APPENDIX A

MONITORING WELL CONSTRUCTION LOGS

Tetra Tech, Inc.

WELL No.: TT-MW-96 IAS

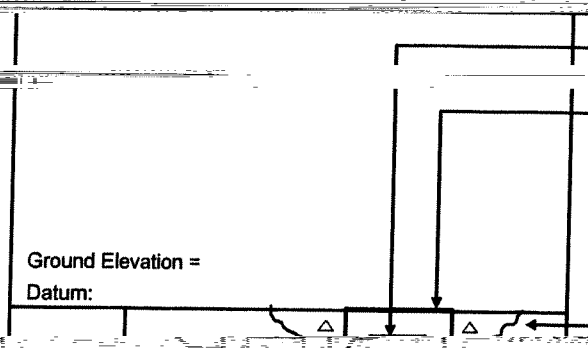
MONITORING WELL SHEET

PROJECT: Former AOC DRILLING Co.: Tri-Sonic BORING No.: KS-45

PROJECT No.: 116725 DRILLER: T. Kraus DATE COMPLETED: 2-3-05

SITE: Tuttle Rust DRILLING METHOD: Konsonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Ground Elevation =

Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2" 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 1192'

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 1194'

Elevation / Depth of Top of Screen: 1196'

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 1206.0

Elevation / Depth of Bottom of Filter Pack: 1206.5

Type of Backfill Below Well: Slough

Elevation / Total Depth of Borehole: 1206.5

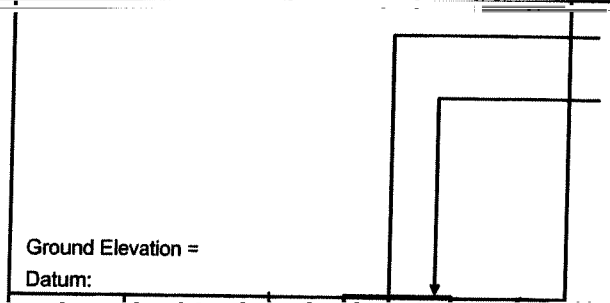
Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-97 IAS

MONITORING WELL SHEET

PROJECT:	Former ABC	DRILLING Co.:	Prosonic	BORING No.:	RS-24
PROJECT No.:	N1075	DRILLER:	F. Kraus	DATE COMPLETED:	2-5-05
SITE:	Tallevast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. Gleaton	DEV. METHOD:	Surge + Pump	EASTING:	



Ground Elevation =
Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8" 6"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 1202.6'

Type of Seal: 20/40 Sand, 30 Bentonite

Elevation / Depth of Top of Filter Pack: 1206.6'

Elevation / Depth of Top of Screen: 1206.6'

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/50 Sand

Elevation / Depth of Bottom of Screen: 1226.6'

Elevation / Depth of Bottom of Filter Pack: 1226.6'

Type of Backfill Below Well:

Not to Scale

Elevation / Total Depth of Borehole: 1226.6'

Tetra Tech, Inc.

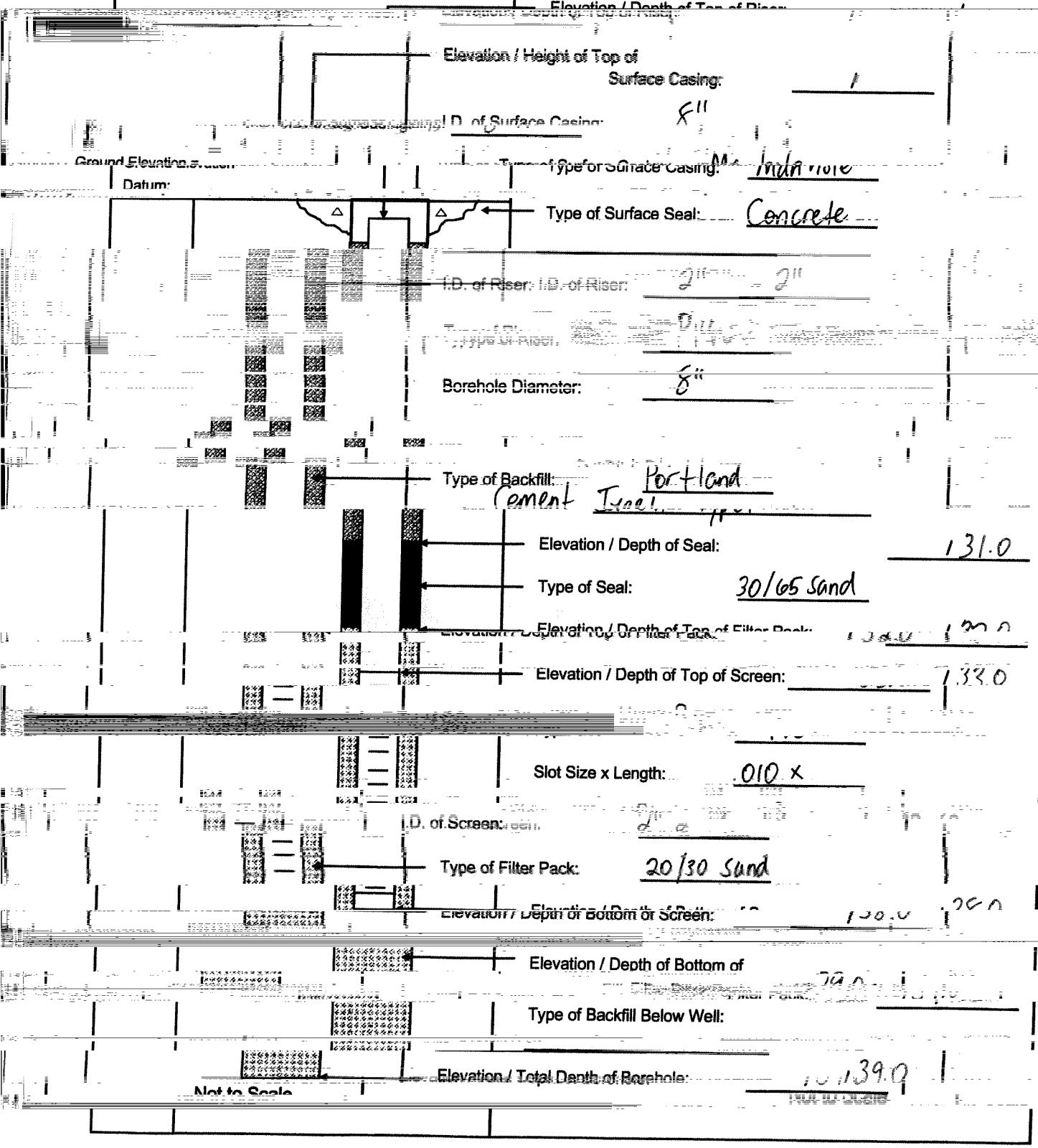
WELL NO.: TI-MW-16 [illegible]

MONITORING WELL SHEET

PROJECT: [illegible] DRILLING Co.: [illegible] BORING No.: VP-102

PROJECT No.: [illegible] DRILLER: [illegible] DATE COMPLETED: 2-4-05

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Tetra Tech, Inc.

MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Prosonic BORING No.: RS-27

PROJECT No.: N1035 DRILLER: E. Kraus DATE COMPLETED: 2-6-05

SITE: DRILLING METHOD: NORTHING:

PROJECT: S. Clarke DEVELOPMENT METHOD: Surge & Pump EASTING:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Ground Elevation =

Datum:

Type of Surface Casing: Man hole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: Pvc

Borehole Diameter: 6" 6

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 167.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 169.0

Elevation / Depth of Top of Screen: 171.0

Type of Screen: Pvc

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 181.0

Elevation / Depth of Bottom of Filter Pack: 181.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 181.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-100 USAS

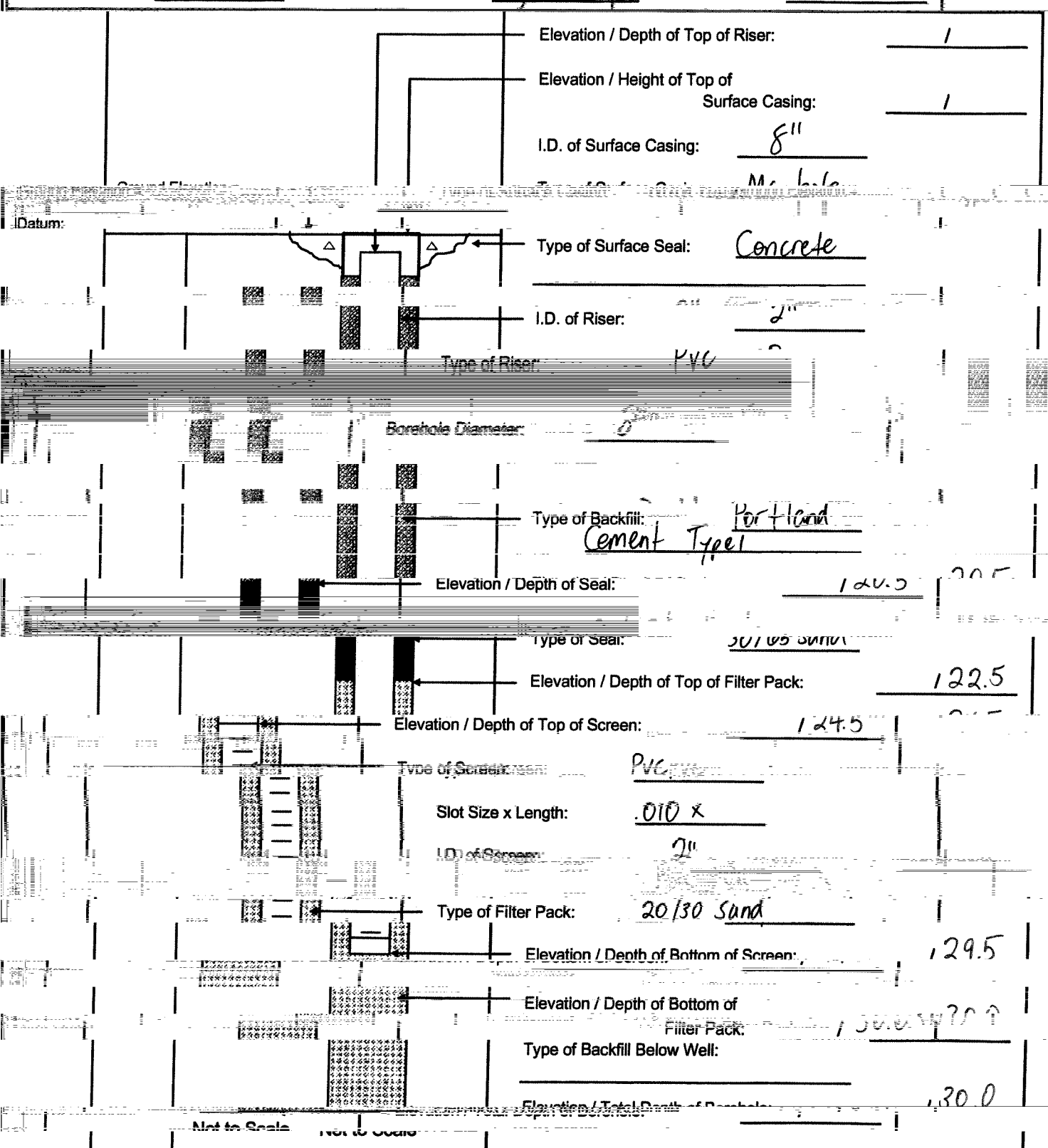
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Prosonic BORING No.: 05-27

PROJECT No.: N1075 DRILLER: V. Scott DATE COMPLETED: 2-6-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Datum:

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 120.5

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 122.5

Elevation / Depth of Top of Screen: 124.5

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 129.5

Elevation / Depth of Bottom of Filter Pack:

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 130.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-101 LSAS

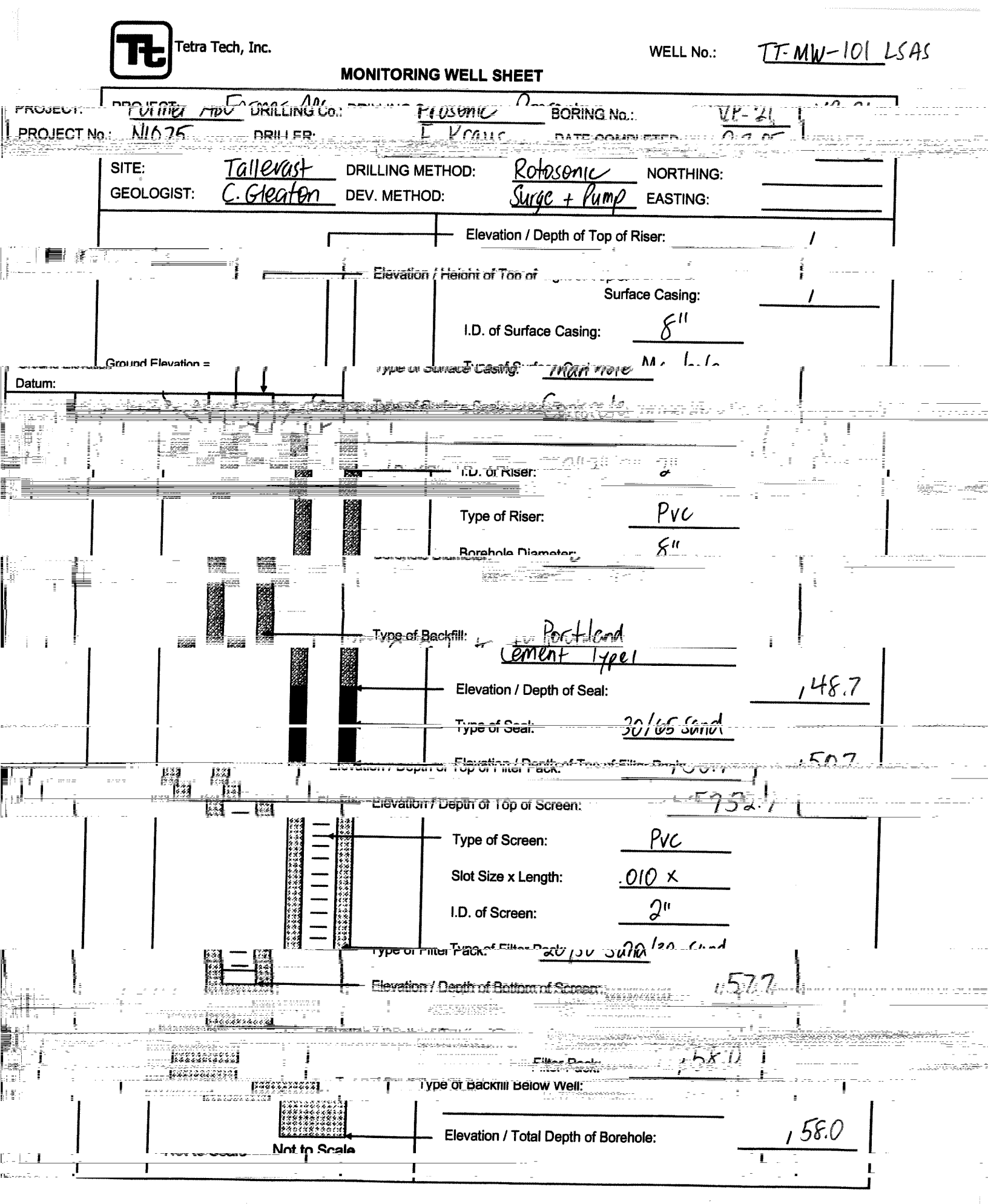
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Rotosonic BORING No.: VP-21

PROJECT No.: N1025 DRILLER: E Kraus DATE COMPLETED: 9-7-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

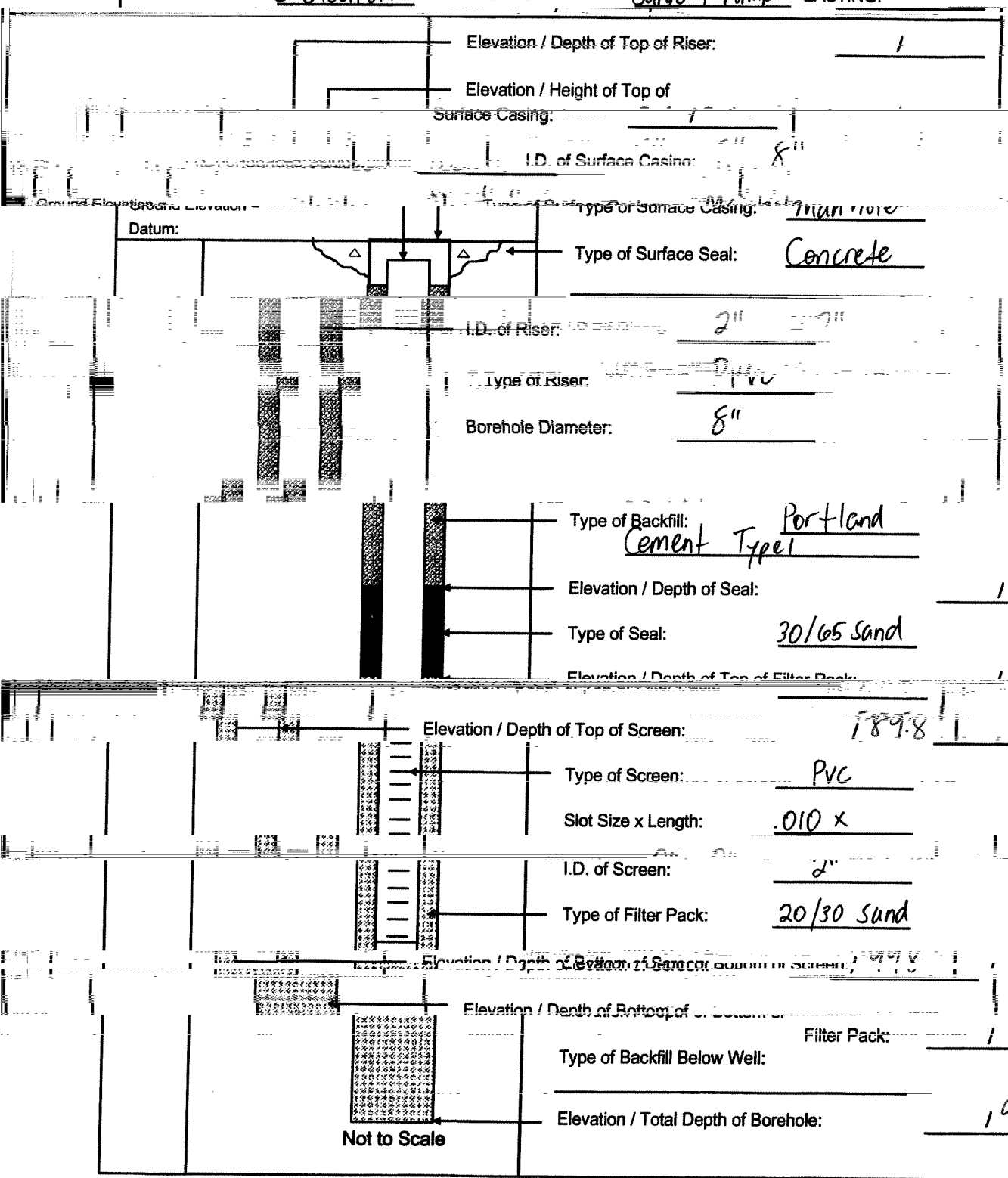
GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Tetra Tech, Inc.

MONITORING WELL SHEET

PROJECT:	Former ABC	DRILLING Co.:	Prosonic	BORING No.:	RS-26
PROJECT No.:	NE075	DRILLER:	V. Scott	DATE COMPLETED:	2-8-05
SITE:	Tallevast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. Gleaton	DEV. METHOD:	Surge + Pump	EASTING:	



Tetra Tech, Inc.

WELL No.: TT-MW-103 USAS

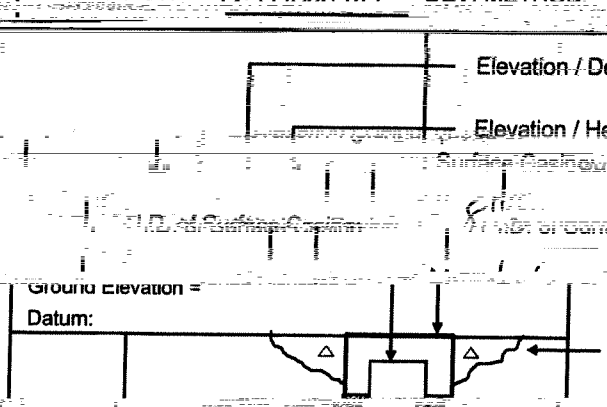
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Personnel BORING No.: 05-01

PROJECT No.: N1075 DRILLER: N. Gamache DATE COMPLETED: 2-5-05

SITE: [illegible] DRILLING METHOD: [illegible] NORTHING: [illegible]

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING: [illegible]



Elevation / Depth of Top of Riser: 1'

Elevation / Height of Top of Surface Seal/Surface Casing: [illegible]

I.D. of Surface Casing: [illegible] Thickness of Surface Casing: 0'

Ground Elevation = [illegible]

Datum: [illegible]

Type of Surface Casing: Man hole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: [illegible]

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 121.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 123.0

Elevation / Depth of Top of Screen: 125.0

Type of Screen: PVC

Slot Size x Length: 010 x [illegible]

Diameter of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 130.0

Elevation / Depth of Bottom of Filter Pack: 130.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 130.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT MW-101 (OU USAF)

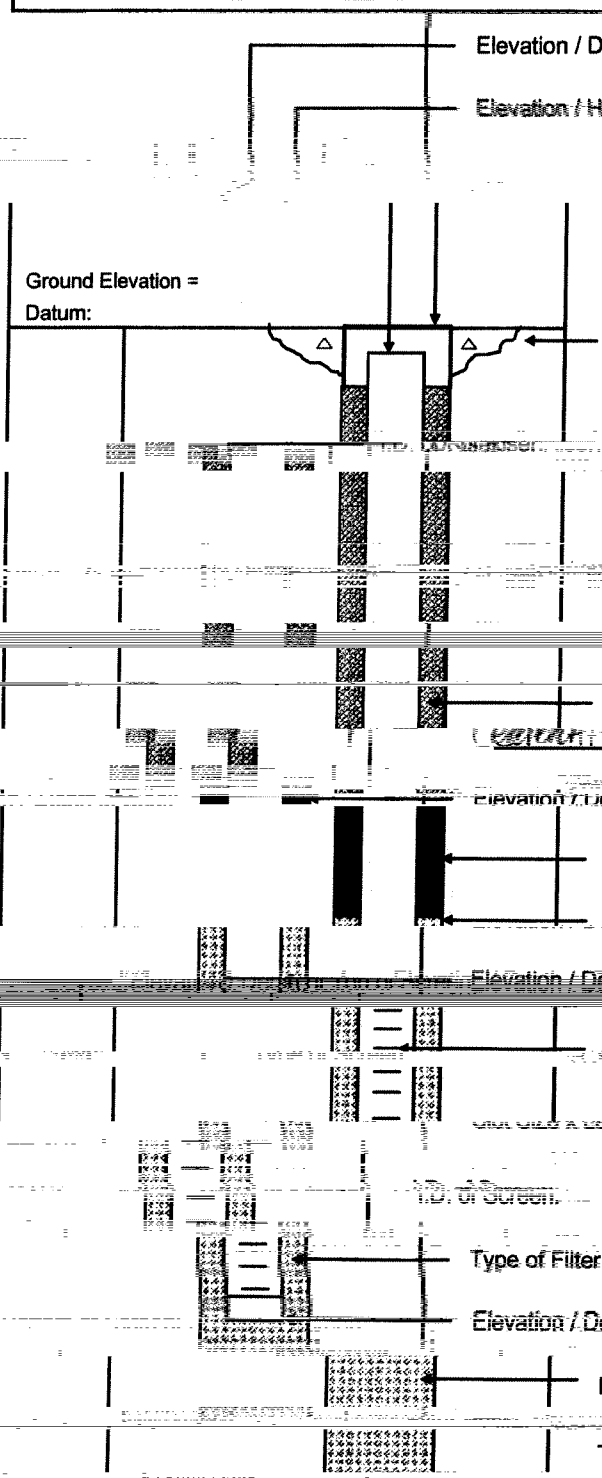
MONITORING WELL SHEET

PROJECT: Former AAFES DRILLING Co.: Dascomb BORING No.: VB-101

PROJECT No.: N1075 DRILLER: E. Mann DATE COMPLETED: 2-9-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Ground Elevation = Datum:

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland

Elevation / Depth of Seal: 123.4

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 123.4

Elevation / Depth of Top of Screen: 125.4

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 130.4

Elevation / Depth of Bottom of Filter Pack: 130.4

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 130.4

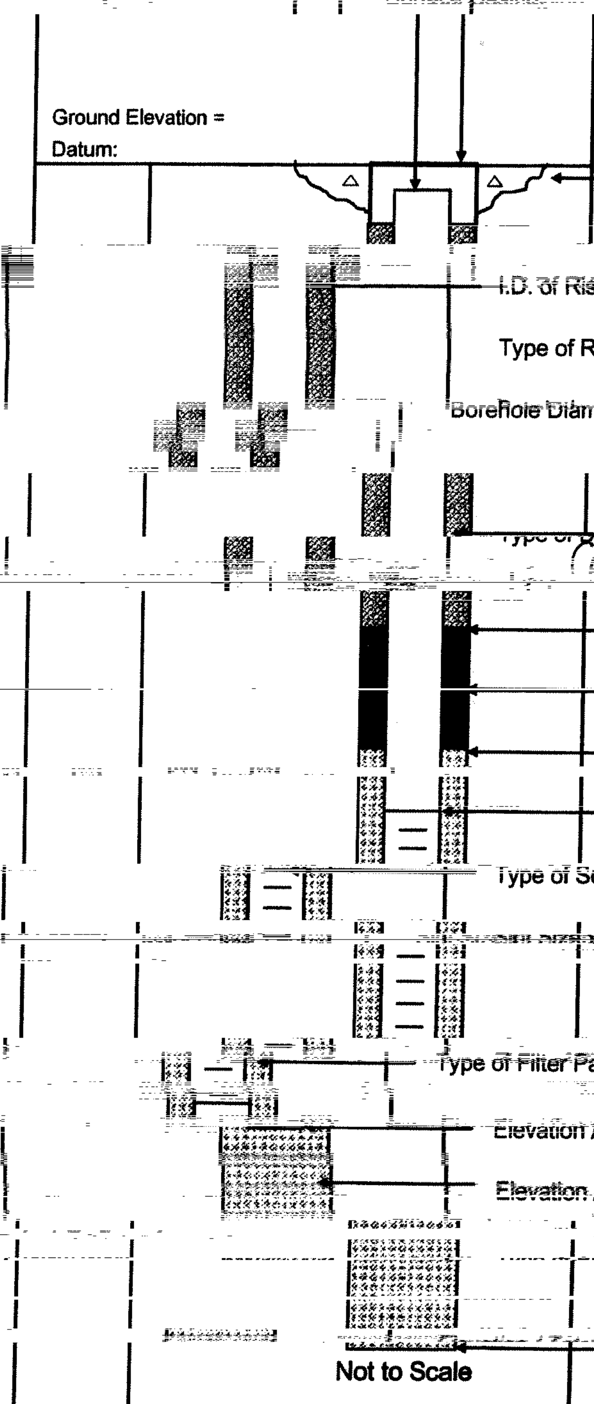
Not to Scale

Tetra Tech, Inc.

WELL NO.: [illegible]

MONITORING WELL SHEET

PROJECT:	Former ABL	DRILLING Co.:	Prosonic	BORING No.:	VP-106
PROJECT No.:	N1075	DRILLER:	V. Scott	DATE COMPLETED:	2-9-05
SITE:	Tollgate	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. Gleaton	DEV. METHOD:	Surge + Pump	EASTING:	



Elevation / Depth of Top of Riser:

Elevation / Depth of Top of Surface Casing:

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement

Elevation / Depth of Seal: 139.8

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 140.8

Elevation / Depth of Top of Screen: 141.8

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: [illegible]

Elevation / Depth of Bottom of Filter Pack: [illegible]

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: [illegible]

Tetra Tech, Inc.

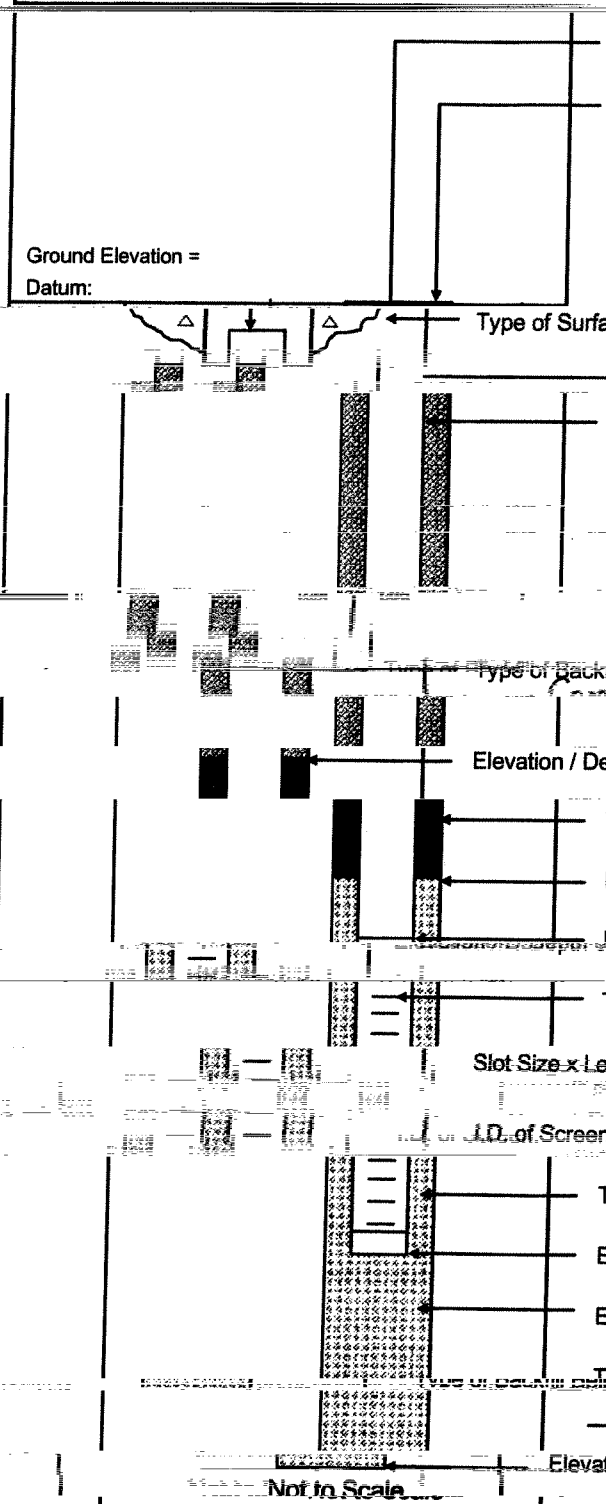
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Prosonic BORING No.:

PROJECT No.: N1075 DRILLER: E. Kraus DATE COMPLETED: 3-16-05

SITE: Tallevast DRILLING METHOD: Kotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Ground Elevation =

Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Bentonite Portland Cement Type I

Elevation / Depth of Seal: 136.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 138.0

Elevation / Depth of Top of Screen: 140.0

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 145.0

Elevation / Depth of Bottom of Filter Pack: 145.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 145.5

Not to Scale

Tetra Tech, Inc.

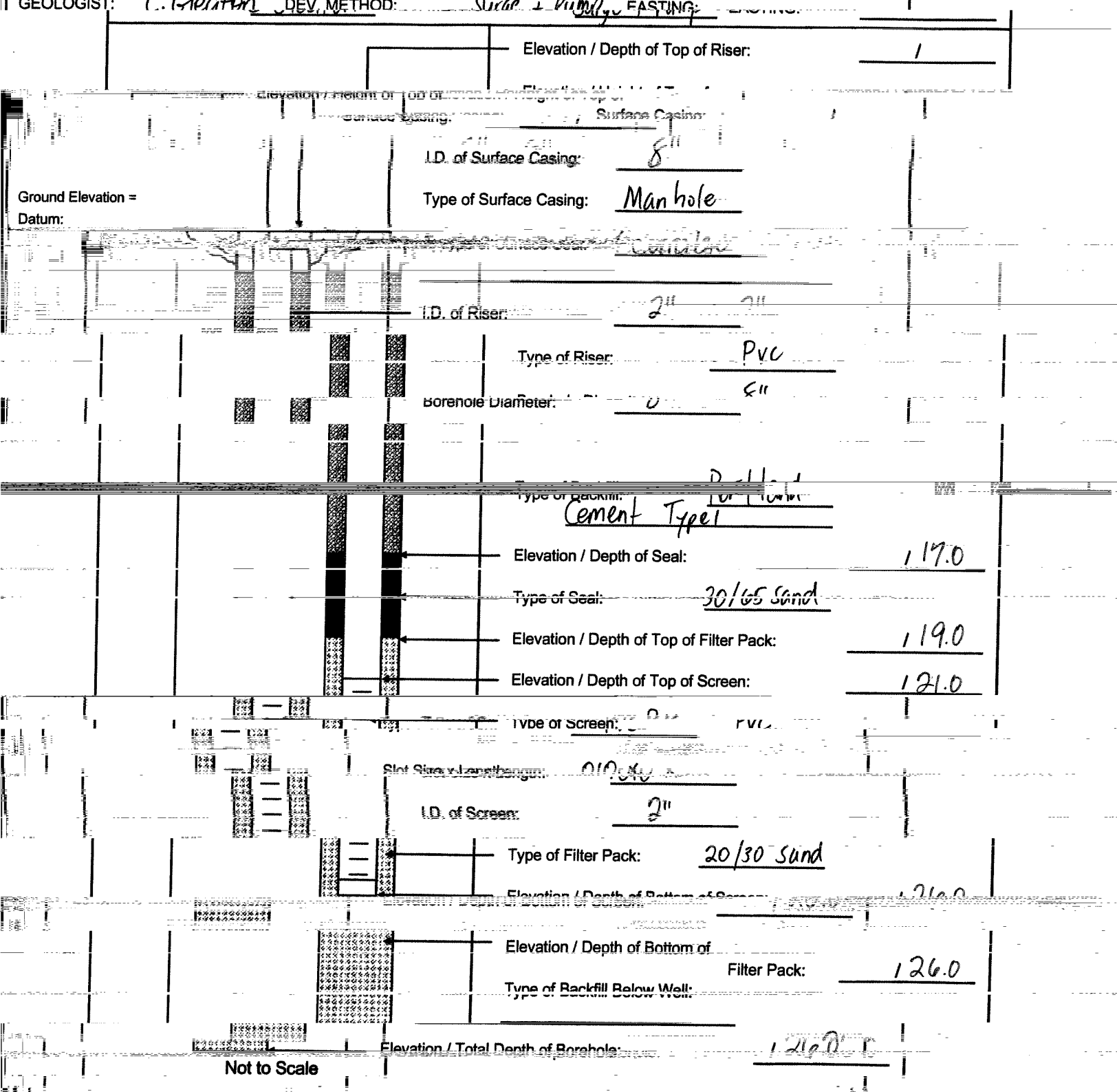
WELL No.: TT-MW-107 USAS

MONITORING WELL SHEET

PROJECT No.: N1075 DRILLER: F. Kraus DATE COMPLETED: 4-4-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-108 USAS

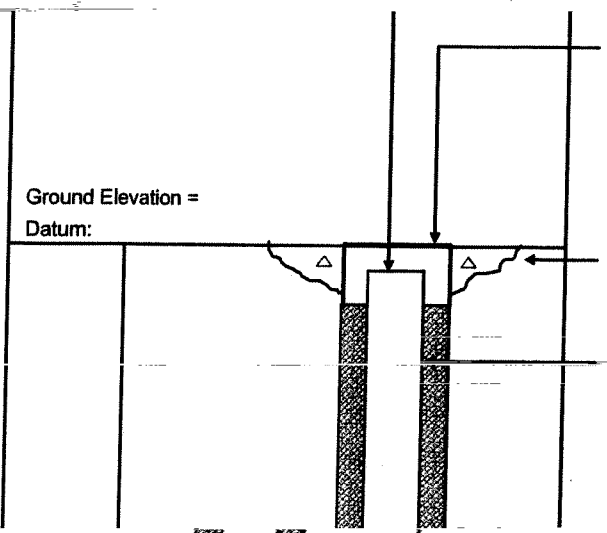
MONITORING WELL SHEET

PROJECT: Former ARC DRILLING Co.: Parratt

PROJECT No.: N1075 DRILLER: DATE COMPLETED: 3-15-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Ground Elevation =

Datum:

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 114.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 121.0

Elevation / Depth of Top of Screen: 123.0

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 128.0

Elevation / Depth of Bottom of Filter Pack: 128.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 128.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-109 UGAS

MONITORING WELL SHEET

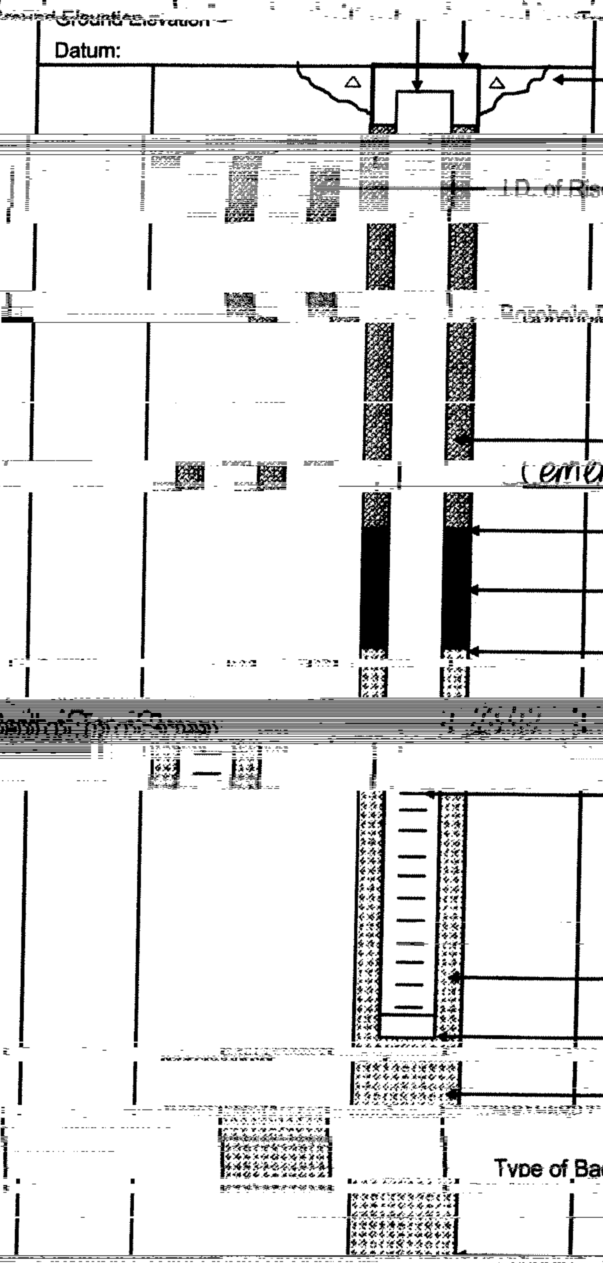
PROJECT:	Former ABC	DRILLING Co.:	Prosonic	BORING No.:	
PROJECT No.:	N1075	DRILLER:	F. Kraus	DATE COMPLETED:	3-15-05
SITE:	Tallevast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. Gleaton	DEV. METHOD:	Surge + Pump	EASTING:	

Elevation / Depth of Top of Riser:

Elevation / Height of Top of Surface Casing: ,

I.D. of Surface Casing: 8"

Ground Elevation Datum:



Type of Surface Casing: Man hole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 5"

Type of Backfill: Portland cement Type I

Elevation / Depth of Seal: ,119.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: ,121.0

Elevation / Depth of Top of Screen: [illegible]

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: ,128.0

Elevation / Depth of Bottom of Filter Pack: ,128.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: ,128.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT MW-110 USAC

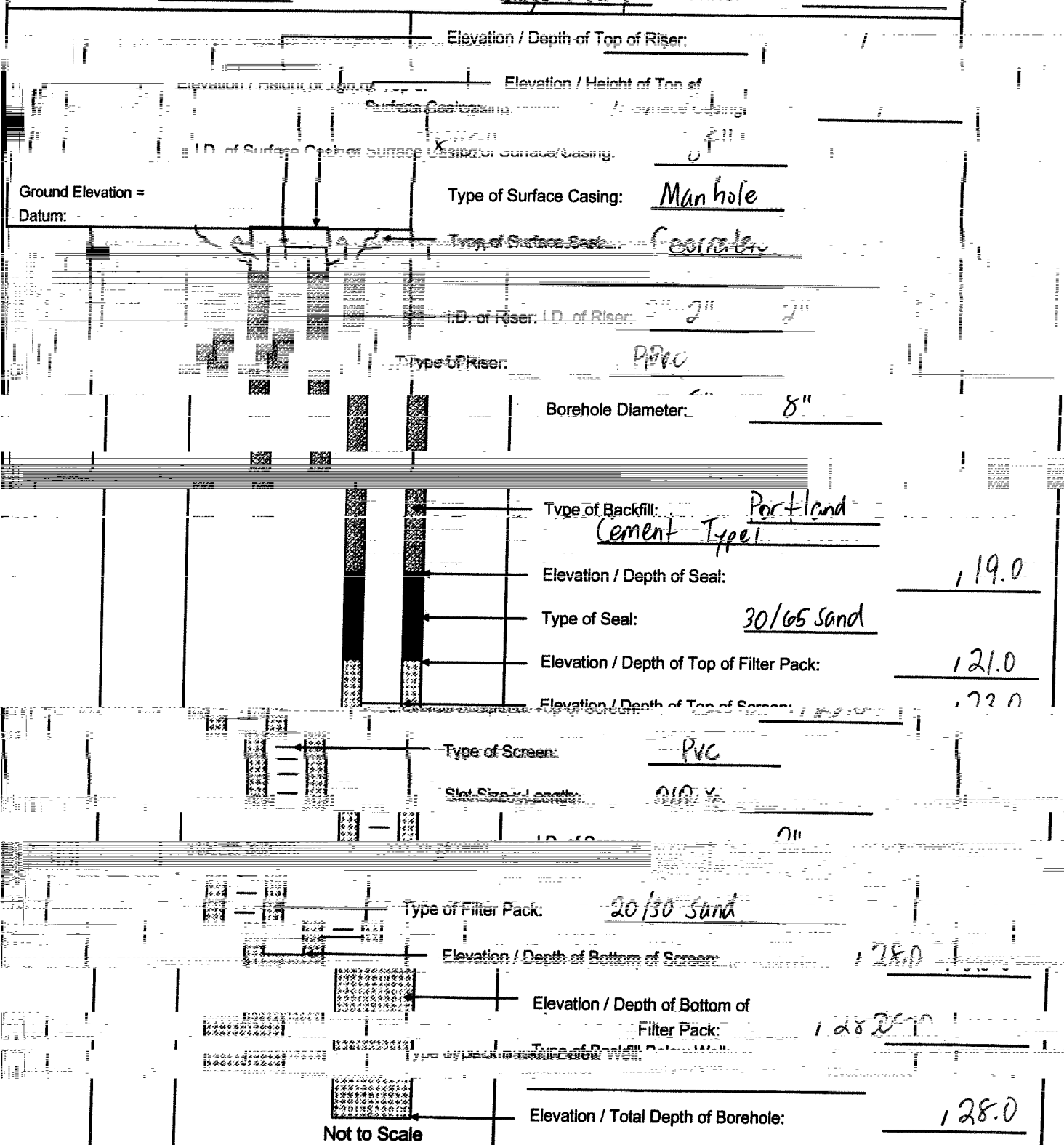
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Prosonic BORING No.:

PROJECT No.: N1075 DRILLER: V. Smith DATE COMPLETED:

SITE: Tallevast DRILLING METHOD: Rotasonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Tetra Tech, Inc.

WELL No.: TT-MW-111 USAS

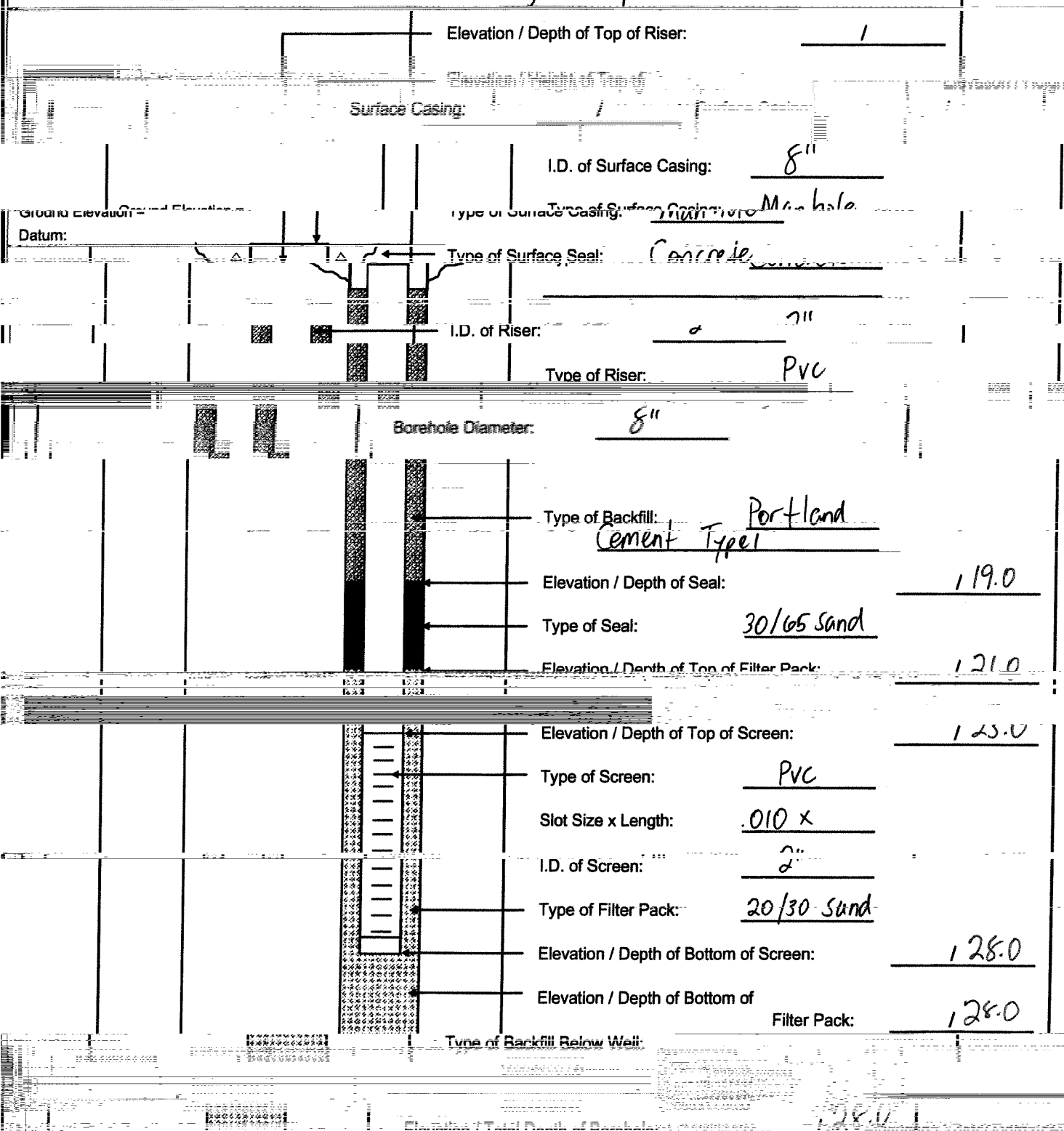
MONITORING WELL SHEET

PROJECT: Former Air Force Oscoda DRILLING CO.: BORING No.:

PROJECT No.: N1075 DRILLER: F. Kraus DATE COMPLETED: 3-15-05

SITE: Tattersall DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Ground Elevation / Datum:

Type of Surface Seal: Concrete

I.D. of Riser: 4 7"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 119.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 121.0

Elevation / Depth of Top of Screen: 123.0

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 128.0

Elevation / Depth of Bottom of Filter Pack: 128.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 128.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-112 IAS

MONITORING WELL SHEET

PROJECT: Apollo Tabs DRILLING CO.: Precision BORING No.:

PROJECT No.: N1075 DRILLER: N. Gamache DATE COMPLETED: 3-16-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:

Elevation / Depth of Top of Riser: 1

Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Datum:

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 172.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 174.0

Elevation / Depth of Top of Screen: 176.0

Type of Screen: PVC

Slot Size x Length: .010 x

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 186.0

Elevation / Depth of Bottom of Filter Pack: 186.0

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 186.0

Not to Scale

Tetra Tech. Inc.

WELL No.: TT-MW-113 LSAS

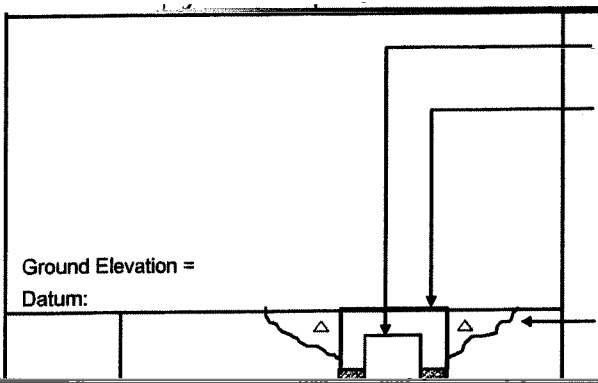
MONITORING WELL SHEET

PROJECT: Former ARC DRILLING Co.: Prosonic BORING No.:

PROJECT No.: N1075 DRILLER: V. Scott DATE COMPLETED: 3-15-05

SITE: Tattered Cover DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. Gleaton DEV. METHOD: Surge + Pump EASTING:



Ground Elevation =

Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Borehole Diameter: 8"

Type of Backfill: Portland Cement Grout

Type of Seal: 20/40 Sand

Elevation / Depth of Top of Filter Pack: 136.0

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 142.0

Elevation / Depth of Bottom of Filter Pack:

Type of Backfill Below Well:

Elevation / Total Depth of Borehole:

Not to Scale

Tetra Tech, Inc.

WELL NO.: [illegible]

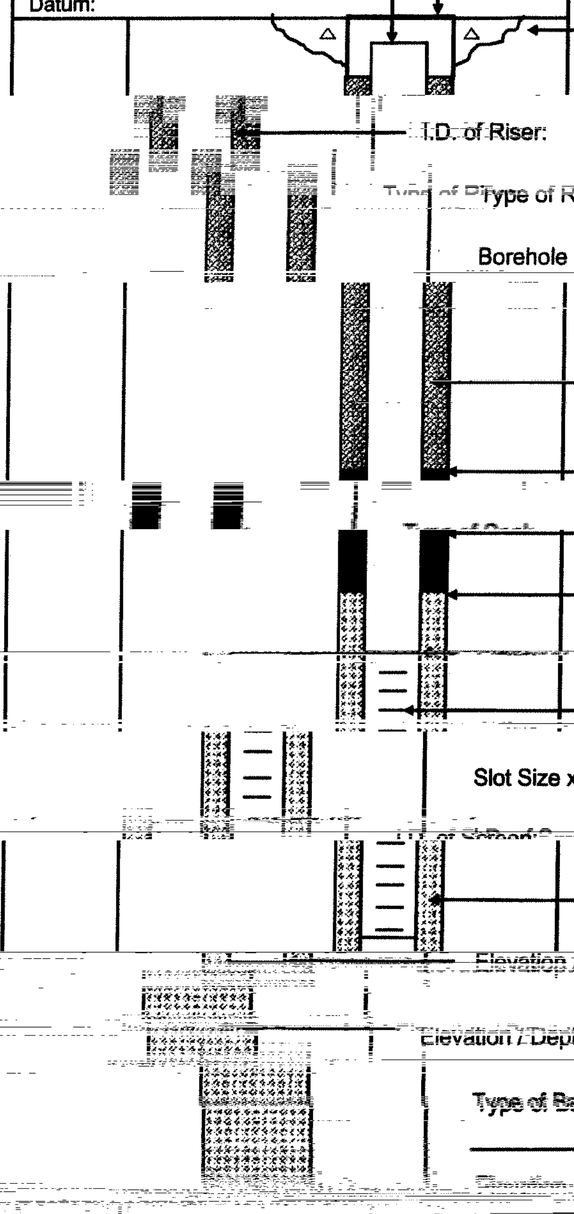
MONITORING WELL SHEET

PROJECT: Former ABC   DRILLING Co.: Prosonic   BORING No.:

PROJECT No.: N1075   DRILLER: V. Scott   DATE COMPLETED: 4-4-05

SITE: Tallevast   DRILLING METHOD: Rotosonic   NORTHING:

GEOLOGIST: C. Gleaton   DEV. METHOD: Surge + Pump   EASTING:



Ground Elevation =

Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 131.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 133.0

Elevation / Depth of Top of Screen: 135.0

Type of Screen: PVC

Slot Size x Length: .010 x

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: [illegible]

Elevation / Depth of Bottom of Filter Pack: [illegible]

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: [illegible]

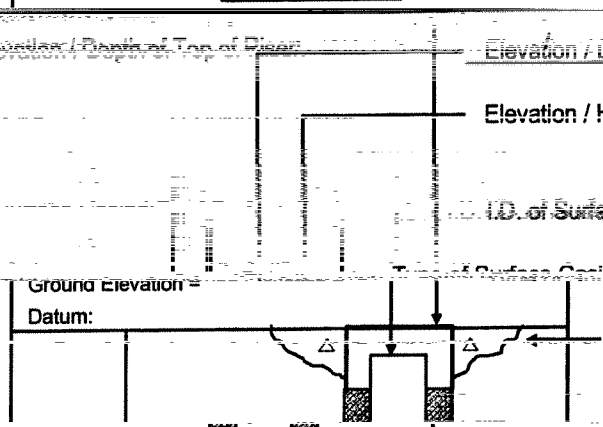
Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-115 USAS

MONITORING WELL SHEET

PROJECT:	Former MG	DRILLING Co.:	Boart Longyear	BORING No.:	
PROJECT No.:	N1075	DRILLER:	Matt Ruf	DATE COMPLETED:	5.23.05
SITE:		DRILLING METHOD:	Sonic	NORTHING:	
GEOLOGIST:	S. McGuire	DEV. METHOD:	Surge + Pump	EASTING:	



Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Ground Elevation =

Datum:

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement

Elevation / Depth of Seal: 1610

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 1810

Elevation / Depth of Top of Screen: 2010

Type of Screen: PVC

Slot Size x Length: .010

I.D. of Screen: 2

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 2510

Elevation / Depth of Bottom of Filter Pack: 1

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 25.5 ft

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-116 USAS

MONITORING WELL SHEET

PROJECT: Former ABC | DRILLING Co.: Prosonic | BORING No.:

PROJECT No.: N1075 | DRILLER: Matt Ruf | DATE COMPLETED: 5.23.05

SITE: | DRILLING METHOD: Sonic | NORTHING:

GEOLOGIST: S. McGuire | DEV. METHOD: P Surge + Pump | EASTING:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Ground Elevation =

Datum:

Type of Surface Casing: Manhole

Type of Surface Seal: concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland cement

Elevation / Depth of Seal: 17.0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 19.0

Elevation / Depth of Top of Screen: 21.0

Type of Screen: PVC

Slot Size x Length: .010

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 26.0

Elevation / Depth of Bottom of Filter Pack: 1

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 26.0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-117 LSAS

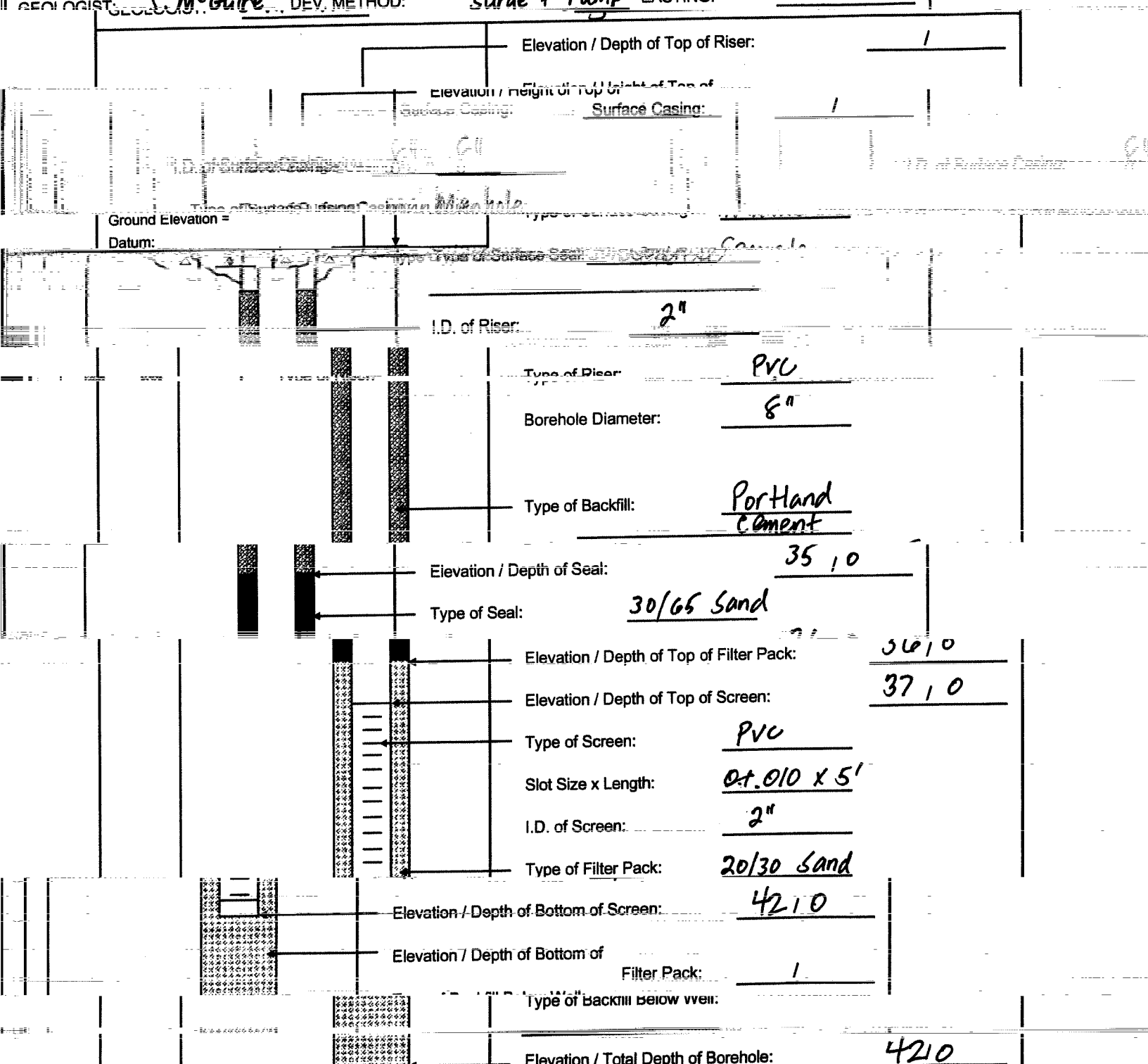
MONITORING WELL SHEET

PROJECT: Fort Ord Focus Area DRILLING Co.: ProSonic BORING No.:

PROJECT No.: N1075 DRILLER: Matt Ruf DATE COMPLETED: 5-24-05

SITE: DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: C. McGuire DEV. METHOD: Surge + Pump EASTING:



Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

Ground Elevation =

Datum:

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement

Elevation / Depth of Seal: 35.10

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 36.10

Elevation / Depth of Top of Screen: 37.10

Type of Screen: PVC

Slot Size x Length: 0.010 x 5'

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 42.10

Elevation / Depth of Bottom of Filter Pack: 1

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 42.10

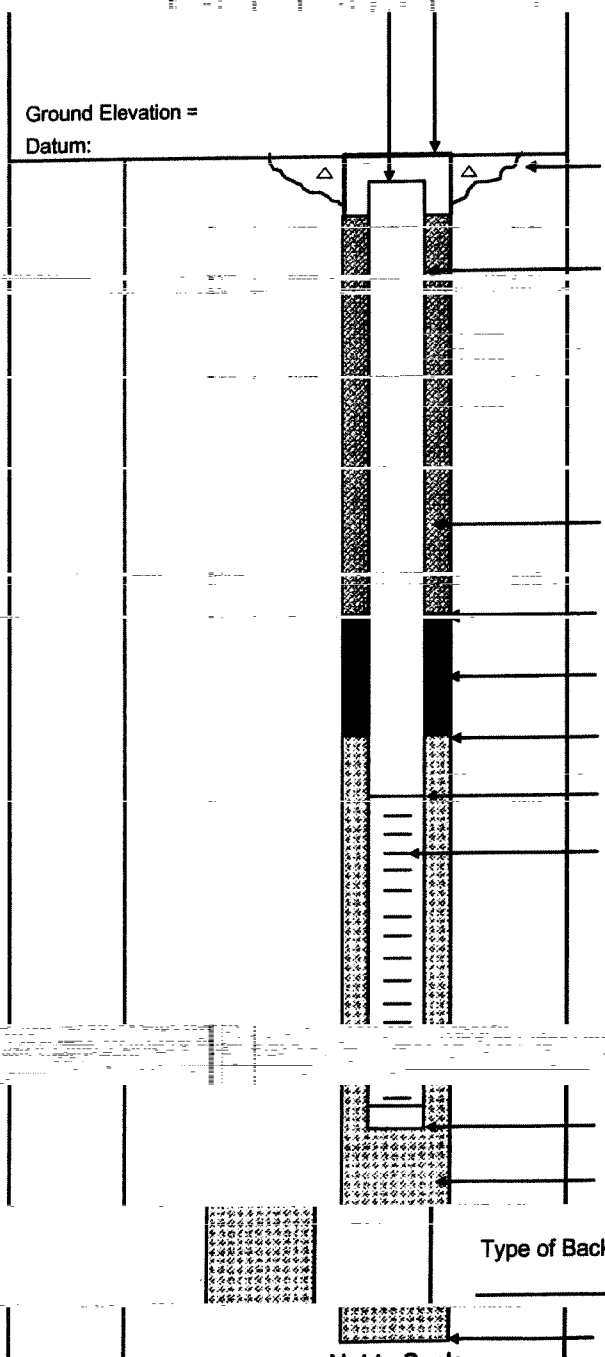
Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-1184SAS

MONITORING WELL SHEET

PROJECT: Former AOC | DRILLING CO.: Tetra Tech Drilling | BORING No.:
PROJECT No.: N1075 | DRILLER: Matt Ruf | DATE COMPLETED: 5-24-05
SITE: | DRILLING METHOD: Rotosonic | NORTHING:
GEOLOGIST: S. McGuire | DEV. METHOD: Surge + Pump | EASTING:



Elevation / Depth of Top of Riser: 1
Elevation / Height of Top of Surface Casing: 1
I.D. of Surface Casing: 8"
Type of Surface Casing: Manhole
Type of Surface Seal: Concrete
I.D. of Riser: 2"
Type of Riser: PVC
Borehole Diameter: 6"
Type of Backfill: Portland cement
Elevation / Depth of Seal: 16 15
Type of Seal: 30/65 Sand
Elevation / Depth of Top of Filter Pack: 18 15
Elevation / Depth of Top of Screen: 20 15
Type of Screen: PVC
Slot Size x Length: .010 x 5'
I.D. of Screen: 2"
Elevation / Depth of Bottom of Screen: 25 15
Elevation / Depth of Bottom of Filter Pack: 1
Type of Backfill Below Well:
Elevation / Total Depth of Borehole: 25 15

Tetra Tech, Inc.

WELL No.: TT-MW-119 LSAS

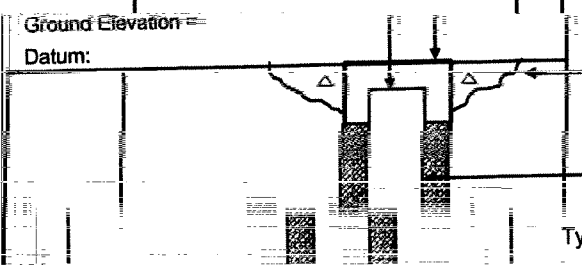
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: ProSonic BORING No.:

SITE: DRILLING METHOD: RotoSonic NORTHING:

GEOLOGIST: C McGuire DEV. METHOD: Surge + Pump EASTING:

Elevation / Depth of Top of Riser:



Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement

Elevation / Depth of Top of Seal: 29 1 0

Type of Seal: 30/65 sand

Elevation / Depth of Top of Filter Pack: 30 1 0

Elevation / Depth of Top of Screen: 31 1 0

Type of Screen: PVC

Slot Size x Length: .010 x 5'

I.D. of Screen:

Type of Filter Pack: 20/30 sand

Elevation / Depth of Bottom of Screen: 36 1 0

Elevation / Depth of Bottom of

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 36 1 0

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-120 USAS

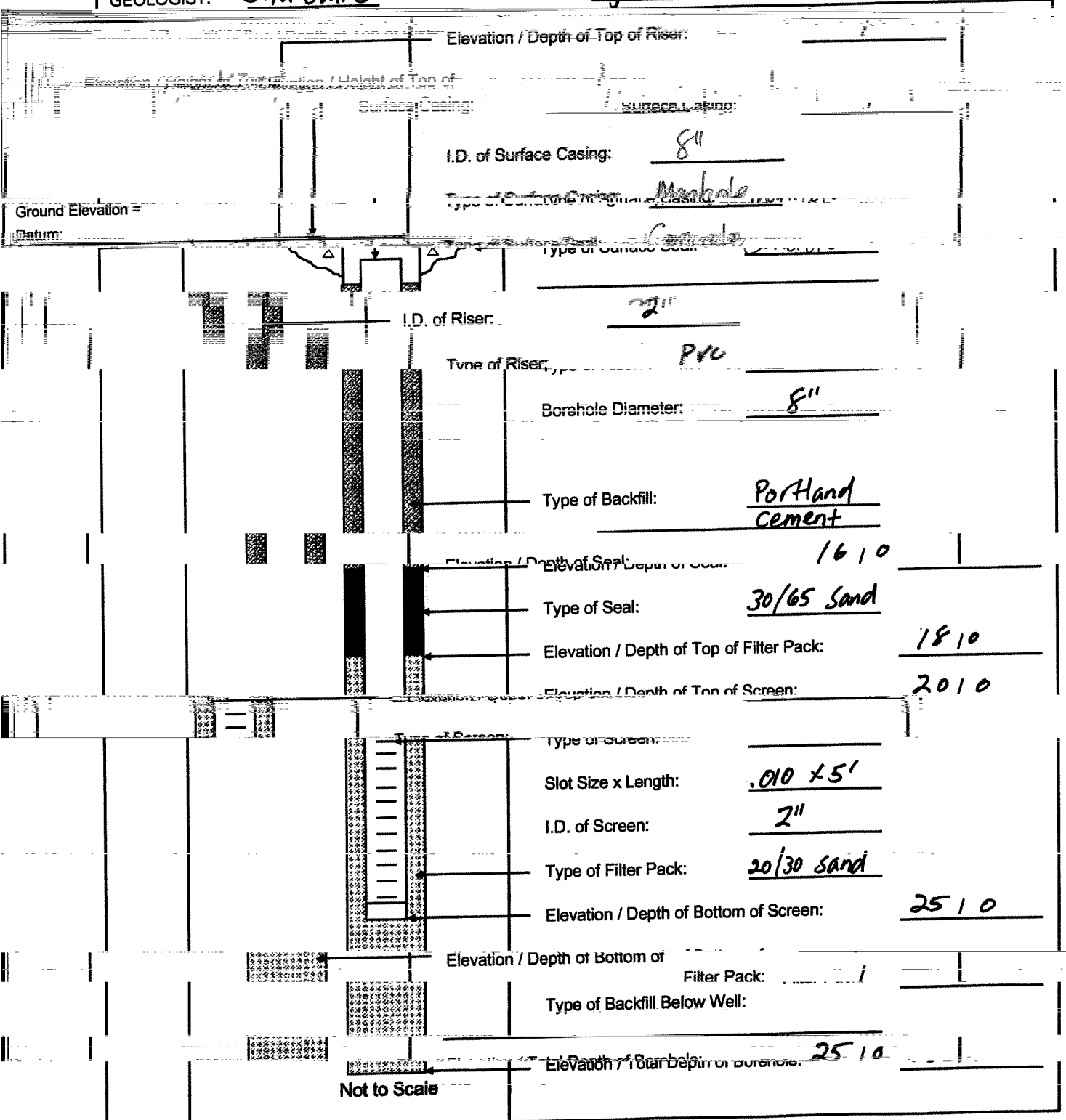
MONITORING WELL SHEET

PROJECT: [illegible] BORING No.:

DRILLER: Matt Ruf DATE COMPLETED: 5.24.05

SITE: DRILLING METHOD: Kotosonic NORTHING:

GEOLOGIST: [illegible]



Tetra Tech, Inc.

WELL No.: TT-MW-121 USAS

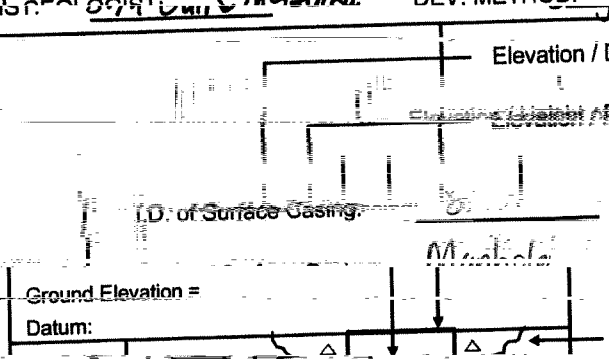
MONITORING WELL SHEET

PROJECT: Former ARC DRILLING Co.: Prosonic BORING NO.:

PROJECT NO.: N1075 DRILLER:

SITE: DRILLING METHOD: Koto sonic NORTHING:

GEOLOGIST: Scott Miller C McGinnis DEV. METHOD: Surge + Pump EASTING:



Elevation / Depth of Top of Riser: 1'

Elevation / Depth of Top of Surface Casing: 1'

I.D. of Surface Casing: 6"

Ground Elevation = Manhole

Datum:

Type of Surface Casing: Flushmount

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 6"

Type of Backfill: Bentonite Cement

Elevation / Depth of Seal: 14'0

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 16'0

Elevation / Depth of Top of Screen: 15'0

Type of Screen: PVC

Slot Size x Length: .010 x 5'

I.D. of Screen: 2"

Type of Filter Pack: 20/30 sand

Elevation / Depth of Bottom of Screen: 23'0

Elevation / Depth of Bottom of Filter Pack: 1'

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: 23'0

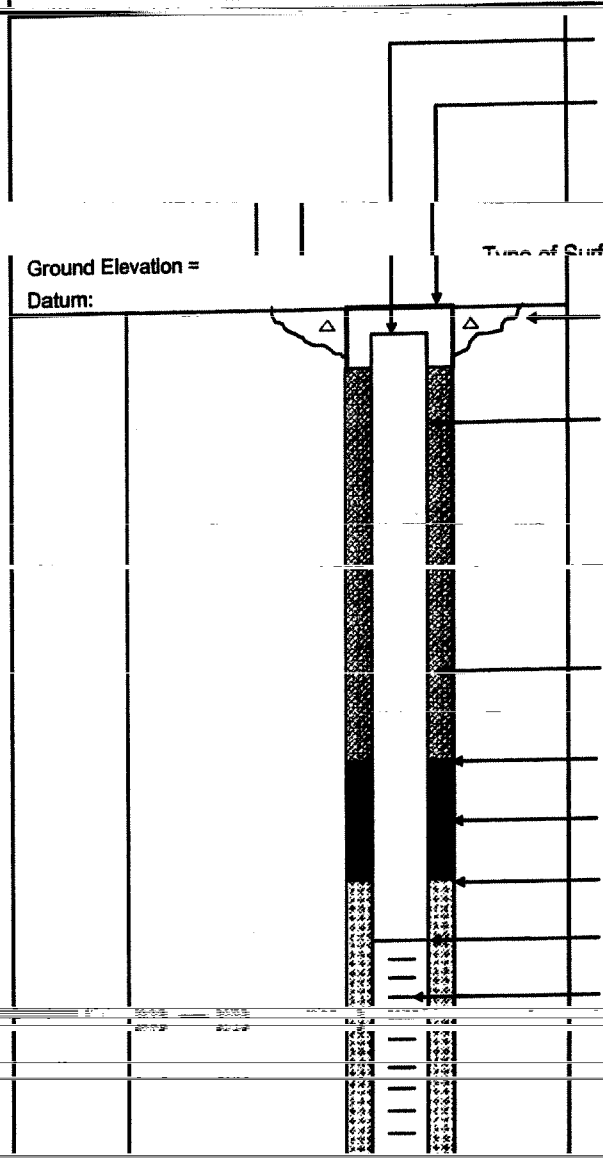
Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-122 USAS

MONITORING WELL SHEET

PROJECT:	Former ABC	DRILLING Co.:	Pro Sonic	BORING No.:	
PROJECT No.:	N1075	DRILLER:	Matt Ruf	DATE COMPLETED:	5-25-05
SITE:		DRILLING METHOD:	Roto Sonic	NORTHING:	
GEOLOGIST:	S. McGuire	DEV. METHOD:	Surge + Pump	EASTING:	



Ground Elevation =

Datum:

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement

Elevation / Depth of Seal: 17.0

Type of Seal: 30/65 sand

Elevation / Depth of Top of Filter Pack: 19.0

Elevation / Depth of Top of Screen: 21.0

Type of Screen: PVC

Slot Size x Length: .010 x 5'

I.D. of Screen: 2"

Elevation / Depth of Bottom of Screen: 26.0

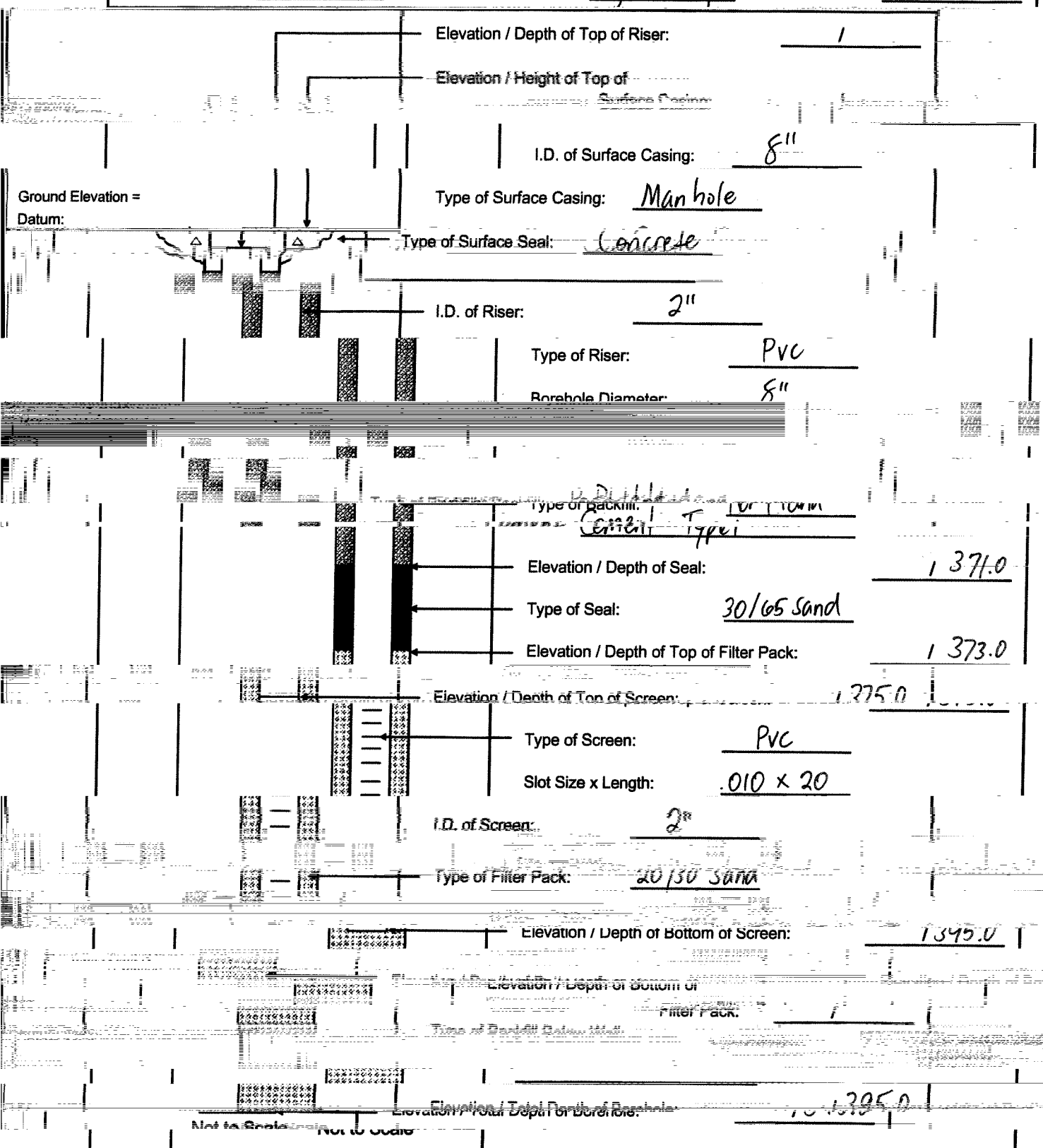
Elevation / Depth of Bottom of Borehole: 26.0

Tetra Tech, Inc. WELL No.: LT-MW-125

MONITORING WELL SHEET

PROJECT: Former MW DRILLING CO.: Parratt-Wolfe BORING No.:

PROJECT No.:	N1075	DRILLER:	F. Kraus	DATE COMPLETED:	6-20-05
SITE:	Tallevast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. Gleaton	DEV. METHOD:	Surge + Pump	EASTING:	



Tetra Tech, Inc.

WELL No.: TT-MW-124-IAS

MONITORING WELL SHEET

PROJECT:	former ABC	DRILLING Co.:	Prosonic	BORING No.:	
PROJECT No.:	N1075	DRILLER:	F. Kraus	DATE COMPLETED:	7-20-05
SITE:	Tallevast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	C. McGuire	DEV. METHOD:	surge + pump	EASTING:	

Elevation / Depth of Top of Riser:

Elevation / Height of Top of Surface Casing:

I.D. of Surface Casing: 8"

Ground Elevation =

Datum:

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: 1 118'

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: 1 120'

Elevation / Depth of Top of Screen: 1 122'

Type of Screen: PVC

Slot Size x Length: .010 x 15

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: 1 137'

Filter Pack:

Type of Backfill Below Well:

Elevation / Depth of Borehole:

Not to Scale

Tetra Tech, Inc.

WELL No.: TT-MW-125-LSAS

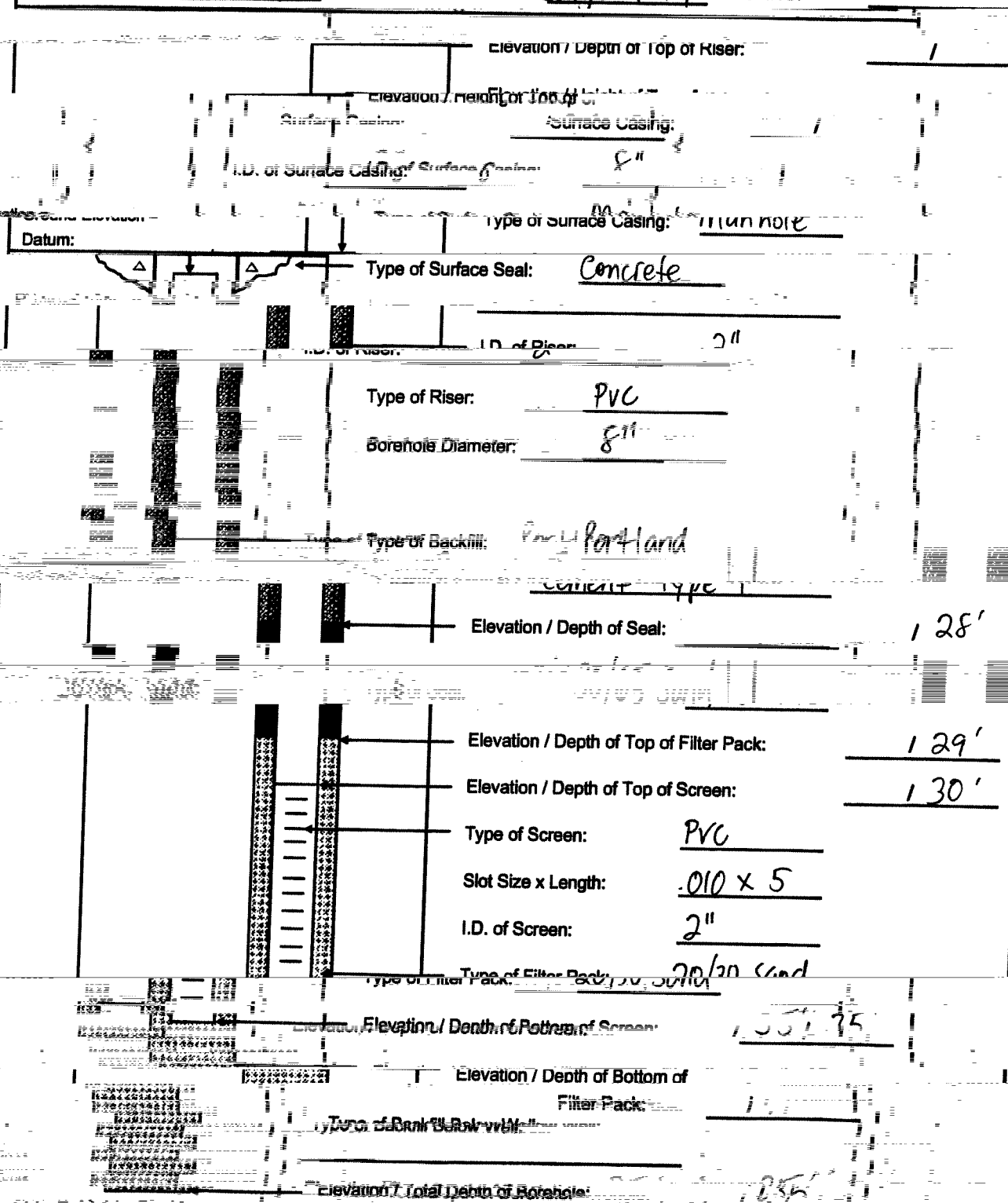
MONITORING WELL SHEET

PROJECT: Former ABC DRILLING Co.: Prosonic BORING No.:

PROJECT No.: N1075 DRILLER: E. Kraus DATE COMPLETED: 7-21-05

SITE: Tallevast DRILLING METHOD: Rotosonic NORTHING:

GEOLOGIST: S McGuire DEV. METHOD: Surge + Pump EASTING:

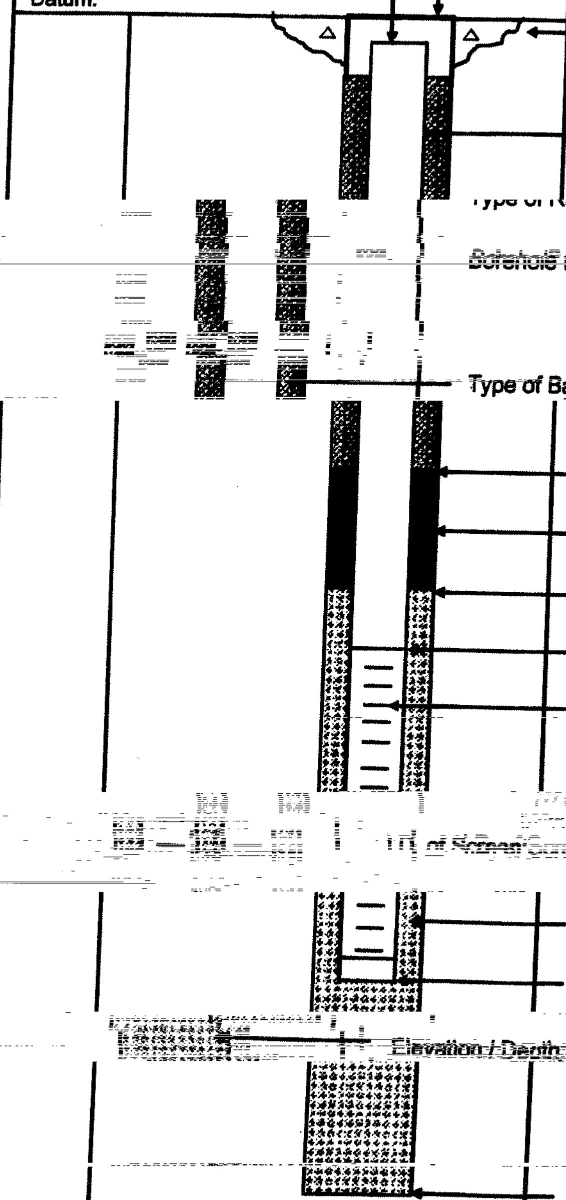


Tetra Tech, Inc.

WELL No.: TT-MW-12/-1165

MONITORING WELL SHEET

PROJECT:	Former ABC	DRILLING Co.:	Prosonic	BORING No.:	
PROJECT No.:	N1075	DRILLER:	F. Kraus	DATE COMPLETED:	7-20-05
SITE:	Talleyrast	DRILLING METHOD:	Rotosonic	NORTHING:	
GEOLOGIST:	S McGuire	DEV. METHOD:	Surge + Pump	EASTING:	



Ground Elevation = Datum:

Elevation / Depth of Top of Riser: /

Elevation / Height of Top of Surface Casing: /

I.D. of Surface Casing: 8"

Type of Surface Casing: Manhole

Type of Surface Seal: Concrete

I.D. of Riser: 2"

Type of Riser: PVC

Borehole Diameter: 8"

Type of Backfill: Portland Cement Type I

Elevation / Depth of Seal: / 23'

Type of Seal: 30/65 Sand

Elevation / Depth of Top of Filter Pack: / 25'

Elevation / Depth of Top of Screen: / 27'

Type of Screen: PVC

Slot Size x Length: .010 x 5

I.D. of Screen: 2"

Type of Filter Pack: 20/30 Sand

Elevation / Depth of Bottom of Screen: / 32'

Elevation / Depth of Bottom of Filter Pack: /

Type of Backfill Below Well:

Elevation / Total Depth of Borehole: / 32'

Not to Scale

APPENDIX B

SITE SPECIFIC LEACHABILITY TESTING LABORATORY ANALTYICAL REPORTS

FDEP UCL Calculator Version 1.0

Goodness-of-fit test results

Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0.9423
SF for LogNormal Distribution	0.8792
Shapiro-Francia critical value for p<0.05	NA

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.924
SW test statistic for LogNormal Distribution	0.861
Shapiro-Wilk's critical value for p<0.05	0.887

Test stat > critical value indicates a reasonable fit

Based on the results of the Shapiro-Wilk's test

FDEP UCL Calculator Version 1.0 8/4/05

Summary Statistics for	
Number of Samples	16
Number of Censored Data	0
Minimum	0.1
Maximum	0.9
Mean	0.45625
Median	0.5
Standard Deviation	0.263233
Variance	0.069292
Coefficient of Variation	0.576949
Skewness	0.07

95% UCL (Assuming Normal Data)	
Student's-t	0.571615

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	0.565735
Modified-t	0.571807

95% Non-parametric UCL	
CLT	0.564505
Jackknife	NA
Standard Bootstrap	0.546523
Bootstrap-t	0.55432
Chebyshev (Mean, Std)	0.743108

Summary Statistics for ln()	
Minimum	-2.302585
Maximum	-0.105361
Mean	-1.006897
Standard Deviation	0.763262
Variance	0.582569

Goodness-of-Fit Results	
Distribution Recommended	Normal
Distribution Used	Normal

Estimates Assuming Lognormal Distribution	
MLE Mean	0.488892
MLE Standard Deviation	0.434711
MLE Median	0.365351
MLE Coefficient of Variation	0.889175
MVUE Estimate of Mean	0.478048
MVUE Estimate of Std. Dev.	0.394
MVUE Estimate of SE	0.097223
MVUE Coefficient of Variation	0.824186

UCL Assuming Lognormal Distribution	
95% H-UCL	0.791623
95% Chebyshev (MVUE) UCL	0.901834
99% Chebyshev (MVUE) UCL	1.445408

FDEP Recommended UCL to Use:
0.571615

FDEP UCL Calculator Version 0.97 8/4/05

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

Summary Statistics for BAP (1)	
Number of Samples	16
Number of Censored Data	10
Minimum	0.2
Maximum	0.3
Mean	0.2
Median	0.2
Standard Deviation	0.05164
Variance	
Coefficient of Variation	0.258199
Skewness	1.86E-07

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	NA

95% Bounding Method UCL	
Bounding (Max)	0.268318
Bounding (1/2 DL)	0.215829

Summary Statistics for	
Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results	
Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:

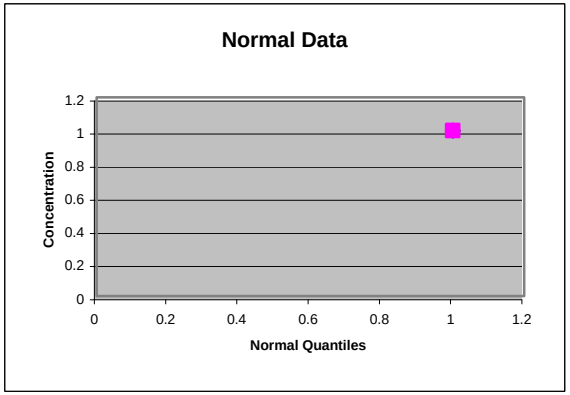
0.268318

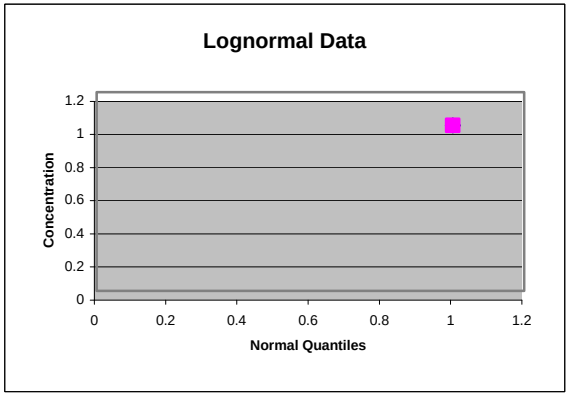
PROUCL NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

Goodness-of-fit test results





Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for p<0.05	0.944005

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.647
SW test statistic for LogNormal Distribution	0.679
Shapiro-Wilk's critical value for p<0.05	0.947

Test stat > critical value indicates a reasonable fit

Based on the results of the Shapiro-Francia test
Distribution is best described as: Neither

Neither

FDEP UCL Calculator Version 0.97

	BAP (ALL)
Number of Samples	48
Number of Censored Data	28
Minimum	0.1
Maximum	0.9
Mean	0.23125
Median	0.1
Standard Deviation	0.223279
Variance	0.049854
Coefficient of Variation	0.965533
Skewness	1.671146

95% UCL (Assuming Normal Data)

Student's-t	0.285326

95% UCL (Adjusted for Skewness)

Adjusted-CLT	0.292572
Modified-t	0.286621

95% Non-parametric UCL

CLT	0.284264
Jackknife	NA
Standard Bootstrap	0.283178
Bootstrap-t	0.311606
Chebyshev (Mean, Std)	0.37173

	ln(BAP (ALL))
Minimum	-2.30259
Maximum	-0.10536
Mean	-1.79603
Standard Deviation	0.753116
Variance	0.567184

Goodness-of-Fit Results

Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution

MLE Mean	0.220372
MLE Standard Deviation	0.192531
MLE Median	0.165956
MLE Coefficient of Variation	0.873668
MVUE Estimate of Mean	0.216542
MVUE Estimate of Std. Dev.	0.177942
MVUE Estimate of SE	0.039235
MVUE Coefficient of Variation	0.821743

UCL Assuming Lognormal Distribution

95% H-UCL	0.277591
95% Chebyshev (MVUE) UCL	0.387563
99% Chebyshev (MVUE) UCL	0.606927

FDEP Recommended UCL to Use:

0.37173

PROUCL NA

FDEP UCL Calculator Version 0.97

Goodness-of-fit test results

FDEP UCL Calculator Version 0.97 8/4/05

Summary Statistics for AS (6")	
Number of Samples	16
Number of Censored Data	9
Minimum	0.52
Maximum	4
Mean	1.031875
Median	0.635
Standard Deviation	0.928599
Variance	0.862296
Coefficient of Variation	0.899914
Skewness	2.635718

95% UCL (Assuming Normal Data)	
Student's-t	1.438845

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	1.577237
Modified-t	1.46434

95% Non-parametric UCL	
CLT	1.413761
Jackknife	NA
Standard Bootstrap	1.34508
Bootstrap-t	2.24447
Chebyshev (Mean, Std)	2.043816

Summary Statistics for ln(AS (6"))	
Minimum	-0.65393
Maximum	1.386294
Mean	-0.19034
Standard Deviation	0.60601
Variance	0.367248

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	0.993305
MLE Standard Deviation	0.661691
MLE Median	0.826677
MLE Coefficient of Variation	0.66615
MVUE Estimate of Mean	0.964715
MVUE Estimate of Std. Dev.	0.589757
MVUE Estimate of SE	0.222311
MVUE Coefficient of Variation	0.611327

UCL Assuming Lognormal Distribution	
95% H-UCL	1.410769
95% Chebyshev (MVUE) UCL	1.933747
99% Chebyshev (MVUE) UCL	3.176688

FDEP Recommended UCL to Use:

2.043816

PROUCL NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97 8/4/05

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

Summary Statistics for AS (1)	
Number of Samples	16
Number of Censored Data	12
Minimum	1.14
Maximum	11
Mean	1.93625
Median	1.06
Standard Deviation	2.665518
Variance	
Coefficient of Variation	1.376639
Skewness	3.13239

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	NA

95% Bounding Method UCL	
Bounding (Max)	4.840931
Bounding (1/2 DL)	4.589151

Summary Statistics for	
Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results	
Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:

4.840931

PROUCL NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

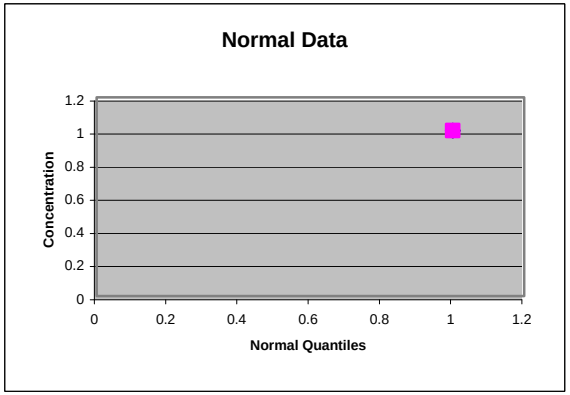
Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

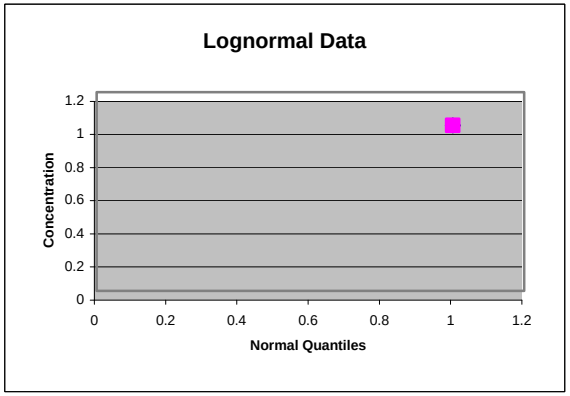
AS (ALL)_

Number of Sampl3trw_

FDEP UCL Calculator Version 0.97

Goodness-of-fit test results





Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for p<0.05	0.939527

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.713
SW test statistic for LogNormal Distribution	0.907
Shapiro-Wilk's critical value for p<0.05	0.887

Test stat > critical value indicates a reasonable fit

Based on the results of the Shapiro-Francia test
Distribution is best described as: Neither

Neither

FDEP UCL Calculator Version 0.97 **8/4/05**

Summary Statistics for CR (6")	
Number of Samples	16
Number of Censored Data	3
Minimum	1
Maximum	53
Mean	10.48125
Median	3.85
Standard Deviation	14.3383
Variance	205.587
Coefficient of Variation	1.367996
Skewness	2.089267

95% UCL (Assuming Normal Data)	
Student's-t	16.76519

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	18.37874
Modified-t	17.07724

95% Non-parametric UCL	
CLT	16.37788
Jackknife	NA
Standard Bootstrap	16.42995
Bootstrap-t	20.33046
Chebyshev (Mean, Std)	26.10642

Summary Statistics for ln(CR (6"))	
Minimum	0
Maximum	3.970292
Mean	1.530861
Standard Deviation	1.335742
Variance	1.784206

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	11.27924
MLE Standard Deviation	25.10701
MLE Median	4.622153
MLE Coefficient of Variation	2.225949
MVUE Estimate of Mean	10.09025
MVUE Estimate of Std. Dev.	16.05107
MVUE Estimate of SE	4.129582
MVUE Coefficient of Variation	1.59075

UCL Assuming Lognormal Distribution	
95% H-UCL	36.05504
95% Chebyshev (MVUE) UCL	28.09069
99% Chebyshev (MVUE) UCL	51.17918

FDEP Recommended UCL to Use:

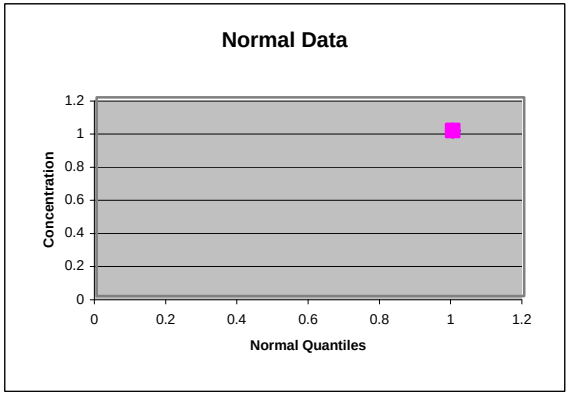
26.10642

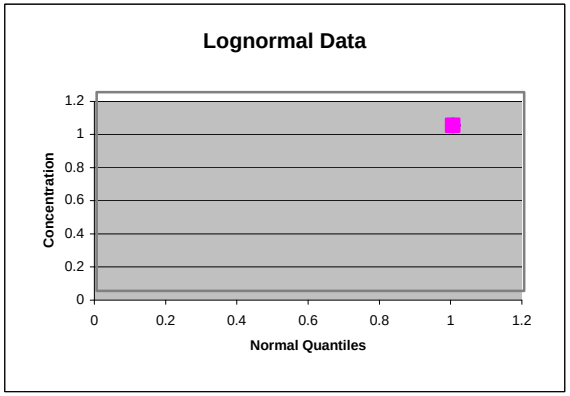
PROUCL NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

Goodness-of-fit test results





Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for p<0.05	0.928832

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.585
SW test statistic for LogNormal Distribution	0.801
Shapiro-Wilk's critical value for p<0.05	0.887

Test stat > critical value indicates a reasonable fit

Based on the results of the Shapiro-Francia test
Distribution is best described as: Neither

Neither

FDEP UCL Calculator Version 0.97 **8/4/05**

Summary Statistics for CR (1)	
Number of Samples	16
Number of Censored Data	5
Minimum	1.1
Maximum	42
Mean	6.61875
Median	1.6
Standard Deviation	10.94661
Variance	119.8283
Coefficient of Variation	1.653879
Skewness	2.656261

95% UCL (Assuming Normal Data)	
Student's-t	11.41624

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	13.06266
Modified-t	11.71913

95% Non-parametric UCL	
CLT	11.12054
Jackknife	NA
Standard Bootstrap	10.27004
Bootstrap-t	34.39937
Chebyshev (Mean, Std)	18.54782

Summary Statistics for ln(CR (1))	
Minimum	0.09531
Maximum	3.73767
Mean	1.049951
Standard Deviation	1.203027
Variance	1.447274

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	5.891955
MLE Standard Deviation	10.62434
MLE Median	2.857511
MLE Coefficient of Variation	1.803194
MVUE Estimate of Mean	5.342241
MVUE Estimate of Std. Dev.	7.21412
MVUE Estimate of SE	2.074776
MVUE Coefficient of Variation	1.350392

UCL Assuming Lognormal Distribution	
95% H-UCL	15.60803
95% Chebyshev (MVUE) UCL	14.38598
99% Chebyshev (MVUE) UCL	25.98605

FDEP Recommended UCL to Use:

18.54782

PROUCL NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

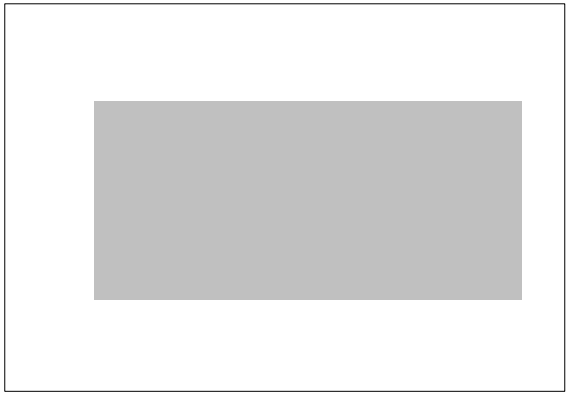
Goodness-of-fit test results

FDEP UCL Calculator Version 0.97

	CR(2)		ln(CR(2))
Number of Samples	16	Minimum	0.09531
Number of Censored Data	7	Maximum	2.772589
Minimum	1.1	Mean	0.692255
Maximum	0.692255		

FDEP UCL Calculator Version 0.97

Goodness-of-fit test results



Shapiro-Francia Results (Adjust for Censoring)

SF for Normal Distribution	0
SF for LogNormal Distribution	0
Shapiro-Francia critical value for p<0.05	0.964816

Test stat > critical value indicates a reasonable fit

Shapiro-Wilk's Test Results for All Data (BDL replaced with 1/2 DL)

SW test statistic for Normal Distribution	0.585
SW test statistic for LogNormal Distribution	0.820
Shapiro-Wilk's critical value for p<0.05	0.947

Test stat > critical value indicates a reasonable fit

Based on the results of the Shapiro-Francia test
Distribution is best described as: Neither

Neither

FDEP UCL Calculator Version 0.97

	CR (ALL)
Number of Samples	48
Number of Censored Data	15
Minimum	1
Maximum	53
Mean	6.677083
Median	1.95
Standard Deviation	10.86349
Variance	118.0154

	ln(CR (ALL))
Minimum	0
Maximum	3.970292
Mean	1.091022
Standard Deviation	1.160345
Variance	1.346401

Goodness-of-Fit Results

APPENDIX C

FL-UCL DATA SHEETS FOR ON-SITE SOIL

SEVERN TRENT STL

ANALYTICAL REPORT

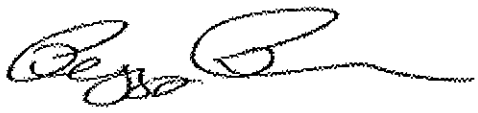
Job Number: 660-1190.1

Job Description: Former ABC

For:

Tetra Tech NUS Inc
5421 Beaumont Center Blvd
Suite 660
Tampa, FL 33634

Attention: Mr. Paul Collins



Peggy Penner
Project Manager II
ppenner@stl-inc.com

04/27/2005

DOH Certification #: E84282
These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report. The estimated uncertainty associated with these

SEVERN TRENT STL

METHOD SUMMARY

Client: Tetra Tech NUS Inc Job Number: 660-1190-1

Description	Method	Preparation Method
Matrix: Solid		
Inductively Coupled Plasma - Atomic Emission Spectrometry	SW846 6010B	
Synthetic Precipatation Leaching Procedure -East (Metals)		SW846 1312
Acid Digestion of Aqueous Samples and Extracts for Total Metals (leachate)		SW846 3010A

REFERENCES

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986

SEVERN TRENT STL

SAMPLE SUMMARY

Client: Tetra Tech NUS Inc

Job Number: 660-1190.1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-1190-1	HA-006SPLE	Solid	04/06/2005 0715	04/06/2005 1445
660-1190-2	HA-007SPLE	Solid	04/06/2005 0727	04/06/2005 1445

SAMPLE RESULTS

Analytical Data

Client: Tetra Tech NUS Inc

Job Number: 660-1190.1

Client Sample ID: **HA-006SPLP**

Lab Sample ID: 660-1190-1

Date Sampled: 04/06/2005 0715

Client Matrix: Solid

Date Received: 04/06/2005 1445

Method: 6010B

Analysis Batch: 660-5440

Preparation: 6010B

Prep Batch: 660-5449

Dilution: 1.0

Date Analyzed: 04/25/2005 1303

Date Prepared: 04/22/2005 1751

SEVERN STL

Client Sample ID: HA-007SPLP

Lab Sample ID: 660-1190-2 Date Sampled: 04/06/2005 0727

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-SPLP East

Method: 6010B Analysis Batch: 660-5440

Preparation: 6010B Prep Batch: 660-5240

Dilution: 1.0

Date Analyzed: 04/25/2005 1328

Date Prepared: 04/21/2005 1319

Initial Weight/Volume:

Final Weight/Volume:

Beryllium	0.0022	I	0.00074	0.0040

SEVERN TRENT STL

DATA REPORTING QUALIFIERS

Client: Tetra Tech NUS Inc. Job Number: 660-1190.1

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: Tetra Tech NUS Inc

Job Number: 660-1190.1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
Metals				
Prep Batch: 660-5240				
660-1190-A-2-B *E	HA-007SPLP	Solid	6010B	
Prep Batch: 660-5449				
LCS 660-5449/2-A	Lab Control Spike	Solid	6010B	
LCSD 660-5449/3-A	Lab Control Spike Duplicate	Solid	6010B	
660-1190-A-1-B *E	HA-006SPLP	Solid	6010B	
Analysis Batch:660-5440				
660-1190-A-2-B *E	HA-007SPLP	Solid	6010B	660-5240
Analysis Batch:660-5440				
LCS 660-5449/2-A	Lab Control Spike	Solid	6010B	660-5449
LCSD 660-5449/3-A	Lab Control Spike Duplicate	Solid	6010B	660-5449
660-1190-A-1-B *E	HA-006SPLP	Solid	6010B	660-5449

Client: Pace Analytical Inc. Job Number: 660-5449-1

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-SPLP East

Laboratory Control Sample/ Control Duplicate - Batch: 660-5449

LCS Lab ID: LCS 660-5449/2-A Date Analyzed: 04/25/2005 1227 Dilution: 1.0
LCSD Lab ID: LCSD 660-5449/3-A Date Analyzed: 04/25/2005 1233 Dilution: 1.0
Matrix: Solid

Analyte	% Recovery		Recovery Limits	RPD	RPD Limit
Beryllium	106	107	75 - 125	1	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

C 60 - 190

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PAGE 1 OF 1

TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC)	GRAB (G)	No. OF CONTAINERS	SPI
0"	6	S	C	1	X
0"	6	S	C	1	X

CONTAINER TYPE PLASTIC (P) / GLASS (G)

PRESERVATIVE USED

TYPE OF ANALYSIS

COMMENTS

1. RECEIVED BY — DATE 6-6-05 — TIME 1445

2. RECEIVED BY — DATE — TIME

3. RECEIVED BY — DATE — TIME

PINK (FILE) COPY

4/02R

FORM NO. TtNUS-001

Invoice/Credit No.	66031027	Invoice Date	April 27, 2005
Terms	Net 60 Days		

Bill to:	Ship to:
Tetra Tech NUS, Inc Attn: Accounts Payable 5421 Beaumont Center Blvd., Ste 660 Tampa, FL 33634	Tetra Tech NUS Inc 5421 Beaumont Center Blvd Suite 660 Tampa, FL 33634

PO Number	WO Number	Contract Number	Work Ordered by

Job Description	Site Name	SDG Number	Invoice Contact
Former ABC			Mr. Paul Calligan

J1190-1	1312_E_M - SPLP East Synthetic Precipatation Leaching Procedure -East (Metals)	2.00	40.00	80.00

APPENDIX D

FL-UCL DATA SHEETS FOR OFF-SITE SOIL

FL-UCL DATA SHEETS FOR ARSENIC IN OFF-SITE SOIL

FDEP UCL Calculator Version 0.97

Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 72 - 76

			ln()
Number of Samples	15	Minimum	-0.63488
Number of Censored Data	5	Maximum	0.587787
Minimum Non-censored	0.560.567 Tw (NotMn()) Tj		

FDEP UCL Calculator Version 0.97 8/4/05

Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 77 - 81

Censor Estimated Statistics for	
Number of Samples	15
Number of Censored Data	5
Minimum Non-censored	0.66
Maximum	26
Mean	NA
Median	NA
Standard Deviation	NA
Variance	NA
Coefficient of Variation	NA
Skewness	NA

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	10.66378

Censor Estimated Statistics for ln()	
Minimum	-0.63488
Maximum	3.258096
Mean	0.140842
Standard Deviation	1.502588
Variance	2.257772
Fit	0.982395

Goodness-of-Fit Results	
Distribution Recommended	Lognormal
Distribution Used	Lognormal

Estimates Assuming Lognormal Distribution	
MLE Mean	3.559885
MLE Standard Deviation	10.4164
MLE Median	1.151243
MLE Coefficient of Variation	2.926049
MVUE Estimate of Mean	2.940438
MVUE Estimate of Std. Dev.	5.083501
MVUE Estimate of SE	1.475364
MVUE Coefficient of Variation	1.728825

UCL Assuming Lognormal Distribution	
95% H-UCL	16.06863
95% Chebyshev (MVUE) UCL	9.371402
99% Chebyshev (MVUE) UCL	17.62016

FDEP Recommended UCL to Use:

9.371402

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 57 - 61

			ln()
Number of Samples	15	Minimum	-0.65393
Number of Censored Data	8	Maximum	2.302585
Minimum Non-censored	0.71	Mean	

FDEP UCL Calculator Version 0.97 8/4/05

SAMPLES 47 - 51

Summary Statistics for	
Number of Samples	15
Number of Censored Data	7
Minimum	0.52
Maximum	0.99
Mean	0.638667
Median	0.6
Standard Deviation	0.15702
Variance	0.024655
Coefficient of Variation	0.245856
Skewness	1.500084

95% UCL (Assuming Normal Data)	
Student's-t	0.710074

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	0.72214
Modified-t	0.712691

95% Non-parametric UCL	
CLT	0.705359
Jackknife	NA
Standard Bootstrap	0.70288
Bootstrap-t	0.731364
Chebyshev (Mean, Std)	0.815391

Summary Statistics for ln()	
Minimum	-0.65393
Maximum	-0.01005
Mean	-0.47259
Standard Deviation	0.219413
Variance	0.048142

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	0.638572
MLE Standard Deviation	0.141815
MLE Median	0.623385
MLE Coefficient of Variation	0.222081
MVUE Estimate of Mean	0.636622
MVUE Estimate of Std. Dev.	0.140007
MVUE Estimate of SE	0.049496
MVUE Coefficient of Variation	0.219922

UCL Assuming Lognormal Distribution	
95% H-UCL	0.713441
95% Chebyshev (MVUE) UCL	0.852372
99% Chebyshev (MVUE) UCL	1.129105

FDEP Recommended UCL to Use:

0.815391

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

SAMPLES 17 - 21

Number of Samples	15	Minimum

FDEP UCL Calculator Version 0.97 8/4/05

SAMPLES (87 - 91) + (92 - 96)

Summary Statistics for	
Number of Samples	30
Number of Censored Data	13
Minimum	0.52
Maximum	8.6
Mean	1.053333
Median	0.6
Standard Deviation	1.457952
Variance	2.125623
Coefficient of Variation	1.384131
Skewness	5.100799

95% UCL (Assuming Normal Data)	
Student's-t	1.505614

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	1.756121
Modified-t	1.546929

95% Non-parametric UCL	
CLT	1.491207
Jackknife	NA
Standard Bootstrap	1.488892
Bootstrap-t	2.650078
Chebyshev (Mean, Std)	2.213631

Summary Statistics for ln()	
Minimum	-0.65393
Maximum	2.151762
Mean	-0.21742
Standard Deviation	0.572354
Variance	0.327589

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	0.947788
MLE Standard Deviation	0.590083
MLE Median	0.804593
MLE Coefficient of Variation	0.62259
MVUE Estimate of Mean	0.937486
MVUE Estimate of Std. Dev.	0.561841
MVUE Estimate of SE	0.135632
MVUE Coefficient of Variation	0.599306

UCL Assuming Lognormal Distribution	
95% H-UCL	1.175586
95% Chebyshev (MVUE) UCL	1.528692
99% Chebyshev (MVUE) UCL	2.287009

FDEP Recommended UCL to Use:

2.213631

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

SAMPLES (32 - 36) + (37 - 41)

			ln()
Number of Samples	30	Minimum	-0.67334
Number of Censored Data	19	Maximum	0.693147
Minimum	0.51	Mean	-0.51207
Maximum	2	Standard Deviation	0.293618
Mean	0.634	Variance	0.086211
Median	0.54		
Standard Deviation	0.295689	**Goodness-of-Fit Results**	
Variance	0.087432	Distribution Recommended	Neither
Coefficient of Variation	0.466386	Distribution Used	Neither
Skewness	3.927584		Neither

3 2 - 6 1 0 . 4 -0.51207 6 3 8 6

FDEP UCL Calculator Version 0.97 8/4/05

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

SAMPLES 42 - 46

Summary Statistics for	
Number of Samples	15
Number of Censored Data	9
Minimum	1.1
Maximum	1.5
Mean	1.014667
Median	1.08
Standard Deviation	0.320131
Variance	
Coefficient of Variation	0.315504
Skewness	-1.67021

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	NA

95% Bounding Method UCL	
Bounding (Max)	1.408757
Bounding (1/2 DL)	1.060884

Summary Statistics for	
Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results	
Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:
1.408757

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97 8/4/05

Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES (107 - 111 + 13) + (147 - 151 + 12) + (112 - 116)

Censor Estimated Statistics for	
Number of Samples	36
Number of Censored Data	21
Minimum Non-censored	0.68
Maximum	4.9
Mean	NA
Median	NA
Standard Deviation	NA
Variance	NA
Coefficient of Variation	NA
Skewness	NA

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	1.852859

Censor Estimated Statistics for ln()	
Minimum	-0.65393
Maximum	1.589235
Mean	-0.26131
Standard Deviation	0.817216
Variance	0.667842
Fit	0.960234

Goodness-of-Fit Results	
Distribution Recommended	Lognormal
Distribution Used	Lognormal

Estimates Assuming Lognormal Distribution	
MLE Mean	1.07531
MLE Standard Deviation	1.048096
MLE Median	0.770041
MLE Coefficient of Variation	0.974692
MVUE Estimate of Mean	1.045548
MVUE Estimate of Std. Dev.	0.92825
MVUE Estimate of SE	0.235863
MVUE Coefficient of Variation	0.887812

UCL Assuming Lognormal Distribution	
95% H-UCL	1.46114
95% Chebyshev (MVUE) UCL	2.073652
99% Chebyshev (MVUE) UCL	3.392362

FDEP Recommended UCL to Use:

1.46114

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97 8/4/05

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

SAMPLES 127 - 131 + 14

Summary Statistics for	
Number of Samples	18
Number of Censored Data	12
Minimum	1.08
Maximum	9.9
Mean	1.477778
Median	1.06
Standard Deviation	2.110095
Variance	
Coefficient of Variation	1.427884
Skewness	4.186511

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	NA

95% Bounding Method UCL	
Bounding (Max)	3.645694
Bounding (1/2 DL)	3.371145

Summary Statistics for	
Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results	
Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:
3.645694

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 117 - 121

			ln()
Number of Samples	15	Minimum	-0.65393
Number of Censored Data	6	Maximum	1.589235
Minimum Non-censored	0.63	Mean	-0.19181
Maximum	4.9	Standard Deviation	0.879209
Mean	NA	Variance	0.773009
Median	NA	Fit	0.970216
Standard Deviation	NA	**Goodness-of-Fit Results**	
Variance	NA	Distribution Recommended	Lognormal
Coefficient of Variation	NA	Distribution Used	Lognormal
Skewness	NA		

95% UCL (Assuming Normal Data)

Estimates Assuming Lognormal Distribution

MLE Mean 1.214944

Student's-t Tc 0.04 2.88 0 TD 0.854849CL (AssumW n BT 56.64 499.08 T q 303.224 705.72 46.92 10.92 re 48 on Tw '64 2

FDEP UCL Calculator Version 0.97

SAMPLES 122 - 126

Number of Samples	14
Number of Censored Data	6
Minimum	0.52
Maximum	2.1
Mean	0.994286
Median	0.71
Standard Deviation	0.595738
Variance	0.354903
Coefficient of Variation	0.599161
Skewness	1.09409

95% UCL (Assuming Normal Data)

Student's-t	1.276249

95% UCL (Adjusted for Skewness)

Adjusted-CLT	1.305952
Modified-t	1.284009

95% Non-parametric UCL

CLT	1.256199
Jackknife	Distribution Used

	ln()
Minimum	-0.65393
Maximum	0.741937
Mean	-0.15028
Standard Deviation	0.536365
Variance	0.287687

Goodness-of-Fit Results

Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution

MLE Mean	0.993587
MLE Standard Deviation	0.573654
MLE Median	0.860469
MLE Coefficient of Variation	0.577356
MVUE Estimate of Mean	0.974216
MVUE Estimate of Std. Dev.	0.529433
MVUE Estimate of SE	0.18681
MVUE Coefficient of Variation	0.543445

Neite94mT0 TD 0.Tj 147.96 0 TD -0.0011 Tc 0 Tw (Neithe

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Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 62 - 66

Censor Estimated Statistics for	
Number of Samples	15
Number of Censored Data	6
Minimum Non-censored	0.09
Maximum	0.95
Mean	0.250283
Median	0.22
Standard Deviation	0.391029
Variance	0.152904
Coefficient of Variation	1.56235
Skewness	1.062372
Fit	0.973317

95% UCL (Assuming Normal Data)	
Student's-t	0.42811

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	0.439098
Modified-t	0.431655

95% Non-parametric UCL	
CLT	0.416367
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	0.651152

Censor Estimated Statistics for ln()	
Minimum	-2.79688
Maximum	-0.05129
Mean	0.250283
Standard Deviation	0.391029
Variance	0.152904

Goodness-of-Fit Results	
Distribution Recommended	Normal
Distribution Used	Normal

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:

0.42811

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

FDEP UCL Calculator Version 0.97

SAMPLES 67 - 71

			ln()
Number of Samples	15	Minimum	-2.76462
Number of Censored Data	4	Maximum	0.530628
Minimum	0.063	Mean	-1.96703
Maximum	1.7		

FDEP UCL Calculator Version 0.97

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

SAMPLES 27 -31

Number of Samples	15
Number of Censored Data	10
Minimum	0.134
Maximum	0.39
Mean	0.146733
Median	0.13
Standard Deviation	0.068574
Variance	
Coefficient of Variation	0.467336
Skewness	3.622402

95% UCL (Assuming Normal Data)

Student's-t	NA

95% UCL (Adjusted for Skewness)

Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL

CLT	NA

Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results

Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution

MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA

FDEP UCL Calculator Version 0.97 8/4/05

Note: Bounding estimates are worst case 95% UCLs based on the Chebyshev (mean, std) method.

SAMPLES 97 - 101 + 7

Summary Statistics for	
Number of Samples	18
Number of Censored Data	14
Minimum	0.152
Maximum	0.35
Mean	0.146778
Median	0.13
Standard Deviation	0.05764
Variance	
Coefficient of Variation	0.392705
Skewness	2.877788

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	NA

95% Bounding Method UCL	
Bounding (Max)	0.209652
Bounding (1/2 DL)	0.169696

Summary Statistics for	
Minimum	NA
Maximum	NA
Mean	NA
Standard Deviation	NA
Variance	NA

Goodness-of-Fit Results	
Distribution Recommended	NA
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	NA
MLE Standard Deviation	NA
MLE Median	NA
MLE Coefficient of Variation	NA
MVUE Estimate of Mean	NA
MVUE Estimate of Std. Dev.	NA
MVUE Estimate of SE	NA
MVUE Coefficient of Variation	NA

UCL Assuming Lognormal Distribution	
95% H-UCL	NA
95% Chebyshev (MVUE) UCL	NA
99% Chebyshev (MVUE) UCL	NA

FDEP Recommended UCL to Use:
0.209652

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

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Note: Results reflect censored parameter estimations based on distributional assumptions.

SAMPLES 142 - 146 + 11

Censor Estimated Statistics for	
Number of Samples	18
Number of Censored Data	8
Minimum Non-censored	0.086
Maximum	1
Mean	NA
Median	NA
Standard Deviation	NA
Variance	NA
Coefficient of Variation	NA
Skewness	NA

95% UCL (Assuming Normal Data)	
Student's-t	NA

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	NA
Modified-t	NA

95% Non-parametric UCL	
CLT	NA
Jackknife	NA
Standard Bootstrap	NA
Bootstrap-t	NA
Chebyshev (Mean, Std)	0.483386

Censor Estimated Statistics for ln()	
Minimum	-2.74887
Maximum	0
Mean	-2.06353
Standard Deviation	1.118124
Variance	1.250201
Fit	0.968322

Goodness-of-Fit Results	
Distribution Recommended	Lognormal
Distribution Used	Lognormal

Estimates Assuming Lognormal Distribution	
MLE Mean	0.2373
MLE Standard Deviation	0.374531
MLE Median	0.127005
MLE Coefficient of Variation	1.578304
MVUE Estimate of Mean	0.217227
MVUE Estimate of Std. Dev.	0.264759
MVUE Estimate of SE	0.080905
MVUE Coefficient of Variation	1.21881

UCL Assuming Lognormal Distribution	
95% H-UCL	0.521133
95% Chebyshev (MVUE) UCL	0.569883
99% Chebyshev (MVUE) UCL	1.022222

FDEP Recommended UCL to Use:

0.521133

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.

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SAMPLES 132 - 136

Summary Statistics for	
Number of Samples	15
Number of Censored Data	1
Minimum	1.1
Maximum	570
Mean	124.8733
Median	47
Standard Deviation	152.3404
Variance	23207.6
Coefficient of Variation	1.21996
Skewness	1.920156

95% UCL (Assuming Normal Data)	
Student's-t	194.1529

95% UCL (Adjusted for Skewness)	
Adjusted-CLT	210.4184
Modified-t	197.4031

95% Non-parametric UCL	
CLT	189.578
Jackknife	NA
Standard Bootstrap	189.2695
Bootstrap-t	236.5858
Chebyshev (Mean, Std)	296.3308

Summary Statistics for ln()	
Minimum	0.09531
Maximum	6.345636
Mean	3.71537
Standard Deviation	2.012103
Variance	4.048558

Goodness-of-Fit Results	
Distribution Recommended	Neither
Distribution Used	Neither

Estimates Assuming Lognormal Distribution	
MLE Mean	310.9553
MLE Standard Deviation	2333.506
MLE Median	41.07378
MLE Coefficient of Variation	7.504316
MVUE Estimate of Mean	223.702
MVUE Estimate of Std. Dev.	656.2903
MVUE Estimate of SE	135.8061
MVUE Coefficient of Variation	2.93377

UCL Assuming Lognormal Distribution	
95% H-UCL	4023.826
95% Chebyshev (MVUE) UCL	815.6672
99% Chebyshev (MVUE) UCL	1574.959

FDEP Recommended UCL to Use:

296.3308

PROUCL 2.1 NA

Note: These estimates are valid ONLY if samples are random and representative.