ". This may be indicative of matrix interferences as confirmed by the low surrogate recoveries experienced in this sample.

Usability

All TCL pesticide/PCB sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The pesticide/PCB data package presented by NEI was 100% complete and all data were considered usable and valid. The validated data are tabulated and presented in Attachment A.

TABLE 2.1.3-1
PESTICIDE/PCB SAMPLE SURROGATE RECOVERY OUTLIERS
ONEIDA

<u>SAMPLE ID</u>	<u>TCX (%)</u>	<u>DBC (%)</u>	<u>DCB (%)</u>
ES-11	56	*	*
ES-07	*	*	46
ES-02	57	*	*
ES-102S	46	*	51
ES-03	50	*	*
FB-03	51	*	*
ES-02S	55	*	53

<u>SURROGATE</u>	<u>QC ADVISORY LIMITS</u>
TCX = Tetrachloro-m-xylene	60-150
DBC = Dibutylchloredate	24-154
DCB = Decachlorobiphenyl	60-150

NOTES: * - Surrogate recovery within advisory limits.

TABLE 2.1.3-2
PESTICIDE/PCB FIELD DUPLICATE VARIATIONS
ONEIDA

<u>COMPOUND</u>	<u>ES-02S</u> <u>CONCENTRATION ($\mu\text{g/L}$)</u>	<u>ES-102S</u> <u>CONCENTRATION ($\mu\text{g/L}$)</u>	<u>RPD</u> ⁽¹⁾
Alpha-BHC	0.05 U	0.08	46
Endosulfan I	0.05 U	0.12	82

NOTES: ⁽¹⁾ - Relative Percent Difference.

U - Not Detected.

2.1.4 Inorganics

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the inorganic analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, laboratory preparation, and field blank contamination
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample
- ICP serial dilution
- Furnace atomic absorption (AA) analysis
- Method of standard additions
- Sample result verification and identification
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of initial and continuing calibration verification recoveries; standard recoveries; matrix spike recoveries; laboratory duplicate precision; field duplicate precision; ICP serial dilution; furnace AA analysis; method of standard additions; and sample result identification.

Calibrations

All initial and continuing calibration verifications were compliant and considered acceptable with the exception of two initial calibration recoveries for cyanide (82.7% and 81.3%; QC limit 85-115%) and one continuing calibration recovery for lead by furnace AA analysis (86.4%; QC limit 90-110%). However, validation qualification was not required since no samples were affected by these noncompliances.

All CRDL standards for AA and ICP were analyzed at the appropriate concentrations and frequency and considered acceptable with the exception of the CRDL standards recovered outside the 80-120% criteria for those analytes summarized in Table 2.1.4-1. All positive results for zinc were considered estimated, possibly biased high, and qualified "J" in all samples since recoveries exceeded QC limits for the CRDL standard associated with the samples in this SDG. Validation qualification was not warranted for copper, lead by ICP, manganese, or selenium by ICP since samples were not affected.

TABLE 2.1.4-1
INORGANIC CRDL⁽¹⁾ STANDARD RECOVERY OUTLIERS
ONEIDA

<u>CRDL STANDARD ANALYTE</u>	<u>PERCENT RECOVERY (%)</u>	<u>AFFECTED SAMPLES</u>
Copper	137.6	None
Lead by ICP	160.2	None
Manganese	152.8	None
Selenium by ICP	121.5	None
Zinc	168.2	None
	129.4	None
	130.1	All
	132.9	None

NOTES: (1) - Contract Required Detection Limit.

Matrix Spike Recoveries

Matrix spike (MS) analyses were performed on samples ES-02S and ES-03S. All the MS recoveries were within the 75-125% control limits with the exception of silver (53.6% and 52%) associated with both spiked samples ES-02S and ES-03S, respectively, and lead by ICP (2495.6%), mercury (67.1%), and selenium (70%) associated with spiked samples ES-03S. All silver results for samples contained in this SDG were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ". Samples associated with spiked sample ES-03S (i.e., ES-01, ES-03S, ES-04, ES-04S, ES-05, ES-06, ES-08, ES-10, ES-10S, ES-11, ES-12, and ES-13) were not affected by the noncompliant lead recovery since lead was not analyzed by ICP in these samples. However, these samples were considered estimated for mercury and selenium, possibly biased low, with positive mercury and selenium results qualified "J" and nondetected results qualified "UJ".

Laboratory Duplicate Precision

Laboratory duplicate analyses were performed on samples ES-02S and ES-03S. The precision of all of the analytes were compliant with validation protocols with the exception of the RPD for mercury (52.2%) associated with the duplicate sample of ES-02S which exceeded the RPD < 50% criteria. Therefore, all mercury results for samples ES-02, ES-02S, ES-102S, ES-03, ES-07, and FB-03 were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

Field Duplicate Precision

Sample ES-102S was collected as the field duplicate sample of ES-02S. ES-102S was submitted to the laboratory as a blind field duplicate to eliminate the potential of possible sample bias during analysis. All reported results for this duplicate pair were acceptable with the exception of cyanide which was detected at a concentration of 32 µg/L in ES-02S and not detected in ES-102S. The RPD between these two results was 105%. Therefore, these results were considered estimated with the positive result qualified "J" and the nondetected result qualified "UJ". Matrix interference in the samples may be resulting in this nonhomogeneity.

ICP Serial Dilution

ICP serial dilutions for this SDG were performed on samples ES-02S and ES-03S. QC results for target analytes were compliant except for those analytes summarized in Table 2.1.4-2 which exceeded the %D > 10% criteria. Positive sample results $\geq 10 \times$ the IDL for these analytes in the affected samples in this SDG were considered estimated with positive results qualified "J".

Furnace AA Analysis

The furnace AA analysis was performed on furnace metals arsenic, lead, selenium, and thallium. All duplicate injections agreed within 20% RSD or Coefficient of Variation (CV) for concentrations greater than the CRDL and analytical spike recoveries were within the 85-115% control limits with the exception of those spike recoveries for AA metals summarized in Table 2.1.4-3. Those AA metals with analytical spike recoveries greater than 115% were considered estimated and qualified

TABLE 2.1.4-2
ICP SERIAL DILUTION OUTLIERS
ONEIDA

<u>ANALYTE</u>	<u>% D</u> ⁽¹⁾	<u>AFFECTED SAMPLES</u>
Aluminum	42.1	ES-02, ES-02S, ES-102S, ES-03, ES-07, FB-03
Barium	14.2	
Calcium	12.3	
Iron	14.7	
Magnesium	14.5	
Manganese	14.7	
Sodium	26.8	
Aluminum	20.7	ES-01, ES-03S, ES-04, ES-04S, ES-05, ES-06, ES-08, ES-10, ES-10S, ES-11, ES-12, ES-13
Zinc	18.6	

NOTES: (1) - Percent Difference.

TABLE 2.1.4-3
INORGANIC AA ANALYTICAL SPIKE RECOVERY OUTLIERS
ONEIDA

<u>AA ANALYTE</u>	<u>SPIKE RECOVERY (%)</u>	<u>AFFECTED SAMPLES</u>
Arsenic	84	ES-10
Lead	122	ES-02
	118	ES-01
Selenium	84	ES-01
	81	ES-03S
	57	ES-05
	50	ES-06
	72	ES-11
	55	ES-13
	50	ES-04S
	73	ES-10
	71	ES-10S
Thallium	80	ES-02
	84	ES-13
	82	ES-04
	78	ES-04S
	79	ES-08
	74	ES-10
	80	ES-10S

"J" in the affected samples. For those AA metals with analytical spike recoveries less than 85 %, sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

Method of Standard Additions

Method of standard additions (MSA) were performed by the laboratory when warranted. All MSA correlation coefficients were greater than the QC criteria of 0.995 with the exception of arsenic in ES-01 (0.9907) and ES-10S (0.9921). The positive arsenic results for these samples were considered estimated and qualified "J".

Sample Result Identification

All inorganic sample results contained in this SDG were verified with the raw sample data. It was noted that many sodium sample results exceeded the ICP linear range of 50,000 $\mu\text{g/L}$. Therefore, since these samples were not reanalyzed for sodium at a dilution, all sodium sample results exceeding a concentration of 50,000 $\mu\text{g/L}$ were considered estimated and qualified "J".

Usability

All inorganic sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The inorganic data package presented by NEI was 100% complete and all data were considered valid and usable. The validated inorganic laboratory data are tabulated and presented in Attachment A.

2.2 SDG ONEI1

Data review has been completed for SDG ONEI1 data packages generated by NEI containing surface soil samples collected from the Oneida site. The specific samples contained in this SDG, the analyses performed, and a usability summary are presented in Table 2.2-1. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data for this SDG are presented in Attachment A.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs and the NYSDEC ASP for organic and inorganic data review. This data validation and usability report is presented by analysis type.

2.2.1 TCL Volatiles

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy

TABLE 2.2-1
SUMMARY OF SAMPLE ANALYSES AND USABILITY FOR SDG ONE11
ONEIDA

<u>SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLE DATE</u>	<u>TCL VOCs</u>	<u>TCL SVOCs</u>	<u>TCL PESTICIDES/PCBs</u>	<u>INORGANICS</u>	<u>OTHER⁽¹⁾</u>	<u>FOOTNOTES</u>
SS-15	Soil	07/28/95	OK	NO	OK	OK	OK	1,3
SS-115	Soil	07/28/95	OK	NO	OK	OK	OK	1,3
SS-20	Soil	07/28/95	OK	NO	OK	OK	OK	1,3
SS-21	Soil	07/28/95	NO	NO	OK	OK	OK	1, 2,3
TOTAL SAMPLES:			3	4	4	4	4	

NOTES: ⁽¹⁾ - Sample analysis includes total organic carbon.

OK - Sample analysis considered valid and usable.

NO - Sample analysis has noncompliance(s) resulting in unusable data. See appropriate footnote.

FOOTNOTES: 1 - Semivolatile holding times grossly exceeded in reextracted sample, but original sample considered OK.

2 - Poor volatile internal standard response; reanalyzed sample considered OK.

3 - Poor semivolatile continuing calibration linearity for benzyl alcohol.

- Matrix spike blank (MSB) recoveries
- Laboratory method blank and field/trip blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries; blank contamination; initial and continuing calibrations; and internal standards.

Surrogate Recoveries

All sample surrogate recoveries were within QC limits with the exception of the bromofluorobenzene (BFB) recoveries in SS-21 (59%) and SS-21RE (72%) which were below the QC limit of 74-121%, and the surrogate toluene-d8 in these samples recovered above the QC limit of 81-117% at 177% and 138%, respectively. Therefore, all sample results for SS-21 and SS-21RE were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ".

Blank Contamination

The MSB associated with the samples in this SDG contained methylene chloride at a concentration of 2 $\mu\text{g}/\text{kg}$ which was below the CRDL of 10 $\mu\text{g}/\text{kg}$. The validation action concentration was 20 $\mu\text{g}/\text{kg}$ (10 times the respective concentration found in the blank) since methylene chloride is a common laboratory contaminant. Therefore, all associated sample results for methylene chloride with concentrations greater than the CRDL and greater than the validation action concentration were acceptable and reported unqualified. However, all associated sample results with concentrations greater than the CRDL and less than the validation action concentration were considered not detected at the sample concentration value given and qualified "U". If the associated sample results were at concentrations less than the CRDL and less than the validation action concentration, then the sample concentration was considered not detected at the CRDL. Due to the contamination found in this MSB, this may be indicative of volatile sample contamination from the laboratory.

Initial and Continuing Calibrations

The initial calibration performed on 7/11/95 using instrument HPP was compliant with a minimum relative response factor (RRF) of 0.05 and a maximum relative standard deviation (%RSD) of 30% with the exception of acetone (75.5%) and 2-butanone (38.5%) which were outside the QC limits for %RSD only. The positive sample results for these noncompliant compounds were considered estimated and qualified "J" in all of the samples contained in this SDG.

The continuing calibration checks were performed on 8/2/95 and 8/3/95 using instrument HPP. All calibration compounds were compliant with a minimum RRF of 0.05 and a maximum percent difference (%D) of $\pm 25\%$ with the exceptions noted in Table 2.2.1-1. The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in the affected samples. However, the nondetected acetone result for sample SS-21RE was considered unusable and qualified "R" since the %D was greater than 90% in the associated continuing calibration.

Internal Standards

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area count within -50% to +100% and retention times within ± 0.5 minutes of the standard) with the exception of all the ISs in sample SS-21 which responded below QC acceptance ranges. The area count for the IS bromochloromethane in this sample was 30029 (QC limit 41625-166500); the area count for the IS 1,4-difluorobenzene was 144463 (QC limit 214622-858486); and the area count for the IS chlorobenzene-d5 was 50771 (QC limit 163746-654982). Therefore, all sample results were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in SS-21. However, the nondetected TCL VOCs in this sample associated with the IS chlorobenzene-d5 were considered unusable and qualified "R" since an extremely low response was experienced for this IS.

Usability

All TCL volatile sample results were considered usable following data validation with the exception of the nondetected acetone result in SS-21RE due to a poor continuing calibration, and the nondetected TCL VOCs associated with IS chlorobenzene-d5 in SS-21 due to a poor response for this IS.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness and comparability. The volatile data package presented by NEI was 93.3% complete. The validated volatile laboratory data are tabulated and presented in Attachment A. This table presents the most representative volatile data for a sample location resulting from validation.

For example, sample SS-21 was reanalyzed (SS-21RE) due to low IS responses and noncompliant surrogate recoveries during the original analysis. Although the reanalysis experienced similar surrogate recoveries confirming possible matrix interferences, sample results from the reanalysis of sample SS-21 were considered more compliant, representative of the sample, and reported for SS-21 in the validated laboratory data table presented in Attachment A.

2.2.2 TCL Semivolatiles

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the semivolatile analysis:

- Custody documentation
- Holding times

TABLE 2.2.1-1
VOLATILE CONTINUING CALIBRATION OUTLIERS
ONEIDA

<u>CONTINUING CALIBRATION DATE - TIME</u>	<u>FILE ID</u>	<u>COMPOUND</u>	<u>%D ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
8/2/95 - 08:07	P6339	Acetone	-89.5	SS-15, SS-115, SS-20, SS-21
		2-Butanone	-48.0	
8/3/95 - 08:05	P6360	Acetone	-116.0	SS-21RE
		2-Butanone	-44.9	

NOTES: ⁽¹⁾ - Percent Difference.

- Surrogate recoveries
- MS/MSD precision and accuracy
- MSB recoveries
- Laboratory method blank and field blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times; MS/MSD precision and accuracy; MSB recoveries; sample result identification; and initial calibration and continuing calibrations.

Holding Times

All semivolatile samples were within the holding time requirements for extraction and analysis with the exception of the reextracted samples SS-15RE, SS-115RE, SS-20RE, SS-20DLRE, and SS-21RE which grossly exceeded the ten day reextraction holding time requirement by seventeen days. Therefore, positive results for these samples were considered estimated and qualified "J" and nondetected results were considered unusable and qualified "R".

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for surface soil sample location SS-15. All of the relative percent differences (RPD) and all of the spike recoveries (%R) were within the QC limits with the exception of the high MS recovery for phenol (114% in the MS, 93% in the reanalyzed MS; QC limit 26-90%). Validation qualification was not warranted for this noncompliance since phenol recoveries in the MSD were within criteria and phenol was not detected in the unspiked sample.

MSB Recoveries

All MSB recoveries of spiked compounds were within QC acceptance ranges with the exception of the high recoveries for phenol (128%; QC limit 26-90%), 2-chlorophenol (106%; QC limit 25-102%), and pentachlorophenol (120%; QC limit 17-109%). Validation qualification was not warranted for samples contained in this SDG based upon these noncompliances since these recoveries may be resulting from laboratory spiking error.

Sample Result Identification

All positive results for TCL SVOCs in samples contained in this SDG were confirmed present and verified with the raw sample data. However, the presence of benzo(k)fluoranthene and benzo(b)fluoranthene in SS-15 were considered presumptive since these stereoisomers were indistinguishable on the sample chromatogram and in

the raw data (i.e., these compounds eluted at the same retention time and have the same primary ion). Therefore, these compounds were qualified "N" for SS-15.

Initial and Continuing Calibrations

The initial calibrations performed on 8/30/95 and 9/12/95 using instrument HPQ were compliant with a minimum relative response factor (RRF) of 0.05 and a maximum relative standard deviation (%RSD) of 30% with the exception of those compounds summarized in Table 2.2.2-1 which were outside the QC limits for %RSD only. The positive sample results for these noncompliant compounds were considered estimated and qualified "J" in the affected samples.

The continuing calibration checks were performed on 9/6/95, 9/8/95, and 9/12/95 using instrument HPQ. All calibration compounds were compliant with a minimum RRF of 0.05 and a maximum %D of $\pm 25\%$ with the exception of those compounds summarized in Table 2.2.2-2 which were outside the $\pm 25\%$ QC limit. The sample results for these noncompliant compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" in the affected samples. The nondetected benzyl alcohol results for samples SS-15, SS-115, SS-115RE, SS-20, SS-20RE, SS-21, and SS-21RE were considered unusable and qualified "R" since the %D was greater than $\pm 90\%$ in the associated continuing calibrations.

Usability

All TCL semivolatile sample results were considered usable following data validation with the exception of the nondetected results for samples SS-15RE, SS-115RE, SS-20RE, SS-20DLRE, and SS-21RE which grossly exceeded reextraction holding times, and the nondetected benzyl alcohol results for SS-15, SS-115, SS-115RE, SS-20, SS-20RE, SS-21, and SS-21RE due to poor continuing calibrations associated with these samples.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness and comparability. The semivolatile package presented by NEI was 55.9% complete. The validated semivolatile laboratory data are tabulated and presented in Attachment A. This table presents the most representative semivolatile data for a sample location resulting from validation.

For example, samples SS-15, SS-115, SS-20, and SS-21 were reextracted and reanalyzed (SS-15RE, SS-115RE, SS-20RE, and SS-21RE, respectively) since the MSB surrogate recoveries were noncompliant during the original analyses of these samples. Although MSB surrogate recoveries were improved during the reanalysis, the reanalyzed samples grossly exceeded reextraction holding times. Therefore, sample results from the original analyses of samples SS-15, SS-115, SS-20, and SS-21 were considered representative and reported in the validated laboratory data table presented in Attachment A.

TABLE 2.2.2-1
SEMIVOLATILE INITIAL CALIBRATION OUTLIERS
ONEIDA

<u>INITIAL CALIBRATION DATE - INSTRUMENT</u>	<u>COMPOUND</u>	<u>%RSD ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
8/30/95 - HPQ	Bis(2-chloroethyl)ether	37.4	SS-15, SS-115, SS-115RE, SS-20, SS-20RE, SS-21 SS-21RE
	Benzyl Alcohol	73.1	
9/12/95 - HPQ	4-Chloroaniline	41.0	SS-15RE, SS-20DLRE

NOTES: (1) - Relative Standard Deviation.

TABLE 2.2.2-2
SEMIVOLATILE CONTINUING CALIBRATION OUTLIERS
ONEIDA

**CONTINUING
CALIBRATION**

<u>DATE - TIME</u>	<u>FILE ID</u>	<u>COMPOUND</u>	<u>%D ⁽¹⁾</u>	<u>AFFECTED SAMPLES</u>
9/6/95 - 14:26	Q7235	4-Chloroaniline	-130.0	SS-15, SS-115, SS-20, SS-21
		3-Nitroaniline	-35.2	
		3,3'-Dichlorobenzidine	-59.2	
		4-Nitrophenol	-47.4	
		4-Nitroaniline	-36.4	
		Bis(2-ethylhexyl)phthalate	-25.6	
		Benzo(k)fluoranthene	-32.2	
		Benzyl Alcohol	-277.0	
9/8/95 - 13:57	Q7298	Hexachlorocyclopentadiene	30.2	SS-115RE, SS-20RE, SS-21RE
		2-Nitroaniline	-38.7	
		2,4-Dinitrophenol	-27.4	
		2-Chlorophenol	-33.1	
		1,3-Dichlorobenzene	-30.0	
		1,4-Dichlorobenzene	-26.6	
		1,2-Dichlorobenzene	-39.6	
		4-Methylphenol	-52.3	
		N-Nitroso-di-n-propylamine	-29.3	
		Hexachloroethane	-43.9	
		3-Nitroaniline	-45.3	
		4-Nitrophenol	-74.5	
		4-Nitroaniline	-50.3	
		4,6-Dinitro-2-methylphenol	-26.7	
		Di-n-butylphthalate	-35.4	
		Butylbenzylphthalate	-30.2	
		Bis(2-ethylhexyl)phthalate	-32.4	
		Benzyl Alcohol	-348.0	
9/12/95 - 17:25	Q7323	2,4-dinitrophenol	30.3	SS-15RE, SS-20DLRE

NOTES: ⁽¹⁾ Percent Difference.

In addition, sample SS-20RE was reanalyzed at a secondary dilution (SS-20DLRE) since the concentrations for phenanthrene and fluoranthene exceeded the instrument calibration range during the analysis of SS-20RE. However, since neither results from SS-20RE nor SS-20DLRE were considered compliant due to grossly exceeded reextraction holding times, sample results from the original analysis (SS-20) were considered representative of the sampled media and reported in the validated laboratory data table.

2.2.3 TCL Pesticides/PCBs

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the pesticide/PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- MSB recoveries
- Laboratory method blank and field blank contamination
- Sample result verification and identification
- Initial calibrations
- Performance evaluation mixtures
- Verification calibrations
- Analytical sequence
- Cleanup efficiency
- Chromatogram quality
- Field duplicate precision
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries and MS/MSD precision and accuracy.

Surrogate Recoveries

Recoveries of sample surrogates were compliant and within QC advisory limits with the exception of those samples summarized in Table 2.2.3-1. Positive sample results for SS-20 and SS-21 were considered estimated and qualified "J" since all surrogate recoveries exceeded QC advisory limits in these samples. Validation qualification was not required for sample SS-15 due to only one noncompliant surrogate.

TABLE 2.2.3-1
PESTICIDE/PCB SAMPLE SURROGATE RECOVERY OUTLIERS
ONEIDA

<u>SAMPLE ID</u>	<u>TCX (%)</u>	<u>DBC (%)</u>	<u>DCB (%)</u>
SS-15	*	*	180
SS-20	168	162	241
SS-21	151	152	154

<u>SURROGATE</u>	<u>QC ADVISORY LIMITS</u>
TCX = Tetrachloro-m-xylene	60-150
DBC = Dibutylchloredate	20-150
DCB = Decachlorobiphenyl	60-150

NOTES: * - Surrogate recovery within advisory limits.

MS/MSD Precision and Accuracy

MS/MSD analyses were performed for surface soil location SS-15. All of the RPDs and spike recoveries were within QC limits with the exception of the high MS recovery for 4,4'-DDT (135%; QC limit 23-134%), and the high MSD recoveries for heptachlor (132%; QC limit 35-130%), and dieldrin (141%; QC limit 31-134%). Validation qualification was not warranted for the unspiked sample SS-15 due to nondetected sample results.

Usability

All TCL pesticide/PCB sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The pesticide/PCB data package presented by NEI was 100% complete and all data were considered usable and valid. The validated data were tabulated and presented in Attachment A.

2.2.4 Inorganics

The following items were reviewed for compliancy and transcription/calculation accuracy from the raw data in the inorganic analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, laboratory preparation, and field blank contamination
- Inductively coupled plasma (ICP) interference check sample
- Matrix spike recoveries
- Laboratory duplicate precision
- Field duplicate precision
- Laboratory control sample
- ICP serial dilution
- Furnace atomic absorption (AA) analysis
- Method of standard additions
- Sample result verification and identification
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of calibration standard recoveries; matrix spike recoveries; laboratory duplicate precision; laboratory control sample; ICP serial dilution; furnace AA analysis; and sample result identification.

Calibrations

All CRDL standards for AA and ICP were analyzed at the appropriate concentrations and frequency and considered acceptable with the exception of CRDL standards which were recovered outside the 80-120% criteria for those analytes summarized in Table 2.2.4-1. Positive sample results for zinc were considered estimated and qualified "J" in all samples since CRDL recoveries exceeded 120%. Validation qualification was not warranted for copper, lead by ICP, manganese, or selenium by ICP since samples were not affected.

Matrix Spike Recoveries

The matrix spike (MS) analysis was performed on sample SS-15. All the MS recoveries were within the 75-125% control limits and have concentrations less than four times the spiking concentration with the exception of the recoveries for antimony (64.1%), selenium (68%), silver (46.3%), thallium (69%), and cyanide (44.6%). All sample results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

Laboratory Duplicate Precision

The laboratory duplicate analysis was performed on sample SS-15. The precision of all of the analytes were compliant with the exception of aluminum (20.8%), calcium (39.6%), chromium (87.9%), lead by ICP (46.2%), magnesium (35.0%), and zinc (27.6%) which exceeded the RPD < 20% criteria. Validation qualification was not warranted for these analytes in the samples for this SDG since the RPDs did not exceed the validation criteria of 100%.

Laboratory Control Sample

All laboratory control sample results were within the specified QC limits for this SDG with the exception of the concentration for silver (9.1 mg/kg) which fell below the QC concentration limit of 29.4-95.5 mg/kg. Therefore, all silver results for samples in this SDG were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

ICP Serial Dilution

The ICP serial dilution for this SDG was performed on sample SS-15. QC results for target metals were compliant except for zinc. Zinc was detected at a level greater than ten times the instrument detection limit and had a percent difference (%D) greater than 10%. The %D for zinc was 12.2%. All zinc values in this SDG were considered estimated and qualified "J" for positive results and "UJ" for nondetected results.

Furnace AA Analysis

The furnace AA analysis was performed on furnace metals arsenic, lead, selenium, and thallium. All duplicate injections agreed within 20% RSD or Coefficient of Variation (CV) for concentrations greater than the CRDL and analytical spike recoveries were within the 85-115% control limits with the exception of the thallium spike recovery for SS-20 (84%). The nondetected thallium result for this sample was considered estimated and qualified "UJ" since the spike recovery was below 85%.

TABLE 2.2.4-1
INORGANIC CRDL⁽¹⁾ STANDARD RECOVERY OUTLIERS
ONEIDA

<u>CRDL STANDARD ANALYTE</u>	<u>PERCENT RECOVERY (%)</u>	<u>AFFECTED SAMPLES</u>
Copper	137.6	None
Lead by ICP	160.2	None
Manganese	152.8	None
Selenium by ICP	121.5	None
Zinc	168.2	None
	129.4	None
	130.1	All
	132.9	None

NOTES: (1) Contract Required Detection Limit.

Sample Result Identification

All inorganic sample results contained in this SDG were verified with the raw sample data. It was noted that the calcium result for SS-20 exceeded the ICP linear range. Therefore, since this sample was not reanalyzed for calcium at a dilution, the calcium result for SS-20 was considered estimated and qualified "J".

Usability

All inorganic sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The inorganic data package presented by NEI was 100% complete and all inorganic data were considered valid and usable. The validated inorganic laboratory data are tabulated and presented in Attachment A.

ATTACHMENT A
VALIDATED LABORATORY DATA BY SDG

ATTACHMENT A-1
VALIDATED DATA FOR SDG GW1

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-01 2454007 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 07/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 07/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 07/27/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 U	10 U		1 JN	10 U
74-83-9	Bromomethane	UG/L	10 U	10 U		10 UJ	10 U
75-01-4	Vinyl Chloride	UG/L	10 U	10 U		10 UJ	10 U
75-00-3	Chloroethane	UG/L	10 U	10 U		10 UJ	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 UJ	10 U		5 J	10 U
75-15-0	Carbon Disulfide	UG/L	10 U	10 U		10 UJ	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U		10 UJ	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 U	10 U		10 UJ	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U		10 UJ	10 U
67-66-3	Chloroform	UG/L	10 U	10 U		10 UJ	10 U
107-08-2	1,2-Dichloroethane	UG/L	10 U	10 U		10 UJ	10 U
78-93-3	2-Butanone	UG/L	10 UJ	10 U		10 UJ	10 U
71-55-8	1,1,1-Trichloroethane	UG/L	10 U	10 U		10 UJ	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U		10 UJ	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U		10 UJ	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U		10 UJ	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U		10 UJ	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U		10 UJ	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U		10 UJ	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U		66 J	10 U
71-43-2	Benzene	UG/L	10 U	8 J		2000 D	42
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U		10 UJ	10 U
75-25-2	Bromoform	UG/L	10 U	10 U		10 UJ	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ		10 UJ	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U	10 U		10 UJ	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U		10 UJ	10 U
108-88-3	Toluene	UG/L	10 U	100		3200 D	4 J
108-90-7	Chlorobenzene	UG/L	10 U	10 U		10 UJ	10 U
100-41-4	Ethylbenzene	UG/L	10 U	19		3000 D	21
100-42-5	Styrene	UG/L	10 U	10 U		10 UJ	10 U
1330-20-7	Xylene (total)	UG/L	10 U	530 J		5200 D	14
108-05-4	Vinyl Acetate	UG/L	10 U	10 UJ		10 UJ	10 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP R/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-01 2454007 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 07/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 07/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 07/27/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	10 U	200 U	200 U	13 J	40 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 UJ	200 U	200 U	20 U	40 U
95-57-8	2-Chlorophenol	UG/L	10 U	200 U	200 U	20 U	40 U
541-73-1	1,3-Dichlorobenzene	UG/L	10 UJ	200 U	200 U	20 U	40 U
106-46-7	1,4-Dichlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
95-50-1	1,2-Dichlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
95-48-7	2-Methylphenol	UG/L	10 UJ	200 U	200 U	11 J	40 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 UJ	200 UJ	200 UJ	20 UJ	40 U
106-44-5	4-Methylphenol	UG/L	10 UJ	200 U	25 J	27	40 U
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U	200 U	200 U	20 U	40 U
67-72-1	Hexachloroethane	UG/L	10 U	200 U	200 U	20 U	40 U
98-95-3	Nitrobenzene	UG/L	10 U	200 U	200 U	20 UJ	40 U
78-59-1	Isophorone	UG/L	10 U	200 U	200 U	20 UJ	40 U
88-75-5	2-Nitrophenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
105-67-9	2,4-Dimethylphenol	UG/L	10 U	200 U	48 J	20 UJ	40 U
120-83-2	2,4-Dichlorophenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U	200 U	200 U	20 UJ	40 U
91-20-3	Naphthalene	UG/L	10 U	1000	6300 D	130000 DJ	40 U
106-47-8	4-Chloroaniline	UG/L	10 U	200 UJ	200 UJ	20 UJ	40 UJ
87-68-3	Hexachlorobutadiene	UG/L	10 U	200 U	200 U	20 UJ	40 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U	200 U	200 U	20 UJ	40 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U	200 U	200 U	20 UJ	40 U
91-57-6	2-Methylnaphthalene	UG/L	10 U	320	1000 J	14000 JD	40 U
77-47-4	Hexachlorocyclopentadiene	UG/L	10 UJ	200 U	200 U	20 U	40 U
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U	200 U	200 U	20 U	40 U
95-95-4	2,4,5-Trichlorophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
91-58-7	2-Chloronaphthalene	UG/L	10 U	200 U	200 U	20 U	40 U
88-74-4	2-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
131-11-3	Dimethylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
208-96-8	Acenaphthylene	UG/L	10 U	120 J	280	260 J	21 J
606-20-2	2,6-Dinitrotoluene	UG/L	10 U	200 U	200 U	20 U	40 U
99-09-2	3-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 U
83-32-9	Acenaphthene	UG/L	10 U	200 U	68 J	80	100
51-28-5	2,4-Dinitrophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
100-02-7	4-Nitrophenol	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
132-84-9	Dibenzofuran	UG/L	10 U	200 U	200 U	17 J	8 J
121-14-2	2,4-Dinitrotoluene	UG/L	10 U	200 U	200 U	20 U	40 U
84-66-2	Diethylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U	200 U	200 U	20 U	40 U
86-73-7	Fluorene	UG/L	10 U	34 J	80 J	97	39 J
100-01-6	4-Nitroaniline	UG/L	50 U	1000 U	1000 U	100 U	200 UJ
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U	200 U	200 U	20 U	40 U
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U	200 U	200 U	20 U	40 U
118-74-1	Hexachlorobenzene	UG/L	10 U	200 U	200 U	20 U	40 U
87-86-5	Pentachlorophenol	UG/L	50 U	1000 U	1000 U	100 U	200 U
85-01-8	Phenanthrene	UG/L	10 U	34 J	66 J	74	44
120-12-7	Anthracene	UG/L	10 U	200 U	200 UJ	23 J	13 J
86-74-8	Carbazole	UG/L	10 U	200 U	30 J	33	40 U
84-74-2	Di-n-butylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
206-44-0	Fluoranthene	UG/L	10 U	200 U	200 U	17 J	12 J
129-00-0	Pyrene	UG/L	10 U	200 U	200 UJ	21 J	13 J
85-68-7	Butylbenzylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	20 U	400 UJ	400 UJ	40 UJ	R
56-55-3	Benzo(a)anthracene	UG/L	10 U	200 U	200 U	8 J	40 U
218-01-9	Chrysene	UG/L	10 U	200 U	200 U	20 U	40 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	10 U	200 U	200 U	20 U	40 U
117-84-0	Di-n-octylphthalate	UG/L	10 U	200 U	200 U	20 U	40 U
205-99-2	Benzo(b)fluoranthene	UG/L	10 UJ	200 U	200 U	4 JN	40 U
207-08-9	Benzo(k)fluoranthene	UG/L	10 U	200 U	200 U	4 JN	40 U
50-32-8	Benzo(a)pyrene	UG/L	10 U	200 U	200 U	6 J	40 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 U	200 U	200 U	3 J	40 U
53-70-3	Dibenz(a,h)anthracene	UG/L	10 U	200 U	200 U	20 U	40 U
191-24-2	Benzo(g,h,i)perylene	UG/L	10 U	200 U	200 U	4 J	40 U
100-51-6	Benzyl Alcohol	UG/L	10 U	R	R	R	R

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-01 2454007 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02 2455702 NYTEST GW1 WATER 07/26/95 10/02/95	ES-02S 2455706 NYTEST GW1 WATER 07/27/95 10/02/95	ES-102S 2455703 NYTEST GW1 WATER 07/27/95 10/02/95	ES-03 2455704 NYTEST GW1 WATER 07/27/95 10/02/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.08 J	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.11 J	0.09 J	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U	0.05 UJ	0.12 J	0.16
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 UJ	1 UJ	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
	INORGANICS						
7429-90-5	Aluminum	UG/L	370	345	848 J	713 J	1460 J
7440-36-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	53.8 J	13.2	15.7	17.4	5 U
7440-39-3	Barium	UG/L	68.6 J	2740 J	592 J	585 J	323 J
7440-41-7	Beryllium	UG/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	142000	66200 J	206000 J	204000 J	174000 J
7440-47-3	Chromium	UG/L	4.6 U	4.6 U	4.6 U	4.6 U	4.8 J
7440-48-4	Cobalt	UG/L	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
7440-50-8	Copper	UG/L	19.6 J	26.1	35.9	23.8 J	37.9
7439-89-6	Iron	UG/L	6980	1850 J	52900 J	52100 J	5670 J
7439-92-1	Lead	UG/L	3 U	3 U	301	298	7.3
7439-95-4	Magnesium	UG/L	55600	46400 J	31400 J	31100 J	72200 J
7439-98-5	Manganese	UG/L	51.4	54 J	720 J	715 J	410 J
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	2.2 J	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	4.4 U	4.4 U	5.5 J	4.4 U	5.2 J
7440-09-7	Potassium	UG/L	3270 J	3570 J	14700	14400	7410
7782-49-2	Selenium	UG/L	5 UJ	5 U	5 U	5 U	5 U
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	72400 J	485000 J	117000 J	115000 J	129000 J
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 U	5 U	5 U
7440-62-2	Vanadium	UG/L	4.7 U	4.7 U	5 J	4.7 U	4.7 U
7440-66-6	Zinc	UG/L	43.8 J	18.3 J	254 J	254 J	36.8 J
57-12-5	Cyanide	UG/L	10 U	10 U	32 J	10 UJ	10 U
57-12-5A	Amenable Cyanide	UG/L			17 J		
	OTHERS						
7440-44-0	Total Organic Carbon	MG/L		7.5			
10-29-7	pH	SU		7.14			
ES-5026	Alkalinity, Total	MG/L		206			
ES-5001	Biochemical Oxygen Demand	MG/L		3 U			
ES-5050	Carbonate	MG/L		1 U			
10-27-5	Chemical Oxygen Demand	MG/L		3 U			
16667-00-6	Chloride	MG/L		733			
11-02-9	Hardness	MG/L		331			
7757-79-1	Nitrate, Nitrogen	MG/L		0.04			
7632-00-0	Nitrite, Nitrogen	MG/L		0.01			
ES-5025	Oil & Grease	MG/L		5			
14806-79-8	Sulfate	MG/L		3 U			
18496-25-8	Sulfide	MG/L		0.6			
ES-5006	Total Dissolved Solids	MG/L		1720			

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-03S 2454008 NYTEST GW1 WATER 07/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 07/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 07/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 07/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
74-83-9	Bromomethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
67-64-1	Acetone	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 UJ	10 U	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 UJ	10 U	10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 UJ	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 UJ	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	10 U	6 J	10 U	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	UG/L	10 U	10 U	10 U	86	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ	10 U	10 UJ	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	2 J	10 U
108-90-7	Chlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	510 D	10 U
100-42-5	Styrene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	76	10 U
108-05-4	Vinyl Acetate	UG/L	10 U	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-03S 2454008 NYTEST GW1 WATER 07/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 07/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 07/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 07/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
95-57-8	2-Chlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
541-73-1	1,3-Dichlorobenzene	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-46-7	1,4-Dichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-50-1	1,2-Dichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-48-7	2-Methylphenol	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-44-5	4-Methylphenol	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
621-64-7	N-Nitroso-di-n-propylamine	UG/L	20 U	10 U	10 UJ	10 U	10 U
67-72-1	Hexachloroethane	UG/L	20 U	10 U	10 UJ	10 U	10 U
98-95-3	Nitrobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
78-59-1	Isophorone	UG/L	20 U	10 U	10 UJ	10 U	10 U
88-75-5	2-Nitrophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
105-67-9	2,4-Dimethylphenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
120-83-2	2,4-Dichlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-20-3	Naphthalene	UG/L	20 U	10 U	10 UJ	130 D	10 U
106-47-8	4-Chloroaniline	UG/L	20 U	10 U	10 UJ	10 U	10 U
87-68-3	Hexachlorobutadiene	UG/L	20 U	10 U	10 UJ	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	20 U	10 U	10 UJ	10 U	10 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-57-6	2-Methylnaphthalene	UG/L	20 U	10 U	10 UJ	140 D	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L	20 UJ	10 UJ	10 UJ	10 UJ	10 UJ
88-06-2	2,4,6-Trichlorophenol	UG/L	20 U	10 U	10 UJ	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
91-58-7	2-Chloronaphthalene	UG/L	20 U	10 U	10 UJ	10 U	10 U
88-74-4	2-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
131-11-3	Dimethylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
208-96-8	Acenaphthylene	UG/L	20 U	10 U	10 UJ	7 J	10 U
606-20-2	2,6-Dinitrotoluene	UG/L	20 U	10 U	10 UJ	10 U	10 U
99-09-2	3-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
83-32-9	Acenaphthene	UG/L	20 U	10 U	10 UJ	82 D	10 U
51-28-5	2,4-Dinitrophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
100-02-7	4-Nitrophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
132-64-9	Dibenzofuran	UG/L	20 U	10 U	10 UJ	2 J	10 U
121-14-2	2,4-Dinitrotoluene	UG/L	20 U	10 U	10 UJ	10 U	10 U
84-66-2	Diethylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	20 U	10 U	10 UJ	10 U	10 U
86-73-7	Fluorene	UG/L	20 U	10 U	10 UJ	20	10 U
100-01-6	4-Nitroaniline	UG/L	100 U	50 U	50 UJ	50 U	50 U
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
86-30-6	N-Nitrosodiphenylamine	UG/L	20 U	10 U	10 UJ	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	UG/L	20 U	10 U	10 UJ	10 U	10 U
118-74-1	Hexachlorobenzene	UG/L	20 U	10 U	10 UJ	10 U	10 U
87-86-5	Pentachlorophenol	UG/L	100 U	50 U	50 UJ	50 U	50 U
85-01-8	Phenanthrene	UG/L	20 U	10 U	10 UJ	10	10 U
120-12-7	Anthracene	UG/L	20 U	10 U	10 UJ	1 J	10 U
86-74-8	Carbazole	UG/L	20 U	10 U	10 UJ	10 U	10 U
84-74-2	Di-n-butylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
206-44-0	Fluoranthene	UG/L	20 U	10 U	10 UJ	10 U	10 U
129-00-0	Pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	40 U	20 U	20 UJ	20 U	20 U
56-55-3	Benzo(a)anthracene	UG/L	20 U	10 U	10 UJ	10 U	10 U
218-01-9	Chrysene	UG/L	20 U	10 U	10 UJ	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	20 U	10 U	10 UJ	10 U	10 U
117-84-0	Di-n-octylphthalate	UG/L	20 UJ	10 UJ	10 UJ	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	20 U	10 U	10 UJ	10 UJ	10 UJ
207-08-9	Benzo(k)fluoranthene	UG/L	20 U	10 U	10 UJ	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	20 U	10 U	10 UJ	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	20 U	10 U	10 UJ	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	20 U	10 U	10 UJ	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L	20 U	10 U	R	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-03S 2454008 NYTEST GW1 WATER 07/26/95 10/02/95	ES-04 2453204 NYTEST GW1 WATER 07/25/95 10/02/95	ES-04S 2453203 NYTEST GW1 WATER 07/25/95 10/02/95	ES-05 2454005 NYTEST GW1 WATER 07/26/95 10/02/95	ES-06 2454006 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 U	1 U	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	INORGANICS						
7429-90-5	Aluminum	UG/L	3150 J	542 J	6290 J	12800 J	18200 J
7440-36-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	6.6 J	11.2	17.7	13	15.3
7440-39-3	Barium	UG/L	498	109 J	1230	1190	954
7440-41-7	Beryllium	UG/L	0.3 U	0.3 U	0.69 J	0.95 J	1.1 J
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	258000	138000	420000	316000	398000
7440-47-3	Chromium	UG/L	6.5 J	4.6 U	11	20.2	29.8
7440-48-4	Cobalt	UG/L	5 J	4.4 U	17.4 J	17.7 J	24.9 J
7440-50-8	Copper	UG/L	11.4 J	16.9 J	112	56.5	114
7439-89-6	Iron	UG/L	25600	3450	26200	32200	41200
7439-92-1	Lead	UG/L	24.3	3.3	40.8	132	63.5
7439-95-4	Magnesium	UG/L	33300	64500	134000	103000	118000
7439-96-5	Manganese	UG/L	758	106	2940	1570	2140
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	13.5 J	4.4 U	28.6 J	35 J	45.8
7440-09-7	Potassium	UG/L	14500	3140 J	18200	5910	6700
7782-49-2	Selenium	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	131000 J	79500 J	257000 J	76300 J	34300
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 UJ	5 U	5 U
7440-62-2	Vanadium	UG/L	7.4 J	4.7 U	25.6 J	38.2 J	45.4 J
7440-66-6	Zinc	UG/L	142 J	15.9 J	143 J	208 J	168 J
57-12-5	Cyanide	UG/L	78	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L	10 U				
	OTHERS						
7440-44-0	Total Organic Carbon	MG/L				55.2	
10-29-7	pH	SU				6.7	
ES-5026	Alkalinity, Total	MG/L				538	
ES-5001	Biochemical Oxygen Demand	MG/L				3 U	
ES-5050	Carbonate	MG/L				1 U	
10-27-5	Chemical Oxygen Demand	MG/L				22	
16667-00-6	Chloride	MG/L				133	
11-02-9	Hardness	MG/L				458	
7757-79-1	Nitrate, Nitrogen	MG/L				0.54	
7632-00-0	Nitrite, Nitrogen	MG/L				0.04	
ES-5025	Oil & Grease	MG/L				3	
14806-79-8	Sulfate	MG/L				52	
18496-25-8	Sulfide	MG/L				7.4	
ES-5006	Total Dissolved Solids	MG/L				734	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-07 2455701 NYTEST GW1 WATER 07/27/95 10/02/95	ES-08 2453205 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10 2453201 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10S 2453202 NYTEST GW1 WATER 07/25/95 10/02/95	ES-11 2454002 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 U	10 U	10 UJ	2 J	10 U
74-83-9	Bromomethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ	10 UJ	12 U	10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 U	10 U	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	3 J	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 U	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 U	10 U	10 UJ	10 U	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	1 J	10 U	8 J	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	UG/L	69	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
591-78-6	2-Hexanone	UG/L	10 UJ	10 U	10 UJ	10 U	10 U
127-18-4	Tetrachloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	4 J	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	350 D	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	480 D	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L	10 UJ	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP R1/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-07 2455701 NYTEST GW1 WATER 07/27/95 10/02/95	ES-08 2453205 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10 2453201 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10S 2453202 NYTEST GW1 WATER 07/25/95 10/02/95	ES-11 2454002 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	100 U	10 U	10 U	R	10 U
111-44-4	bis(2-Chloroethyl)Ether	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
95-57-8	2-Chlorophenol	UG/L	100 U	10 U	10 U	R	10 U
541-73-1	1,3-Dichlorobenzene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
106-46-7	1,4-Dichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	UG/L	100 U	10 UJ	10 UJ	R	10 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	100 UJ	10 UJ	10 UJ	10 UJ	10 UJ
106-44-5	4-Methylphenol	UG/L	100 U	10 UJ	10 UJ	R	10 UJ
621-64-7	N-Nitroso-di-n-propylamine	UG/L	100 U	10 U	10 U	10 U	10 U
67-72-1	Hexachloroethane	UG/L	100 U	10 U	10 U	10 U	10 U
98-95-3	Nitrobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	UG/L	100 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	UG/L	100 U	10 U	10 U	R	10 U
105-67-9	2,4-Dimethylphenol	UG/L	100 U	10 U	10 U	R	10 U
120-83-2	2,4-Dichlorophenol	UG/L	100 U	10 U	10 U	R	10 U
120-82-1	1,2,4-Trichlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	UG/L	340	10 U	10 U	10 U	10 U
106-47-8	4-Chloroaniline	UG/L	100 UJ	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	UG/L	100 U	10 U	10 U	10 U	10 U
111-91-1	bis(2-Chloroethoxy)methane	UG/L	100 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-Methylphenol	UG/L	100 U	10 U	10 U	R	10 U
91-57-6	2-Methylnaphthalene	UG/L	140	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
88-06-2	2,4,6-Trichlorophenol	UG/L	100 U	10 U	10 U	R	10 U
95-95-4	2,4,5-Trichlorophenol	UG/L	500 U	50 U	50 U	R	50 U
91-58-7	2-Chloronaphthalene	UG/L	100 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
131-11-3	Dimethylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
208-96-8	Acenaphthylene	UG/L	100 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	UG/L	100 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
83-32-9	Acenaphthene	UG/L	140	10 U	10 U	10 U	10 U
51-28-5	2,4-Dinitrophenol	UG/L	500 U	50 U	50 U	R	50 U
100-02-7	4-Nitrophenol	UG/L	500 U	50 U	50 U	R	50 U
132-64-9	Dibenzofuran	UG/L	22 J	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	UG/L	100 U	10 U	10 U	10 U	10 U
84-66-2	Diethylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl-phenylether	UG/L	100 U	10 U	10 U	10 U	10 U
86-73-7	Fluorene	UG/L	65 J	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	UG/L	500 U	50 U	50 U	50 U	50 U
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	500 U	50 U	50 U	R	50 U
86-30-6	N-Nitrosodiphenylamine	UG/L	100 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	UG/L	100 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	UG/L	100 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	UG/L	500 U	50 U	50 U	R	50 U
85-01-8	Phenanthrene	UG/L	70 J	10 U	10 U	10 U	10 U
120-12-7	Anthracene	UG/L	17 J	10 U	10 U	10 U	10 U
86-74-8	Carbazole	UG/L	43 J	10 U	10 U	10 U	10 U
84-74-2	Di-n-butylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	UG/L	10 J	10 U	10 U	10 U	10 U
129-00-0	Pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
85-68-7	Butylbenzylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	UG/L	200 UJ	20 U	20 U	20 U	20 U
56-55-3	Benzo(a)anthracene	UG/L	100 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	UG/L	100 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	100 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octylphthalate	UG/L	100 U	10 U	10 U	10 U	10 U
205-99-2	Benzo(b)fluoranthene	UG/L	100 U	10 UJ	10 UJ	10 UJ	10 UJ
207-08-9	Benzo(k)fluoranthene	UG/L	100 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	100 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	UG/L	100 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	UG/L	100 U	10 U	10 U	10 U	10 U
100-51-6	Benzyl Alcohol	UG/L	R	10 U	10 U	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	ES-07 2455701 NYTEST GW1 WATER 07/27/95 10/02/95	ES-08 2453205 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10 2453201 NYTEST GW1 WATER 07/25/95 10/02/95	ES-10S 2453202 NYTEST GW1 WATER 07/25/95 10/02/95	ES-11 2454002 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND	UNITS:					
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
959-98-8	Endosulfan I	UG/L	0.17	0.05 U	0.05 U	0.05 U	0.05 U
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 U	1 U	1 U
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
	INORGANICS						
7429-90-5	Aluminum	UG/L	1360 J	18900 J	1030 J	6320 J	3310 J
7440-38-0	Antimony	UG/L	36 U	36 U	36 U	36 U	36 U
7440-38-2	Arsenic	UG/L	5 U	21.3	5 UJ	5 J	6.7 J
7440-39-3	Barium	UG/L	328 J	948	370	421	322
7440-41-7	Beryllium	UG/L	0.3 U	0.98 J	0.3 U	0.61 J	0.3 U
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	1.5 J	0.8 U	0.8 U
7440-70-2	Calcium	UG/L	252000 J	328000	130000	360000	180000
7440-47-3	Chromium	UG/L	4.6 U	32.4	4.6 U	18.7	6.3 J
7440-48-4	Cobalt	UG/L	4.4 U	29.2 J	4.4 U	13.6 J	5.9 J
7440-50-8	Copper	UG/L	44.3	195	48.4	107	46.6
7439-89-6	Iron	UG/L	4460 J	52300	3820	18400	15700
7439-92-1	Lead	UG/L	12.2	43.6	3.1	43.2	10.6
7439-95-4	Magnesium	UG/L	42300 J	127000	60900	110000	56100
7439-96-5	Manganese	UG/L	1300 J	2170	98.5	2850	781
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
7440-02-0	Nickel	UG/L	4.6 J	60.2	4.4 U	25.1 J	10.3 J
7440-09-7	Potassium	UG/L	8730	15300	5080	23500	4230 J
7782-49-2	Selenium	UG/L	5 U	5 UJ	5 UJ	5 UJ	5 UJ
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ	5.3 UJ
7440-23-5	Sodium	UG/L	104000 J	174000 J	175000 J	392000 J	68800 J
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 UJ	5 UJ	5 U
7440-62-2	Vanadium	UG/L	7.5 J	43.7 J	4.7 U	24 J	7.3 J
7440-66-6	Zinc	UG/L	36.9 J	190 J	63.3 J	122 J	42.1 J
57-12-5	Cyanide	UG/L	94	10 U	10 U	10 U	10 U
57-12-5A	Amenable Cyanide	UG/L	75				
	OTHERS						
7440-44-0	Total Organic Carbon	MG/L	16.8		54.7	65.1	
10-29-7	pH	SU	6.34		7.17	6.88	
ES-5026	Alkalinity, Total	MG/L	527		359	583	
ES-5001	Biochemical Oxygen Demand	MG/L	3 U		3 U	3 U	
ES-5050	Carbonate	MG/L	1 U		1 U	1 U	
10-27-5	Chemical Oxygen Demand	MG/L	64		3 U	26	
16667-00-6	Chloride	MG/L	279		295	534	
11-02-9	Hardness	MG/L	695		487	722	
7757-79-1	Nitrate, Nitrogen	MG/L	0.14		0.46	0.57	
7632-00-0	Nitrite, Nitrogen	MG/L	0.03		0.02	0.02	
ES-5025	Oil & Grease	MG/L	5		1	3	
14806-79-8	Sulfate	MG/L	4		80	21	
18496-25-8	Sulfide	MG/L	4.7		2.2	3.9	
ES-5006	Total Dissolved Solids	MG/L	1240		1070	1800	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 07/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 07/26/95 10/02/95	FB-03 2455705 NYTEST GW1 WATER 07/27/95 10/02/95	TB-04 2453206 NYTEST GW1 WATER 07/25/95 10/02/95	TB-05 2454001 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND						
	VOLATILES						
74-87-3	Chloromethane	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
74-83-9	Bromomethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-01-4	Vinyl Chloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-00-3	Chloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
75-09-2	Methylene Chloride	UG/L	10 U	10 U	10 UJ	10 UJ	10 UJ
67-64-1	Acetone	UG/L	10 U	10 U	10 U	10 U	10 U
75-15-0	Carbon Disulfide	UG/L	10 U	10 U	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
67-66-3	Chloroform	UG/L	10 U	10 U	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-93-3	2-Butanone	UG/L	10 UJ	10 UJ	10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	2 J
56-23-5	Carbon Tetrachloride	UG/L	10 U	10 U	10 U	10 U	10 U
75-27-4	Bromodichloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U	10 U	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
79-01-6	Trichloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
124-48-1	Dibromochloromethane	UG/L	10 U	10 U	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
71-43-2	Benzene	UG/L	10 U	10 U	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	UG/L	10 U	10 U	10 U	10 U	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
591-78-6	2-Hexanone	UG/L	10 UJ	10 UJ	10 UJ	10 U	10 U
127-18-4	Tetrachloroethene	UG/L	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
108-88-3	Toluene	UG/L	10 U	10 U	10 U	10 U	10 U
108-90-7	Chlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-41-4	Ethylbenzene	UG/L	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	UG/L	10 U	10 U	10 U	10 U	10 U
1330-20-7	Xylene (total)	UG/L	10 U	10 U	10 U	10 U	10 U
108-05-4	Vinyl Acetate	UG/L	10 U	10 U	10 UJ	10 U	10 U

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 07/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 07/26/95 10/02/95	FB-03 2455705 NYTEST GW1 WATER 07/27/95 10/02/95	TB-04 2453206 NYTEST GW1 WATER 07/25/95 10/02/95	TB-05 2454001 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND						
	SEMIVOLATILES						
108-95-2	Phenol	UG/L	10 UJ	10 U	10 U		
111-44-4	bis(2-Chloroethyl)Ether	UG/L	10 U	10 UJ	10 U		
95-57-8	2-Chlorophenol	UG/L	10 U	10 U	10 U		
541-73-1	1,3-Dichlorobenzene	UG/L	10 UJ	10 UJ	10 U		
106-46-7	1,4-Dichlorobenzene	UG/L	10 U	10 U	10 U		
95-50-1	1,2-Dichlorobenzene	UG/L	10 UJ	10 U	10 U		
95-48-7	2-Methylphenol	UG/L	10 UJ	10 UJ	10 U		
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	10 UJ	10 UJ	10 UJ		
106-44-5	4-Methylphenol	UG/L	10 U	10 UJ	10 U		
621-64-7	N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U		
67-72-1	Hexachloroethane	UG/L	10 U	10 U	10 U		
98-95-3	Nitrobenzene	UG/L	10 U	10 U	10 U		
78-59-1	Isophorone	UG/L	10 U	10 U	10 U		
88-75-5	2-Nitrophenol	UG/L	10 U	10 U	10 U		
105-67-9	2,4-Dimethylphenol	UG/L	10 U	10 U	10 U		
120-83-2	2,4-Dichlorophenol	UG/L	10 U	10 U	10 U		
120-82-1	1,2,4-Trichlorobenzene	UG/L	10 U	10 U	10 U		
91-20-3	Naphthalene	UG/L	10 U	10 U	4 J		
106-47-8	4-Chloroaniline	UG/L	10 UJ	10 U	10 UJ		
87-68-3	Hexachlorobutadiene	UG/L	10 U	10 U	10 U		
111-91-1	bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U		
59-50-7	4-Chloro-3-Methylphenol	UG/L	10 U	10 U	10 U		
91-57-6	2-Methylnaphthalene	UG/L	10 U	10 U	10 U		
77-47-4	Hexachlorocyclopentadiene	UG/L	10 U	10 UJ	10 U		
88-06-2	2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U		
95-95-4	2,4,5-Trichlorophenol	UG/L	50 U	50 U	50 U		
91-58-7	2-Chloronaphthalene	UG/L	10 U	10 U	10 U		
88-74-4	2-Nitroaniline	UG/L	50 U	50 U	50 U		
131-11-3	Dimethylphthalate	UG/L	10 U	10 U	10 U		
208-96-8	Acenaphthylene	UG/L	10 U	10 U	10 U		
606-20-2	2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U		
99-09-2	3-Nitroaniline	UG/L	50 U	50 U	50 U		
83-32-9	Acenaphthene	UG/L	10 U	10 U	10 U		
51-28-5	2,4-Dinitrophenol	UG/L	50 U	50 U	50 U		
100-02-7	4-Nitrophenol	UG/L	50 U	50 U	50 U		
132-64-9	Dibenzofuran	UG/L	10 U	10 U	10 U		
121-14-2	2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U		
84-66-2	Diethylphthalate	UG/L	10 U	10 U	10 U		
7005-72-3	4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U		
86-73-7	Fluorene	UG/L	10 U	10 U	10 U		
100-01-6	4-Nitroaniline	UG/L	50 U	50 U	50 U		
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	50 U		
86-30-6	N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U		
101-55-3	4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U		
118-74-1	Hexachlorobenzene	UG/L	10 U	10 U	10 U		
87-86-5	Pentachlorophenol	UG/L	50 U	50 U	50 U		
85-01-8	Phenanthrene	UG/L	10 U	10 U	10 U		
120-12-7	Anthracene	UG/L	10 U	10 U	10 U		
86-74-8	Carbazole	UG/L	10 U	10 U	10 U		
84-74-2	Di-n-butylphthalate	UG/L	10 U	10 U	10 U		
206-44-0	Fluoranthene	UG/L	10 U	10 U	10 U		
129-00-0	Pyrene	UG/L	10 U	10 U	10 U		
85-68-7	Butylbenzylphthalate	UG/L	10 U	10 U	10 U		
91-94-1	3,3'-Dichlorobenzidine	UG/L	20 U	20 U	20 UJ		
56-55-3	Benzo(a)anthracene	UG/L	10 U	10 U	10 U		
218-01-9	Chrysene	UG/L	10 U	10 U	10 U		
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U		
117-84-0	Di-n-octylphthalate	UG/L	10 U	10 U	10 U		
205-99-2	Benzo(b)fluoranthene	UG/L	10 U	10 UJ	10 U		
207-08-9	Benzo(k)fluoranthene	UG/L	10 UJ	10 U	10 U		
50-32-8	Benzo(a)pyrene	UG/L	10 U	10 U	10 U		
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	10 UJ	10 U	10 U		
53-70-3	Dibenz(a,h)anthracene	UG/L	10 UJ	10 U	10 U		
191-24-2	Benzo(g,h,i)perylene	UG/L	10 UJ	10 U	10 U		
100-51-6	Benzyl Alcohol	UG/L	10 U	10 U	R		

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	ES-12 2454003 NYTEST GW1 WATER 07/26/95 10/02/95	ES-13 2454004 NYTEST GW1 WATER 07/26/95 10/02/95	FB-03 2455705 NYTEST GW1 WATER 07/27/95 10/02/95	TB-04 2453206 NYTEST GW1 WATER 07/25/95 10/02/95	TB-05 2454001 NYTEST GW1 WATER 07/26/95 10/02/95
CAS NO.	COMPOUND						
	PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/L	0.05 U	0.05 U	0.05 U		
319-85-7	beta-BHC	UG/L	0.05 U	0.05 U	0.05 U		
319-86-8	delta-BHC	UG/L	0.05 UJ	0.05 UJ	0.05 UJ		
58-89-9	gamma-BHC(Lindane)	UG/L	0.05 U	0.05 U	0.05 U		
76-44-8	Heptachlor	UG/L	0.05 U	0.05 U	0.05 U		
309-00-2	Aldrin	UG/L	0.05 U	0.05 U	0.05 U		
1024-57-3	Heptachlor Epoxide	UG/L	0.05 U	0.05 U	0.05 U		
959-98-8	Endosulfan I	UG/L	0.05 U	0.05 U	0.05 U		
60-57-1	Dieldrin	UG/L	0.1 U	0.1 U	0.1 U		
72-55-9	4,4'-DDE	UG/L	0.1 U	0.1 U	0.1 U		
72-20-8	Endrin	UG/L	0.1 U	0.1 U	0.1 U		
33213-65-9	Endosulfan II	UG/L	0.1 U	0.1 U	0.1 U		
72-54-8	4,4'-DDD	UG/L	0.1 U	0.1 U	0.1 U		
1031-07-8	Endosulfan Sulfate	UG/L	0.1 U	0.1 U	0.1 U		
50-29-3	4,4'-DDT	UG/L	0.1 U	0.1 U	0.1 U		
72-43-5	Methoxychlor	UG/L	0.5 U	0.5 U	0.5 U		
53494-70-5	Endrin Ketone	UG/L	0.1 U	0.1 U	0.1 U		
7421-93-4	Endrin Aldehyde	UG/L	0.1 U	0.1 U	0.1 U		
5103-71-9	alpha-Chlordane	UG/L	0.05 U	0.05 U	0.05 U		
5103-74-2	gamma-Chlordane	UG/L	0.05 U	0.05 U	0.05 U		
8001-35-2	Toxaphene	UG/L	1 U	1 U	1 U		
12674-11-2	Aroclor-1016	UG/L	0.5 U	0.5 U	0.5 U		
11104-28-2	Aroclor-1221	UG/L	0.5 U	0.5 U	0.5 U		
11141-16-5	Aroclor-1232	UG/L	0.5 U	0.5 U	0.5 U		
53469-21-9	Aroclor-1242	UG/L	0.5 U	0.5 U	0.5 U		
12672-29-6	Aroclor-1248	UG/L	0.5 U	0.5 U	0.5 U		
11097-69-1	Aroclor-1254	UG/L	0.5 U	0.5 U	0.5 U		
11096-82-5	Aroclor-1260	UG/L	0.5 U	0.5 U	0.5 U		
	INORGANICS						
7429-90-5	Aluminum	UG/L	7540 J	8230 J	121 J		
7440-36-0	Antimony	UG/L	36 U	36 U	36 U		
7440-38-2	Arsenic	UG/L	10.9	9.5 J	5 U		
7440-39-3	Barium	UG/L	521	829	23 U		
7440-41-7	Beryllium	UG/L	0.39 J	0.9 J	0.3 U		
7440-43-9	Cadmium	UG/L	0.8 U	0.8 U	0.8 U		
7440-70-2	Calcium	UG/L	353000	397000	664 U		
7440-47-3	Chromium	UG/L	14	12.1	4.6 U		
7440-48-4	Cobalt	UG/L	11.6 J	18.6 J	4.4 U		
7440-50-8	Copper	UG/L	75.4	60	16 J		
7439-89-6	Iron	UG/L	21500	23600	75 U		
7439-92-1	Lead	UG/L	34.2	27.6	3 U		
7439-95-4	Magnesium	UG/L	93300	86300	669 U		
7439-96-5	Manganese	UG/L	1580	1580	1.2 U		
7439-97-6	Mercury	UG/L	0.2 UJ	0.2 UJ	0.2 UJ		
7440-02-0	Nickel	UG/L	23 J	26.3 J	4.4 U		
7440-09-7	Potassium	UG/L	12800	4170 J	2360 U		
7782-49-2	Selenium	UG/L	5 UJ	5 UJ	5 U		
7440-22-4	Silver	UG/L	5.3 UJ	5.3 UJ	5.3 UJ		
7440-23-5	Sodium	UG/L	43600	81000 J	2890 U		
7440-28-0	Thallium	UG/L	5 U	5 UJ	5 U		
7440-62-2	Vanadium	UG/L	15.8 J	19 J	4.7 U		
7440-66-6	Zinc	UG/L	91.9 J	113 J	5 J		
57-12-5	Cyanide	UG/L	10 U	10 U	10 U		
57-12-5A	Amenable Cyanide	UG/L					
	OTHERS						
7440-44-0	Total Organic Carbon	MG/L					
10-29-7	pH	SU					
ES-5026	Alkalinity, Total	MG/L					
ES-5001	Biochemical Oxygen Demand	MG/L					
ES-5050	Carbonate	MG/L					
10-27-5	Chemical Oxygen Demand	MG/L					
16667-00-6	Chloride	MG/L					
11-02-9	Hardness	MG/L					
7757-79-1	Nitrate, Nitrogen	MG/L					
7632-00-0	Nitrite, Nitrogen	MG/L					
ES-5025	Oil & Grease	MG/L					
14806-79-8	Sulfate	MG/L					
18496-25-8	Sulfide	MG/L					
ES-5006	Total Dissolved Solids	MG/L					

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	TB-06 2455707 NYTEST GW1 WATER 07/27/95 10/02/95
CAS NO.	COMPOUND	UNITS:	
	VOLATILES		
74-87-3	Chloromethane	UG/L	10 U
74-83-9	Bromomethane	UG/L	10 U
75-01-4	Vinyl Chloride	UG/L	10 U
75-00-3	Chloroethane	UG/L	10 U
75-09-2	Methylene Chloride	UG/L	10 UJ
67-64-1	Acetone	UG/L	10 U
75-15-0	Carbon Disulfide	UG/L	10 U
75-35-4	1,1-Dichloroethene	UG/L	10 U
75-34-3	1,1-Dichloroethane	UG/L	10 U
540-59-0	1,2-Dichloroethene (total)	UG/L	10 U
67-66-3	Chloroform	UG/L	10 U
107-06-2	1,2-Dichloroethane	UG/L	10 U
78-93-3	2-Butanone	UG/L	10 U
71-55-6	1,1,1-Trichloroethane	UG/L	10 U
56-23-5	Carbon Tetrachloride	UG/L	10 U
75-27-4	Bromodichloromethane	UG/L	10 U
78-87-5	1,2-Dichloropropane	UG/L	10 U
10061-01-5	cis-1,3-Dichloropropene	UG/L	10 U
79-01-6	Trichloroethene	UG/L	10 U
124-48-1	Dibromochloromethane	UG/L	10 U
79-00-5	1,1,2-Trichloroethane	UG/L	10 U
71-43-2	Benzene	UG/L	10 U
10061-02-6	trans-1,3-Dichloropropene	UG/L	10 U
75-25-2	Bromoform	UG/L	10 U
108-10-1	4-Methyl-2-Pentanone	UG/L	10 UJ
591-78-6	2-Hexanone	UG/L	10 UJ
127-18-4	Tetrachloroethene	UG/L	10 U
79-34-5	1,1,2,2-Tetrachloroethane	UG/L	10 U
108-88-3	Toluene	UG/L	10 U
108-90-7	Chlorobenzene	UG/L	10 U
100-41-4	Ethylbenzene	UG/L	10 U
100-42-5	Styrene	UG/L	10 U
1330-20-7	Xylene (total)	UG/L	10 U
108-05-4	Vinyl Acetate	UG/L	10 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	TB-06 2455707 NYTEST GW1 WATER 07/27/95 10/02/95
CAS NO.	COMPOUND	UNITS:	
	SEMIVOLATILES		
108-95-2	Phenol	UG/L	
111-44-4	bis(2-Chloroethyl)Ether	UG/L	
95-57-8	2-Chlorophenol	UG/L	
541-73-1	1,3-Dichlorobenzene	UG/L	
106-46-7	1,4-Dichlorobenzene	UG/L	
95-50-1	1,2-Dichlorobenzene	UG/L	
95-48-7	2-Methylphenol	UG/L	
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/L	
106-44-5	4-Methylphenol	UG/L	
621-64-7	N-Nitroso-di-n-propylamine	UG/L	
67-72-1	Hexachloroethane	UG/L	
98-95-3	Nitrobenzene	UG/L	
78-59-1	Isophorone	UG/L	
88-75-5	2-Nitrophenol	UG/L	
105-67-9	2,4-Dimethylphenol	UG/L	
120-83-2	2,4-Dichlorophenol	UG/L	
120-82-1	1,2,4-Trichlorobenzene	UG/L	
91-20-3	Naphthalene	UG/L	
106-47-8	4-Chloroaniline	UG/L	
87-68-3	Hexachlorobutadiene	UG/L	
111-91-1	bis(2-Chloroethoxy)methane	UG/L	
59-50-7	4-Chloro-3-Methylphenol	UG/L	
91-57-6	2-Methylnaphthalene	UG/L	
77-47-4	Hexachlorocyclopentadiene	UG/L	
88-06-2	2,4,6-Trichlorophenol	UG/L	
95-95-4	2,4,5-Trichlorophenol	UG/L	
91-58-7	2-Chloronaphthalene	UG/L	
88-74-4	2-Nitroaniline	UG/L	
131-11-3	Dimethylphthalate	UG/L	
208-96-8	Acenaphthylene	UG/L	
606-20-2	2,6-Dinitrotoluene	UG/L	
99-09-2	3-Nitroaniline	UG/L	
83-32-9	Acenaphthene	UG/L	
51-28-5	2,4-Dinitrophenol	UG/L	
100-02-7	4-Nitrophenol	UG/L	
132-64-9	Dibenzofuran	UG/L	
121-14-2	2,4-Dinitrotoluene	UG/L	
84-66-2	Diethylphthalate	UG/L	
7005-72-3	4-Chlorophenyl-phenylether	UG/L	
86-73-7	Fluorene	UG/L	
100-01-6	4-Nitroaniline	UG/L	
534-52-1	4,6-Dinitro-2-methylphenol	UG/L	
86-30-6	N-Nitrosodiphenylamine	UG/L	
101-55-3	4-Bromophenyl-phenylether	UG/L	
118-74-1	Hexachlorobenzene	UG/L	
87-86-5	Pentachlorophenol	UG/L	
85-01-8	Phenanthrene	UG/L	
120-12-7	Anthracene	UG/L	
86-74-8	Carbazole	UG/L	
84-74-2	Di-n-butylphthalate	UG/L	
206-44-0	Fluoranthene	UG/L	
129-00-0	Pyrene	UG/L	
85-68-7	Butylbenzylphthalate	UG/L	
91-94-1	3,3'-Dichlorobenzidine	UG/L	
56-55-3	Benzo(a)anthracene	UG/L	
218-01-9	Chrysene	UG/L	
117-81-7	bis(2-Ethylhexyl)phthalate	UG/L	
117-84-0	Di-n-octylphthalate	UG/L	
205-99-2	Benzo(b)fluoranthene	UG/L	
207-08-9	Benzo(k)fluoranthene	UG/L	
50-32-8	Benzo(a)pyrene	UG/L	
193-39-5	Indeno(1,2,3-cd)pyrene	UG/L	
53-70-3	Dibenz(a,h)anthracene	UG/L	
191-24-2	Benzo(g,h,i)perylene	UG/L	
100-51-6	Benzyl Alcohol	UG/L	

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED GROUNDWATER DATA SDG: GW1		SAMPLE ID: TB-06 LAB ID: 2455707 SOURCE: NYTEST SDG: GW1 MATRIX: WATER SAMPLED: 07/27/95 VALIDATED: 10/02/95
CAS NO.	COMPOUND	UNITS:
	PESTICIDE/PCBs	
319-84-6	alpha-BHC	UG/L
319-85-7	beta-BHC	UG/L
319-86-8	delta-BHC	UG/L
58-89-9	gamma-BHC(Lindane)	UG/L
76-44-8	Heptachlor	UG/L
309-00-2	Aldrin	UG/L
1024-57-3	Heptachlor Epoxide	UG/L
959-98-8	Endosulfan I	UG/L
60-57-1	Dieldrin	UG/L
72-55-9	4,4'-DDE	UG/L
72-20-8	Endrin	UG/L
33213-65-9	Endosulfan II	UG/L
72-54-8	4,4'-DDD	UG/L
1031-07-8	Endosulfan Sulfate	UG/L
50-29-3	4,4'-DDT	UG/L
72-43-5	Methoxychlor	UG/L
53494-70-5	Endrin Ketone	UG/L
7421-93-4	Endrin Aldehyde	UG/L
5103-71-9	alpha-Chlordane	UG/L
5103-74-2	gamma-Chlordane	UG/L
8001-35-2	Toxaphene	UG/L
12674-11-2	Aroclor-1016	UG/L
11104-28-2	Aroclor-1221	UG/L
11141-16-5	Aroclor-1232	UG/L
53469-21-9	Aroclor-1242	UG/L
12672-29-6	Aroclor-1248	UG/L
11097-69-1	Aroclor-1254	UG/L
11096-82-5	Aroclor-1260	UG/L
	INORGANICS	
7429-90-5	Aluminum	UG/L
7440-36-0	Antimony	UG/L
7440-38-2	Arsenic	UG/L
7440-39-3	Barium	UG/L
7440-41-7	Beryllium	UG/L
7440-43-9	Cadmium	UG/L
7440-70-2	Calcium	UG/L
7440-47-3	Chromium	UG/L
7440-48-4	Cobalt	UG/L
7440-50-8	Copper	UG/L
7439-89-6	Iron	UG/L
7439-92-1	Lead	UG/L
7439-95-4	Magnesium	UG/L
7439-96-5	Manganese	UG/L
7439-97-6	Mercury	UG/L
7440-02-0	Nickel	UG/L
7440-09-7	Potassium	UG/L
7782-49-2	Selenium	UG/L
7440-22-4	Silver	UG/L
7440-23-5	Sodium	UG/L
7440-28-0	Thallium	UG/L
7440-62-2	Vanadium	UG/L
7440-66-6	Zinc	UG/L
57-12-5	Cyanide	UG/L
57-12-5A	Amenable Cyanide	UG/L
	OTHERS	
7440-44-0	Total Organic Carbon	MG/L
10-29-7	pH	SU
ES-5026	Alkalinity, Total	MG/L
ES-5001	Biochemical Oxygen Demand	MG/L
ES-5050	Carbonate	MG/L
10-27-5	Chemical Oxygen Demand	MG/L
16667-00-6	Chloride	MG/L
11-02-9	Hardness	MG/L
7757-79-1	Nitrate, Nitrogen	MG/L
7632-00-0	Nitrite, Nitrogen	MG/L
ES-5025	Oil & Grease	MG/L
14806-79-8	Sulfate	MG/L
18496-25-8	Sulfide	MG/L
ES-5006	Total Dissolved Solids	MG/L

ATTACHMENT A-2
VALIDATED DATA FOR SDG ONEI1

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED SURFACE SOIL DATA SDG: ONEI 1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-15 2458301 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-115 2458304 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-20 2458305 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-21 2458306 NYTEST ONEI1 SOIL 07/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:				
	VOLATILES					
74-87-3	Chloromethane	UG/KG	11 U	11 U	11 U	11 UJ
74-83-9	Bromomethane	UG/KG	11 U	11 U	11 U	11 UJ
75-01-4	Vinyl Chloride	UG/KG	11 U	11 U	11 U	11 UJ
75-00-3	Chloroethane	UG/KG	11 U	11 U	11 U	11 UJ
75-09-2	Methylene Chloride	UG/KG	11 U	11 U	11 U	11 UJ
67-64-1	Acetone	UG/KG	11 UJ	11 UJ	11 UJ	R
75-15-0	Carbon Disulfide	UG/KG	11 U	11 U	11 U	11 UJ
75-35-4	1,1-Dichloroethene	UG/KG	11 U	11 U	11 U	11 UJ
75-34-3	1,1-Dichloroethane	UG/KG	11 U	11 U	11 U	11 UJ
540-59-0	1,2-Dichloroethene (total)	UG/KG	11 U	11 U	11 U	11 UJ
67-66-3	Chloroform	UG/KG	11 U	11 U	11 U	11 UJ
107-06-2	1,2-Dichloroethane	UG/KG	11 U	11 U	11 U	11 UJ
78-93-3	2-Butanone	UG/KG	11 UJ	11 UJ	11 UJ	11 UJ
71-55-6	1,1,1-Trichloroethane	UG/KG	11 U	11 U	11 U	11 UJ
56-23-5	Carbon Tetrachloride	UG/KG	11 U	11 U	11 U	11 UJ
75-27-4	Bromodichloromethane	UG/KG	11 U	11 U	11 U	11 UJ
78-87-5	1,2-Dichloropropane	UG/KG	11 U	11 U	11 U	11 UJ
10061-01-5	cis-1,3-Dichloropropene	UG/KG	11 U	11 U	11 U	11 UJ
79-01-6	Trichloroethene	UG/KG	11 U	11 U	11 U	11 UJ
124-48-1	Dibromochloromethane	UG/KG	11 U	11 U	11 U	11 UJ
79-00-5	1,1,2-Trichloroethane	UG/KG	11 U	11 U	11 U	11 UJ
71-43-2	Benzene	UG/KG	11 U	11 U	11 U	11 UJ
10061-02-6	trans-1,3-Dichloropropene	UG/KG	11 U	11 U	11 U	11 UJ
75-25-2	Bromoform	UG/KG	11 U	11 U	11 U	11 UJ
108-10-1	4-Methyl-2-Pentanone	UG/KG	11 U	11 U	11 U	11 UJ
591-78-6	2-Hexanone	UG/KG	11 U	11 U	11 U	11 UJ
127-18-4	Tetrachloroethene	UG/KG	11 U	11 U	11 U	11 UJ
79-34-5	1,1,2,2-Tetrachloroethane	UG/KG	11 U	11 U	11 U	11 UJ
108-88-3	Toluene	UG/KG	11 U	11 U	11 U	11 UJ
108-90-7	Chlorobenzene	UG/KG	11 U	11 U	11 U	11 UJ
100-41-4	Ethylbenzene	UG/KG	11 U	11 U	11 U	11 UJ
100-42-5	Styrene	UG/KG	11 U	11 U	11 U	11 UJ
1330-20-7	Xylene (total)	UG/KG	11 U	11 U	11 U	11 UJ
108-05-4	Vinyl Acetate	UG/KG	11 U	11 U	11 U	11 UJ

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED SURFACE SOIL DATA SDG: ONEI 1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED: UNITS:	SS-15 2458301 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-115 2458304 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-20 2458305 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-21 2458306 NYTEST ONEI1 SOIL 07/28/95 10/11/95
CAS NO.	COMPOUND					
	SEMIVOLATILES					
108-95-2	Phenol	UG/KG	750 U	750 U	15000 U	720 U
111-44-4	bis(2-Chloroethyl)Ether	UG/KG	750 U	750 U	15000 U	720 U
95-57-8	2-Chlorophenol	UG/KG	750 U	750 U	15000 U	720 U
541-73-1	1,3-Dichlorobenzene	UG/KG	750 U	750 U	15000 U	720 U
106-46-7	1,4-Dichlorobenzene	UG/KG	750 U	750 U	15000 U	720 U
95-50-1	1,2-Dichlorobenzene	UG/KG	750 U	750 U	15000 U	720 U
95-48-7	2-Methylphenol	UG/KG	750 U	750 U	15000 U	720 U
108-60-1	2,2'-oxybis(1-Chloropropane)	UG/KG	750 U	750 U	15000 U	720 U
106-44-5	4-Methylphenol	UG/KG	750 U	750 U	15000 U	720 U
621-64-7	N-Nitroso-di-n-propylamine	UG/KG	750 U	750 U	15000 U	720 U
67-72-1	Hexachloroethane	UG/KG	750 U	750 U	15000 U	720 U
98-95-3	Nitrobenzene	UG/KG	750 U	750 U	15000 U	720 U
78-59-1	Isophorone	UG/KG	750 U	750 U	15000 U	720 U
88-75-5	2-Nitrophenol	UG/KG	750 U	750 U	15000 U	720 U
105-67-9	2,4-Dimethylphenol	UG/KG	750 U	750 U	15000 U	720 U
120-83-2	2,4-Dichlorophenol	UG/KG	750 U	750 U	15000 U	720 U
120-82-1	1,2,4-Trichlorobenzene	UG/KG	750 U	750 U	15000 U	720 U
91-20-3	Naphthalene	UG/KG	750 U	750 U	15000 U	330 J
106-47-8	4-Chloroaniline	UG/KG	R	R	R	R
87-68-3	Hexachlorobutadiene	UG/KG	750 U	750 U	15000 U	720 U
111-91-1	bis(2-Chloroethoxy)methane	UG/KG	750 U	750 U	15000 U	720 U
59-50-7	4-Chloro-3-Methylphenol	UG/KG	750 U	750 U	15000 U	720 U
91-57-6	2-Methylnaphthalene	UG/KG	750 U	750 U	15000 U	390 J
77-47-4	Hexachlorocyclopentadiene	UG/KG	750 U	750 U	15000 U	720 U
88-06-2	2,4,6-Trichlorophenol	UG/KG	750 U	750 U	15000 U	720 U
95-95-4	2,4,5-Trichlorophenol	UG/KG	3700 U	3700 U	74000 U	3600 U
91-58-7	2-Chloronaphthalene	UG/KG	750 U	750 U	15000 U	720 U
88-74-4	2-Nitroaniline	UG/KG	3700 U	3700 U	74000 U	3600 U
131-11-3	Dimethylphthalate	UG/KG	750 U	750 U	15000 U	720 U
208-96-8	Acenaphthylene	UG/KG	370 J	380 J	15000 U	500 J
606-20-2	2,6-Dinitrotoluene	UG/KG	750 U	750 U	15000 U	720 U
99-09-2	3-Nitroaniline	UG/KG	3700 UJ	3700 UJ	74000 UJ	3600 UJ
83-32-9	Acenaphthene	UG/KG	750 U	750 U	4300 J	720 U
51-28-5	2,4-Dinitrophenol	UG/KG	3700 U	3700 U	74000 U	3600 U
100-02-7	4-Nitrophenol	UG/KG	3700 UJ	3700 UJ	74000 UJ	3600 UJ
132-64-9	Dibenzofuran	UG/KG	750 U	750 U	3800 J	270 J
121-14-2	2,4-Dinitrotoluene	UG/KG	750 U	750 U	15000 U	720 U
84-66-2	Diethylphthalate	UG/KG	750 U	750 U	15000 U	720 U
7005-72-3	4-Chlorophenyl-phenylether	UG/KG	750 U	750 U	15000 U	720 U
86-73-7	Fluorene	UG/KG	750 U	750 U	5700 J	720 U
100-01-6	4-Nitroaniline	UG/KG	3700 UJ	3700 UJ	74000 UJ	3600 UJ
534-52-1	4,6-Dinitro-2-methylphenol	UG/KG	3700 U	3700 U	74000 U	3600 U
86-30-6	N-Nitrosodiphenylamine	UG/KG	750 U	750 U	15000 U	720 U
101-55-3	4-Bromophenyl-phenylether	UG/KG	750 U	750 U	15000 U	720 U
118-74-1	Hexachlorobenzene	UG/KG	750 U	750 U	15000 U	720 U
87-86-5	Pentachlorophenol	UG/KG	3700 U	3700 U	74000 U	3600 U
85-01-8	Phenanthrene	UG/KG	580 J	600 J	48000	960
120-12-7	Anthracene	UG/KG	180 J	200 J	11000 J	350 J
86-74-8	Carbazole	UG/KG	88 J	81 J	7900 J	130 J
84-74-2	Di-n-butylphthalate	UG/KG	750 U	750 U	15000 U	720 U
206-44-0	Fluoranthene	UG/KG	1600	1700	55000	1600
129-00-0	Pyrene	UG/KG	1100	1100	28000	850
85-68-7	Butylbenzylphthalate	UG/KG	750 U	750 U	15000 U	720 U
91-94-1	3,3'-Dichlorobenzidine	UG/KG	1500 UJ	1500 UJ	30000 UJ	1400 UJ
56-55-3	Benzo(a)anthracene	UG/KG	680 J	710 J	19000	750
218-01-9	Chrysene	UG/KG	920	940	23000	1100
117-81-7	bis(2-Ethylhexyl)phthalate	UG/KG	150 J	140 J	15000 UJ	720 UJ
117-84-0	Di-n-octylphthalate	UG/KG	750 U	750 U	15000 U	720 U
205-99-2	Benzo(b)fluoranthene	UG/KG	780 N	1200	18000	1300
207-08-9	Benzo(k)fluoranthene	UG/KG	780 N	520 J	16000 J	920 J
50-32-8	Benzo(a)pyrene	UG/KG	930	950	18000	690 J
193-39-5	Indeno(1,2,3-cd)pyrene	UG/KG	350 J	240 J	4300 J	220 J
53-70-3	Dibenz(a,h)anthracene	UG/KG	750 U	750 U	15000 U	720 U
191-24-2	Benzo(g,h,i)perylene	UG/KG	330 J	200 J	2900 J	150 J
100-51-6	Benzyl Alcohol	UG/KG	R	R	R	R

NIAGARA MOHAWK POWER CORPORATION ONEIDA MGP RI/FS VALIDATED SURFACE SOIL DATA SDG: ONEI 1		SAMPLE ID: LAB ID: SOURCE: SDG: MATRIX: SAMPLED: VALIDATED:	SS-15 2458301 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-115 2458304 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-20 2458305 NYTEST ONEI1 SOIL 07/28/95 10/11/95	SS-21 2458306 NYTEST ONEI1 SOIL 07/28/95 10/11/95
CAS NO.	COMPOUND	UNITS:				
PESTICIDE/PCBs						
319-84-6	alpha-BHC	UG/KG	18 U	18 U	44 U	43 U
319-85-7	beta-BHC	UG/KG	18 U	18 U	44 U	43 U
319-86-8	delta-BHC	UG/KG	18 U	18 U	44 U	43 U
58-89-9	gamma-BHC (Lindane)	UG/KG	18 U	18 U	44 U	43 U
76-44-8	Heptachlor	UG/KG	18 U	18 U	44 U	43 U
309-70-2	Aldrin	UG/KG	18 U	18 U	44 U	43 U
1024-57-3	Heptachlor Epoxide	UG/KG	18 U	18 U	44 U	43 U
959-98-8	Endosulfan I	UG/KG	18 U	18 U	44 U	43 U
60-57-1	Dieldrin	UG/KG	36 U	36 U	89 U	86 U
72-55-9	4,4'-DDE	UG/KG	36 U	36 U	89 U	86 U
72-20-8	Endrin	UG/KG	36 U	36 U	89 U	86 U
33213-65-9	Endosulfan II	UG/KG	36 U	36 U	89 U	86 U
72-54-8	4,4'-DDD	UG/KG	36 U	36 U	89 U	86 U
1031-07-8	Endosulfan Sulfate	UG/KG	36 U	36 U	89 U	86 U
50-29-3	4,4'-DDT	UG/KG	36 U	36 U	89 U	86 U
72-43-5	Methoxychlor	UG/KG	180 U	180 U	440 U	430 U
53494-70-5	Endrin Ketone	UG/KG	36 U	36 U	130 J	86 U
7421-93-4	Endrin Aldehyde	UG/KG	36 U	36 U	89 U	86 U
5103-71-9	alpha-Chlordane	UG/KG	18 U	18 U	44 U	43 U
5103-74-2	gamma-Chlordane	UG/KG	18 U	18 U	44 U	43 U
8001-35-2	Toxaphene	UG/KG	360 U	360 U	890 U	860 U
12674-11-2	Aroclor-1016	UG/KG	180 U	180 U	440 U	430 U
11104-28-2	Aroclor-1221	UG/KG	180 U	180 U	440 U	430 U
11141-16-5	Aroclor-1232	UG/KG	180 U	180 U	440 U	430 U
53469-21-9	Aroclor-1242	UG/KG	180 U	180 U	440 U	430 U
12672-29-6	Aroclor-1248	UG/KG	180 U	180 U	440 U	430 U
11097-69-1	Aroclor-1254	UG/KG	180 U	180 U	440 U	430 U
11096-82-5	Aroclor-1260	UG/KG	180 U	180 U	440 U	430 U
INORGANICS						
7429-90-5	Aluminum	MG/KG	3570	3070	3260	4080
7440-36-0	Antimony	MG/KG	7.3 UJ	7 UJ	7 UJ	7.4 UJ
7440-38-2	Arsenic	MG/KG	3.3	2.6	2.6	14.6
7440-39-3	Barium	MG/KG	38.9 J	33.7 J	20.2 J	44.1
7440-41-7	Beryllium	MG/KG	0.17 J	0.14 J	0.15 J	0.28 J
7440-43-9	Cadmium	MG/KG	0.26 J	0.26 J	0.16 U	0.16 U
7440-70-2	Calcium	MG/KG	38800	39400	134000 J	50100
7440-47-3	Chromium	MG/KG	6.5	5.5	7.5	8.5
7440-48-4	Cobalt	MG/KG	4.4 J	3.9 J	3.7 J	5.9 J
7440-50-8	Copper	MG/KG	22.7	19.6	20.3	89.7
7439-89-6	Iron	MG/KG	8810	7580	8360	22800
7439-92-1	Lead	MG/KG	61.1	61.9	130	70.4
7439-95-4	Magnesium	MG/KG	4330	4680	7740	14400
7439-96-5	Manganese	MG/KG	610	506	286	513
7439-97-6	Mercury	MG/KG	0.28	0.24	0.11 U	0.15
7440-02-0	Nickel	MG/KG	7 J	6.4 J	9.2	13.2
7440-09-7	Potassium	MG/KG	482 U	459 U	859 J	917 J
7782-49-2	Selenium	MG/KG	1 UJ	1 UJ	0.93 UJ	0.99 UJ
7440-22-4	Silver	MG/KG	1.1 UJ	1 UJ	1 UJ	1.1 UJ
7440-23-5	Sodium	MG/KG	590 U	562 U	561 U	591 U
7440-28-0	Thallium	MG/KG	1 UJ	1 UJ	0.93 UJ	0.99 UJ
7440-62-2	Vanadium	MG/KG	8.1 J	7.2 J	10.8	12.2
7440-66-6	Zinc	MG/KG	56.2 J	45.7 J	93 J	66.9 J
57-12-5	Cyanide	MG/KG	0.83 J	1 J	1.7 J	1 J
57-12-5A	Amenable Cyanide	MG/KG	0.83 J	1 J	1.1 J	1 J
OTHER						
7440-44-0	Total Organic Carbon	MG/KG	28800	19100	54300	12100